

RAPP Platform API

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Hierarchical Index

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Chapter 3

Class Index

3.1 Class List

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Chapter 4

File Index

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Chapter 5

Namespace Documentation

5.1 CloudServices Namespace Reference

5.2 rapp Namespace Reference

Namespaces

- [cloud](#)
- [object](#)
- [types](#)

Common global types.

5.3 rapp::cloud Namespace Reference

Classes

- class [asio_handler](#)
base class for asio handling, including helper methods and most protected members
- class [asio_service_http](#)
base class for asynchronous http websockets used for connecting to cloud services
- class [asio_socket](#)
Abstract Base ASIO Socket class Use for passing around to the service controller, various types of cloud handlers. This Interface is needed so that different handlers can be passed to the scheduler transparently.
- class [asio_socket_https](#)
wrapper for SSL/TLS secure HTTP communication
- class [available_services](#)
requests available services from platform
- class [cognitive_get_history](#)
- class [cognitive_get_scores](#)
- class [cognitive_record_performance](#)
- class [cognitive_test_selector](#)
chose a cognitive game to play
- class [email_fetch](#)
fetch email(s)
- class [email_send](#)
send an email
- class [face_detection](#)

Asynchronous Service which will request the cloud to detect faces.

- class [fetch_personal_data](#)
Get all personal data for a specific user.
- class [geolocation](#)
geolocation service
- class [hazard_detection_door_check](#)
detect open doors
- class [hazard_detection_light_check](#)
detect light levels
- class [human_detection](#)
detect humans in an image
- class [login_user](#)
- class [news_explore](#)
get news
- class [object_recognition](#)
recognize object from an image
- class [ontology_is_subsuperclass_of](#)
query if sub class is a super class of param
- class [ontology_subclasses_of](#)
get ontology subclass of a query
- class [ontology_superclasses_of](#)
get ontology super-classes of query
- class [path_upload_map](#)
- class [plan_path_2d](#)
- class [qr_detection](#)

Asynchronous Service which will request the cloud to detect QR codes.

- class [service_controller](#)
Main class that controllers RAPP Services.
- class [set_denoise_profile](#)
setting the denoising audio profile for speech recognition
- class [speech_detection_google](#)
delegate speech-to-text to Google via RAPP
- class [speech_detection_sphinx4](#)
speech-to-text recognition using CMU sphinx4
- class [text_to_speech](#)
request speech audio from text
- class [weather_report_current](#)
get current weather report
- class [weather_report_forecast](#)
get weather forecast

Variables

- constexpr char [address](#) [] = "localhost"
api.rapp.cloud -
- constexpr char [port](#) [] = "9001"
api.rapp.cloud - HOP server port

5.3.1 Variable Documentation

5.3.1.1 constexpr char rapp::cloud::address[] = "localhost"

api.rapp.cloud -

Definition at line 8 of file asio_socket.hpp.

5.3.1.2 constexpr char rapp::cloud::port[] = "9001"

api.rapp.cloud - HOP server port

Definition at line 10 of file asio_socket.hpp.

5.4 rapp::object Namespace Reference

Classes

- class [audio](#)
class which wraps around raw bytes of an audiofile
- class [face](#)
describes a face coordinate (cartesian)
- class [human](#)
describes human coordinates
- class [microphone_wav](#)
WAV Single channel 16Khz > Headset audio source.
- class [nao_quad_channel_wav](#)
WAV Class specialisation for quad channel.
- class [nao_single_channel_wav](#)
WAV Class specialisation for a single channel.
- class [ogg](#)
OGG Class specialisation.
- class [picture](#)
class which wraps around raw bytes of a picture
- class [qr_code](#)

5.5 rapp::types Namespace Reference

Common global types.

Typedefs

- typedef char [byte](#)

5.5.1 Detailed Description

Common global types.

5.5.2 Typedef Documentation

5.5.2.1 typedef char rapp::types::byte

Definition at line 6 of file globals.hpp.

5.6 RappCloud Namespace Reference

Namespaces

- [CloudMsgs](#)
- [Objects](#)
- [RappPlatformApi](#)
- [Service](#)
- [ServiceController](#)
- [Utils](#)

Variables

- list `__all__` = ["CloudMsgs", "RappPlatformService", "Objects", "RappPlatformAPI"]

5.6.1 Variable Documentation

5.6.1.1 list RappCloud.__all__ = ["CloudMsgs", "RappPlatformService", "Objects", "RappPlatformAPI"]

Definition at line 11 of file `__init__.py`.

5.7 RappCloud.CloudMsgs Namespace Reference

Namespaces

- [Cloud](#)
- [CognitiveExerciseSelect](#)
- [CognitiveGetHistory](#)
- [CognitiveGetScores](#)
- [CognitiveRecordPerformance](#)
- [EmailFetch](#)
- [EmailSend](#)
- [FaceDetection](#)
- [Geolocation](#)
- [HazardDetectionDoor](#)
- [HazardDetectionLight](#)
- [HumanDetection](#)
- [NewsExplore](#)
- [ObjectRecognitionCaffe](#)
- [OntologyIsSubsuperclass](#)
- [OntologySubclasses](#)
- [OntologySuperclasses](#)
- [PathPlanningPlan2D](#)
- [PathPlanningUploadMap](#)
- [QrDetection](#)

- [SetNoiseProfile](#)
- [SpeechRecognitionGoogle](#)
- [SpeechRecognitionSphinx](#)
- [TextToSpeech](#)
- [WeatherReportCurrent](#)
- [WeatherReportForecast](#)

5.8 RappCloud.CloudMsgs.Cloud Namespace Reference

Classes

- class [CloudMsg](#)
- class [CloudRequest](#)
- class [CloudResponse](#)

5.9 RappCloud.CloudMsgs.CognitiveExerciseSelect Namespace Reference

Classes

- class [CognitiveExerciseSelect](#)

5.10 RappCloud.CloudMsgs.CognitiveGetHistory Namespace Reference

Classes

- class [CognitiveGetHistory](#)

5.11 RappCloud.CloudMsgs.CognitiveGetScores Namespace Reference

Classes

- class [CognitiveGetScores](#)

5.12 RappCloud.CloudMsgs.CognitiveRecordPerformance Namespace Reference

Classes

- class [CognitiveRecordPerformance](#)

5.13 RappCloud.CloudMsgs.EmailFetch Namespace Reference

Classes

- class [EmailFetch](#)

5.14 RappCloud.CloudMsgs.EmailSend Namespace Reference

Classes

- class [EmailSend](#)

5.15 RappCloud.CloudMsgs.FaceDetection Namespace Reference

Classes

- class [FaceDetection](#)

5.16 RappCloud.CloudMsgs.Geolocation Namespace Reference

Classes

- class [Geolocation](#)

5.17 RappCloud.CloudMsgs.HazardDetectionDoor Namespace Reference

Classes

- class [HazardDetectionDoor](#)

5.18 RappCloud.CloudMsgs.HazardDetectionLight Namespace Reference

Classes

- class [HazardDetectionLight](#)

5.19 RappCloud.CloudMsgs.HumanDetection Namespace Reference

Classes

- class [HumanDetection](#)

5.20 RappCloud.CloudMsgs.NewsExplore Namespace Reference

Classes

- class [NewsExplore](#)

5.21 RappCloud.CloudMsgs.ObjectRecognitionCaffe Namespace Reference

Classes

- class [ObjectRecognitionCaffe](#)

5.22 RappCloud.CloudMsgs.OntologyIsSubsuperclass Namespace Reference

Classes

- class [OntologyIsSubsuperclass](#)

5.23 RappCloud.CloudMsgs.OntologySubclasses Namespace Reference

Classes

- class [OntologySubclasses](#)

5.24 RappCloud.CloudMsgs.OntologySuperclasses Namespace Reference

Classes

- class [OntologySuperclasses](#)

5.25 RappCloud.CloudMsgs.PathPlanningPlan2D Namespace Reference

Classes

- class [PathPlanningPlan2D](#)

5.26 RappCloud.CloudMsgs.PathPlanningUploadMap Namespace Reference

Classes

- class [PathPlanningUploadMap](#)

5.27 RappCloud.CloudMsgs.QrDetection Namespace Reference

Classes

- class [QrDetection](#)

5.28 RappCloud.CloudMsgs.SetNoiseProfile Namespace Reference

Classes

- class [SetNoiseProfile](#)

5.29 RappCloud.CloudMsgs.SpeechRecognitionGoogle Namespace Reference

Classes

- class [SpeechRecognitionGoogle](#)

5.30 RappCloud.CloudMsgs.SpeechRecognitionSphinx Namespace Reference

Classes

- class [SpeechRecognitionSphinx](#)

5.31 RappCloud.CloudMsgs.TextToSpeech Namespace Reference

Classes

- class [TextToSpeech](#)

5.32 RappCloud.CloudMsgs.WeatherReportCurrent Namespace Reference

Classes

- class [WeatherReportCurrent](#)

5.33 RappCloud.CloudMsgs.WeatherReportForecast Namespace Reference

Classes

- class [WeatherReportForecast](#)

5.34 RappCloud.Objects Namespace Reference

Namespaces

- [File](#)
- [Payload](#)

5.35 RappCloud.Objects.File Namespace Reference

Classes

- class [File](#)

5.36 RappCloud.Objects.Payload Namespace Reference

Classes

- class [Payload](#)

5.37 RappCloud.RappPlatformApi Namespace Reference

Classes

- class [RappPlatformAPI](#)

5.38 RappCloud.Service Namespace Reference

Namespaces

- [RappPlatformService](#)

5.39 RappCloud.Service.RappPlatformService Namespace Reference

Classes

- class [RappPlatformService](#)

5.40 RappCloud.ServiceController Namespace Reference

Namespaces

- [Adapters](#)
- [AsyncHandler](#)
- [RAPPAuth](#)
- [ServiceControllerAsync](#)
- [ServiceControllerBase](#)
- [ServiceControllerSync](#)

5.41 RappCloud.ServiceController.Adapters Namespace Reference

Classes

- class [SSL23Adapter](#)
- class [SSL2Adapter](#)

- class [SSL3Adapter](#)
- class [SSLAdapter](#)
- class [SSLDef](#)
- class [TLS11Adapter](#)
- class [TLS12Adapter](#)
- class [TLS1Adapter](#)
- class [TLSAdapter](#)

5.42 RappCloud.ServiceController.AsyncHandler Namespace Reference

Classes

- class [AsyncHandler](#)

5.43 RappCloud.ServiceController.RAPPAuth Namespace Reference

Classes

- class [RAPPAuth](#)

5.44 RappCloud.ServiceController.ServiceControllerAsync Namespace Reference

Classes

- class [ServiceControllerAsync](#)

5.45 RappCloud.ServiceController.ServiceControllerBase Namespace Reference

Classes

- class [ServiceControllerBase](#)

5.46 RappCloud.ServiceController.ServiceControllerSync Namespace Reference

Classes

- class [ServiceControllerSync](#)

5.47 RappCloud.Utils Namespace Reference

Namespaces

- [DatatypeAssert](#)
- [Net](#)
- [RandStrGen](#)

5.48 RappCloud.Utills.DatatypeAssert Namespace Reference

Functions

- def [add_to_args](#)
*Add values to *args.*
- def [add_to_kwargs](#)
*Add values to **kwargs.*
- def [datatypeassert](#)
Data type assertion decorator implementation.

5.48.1 Function Documentation

5.48.1.1 def RappCloud.Utills.DatatypeAssert.add_to_args (args)

Add values to *args.

Returns the updated *args

Definition at line 35 of file DatatypeAssert.py.

5.48.1.2 def RappCloud.Utills.DatatypeAssert.add_to_kwargs (kwargs)

Add values to **kwargs.

Returns the updated **kwargs

Definition at line 43 of file DatatypeAssert.py.

5.48.1.3 def RappCloud.Utills.DatatypeAssert.datatypeassert (decargs, deckwargs)

Data type assertion decorator implementation.

Check and assert on function input arguments.

Parameters

<i>*args</i>	- Data types for the function to assert.
<i>**kwargs</i>	- Data types for the function to assert.

Definition at line 51 of file DatatypeAssert.py.

5.49 RappCloud.Utills.Net Namespace Reference

Classes

- class [Net](#)

5.50 RappCloud.Utills.RandStrGen Namespace Reference

Classes

- class [RandStrGen](#)

Chapter 6

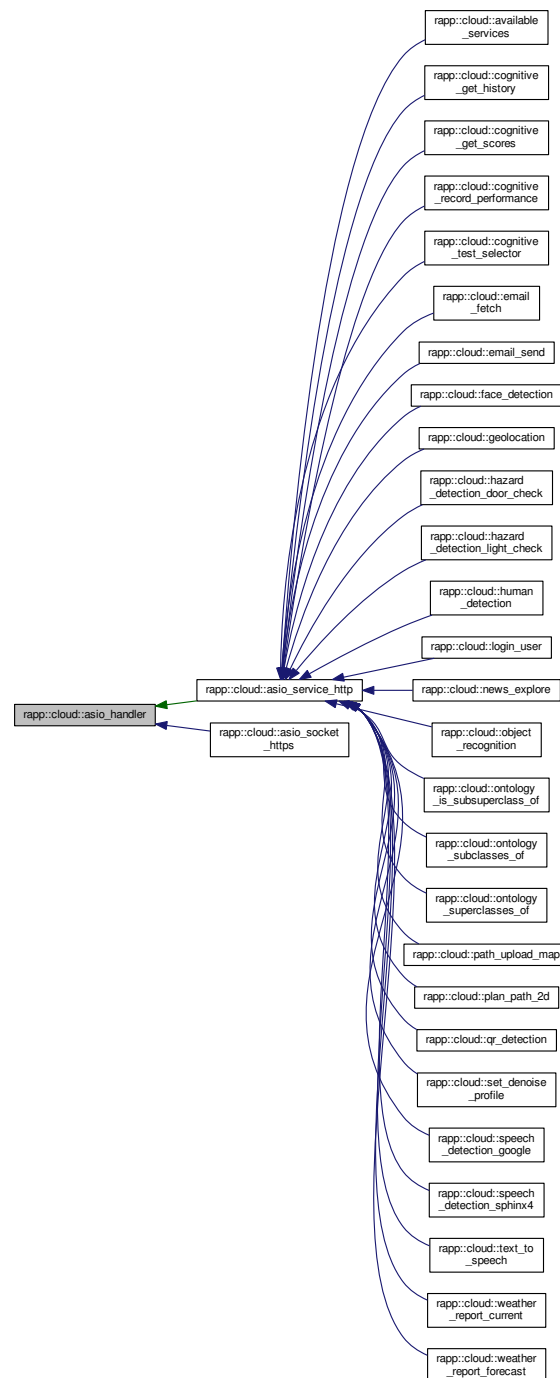
Class Documentation

6.1 rapp::cloud::asio_handler Class Reference

base class for asio handling, including helper methods and most protected members

```
#include <asio_handler.hpp>
```

Inheritance diagram for `rapp::cloud::asio_handler`:



Public Member Functions

- [asio_handler](#) (const std::string token)
ctor
- void [content_length](#) (std::string response, std::size_t &length)
get the content leangth from
- std::string [decode64](#) (const std::string &val)

- decode base64*
- std::string [encode64](#) (const std::string &val)
encode base64
- void [error_handler](#) (const boost::system::error_code &error)
Handle an Error.
- std::string [escape_string](#) (const std::string &str)
escape JSON strings when sending them over the socket
- bool [has_content_length](#) (std::string response)
examine if the header response contains a `content-length` field
- void [invalid_request](#) (const std::string message)
Handle Invalid Query - e.g.: response which states our query was invalid.
- std::string [random_boundary](#) () const
Create a random boundary for the multipart/form in HTTP.
- std::string [strip_header](#) (std::string response)
remove/strip the HTTP header and

Protected Attributes

- std::size_t [bytes_transferred_](#) = 0
Bytes Transferred.
- std::function< void(std::string)> [callback_](#)
Callback Handler - use with `std::bind` or boost variant.
- std::size_t [content_length_](#) = 0
Content-Length.
- std::atomic< bool > [flag_](#) = {false}
flag used to extract header
- std::string [header_](#)
Header that will be used.
- std::string [json_](#)
JSON reply.
- std::string [post_](#)
Actual post Data.
- boost::asio::streambuf [request_](#)
Request Container.
- boost::asio::streambuf [response_](#)
Response Container.
- std::unique_ptr
< boost::asio::deadline_timer > [timer_](#)
time-out timer
- const std::string [token_](#)
user authentication token

6.1.1 Detailed Description

base class for asio handling, including helper methods and most protected members

Version

0.6.0

Date

April 2016

Author

Alex Giokas a.gkiokas@ortelio.co.uk

Definition at line 14 of file asio_handler.hpp.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 `rapp::cloud::asio_handler::asio_handler (const std::string token)`

ctor

Definition at line 19 of file asio_handler.hpp.

6.1.3 Member Function Documentation

6.1.3.1 `void rapp::cloud::asio_handler::content_length (std::string response, std::size_t & length)`

get the content leangth from

Parameters

<i>header</i>	
---------------	--

Definition at line 16 of file asio_handler.cpp.

6.1.3.2 `std::string rapp::cloud::asio_handler::decode64 (const std::string & val)`

decode base64

Parameters

<i>val</i>	must be encoded using base64
------------	------------------------------

Definition at line 101 of file asio_handler.cpp.

6.1.3.3 `std::string rapp::cloud::asio_handler::encode64 (const std::string & val)`

encode base64

Parameters

<i>val</i>	must be plain-text string
------------	---------------------------

Returns

a base64 encoded string

Definition at line 110 of file asio_handler.cpp.

6.1.3.4 `void rapp::cloud::asio_handler::error_handler (const boost::system::error_code & error)`

Handle an Error.

Parameters

<i>error</i>	is the raised error from the client
--------------	-------------------------------------

Definition at line 6 of file asio_handler.cpp.

6.1.3.5 std::string rapp::cloud::asio_handler::escape_string (const std::string & *str*)

escape JSON strings when sending them over the socket

Parameters

<i>str</i>	will be escaped and returned
------------	------------------------------

Definition at line 82 of file asio_handler.cpp.

6.1.3.6 bool rapp::cloud::asio_handler::has_content_length (std::string *response*)

examine if the header response contains a content-length field

Definition at line 42 of file asio_handler.cpp.

6.1.3.7 void rapp::cloud::asio_handler::invalid_request (const std::string *message*)

Handle Invalid Query - e.g.: response which states our query was invalid.

Definition at line 11 of file asio_handler.cpp.

6.1.3.8 std::string rapp::cloud::asio_handler::random_boundary () const

Create a random boundary for the multipart/form in HTTP.

Definition at line 67 of file asio_handler.cpp.

6.1.3.9 std::string rapp::cloud::asio_handler::strip_header (std::string *response*)

remove/strip the HTTP header and

Returns

the body

Definition at line 55 of file asio_handler.cpp.

6.1.4 Member Data Documentation

6.1.4.1 std::size_t rapp::cloud::asio_handler::bytes_transferred_ = 0 [protected]

Bytes Transferred.

Definition at line 74 of file asio_handler.hpp.

6.1.4.2 std::function<void(std::string)> rapp::cloud::asio_handler::callback_ [protected]

Callback Handler - use with std::bind or boost variant.

Definition at line 61 of file asio_handler.hpp.

6.1.4.3 `std::size_t rapp::cloud::asio_handler::content_length_ = 0` [protected]

Content-Length.

Definition at line 72 of file asio_handler.hpp.

6.1.4.4 `std::atomic<bool> rapp::cloud::asio_handler::flag_ = {false}` [protected]

flag used to extract header

Definition at line 70 of file asio_handler.hpp.

6.1.4.5 `std::string rapp::cloud::asio_handler::header_` [protected]

Header that will be used.

Definition at line 57 of file asio_handler.hpp.

6.1.4.6 `std::string rapp::cloud::asio_handler::json_` [protected]

JSON reply.

Definition at line 76 of file asio_handler.hpp.

6.1.4.7 `std::string rapp::cloud::asio_handler::post_` [protected]

Actual post Data.

Definition at line 59 of file asio_handler.hpp.

6.1.4.8 `boost::asio::streambuf rapp::cloud::asio_handler::request_` [protected]

Request Container.

Definition at line 63 of file asio_handler.hpp.

6.1.4.9 `boost::asio::streambuf rapp::cloud::asio_handler::response_` [protected]

Response Container.

Definition at line 65 of file asio_handler.hpp.

6.1.4.10 `std::unique_ptr<boost::asio::deadline_timer> rapp::cloud::asio_handler::timer_` [protected]

time-out timer

Definition at line 68 of file asio_handler.hpp.

6.1.4.11 `const std::string rapp::cloud::asio_handler::token_` [protected]

user authentication token

Definition at line 78 of file asio_handler.hpp.

The documentation for this class was generated from the following files:

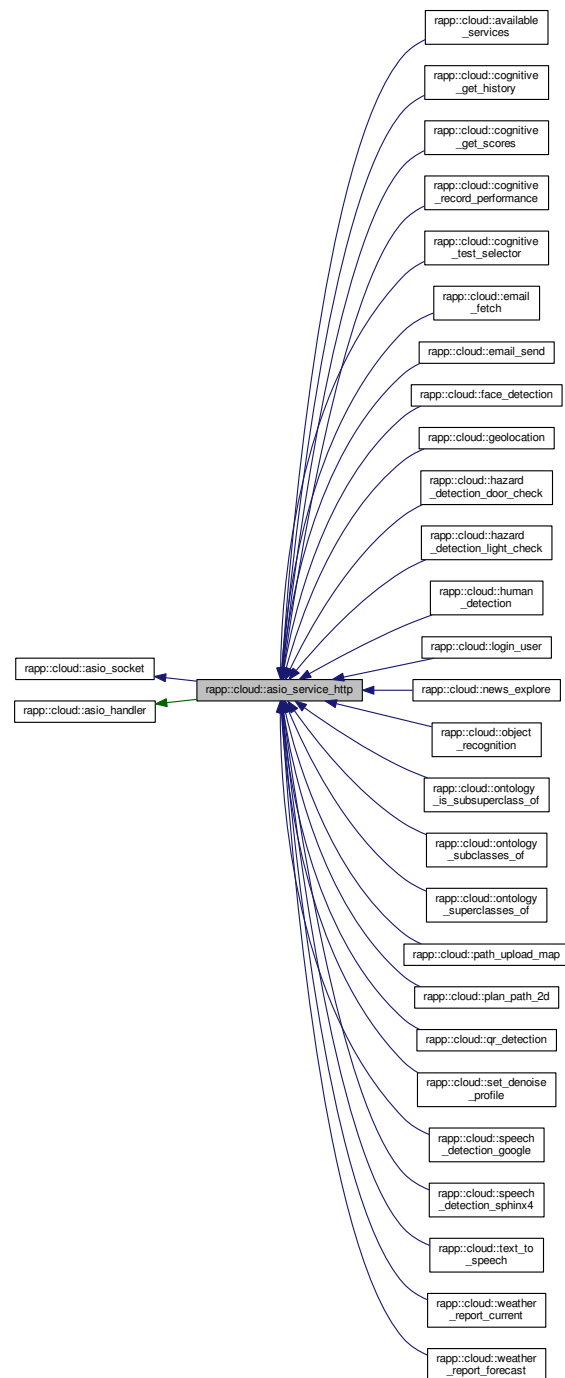
- [/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/asio_handler.hpp](#)
- [/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/asio_handler.cpp](#)

6.2 rapp::cloud::asio_service_http Class Reference

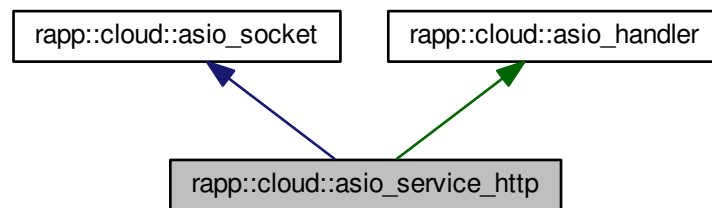
base class for asynchronous http websockets used for connecting to cloud services

```
#include <asio_service_http.hpp>
```

Inheritance diagram for rapp::cloud::asio_service_http:



Collaboration diagram for `rapp::cloud::asio_service_http`:



Public Member Functions

- [asio_service_http](#) (const std::string token)
- void [schedule](#) (boost::asio::ip::tcp::resolver::query &query, boost::asio::ip::tcp::resolver &resolver, boost::asio::io_service &io_service)

Protected Member Functions

- void [check_timeout](#) ()
check timed-out
- void [handle_connect](#) (const boost::system::error_code &err, boost::asio::ip::tcp::resolver::iterator endpoint_iterator)
- void [handle_read_content](#) (const boost::system::error_code &err, std::size_t bytes)
Callback for Handling Actual Data Contents.
- void [handle_read_headers](#) (const boost::system::error_code &err)
Callback for Handling Headers.
- void [handle_read_status_line](#) (const boost::system::error_code &err)
Callback for handling HTTP Header Response Data.
- void [handle_resolve](#) (const boost::system::error_code &err, boost::asio::ip::tcp::resolver::iterator endpoint_iterator)
Callback for Handling Address Resolution.
- void [handle_write_request](#) (const boost::system::error_code &err)
Callback for handling request and waiting for response.
- void [reset](#) ()
reset handler (clear data, bytes, etc) and stop connection

Private Attributes

- std::unique_ptr
< boost::asio::ip::tcp::socket > [socket](#)
TCP Socket (plain-text)

Additional Inherited Members

6.2.1 Detailed Description

base class for asynchronous http websockets used for connecting to cloud services

Version

0.6.0

Date

May 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk TODO: rename to asio_socket_http

Definition at line 14 of file asio_service_http.hpp.

6.2.2 Constructor & Destructor Documentation

6.2.2.1 rapp::cloud::asio_service_http::asio_service_http (const std::string *token*)

Construct the asio http service

Parameters

<i>token</i>	is the rapp.cloud authentication token
--------------	--

Definition at line 21 of file asio_service_http.hpp.

6.2.3 Member Function Documentation

6.2.3.1 void rapp::cloud::asio_service_http::check_timeout () [protected]

check timed-out

Definition at line 230 of file asio_service_http.cpp.

6.2.3.2 void rapp::cloud::asio_service_http::handle_connect (const boost::system::error_code & *err*, boost::asio::ip::tcp::resolver::iterator *endpoint_iterator*) [protected]

Callback for Handling Connection Events

Parameters

<i>err</i>	is a possible error
<i>endpoint_iterator</i>	is boosts' hostname address handler

Definition at line 59 of file asio_service_http.cpp.

6.2.3.3 void rapp::cloud::asio_service_http::handle_read_content (const boost::system::error_code & *err*, std::size_t *bytes*) [protected]

Callback for Handling Actual Data Contents.

Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 163 of file asio_service_http.cpp.

6.2.3.4 void rapp::cloud::asio_service_http::handle_read_headers (const boost::system::error_code & *err*)
[protected]

Callback for Handling Headers.

Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 143 of file asio_service_http.cpp.

6.2.3.5 void rapp::cloud::asio_service_http::handle_read_status_line (const boost::system::error_code & *err*)
[protected]

Callback for handling HTTP Header Response Data.

Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 107 of file asio_service_http.cpp.

6.2.3.6 void rapp::cloud::asio_service_http::handle_resolve (const boost::system::error_code & *err*,
boost::asio::ip::tcp::resolver::iterator *endpoint_iterator*) [protected]

Callback for Handling Address Resolution.

Parameters

<i>err</i>	is a possible error
<i>endpoint_iterator</i>	is boost's hostname address handler

Definition at line 41 of file asio_service_http.cpp.

6.2.3.7 void rapp::cloud::asio_service_http::handle_write_request (const boost::system::error_code & *err*)
[protected]

Callback for handling request and waiting for response.

Parameters

<i>err</i>	is a possible error
------------	---------------------

Definition at line 88 of file asio_service_http.cpp.

6.2.3.8 void rapp::cloud::asio_service_http::reset () [protected]

reset handler (clear data, bytes, etc) and stop connection

Definition at line 217 of file asio_service_http.cpp.

6.2.3.9 void rapp::cloud::asio_service_http::schedule (boost::asio::ip::tcp::resolver::query & *query*,
boost::asio::ip::tcp::resolver & *resolver*, boost::asio::io_service & *io_service*) [virtual]

schedule this client as a job for execution using

Parameters

<i>query</i>	defines the actual URL/URI
<i>resolver</i>	is the URL/URI resolver reference
<i>io_service</i>	is the queue on which jobs are scheduled

Implements [rapp::cloud::asio_socket](#).

Definition at line 6 of file asio_service_http.cpp.

6.2.4 Member Data Documentation

6.2.4.1 `std::unique_ptr<boost::asio::ip::tcp::socket> rapp::cloud::asio_service_http::socket_` [private]

TCP Socket (plain-text)

Definition at line 78 of file asio_service_http.hpp.

The documentation for this class was generated from the following files:

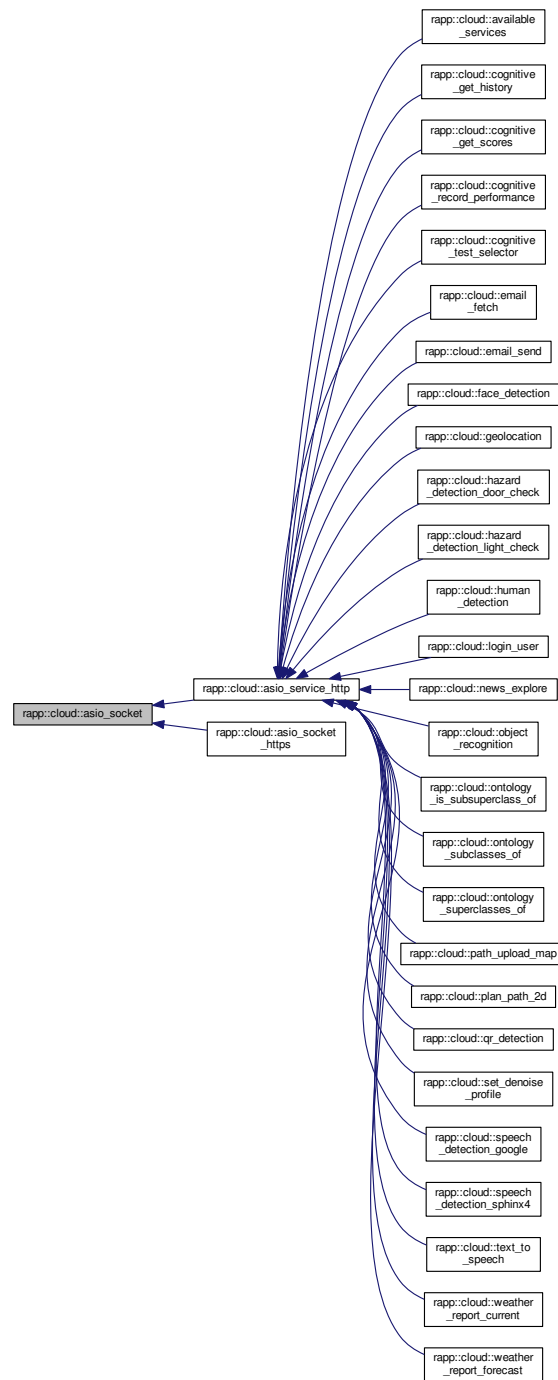
- [/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/asio_service_http.hpp](#)
- [/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/asio_service_http.cpp](#)

6.3 rapp::cloud::asio_socket Class Reference

Abstract Base ASIO Socket class Use for passing around to the service controller, various types of cloud handlers. This Interface is needed so that different handlers can be passed to the scheduler transparently.

```
#include <asio_socket.hpp>
```


Inheritance diagram for rapp::cloud::asio_socket:



Public Member Functions

- virtual void [schedule](#) (boost::asio::ip::tcp::resolver::query &, boost::asio::ip::tcp::resolver &, boost::asio::io_service &)=0

6.3.1 Detailed Description

Abstract Base ASIO Socket class Use for passing around to the service controller, various types of cloud handlers. This Interface is needed so that different handlers can be passed to the scheduler transparently.

Version

2

Date

26-April-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 22 of file asio_socket.hpp.

6.3.2 Member Function Documentation

6.3.2.1 `virtual void rapp::cloud::asio_socket::schedule (boost::asio::ip::tcp::resolver::query & , boost::asio::ip::tcp::resolver & , boost::asio::io_service &) [pure virtual]`

schedule this object as a job for ASIO execution

Parameters

<i>query</i>	defines the actual URL/URI
<i>resolver</i>	is the URL/URI resolver reference
<i>io_service</i>	is the service queue on which this job will be scheduled to run

Implemented in [rapp::cloud::asio_socket_https](#), and [rapp::cloud::asio_service_http](#).

The documentation for this class was generated from the following file:

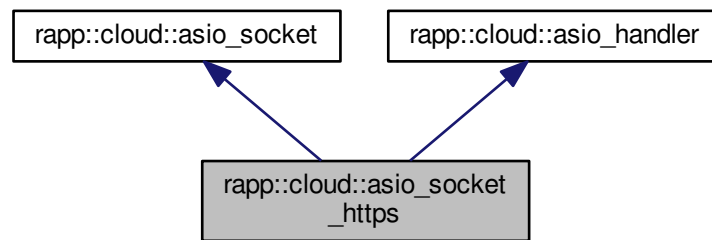
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket/asio_socket.hpp`

6.4 rapp::cloud::asio_socket_https Class Reference

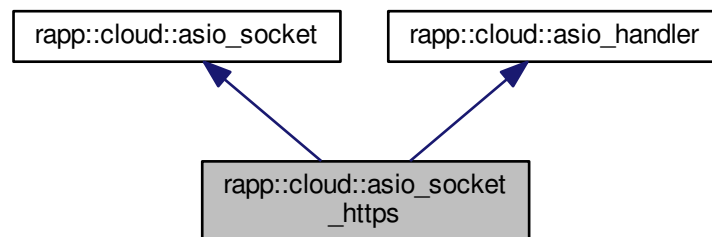
wrapper for SSL/TLS secure HTTP communication

```
#include <asio_socket_https.hpp>
```

Inheritance diagram for rapp::cloud::asio_socket_https:



Collaboration diagram for rapp::cloud::asio_socket_https:



Public Types

- typedef
boost::asio::ssl::stream
< boost::asio::ip::tcp::socket > [boost_tls_socket](#)
boost tls wraps around a tcp socket

Public Member Functions

- [asio_socket_https](#) (const std::string token)
construct using:
- void [schedule](#) (boost::asio::ip::tcp::resolver::query &query, boost::asio::ip::tcp::resolver &resolver, boost::asio::io_service &io_service)

Protected Member Functions

- void [check_timeout](#) ()
check timed-out
- void [handle_connect](#) (const boost::system::error_code &error)

- begin connect*
- void [handle_handshake](#) (const boost::system::error_code &error)
handle handshake
- void [handle_read_content](#) (const boost::system::error_code &err)
Callback for Handling Actual Data Contents.
- void [handle_read_headers](#) (const boost::system::error_code &err)
Callback for Handling Headers.
- void [handle_read_status_line](#) (const boost::system::error_code &err)
Callback for handling HTTP Header Response Data.
- void [handle_write](#) (const boost::system::error_code &err)
Callback for handling request and waiting for response.
- void [reset](#) ()
reset handler (clear data, bytes, etc) and stop connection
- bool [verify_certificate](#) (bool preverified, boost::asio::ssl::verify_context &ctx)
verify TLS certificate

Private Attributes

- boost::asio::ssl::context [ctx_](#)
tls context
- std::unique_ptr< [boost_tls_socket](#) > [tls_socket_](#)
tls/ssl socket wrapper

Additional Inherited Members

6.4.1 Detailed Description

wrapper for SSL/TLS secure HTTP communication

Version

0.6.0

Date

April 2016

Author

Alex Giokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file asio_socket_https.hpp.

6.4.2 Member Typedef Documentation

6.4.2.1 `typedef boost::asio::ssl::stream<boost::asio::ip::tcp::socket> rapp::cloud::asio_socket_https::boost_tls_socket`

boost tls wraps around a tcp socket

Definition at line 17 of file asio_socket_https.hpp.

6.4.3 Constructor & Destructor Documentation

6.4.3.1 rapp::cloud::asio_socket_https::asio_socket_https (const std::string *token*)

construct using:

Parameters

<i>token</i>	authentication token
<i>user</i>	rapp.cloud username

Definition at line 24 of file asio_socket_https.hpp.

6.4.4 Member Function Documentation

6.4.4.1 void rapp::cloud::asio_socket_https::check_timeout () [protected]

check timed-out

Definition at line 216 of file asio_socket_https.cpp.

6.4.4.2 void rapp::cloud::asio_socket_https::handle_connect (const boost::system::error_code & error) [protected]

begin connect

Definition at line 68 of file asio_socket_https.cpp.

6.4.4.3 void rapp::cloud::asio_socket_https::handle_handshake (const boost::system::error_code & error)
[protected]

handle handshake

Definition at line 84 of file asio_socket_https.cpp.

6.4.4.4 void rapp::cloud::asio_socket_https::handle_read_content (const boost::system::error_code & err)
[protected]

Callback for Handling Actual Data Contents.

Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 179 of file asio_socket_https.cpp.

6.4.4.5 void rapp::cloud::asio_socket_https::handle_read_headers (const boost::system::error_code & err)
[protected]

Callback for Handling Headers.

Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 160 of file asio_socket_https.cpp.

6.4.4.6 void rapp::cloud::asio_socket_https::handle_read_status_line (const boost::system::error_code & err)
[protected]

Callback for handling HTTP Header Response Data.

Parameters

<i>err</i>	is a possible error message
------------	-----------------------------

Definition at line 124 of file asio_socket_https.cpp.

6.4.4.7 void rapp::cloud::asio_socket_https::handle_write (const boost::system::error_code & *err*) [protected]

Callback for handling request and waiting for response.

Parameters

<i>err</i>	is a possible error
------------	---------------------

Definition at line 105 of file asio_socket_https.cpp.

6.4.4.8 void rapp::cloud::asio_socket_https::reset () [protected]

reset handler (clear data, bytes, etc) and stop connection

Definition at line 203 of file asio_socket_https.cpp.

6.4.4.9 void rapp::cloud::asio_socket_https::schedule (boost::asio::ip::tcp::resolver::query & *query*, boost::asio::ip::tcp::resolver & *resolver*, boost::asio::io_service & *io_service*) [virtual]

schedule this as a job for execution

Parameters

<i>query</i>	defines the URL/URI
<i>resolver</i>	resolves the URL/URI address
<i>io_service</i>	is the queue on which jobs are scheduled

Implements [rapp::cloud::asio_socket](#).

Definition at line 6 of file asio_socket_https.cpp.

6.4.4.10 bool rapp::cloud::asio_socket_https::verify_certificate (bool *preverified*, boost::asio::ssl::verify_context & *ctx*) [protected]

verify TLS certificate

verify TLS certificate - WARNING: is this proper verification?

Definition at line 59 of file asio_socket_https.cpp.

6.4.5 Member Data Documentation

6.4.5.1 boost::asio::ssl::context rapp::cloud::asio_socket_https::ctx_ [private]

tls context

Definition at line 76 of file asio_socket_https.hpp.

6.4.5.2 std::unique_ptr<boost_tls_socket> rapp::cloud::asio_socket_https::tls_socket_ [private]

tls/ssl socket wrapper

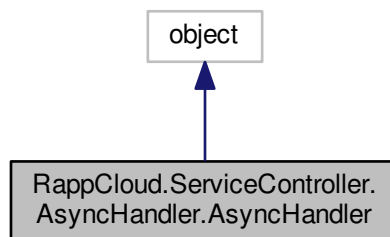
Definition at line 74 of file asio_socket_https.hpp.

The documentation for this class was generated from the following files:

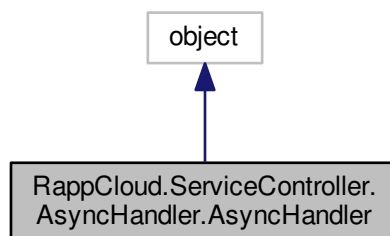
- [/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.hpp](#)
- [/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.cpp](#)

6.5 RappCloud.ServiceController.AsyncHandler.AsyncHandler Class Reference

Inheritance diagram for RappCloud.ServiceController.AsyncHandler.AsyncHandler:



Collaboration diagram for RappCloud.ServiceController.AsyncHandler.AsyncHandler:



Public Member Functions

- [def __init__](#)
Constructor.
- [def wait](#)

Private Attributes

- [__future](#)

6.5.1 Detailed Description

Synchronous service controller class implementation.

Definition at line 36 of file AsyncHandler.py.

6.5.2 Constructor & Destructor Documentation

6.5.2.1 `def RappCloud.ServiceController.AsyncHandler.AsyncHandler.__init__(self, future)`

Constructor.

Definition at line 39 of file AsyncHandler.py.

6.5.3 Member Function Documentation

6.5.3.1 `def RappCloud.ServiceController.AsyncHandler.AsyncHandler.wait(self, timeout=None)`

Definition at line 51 of file AsyncHandler.py.

6.5.4 Member Data Documentation

6.5.4.1 `RappCloud.ServiceController.AsyncHandler.AsyncHandler.__future` [private]

Definition at line 43 of file AsyncHandler.py.

The documentation for this class was generated from the following file:

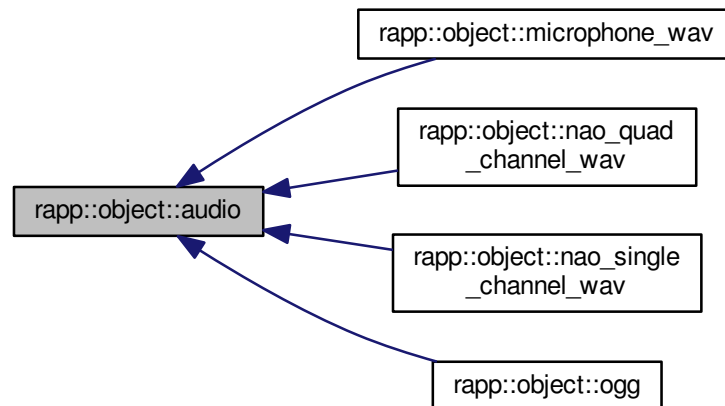
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/AsyncHandler.py`

6.6 rapp::object::audio Class Reference

class which wraps around raw bytes of an audiofile

```
#include <audio.hpp>
```

Inheritance diagram for `rapp::object::audio`:



Public Member Functions

- [audio](#) (const std::string filepath)
Construct from a file on disk.
- [audio](#) (std::ifstream &bytestream)
Construct using an open file stream.
- [audio](#) (std::vector< [rapp::types::byte](#) > bytearray)
construct using an existing byte-array
- [audio](#) (const [audio](#) &)=default
Copy constructor.
- virtual std::string [audio_source](#) () const
- std::vector< [rapp::types::byte](#) > [bytearray](#) () const
Get audio as array of bytes.
- virtual std::string [extension](#) () const
- [audio](#) & [operator=](#) (const [audio](#) &)=default
Assignment operator.
- bool [operator==](#) (const [audio](#) &rhs) const
Are audios same ?
- bool [save](#) (const std::string filepath)
Save audio to filepath.

Private Member Functions

- [audio](#) ()=delete
- void [read_bytes](#) (std::ifstream &bytestream)

Private Attributes

- std::vector< [rapp::types::byte](#) > [bytearray_](#)

6.6.1 Detailed Description

class which wraps around raw bytes of an audiofile

Version

2

Date

January-2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file audio.hpp.

6.6.2 Constructor & Destructor Documentation

6.6.2.1 rapp::object::audio::audio (const std::string *filepath*)

Construct from a file on disk.

Definition at line 17 of file audio.hpp.

6.6.2.2 rapp::object::audio::audio (std::ifstream & *bytestream*)

Construct using an open file stream.

Parameters

<i>bytestream</i>	will be consumed by the object
-------------------	---------------------------------------

Definition at line 33 of file audio.hpp.

6.6.2.3 rapp::object::audio::audio (std::vector< rapp::types::byte > *bytearray*)

construct using an existing byte-array

Parameters

<i>bytearray</i>	should contain the audio data
------------------	-------------------------------

Definition at line 40 of file audio.hpp.

6.6.2.4 rapp::object::audio::audio (const audio &) [default]

Copy constructor.

6.6.2.5 rapp::object::audio::audio () [private],[delete]

6.6.3 Member Function Documentation

6.6.3.1 virtual std::string rapp::object::audio::audio_source () const [virtual]

Reimplemented in [rapp::object::microphone_wav](#), [rapp::object::nao_quad_channel_wav](#), [rapp::object::nao_single_channel_wav](#), and [rapp::object::ogg](#).

Definition at line 78 of file audio.hpp.

6.6.3.2 `std::vector<rapp::types::byte> rapp::object::audio::bytearray () const`

Get audio as array of bytes.

Definition at line 48 of file audio.hpp.

6.6.3.3 `virtual std::string rapp::object::audio::extension () const` `[virtual]`

Reimplemented in [rapp::object::microphone_wav](#), [rapp::object::nao_quad_channel_wav](#), [rapp::object::nao_single_channel_wav](#), and [rapp::object::ogg](#).

Definition at line 81 of file audio.hpp.

6.6.3.4 `audio& rapp::object::audio::operator= (const audio &)` `[default]`

Assignment operator.

6.6.3.5 `bool rapp::object::audio::operator== (const audio & rhs) const`

Are audios same ?

Definition at line 54 of file audio.hpp.

6.6.3.6 `void rapp::object::audio::read_bytes (std::ifstream & bytestream)` `[private]`

Definition at line 90 of file audio.hpp.

6.6.3.7 `bool rapp::object::audio::save (const std::string filepath)`

Save audio to filepath.

Definition at line 64 of file audio.hpp.

6.6.4 Member Data Documentation

6.6.4.1 `std::vector<rapp::types::byte> rapp::object::audio::bytearray_` `[private]`

Definition at line 100 of file audio.hpp.

The documentation for this class was generated from the following file:

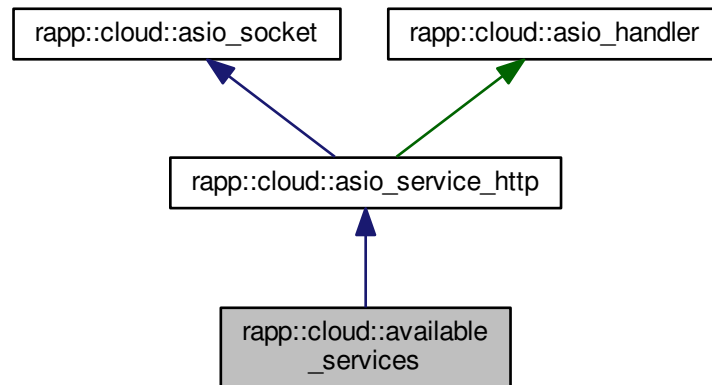
- [/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp](#)

6.7 `rapp::cloud::available_services` Class Reference

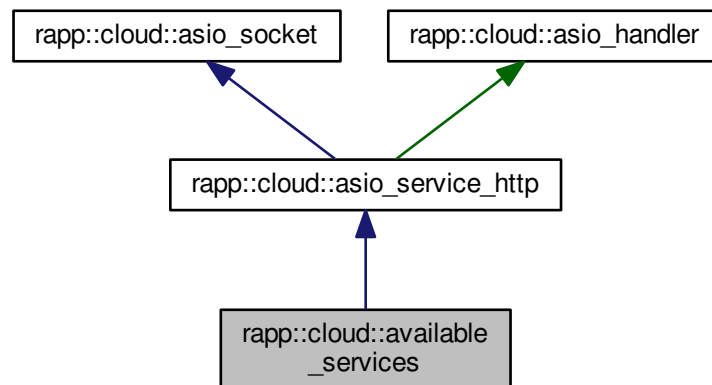
requests available services from platform

```
#include <available_services.hpp>
```

Inheritance diagram for rapp::cloud::available_services:



Collaboration diagram for rapp::cloud::available_services:



Public Member Functions

- [available_services](#) (const std::string token, std::function< void(std::vector< std::string >)> callback)
construct without any special parameters

Private Member Functions

- void [handle_reply](#) (std::string json)
handle platform's JSON reply

Private Attributes

- `std::function< void(std::vector< std::string > services)>` [delegate_](#)

Additional Inherited Members

6.7.1 Detailed Description

requests available services from platform

Version

0.6.0

Date

May 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file `available_services.hpp`.

6.7.2 Constructor & Destructor Documentation

6.7.2.1 `rapp::cloud::available_services::available_services (const std::string token, std::function< void(std::vector< std::string >)> callback)`

construct without any special parameters

Parameters

<i>callback</i>	will receive a vector of services strings
-----------------	---

Definition at line 20 of file `available_services.hpp`.

6.7.3 Member Function Documentation

6.7.3.1 `void rapp::cloud::available_services::handle_reply (std::string json)` `[private]`

handle platform's JSON reply

Definition at line 33 of file `available_services.hpp`.

6.7.4 Member Data Documentation

6.7.4.1 `std::function<void(std::vector<std::string> services)>` `rapp::cloud::available_services::delegate_` `[private]`

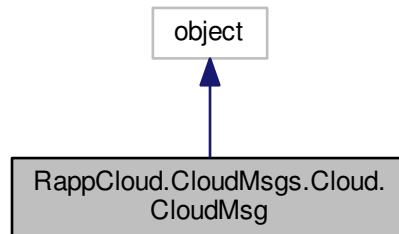
Definition at line 58 of file `available_services.hpp`.

The documentation for this class was generated from the following file:

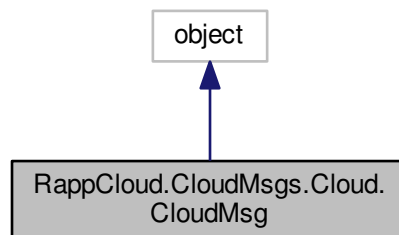
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available_services/available_services.hpp`

6.8 RappCloud.CloudMsgs.Cloud.CloudMsg Class Reference

Inheritance diagram for RappCloud.CloudMsgs.Cloud.CloudMsg:



Collaboration diagram for RappCloud.CloudMsgs.Cloud.CloudMsg:



Public Member Functions

- def [__init__](#)
- def [svcname](#)

Private Attributes

- [_svcname](#)

6.8.1 Detailed Description

Cloud Message base class implementation. Inherit to implement service specific cloud message objects

Definition at line 2 of file Cloud.py.

6.8.2 Constructor & Destructor Documentation

6.8.2.1 `def RappCloud.CloudMsgs.Cloud.CloudMsg.__init__(self, svcname = "", kwargs)`

Definition at line 7 of file Cloud.py.

6.8.3 Member Function Documentation

6.8.3.1 `def RappCloud.CloudMsgs.Cloud.CloudMsg.svcname(self)`

Definition at line 18 of file Cloud.py.

6.8.4 Member Data Documentation

6.8.4.1 `RappCloud.CloudMsgs.Cloud.CloudMsg._svcname` [private]

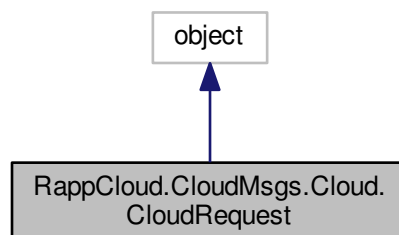
Definition at line 8 of file Cloud.py.

The documentation for this class was generated from the following file:

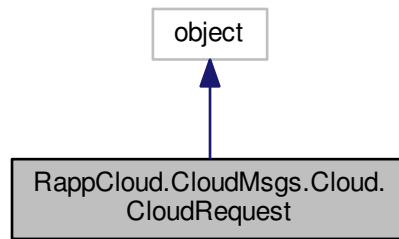
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py`

6.9 RappCloud.CloudMsgs.Cloud.CloudRequest Class Reference

Inheritance diagram for RappCloud.CloudMsgs.Cloud.CloudRequest:



Collaboration diagram for RappCloud.CloudMsgs.Cloud.CloudRequest:



Public Member Functions

- `def __init__`
- `def __eq__`
Equality method.
- `def make_files`
Abstract methor.
- `def make_payload`
Abstract method.
- `def serialize`
Serialize [CloudRequest](#) object to dictionary.
- `def set`

6.9.1 Detailed Description

Cloud request base class implementation. Inheric to implement Cloud Message specific Request objects.

Definition at line 24 of file Cloud.py.

6.9.2 Constructor & Destructor Documentation

6.9.2.1 `def RappCloud.CloudMsgs.Cloud.CloudRequest.__init__(self, kwargs)`

Definition at line 28 of file Cloud.py.

6.9.3 Member Function Documentation

6.9.3.1 `def RappCloud.CloudMsgs.Cloud.CloudRequest.__eq__(self, other)`

Equality method.

Definition at line 37 of file Cloud.py.

6.9.3.2 `def RappCloud.CloudMsgs.Cloud.CloudRequest.make_files (self)`

Abstract methor.

Return Array of File [Objects](#).

Returns

Array - Array of File [Objects](#).

Definition at line 55 of file Cloud.py.

6.9.3.3 `def RappCloud.CloudMsgs.Cloud.CloudRequest.make_payload (self)`

Abstract method.

Return Payload Object.

Returns

Payload - The Payload object

Definition at line 47 of file Cloud.py.

6.9.3.4 `def RappCloud.CloudMsgs.Cloud.CloudRequest.serialize (self)`

Serialize [CloudRequest](#) object to dictionary.

Returns

Dictionary - Serialized [CloudRequest](#) object.

Definition at line 63 of file Cloud.py.

6.9.3.5 `def RappCloud.CloudMsgs.Cloud.CloudRequest.set (self, key, val)`

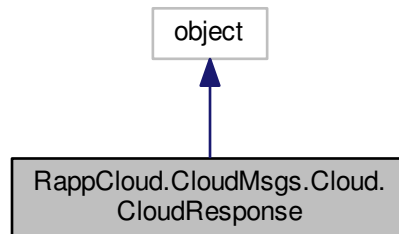
Definition at line 42 of file Cloud.py.

The documentation for this class was generated from the following file:

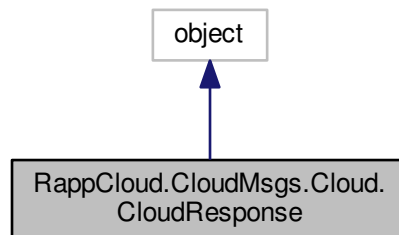
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py](#)

6.10 RappCloud.CloudMsgs.Cloud.CloudResponse Class Reference

Inheritance diagram for RappCloud.CloudMsgs.Cloud.CloudResponse:



Collaboration diagram for RappCloud.CloudMsgs.Cloud.CloudResponse:



Public Member Functions

- def [__init__](#)
- def [__eq__](#)
Equality method.
- def [serialize](#)
Serialize [CloudResponse](#) object to dictionary.
- def [set](#)

6.10.1 Detailed Description

Cloud Response base class implementation. Inherit to implement Cloud Object specific Response objects.

Definition at line 73 of file Cloud.py.

6.10.2 Constructor & Destructor Documentation

6.10.2.1 `def RappCloud.CloudMsgs.Cloud.CloudResponse.__init__(self, kwargs)`

Definition at line 77 of file Cloud.py.

6.10.3 Member Function Documentation

6.10.3.1 `def RappCloud.CloudMsgs.Cloud.CloudResponse.__eq__(self, other)`

Equality method.

Definition at line 85 of file Cloud.py.

6.10.3.2 `def RappCloud.CloudMsgs.Cloud.CloudResponse.serialize(self)`

Serialize [CloudResponse](#) object to dictionary.

Returns

Dictionary - Serialized [CloudResponse](#) object.

Definition at line 95 of file Cloud.py.

6.10.3.3 `def RappCloud.CloudMsgs.Cloud.CloudResponse.set(self, key, val)`

Definition at line 90 of file Cloud.py.

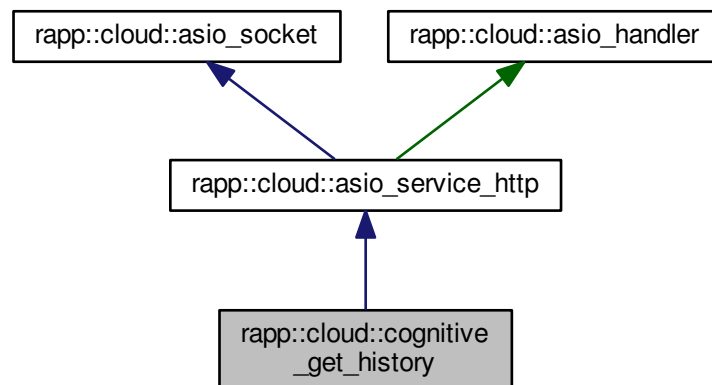
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py`

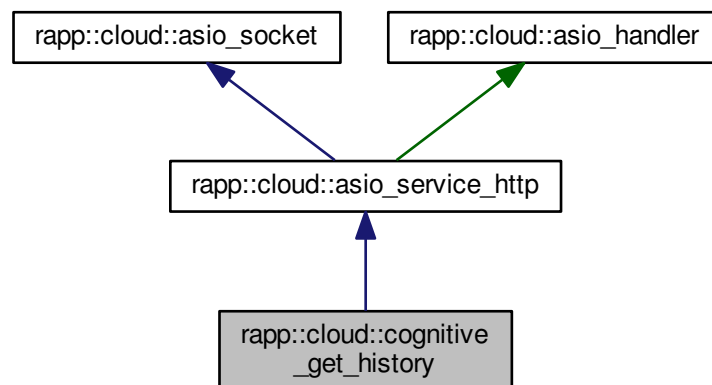
6.11 `rapp::cloud::cognitive_get_history` Class Reference

```
#include <cognitive_exercises.hpp>
```

Inheritance diagram for rapp::cloud::cognitive_get_history:



Collaboration diagram for rapp::cloud::cognitive_get_history:



Public Member Functions

- `cognitive_get_history` (unsigned int from_time, unsigned int to_time, const std::string test_type, const std::string token, std::function< void(std::string)> callback)
get history of cognitive game

Private Member Functions

- void `handle_reply` (std::string json)
forward (don't parse) platform reply

Private Attributes

- `std::function< void(std::string)>` [delegate_](#)

Additional Inherited Members

6.11.1 Detailed Description

Version

0.6.0

Date

May 2016

Author

Alex Giokas a.gkiokas@ortelio.co.uk

Definition at line 184 of file `cognitive_exercises.hpp`.

6.11.2 Constructor & Destructor Documentation

- 6.11.2.1 `rapp::cloud::cognitive_get_history::cognitive_get_history (unsigned int from_time, unsigned int to_time, const std::string test_type, const std::string token, std::function< void(std::string)> callback)`

get history of cognitive game

Parameters

<i>from_time</i>	is a unix timestamp
<i>to_time</i>	is a unix timestamp
<i>test_type</i>	is the cognitive test
<i>token</i>	is the rapp authentication token
<i>callback</i>	will receive a JSON reply

Definition at line 195 of file `cognitive_exercises.hpp`.

6.11.3 Member Function Documentation

- 6.11.3.1 `void rapp::cloud::cognitive_get_history::handle_reply (std::string json)` `[private]`

forward (don't parse) platform reply

Definition at line 220 of file `cognitive_exercises.hpp`.

6.11.4 Member Data Documentation

- 6.11.4.1 `std::function<void(std::string)>` `rapp::cloud::cognitive_get_history::delegate_` `[private]`

Definition at line 226 of file `cognitive_exercises.hpp`.

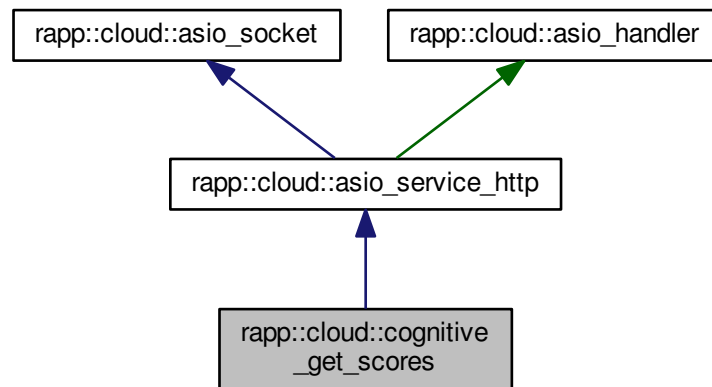
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp`

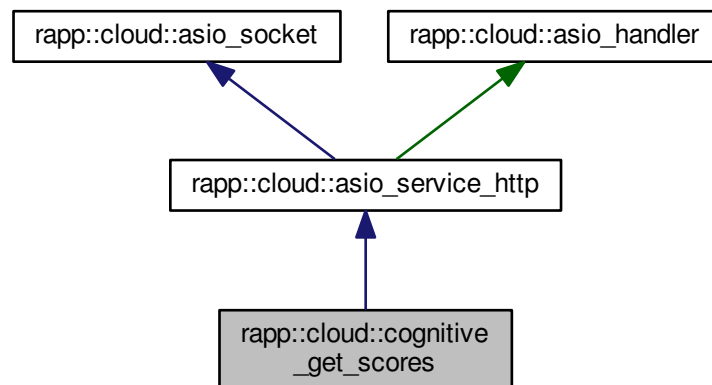
6.12 rapp::cloud::cognitive_get_scores Class Reference

```
#include <cognitive_exercises.hpp>
```

Inheritance diagram for rapp::cloud::cognitive_get_scores:



Collaboration diagram for rapp::cloud::cognitive_get_scores:



Public Member Functions

- `cognitive_get_scores` (unsigned int up_to_time, const std::string test_type, const std::string token, std::function< void(std::vector< unsigned int >, std::vector< float >)> callback)
get cognitive test scores

Private Member Functions

- void [handle_reply](#) (std::string json)
handle platform's JSON reply

Private Attributes

- std::function< void(std::vector< unsigned int >, std::vector< float >)> [delegate_](#)

Additional Inherited Members

6.12.1 Detailed Description

Version

0.6.0

Date

May 2016

Author

Alex Giokas a.gkiokas@ortelio.co.uk

Definition at line 235 of file `cognitive_exercises.hpp`.

6.12.2 Constructor & Destructor Documentation

- 6.12.2.1 `rapp::cloud::cognitive_get_scores::cognitive_get_scores (unsigned int up_to_time, const std::string test_type, const std::string token, std::function< void(std::vector< unsigned int >, std::vector< float >)> callback)`

get cognitive test scores

Parameters

<i>up_to_time</i>	defines scores queried up to that unix timestamp
<i>test_type</i>	the test type
<i>token</i>	the rapp authentication token
<i>callback</i>	will receive an array of test classes and respective scores

Definition at line 245 of file `cognitive_exercises.hpp`.

6.12.3 Member Function Documentation

- 6.12.3.1 `void rapp::cloud::cognitive_get_scores::handle_reply (std::string json)` `[private]`

handle platform's JSON reply

Definition at line 269 of file `cognitive_exercises.hpp`.

6.12.4 Member Data Documentation

6.12.4.1 `std::function<void(std::vector<unsigned int>, std::vector<float>)>` rapp::cloud::cognitive_get_scores::delegate_
[private]

Definition at line 301 of file cognitive_exercises.hpp.

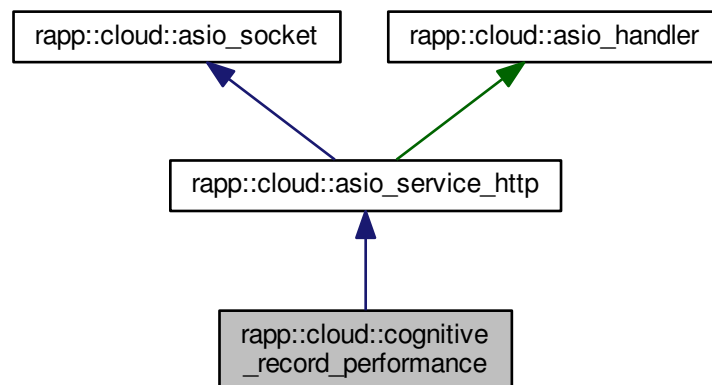
The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp

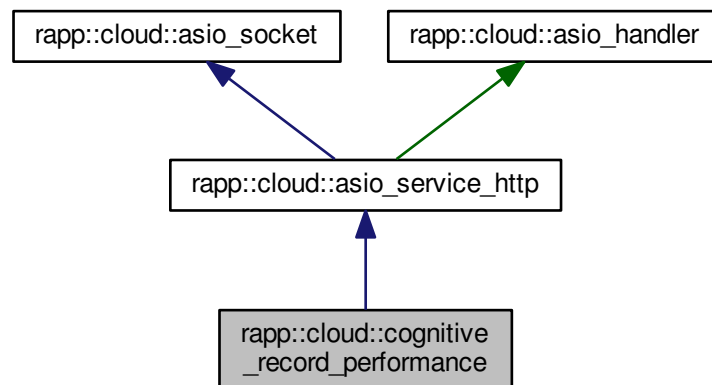
6.13 rapp::cloud::cognitive_record_performance Class Reference

```
#include <cognitive_exercises.hpp>
```

Inheritance diagram for rapp::cloud::cognitive_record_performance:



Collaboration diagram for `rapp::cloud::cognitive_record_performance`:



Public Member Functions

- [cognitive_record_performance](#) (const std::string test_instance, const float score, const std::string token, std::function< void(std::string)> callback)
record performance for a cognitive test

Private Member Functions

- void [handle_reply](#) (std::string json)
handle platform's JSON reply

Private Attributes

- std::function< void(std::string)> [delegate_](#)

Additional Inherited Members

6.13.1 Detailed Description

Version

0.6.0

Date

May-2016

Author

Alex Giokas a.gkiokas@ortelio.co.uk

Definition at line 115 of file `cognitive_exercises.hpp`.

6.13.2 Constructor & Destructor Documentation

6.13.2.1 `rapp::cloud::cognitive_record_performance::cognitive_record_performance (const std::string test_instance, const float score, const std::string token, std::function< void(std::string)> callback)`

record performance for a cognitive test

Parameters

<i>test_instance</i>	sets the actual test
<i>score</i>	is the recorded score
<i>token</i>	is the rapp authentication token
<i>callback</i>	receives the platform's response

Definition at line 125 of file `cognitive_exercises.hpp`.

6.13.3 Member Function Documentation

6.13.3.1 `void rapp::cloud::cognitive_record_performance::handle_reply (std::string json)` `[private]`

handle platform's JSON reply

Definition at line 148 of file `cognitive_exercises.hpp`.

6.13.4 Member Data Documentation

6.13.4.1 `std::function<void(std::string)> rapp::cloud::cognitive_record_performance::delegate_` `[private]`

Definition at line 175 of file `cognitive_exercises.hpp`.

The documentation for this class was generated from the following file:

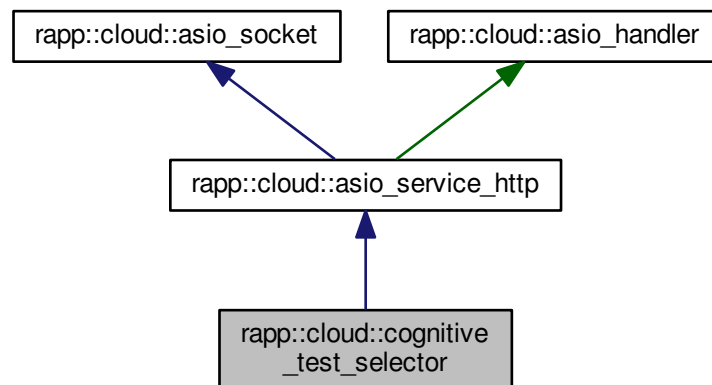
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp`

6.14 rapp::cloud::cognitive_test_selector Class Reference

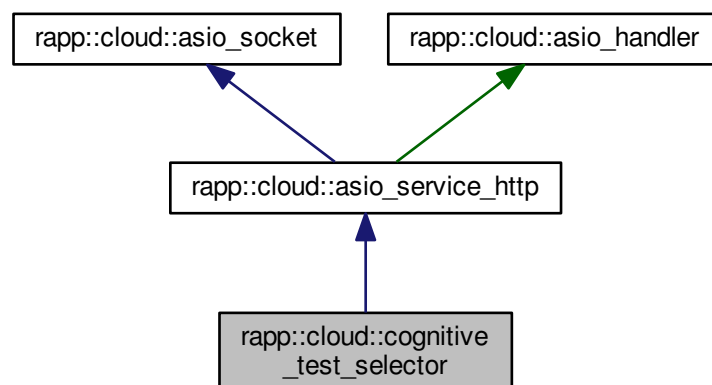
chose a cognitive game to play

```
#include <cognitive_exercises.hpp>
```

Inheritance diagram for `rapp::cloud::cognitive_test_selector`:



Collaboration diagram for `rapp::cloud::cognitive_test_selector`:



Public Member Functions

- `cognitive_test_selector` (const std::string user, const std::string test_type, const std::string token, std::function< void(std::vector< std::string >, std::vector< std::string >, std::vector< std::string >, std::string, std::string, std::string)> callback)
handler obtains a cognitive test from cloud.rapp

Private Member Functions

- void `handle_reply` (std::string json)
handle platform's JSON reply

Private Attributes

- `std::function< void(std::vector< std::string >, std::vector< std::string >, std::vector< std::string >, std::string, std::string, std::string)> delegate_`

Additional Inherited Members

6.14.1 Detailed Description

chose a cognitive game to play

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file `cognitive_exercises.hpp`.

6.14.2 Constructor & Destructor Documentation

6.14.2.1 `rapp::cloud::cognitive_test_selector::cognitive_test_selector (const std::string user, const std::string test_type, const std::string token, std::function< void(std::vector< std::string >, std::vector< std::string >, std::vector< std::string >, std::string, std::string, std::string)> callback)`

handler obtains a cognitive test from `cloud.rapp`

Parameters

<i>user</i>	set the user
<i>test_type</i>	set the test type
<i>callback</i>	receives arrays of strings and strings

Definition at line 22 of file `cognitive_exercises.hpp`.

6.14.3 Member Function Documentation

6.14.3.1 `void rapp::cloud::cognitive_test_selector::handle_reply (std::string json)` `[private]`

handle platform's JSON reply

Definition at line 49 of file `cognitive_exercises.hpp`.

6.14.4 Member Data Documentation

6.14.4.1 `std::function<void(std::vector<std::string>, std::vector<std::string>, std::vector<std::string>, std::string, std::string, std::string)> rapp::cloud::cognitive_test_selector::delegate_ [private]`

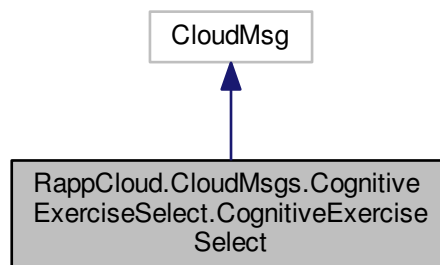
Definition at line 106 of file `cognitive_exercises.hpp`.

The documentation for this class was generated from the following file:

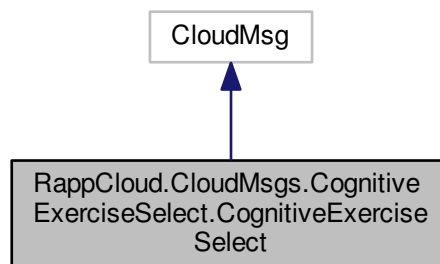
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp`

6.15 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect`:



Collaboration diagram for `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect`:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `req`
- `resp`

6.15.1 Detailed Description

Cognitive Exercise Select Cloud Message object

For more information on available exercises have a look at:
https://github.com/rapp-project/rapp-platform/tree/master/rapp_cognitive_exercise

Definition at line 11 of file CognitiveExerciseSelect.py.

6.15.2 Constructor & Destructor Documentation

6.15.2.1 `def RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	<div>- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none">• <code>Request.test_type</code>• <code>Request.test_subtype</code>• <code>Request.test_diff</code>• <code>Request.test_index</code></div>
-----------------------	--

Definition at line 104 of file CognitiveExerciseSelect.py.

6.15.3 Member Data Documentation

6.15.3.1 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.req`

Definition at line 116 of file CognitiveExerciseSelect.py.

6.15.3.2 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.resp`

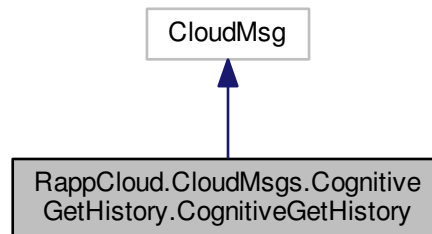
Definition at line 118 of file CognitiveExerciseSelect.py.

The documentation for this class was generated from the following file:

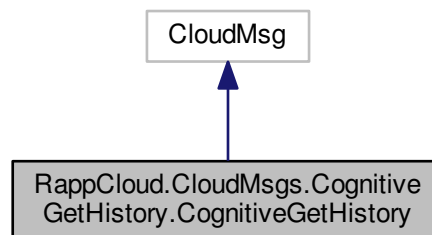
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py`

6.16 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.16.1 Detailed Description

Cognitive Get History Cloud Message object

Definition at line 11 of file CognitiveGetHistory.py.

6.16.2 Constructor & Destructor Documentation

6.16.2.1 `def RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	<ul style="list-style-type: none">- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none">• Request.test_type• Request.time_from• Request.time_to
------------------------------	---

Definition at line 78 of file CognitiveGetHistory.py.

6.16.3 Member Data Documentation

6.16.3.1 `RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.req`

Definition at line 89 of file CognitiveGetHistory.py.

6.16.3.2 `RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.resp`

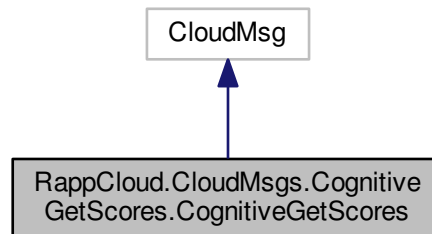
Definition at line 91 of file CognitiveGetHistory.py.

The documentation for this class was generated from the following file:

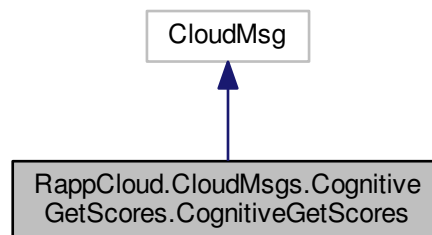
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py`

6.17 RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.17.1 Detailed Description

Cognitive Get Scores Cloud Message object

Definition at line 11 of file CognitiveGetScores.py.

6.17.2 Constructor & Destructor Documentation

6.17.2.1 `def RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword argument. Apply values to the request attributes. <ul style="list-style-type: none">• Request.test_type• Request.time_to
------------------------------	---

Definition at line 78 of file CognitiveGetScores.py.

6.17.3 Member Data Documentation

6.17.3.1 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.req`

Definition at line 88 of file CognitiveGetScores.py.

6.17.3.2 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.resp`

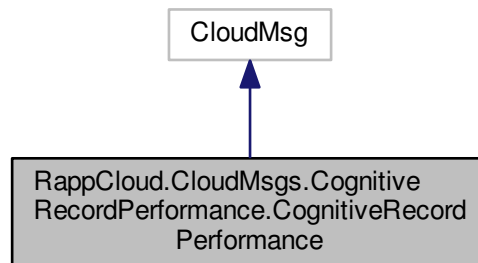
Definition at line 90 of file CognitiveGetScores.py.

The documentation for this class was generated from the following file:

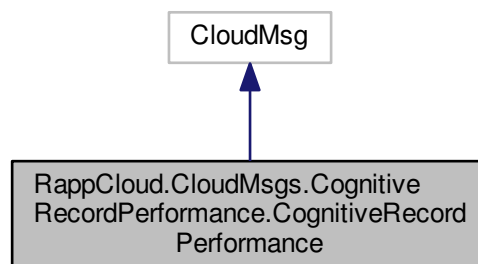
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetScores.py`

6.18 RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.18.1 Detailed Description

Cognitive Record Performance Cloud Message object

Definition at line 11 of file CognitiveRecordPerformance.py.

6.18.2 Constructor & Destructor Documentation

6.18.2.1 `def RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.test_instance • Request.score
------------------------------	---

Definition at line 69 of file CognitiveRecordPerformance.py.

6.18.3 Member Data Documentation

6.18.3.1 `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.req`

Definition at line 79 of file CognitiveRecordPerformance.py.

6.18.3.2 `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.resp`

Definition at line 81 of file CognitiveRecordPerformance.py.

The documentation for this class was generated from the following file:

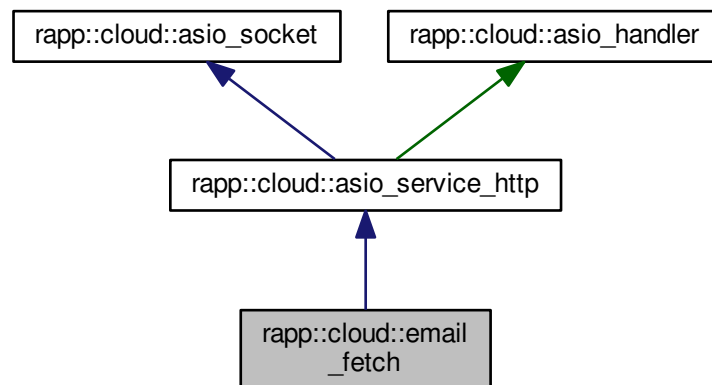
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py

6.19 rapp::cloud::email_fetch Class Reference

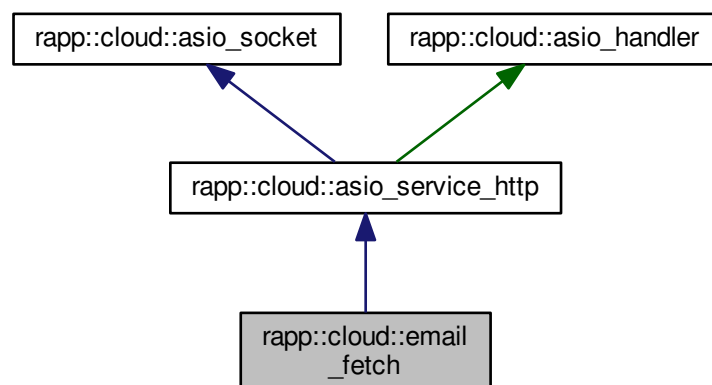
fetch email(s)

```
#include <email.hpp>
```

Inheritance diagram for `rapp::cloud::email_fetch`:



Collaboration diagram for `rapp::cloud::email_fetch`:



Public Member Functions

- `email_fetch` (const std::string email, const std::string pwd, const std::string server, const std::string port, const std::string email_status, const unsigned int from_date, const unsigned int to_date, const unsigned int num_emails, const std::string token, std::function< void(std::string)> callback)
construct in order to acquire email(s)

Private Member Functions

- void `handle_reply` (std::string json)
handle platform's JSON reply

Private Attributes

- `std::function< void(std::string)>` [delegate_](#)

Additional Inherited Members

6.19.1 Detailed Description

fetch email(s)

Version

0.6.0

Date

May 2016

Definition at line 12 of file email.hpp.

6.19.2 Constructor & Destructor Documentation

6.19.2.1 `rapp::cloud::email_fetch::email_fetch (const std::string email, const std::string pwd, const std::string server, const std::string port, const std::string email_status, const unsigned int from_date, const unsigned int to_date, const unsigned int num_emails, const std::string token, std::function< void(std::string)> callback)`

construct in order to acquire email(s)

Parameters

<i>email</i>	user's email address
<i>pwd</i>	user's plain-text password
<i>server</i>	email imap address
<i>port</i>	email imap port
<i>email_status</i>	which mail is requested (ALL, UNSEEN)
<i>from_date</i>	fetch emails since date (unix timestamp)
<i>to_date</i>	fetch emails to date (unix timestamp)
<i>num_emails</i>	number of emails requested
<i>token</i>	rapp platform auth token
<i>callback</i>	will receive a JSON string with acquired email(s)

Definition at line 28 of file email.hpp.

6.19.3 Member Function Documentation

6.19.3.1 `void rapp::cloud::email_fetch::handle_reply (std::string json)` `[private]`

handle platform's JSON reply

Definition at line 63 of file email.hpp.

6.19.4 Member Data Documentation

6.19.4.1 `std::function<void(std::string)>` `rapp::cloud::email_fetch::delegate_` `[private]`

Definition at line 70 of file email.hpp.

The documentation for this class was generated from the following file:

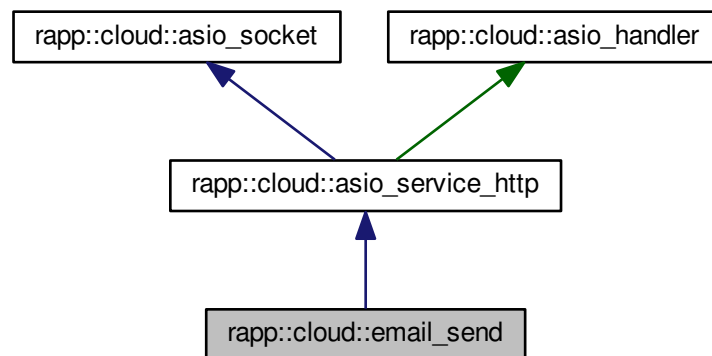
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/email.hpp

6.20 rapp::cloud::email_send Class Reference

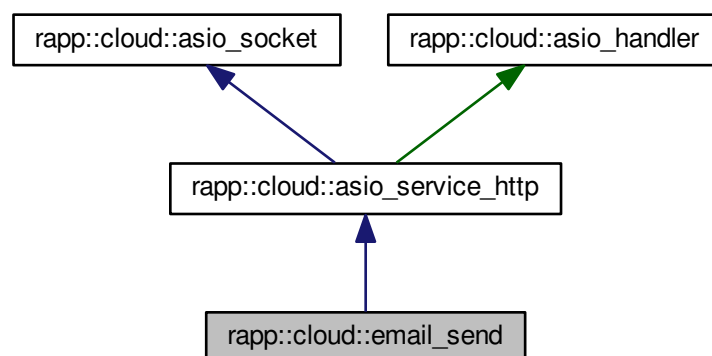
send an email

```
#include <email.hpp>
```

Inheritance diagram for rapp::cloud::email_send:



Collaboration diagram for rapp::cloud::email_send:



Public Member Functions

- [`email_send`](#) (const std::string email, const std::string pwd, const std::string server, const std::string [port](#), const std::vector< std::string > recipients, const std::string body, const std::string subject, const std::vector< [rapp-](#)

`::types::byte` > data, const std::string token, std::function< void(std::string)> callback)

construct in order to send email

Private Member Functions

- void `handle_reply` (std::string json)

handle platform's JSON reply

Private Attributes

- std::function< void(std::string)> `delegate_`

Additional Inherited Members

6.20.1 Detailed Description

send an email

Version

0.6.0

Date

May 2016

Definition at line 79 of file email.hpp.

6.20.2 Constructor & Destructor Documentation

6.20.2.1 `rapp::cloud::email_send::email_send (const std::string email, const std::string pwd, const std::string server, const std::string port, const std::vector< std::string > recipients, const std::string body, const std::string subject, const std::vector< rapp::types::byte > data, const std::string token, std::function< void(std::string)> callback)`

construct in order to send email

Parameters

<i>email</i>	user's email address
<i>pwd</i>	user's plain-text password
<i>server</i>	email imap address
<i>port</i>	email imap port
<i>recipients</i>	vector of email addresses
<i>body</i>	email body
<i>subject</i>	email subject
<i>data</i>	data attached to the email
<i>token</i>	rapp platform auth token
<i>callback</i>	may receive a JSON reply of error(s)

Definition at line 95 of file email.hpp.

6.20.3 Member Function Documentation

6.20.3.1 `void rapp::cloud::email_send::handle_reply (std::string json)` [private]

handle platform's JSON reply

Definition at line 145 of file email.hpp.

6.20.4 Member Data Documentation

6.20.4.1 `std::function<void(std::string)> rapp::cloud::email_send::delegate_` [private]

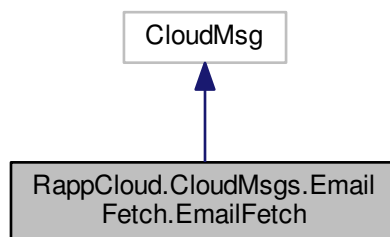
Definition at line 152 of file email.hpp.

The documentation for this class was generated from the following file:

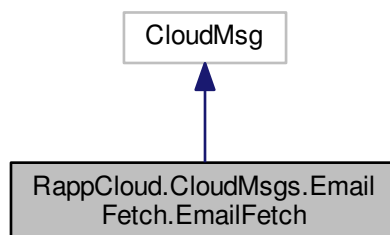
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/email.hpp`

6.21 RappCloud.CloudMsgs.EmailFetch.EmailFetch Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch:



Collaboration diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.21.1 Detailed Description

Email Fetch Cloud Message object

Definition at line 11 of file EmailFetch.py.

6.21.2 Constructor & Destructor Documentation

6.21.2.1 def RappCloud.CloudMsgs.EmailFetch.EmailFetch.__init__(self, kwargs)

Constructor.

Parameters

**kwargs	<p>- Keyword arguments. Apply values to the request attributes.</p> <ul style="list-style-type: none">• Request.email• Request.password• Request.server• Request.port• Request.date_from• Request.date_to• Request.email_status• Request.num_emails
-----------------	--

Definition at line 94 of file EmailFetch.py.

6.21.3 Member Data Documentation

6.21.3.1 RappCloud.CloudMsgs.EmailFetch.EmailFetch.req

Definition at line 110 of file EmailFetch.py.

6.21.3.2 RappCloud.CloudMsgs.EmailFetch.EmailFetch.resp

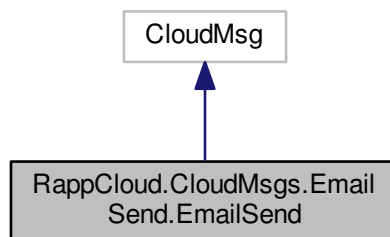
Definition at line 112 of file EmailFetch.py.

The documentation for this class was generated from the following file:

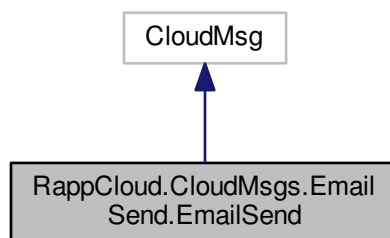
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[EmailFetch.py](#)

6.22 RappCloud.CloudMsgs.EmailSend.EmailSend Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailSend.EmailSend:



Collaboration diagram for RappCloud.CloudMsgs.EmailSend.EmailSend:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.22.1 Detailed Description

Email Send Cloud Message object

Definition at line 11 of file EmailSend.py.

6.22.2 Constructor & Destructor Documentation

6.22.2.1 `def RappCloud.CloudMsgs.EmailSend.EmailSend.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.email • Request.password • Request.server • Request.port • Request.recipients • Request.body • Request.subject • Request.attach_file
------------------------------	--

Definition at line 93 of file EmailSend.py.

6.22.3 Member Data Documentation

6.22.3.1 `RappCloud.CloudMsgs.EmailSend.EmailSend.req`

Definition at line 109 of file EmailSend.py.

6.22.3.2 `RappCloud.CloudMsgs.EmailSend.EmailSend.resp`

Definition at line 111 of file EmailSend.py.

The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailSend.py`

6.23 rapp::object::face Class Reference

describes a face coordinate (cartesian)

```
#include <face.hpp>
```

Public Member Functions

- [face](#) (float *top_left_x*, float *top_left_y*, float *bottom_right_x*, float *bottom_right_y*)
Construct using face coordinates (a rectangle)
- [face](#) ()=default
Allow empty constructor.
- [face](#) (const [face](#) &)=default
Copy constructor.
- bool [operator==](#) (const [face](#) &rhs) const
Equality operator.

Private Attributes

- float [bottom_right_x__](#)
- float [bottom_right_y__](#)
- float [top_left_x__](#)
- float [top_left_y__](#)

6.23.1 Detailed Description

describes a face coordinate (cartesian)

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file `face.hpp`.

6.23.2 Constructor & Destructor Documentation

6.23.2.1 `rapp::object::face::face (float top_left_x, float top_left_y, float bottom_right_x, float bottom_right_y)`

Construct using face coordinates (a rectangle)

Definition at line 17 of file `face.hpp`.

6.23.2.2 `rapp::object::face::face ()` [default]

Allow empty constructor.

6.23.2.3 `rapp::object::face::face (const face &)` [default]

Copy constructor.

6.23.3 Member Function Documentation

6.23.3.1 bool rapp::object::face::operator== (const face & rhs) const

Equality operator.

Definition at line 36 of file face.hpp.

6.23.4 Member Data Documentation

6.23.4.1 float rapp::object::face::bottom_right_x__ [private]

Definition at line 47 of file face.hpp.

6.23.4.2 float rapp::object::face::bottom_right_y__ [private]

Definition at line 48 of file face.hpp.

6.23.4.3 float rapp::object::face::top_left_x__ [private]

Definition at line 45 of file face.hpp.

6.23.4.4 float rapp::object::face::top_left_y__ [private]

Definition at line 46 of file face.hpp.

The documentation for this class was generated from the following file:

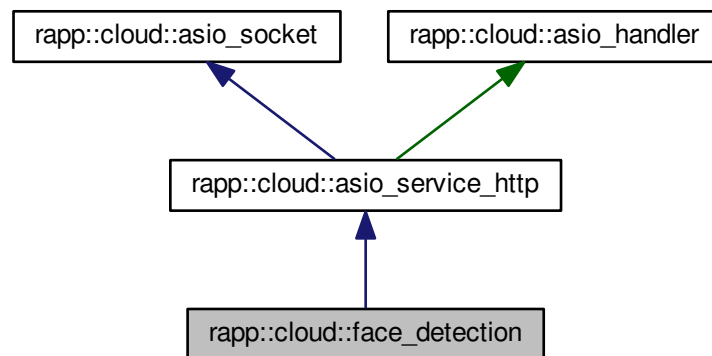
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/[face.hpp](#)

6.24 rapp::cloud::face_detection Class Reference

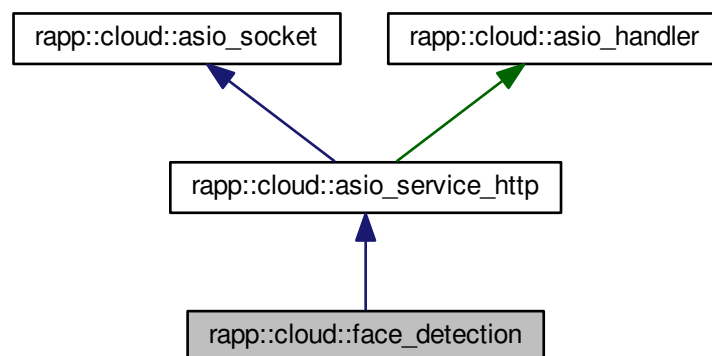
Asynchronous Service which will request the cloud to detect faces.

```
#include <face_detection.hpp>
```

Inheritance diagram for `rapp::cloud::face_detection`:



Collaboration diagram for `rapp::cloud::face_detection`:



Public Member Functions

- `face_detection` (`const std::shared_ptr< rapp::object::picture > image`, `bool fast`, `const std::string token`, `std::function< void(std::vector< rapp::object::face >)> callback`)

Constructor.

Private Member Functions

- `void handle_reply` (`std::string json`)

handle the rapp-platform JSON reply

Private Attributes

- `std::function< void(std::vector< rapp::object::face >)> delegate_`

The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.24.1 Detailed Description

Asynchronous Service which will request the cloud to detect faces.

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file `face_detection.hpp`.

6.24.2 Constructor & Destructor Documentation

6.24.2.1 `rapp::cloud::face_detection::face_detection (const std::shared_ptr< rapp::object::picture > image, bool fast, const std::string token, std::function< void(std::vector< rapp::object::face >)> callback)`

Constructor.

Parameters

<i>image</i>	is the input image
--------------	--------------------

See Also

[rapp::object::picture](#)

Parameters

<i>fast</i>	defines if this will be a fast call or not.
<i>callback</i>	is the function that will receive a vector of detected face(s)

Definition at line 22 of file `face_detection.hpp`.

6.24.3 Member Function Documentation

6.24.3.1 `void rapp::cloud::face_detection::handle_reply (std::string json) [private]`

handle the rapp-platform JSON reply

Definition at line 61 of file `face_detection.hpp`.

6.24.4 Member Data Documentation

6.24.4.1 `std::function<void(std::vector<rapp::object::face>)> rapp::cloud::face_detection::delegate_` [private]

The callback called upon completion of receiving the detected faces.

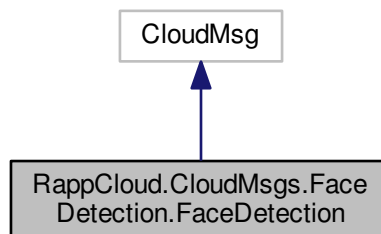
Definition at line 115 of file `face_detection.hpp`.

The documentation for this class was generated from the following file:

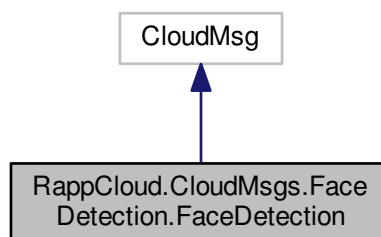
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/face_detection.hpp`

6.25 RappCloud.CloudMsgs.FaceDetection.FaceDetection Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.FaceDetection.FaceDetection`:



Collaboration diagram for `RappCloud.CloudMsgs.FaceDetection.FaceDetection`:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- [def __init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.25.1 Detailed Description

Face Detection CloudMsg object

Definition at line 11 of file FaceDetection.py.

6.25.2 Constructor & Destructor Documentation

6.25.2.1 `def RappCloud.CloudMsgs.FaceDetection.FaceDetection.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.fast • Request.imageFilepath
------------------------------	--

Definition at line 63 of file FaceDetection.py.

6.25.3 Member Data Documentation

6.25.3.1 `RappCloud.CloudMsgs.FaceDetection.FaceDetection.req`

Definition at line 73 of file FaceDetection.py.

6.25.3.2 `RappCloud.CloudMsgs.FaceDetection.FaceDetection.resp`

Definition at line 75 of file FaceDetection.py.

The documentation for this class was generated from the following file:

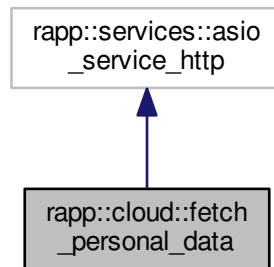
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py`

6.26 rapp::cloud::fetch_personal_data Class Reference

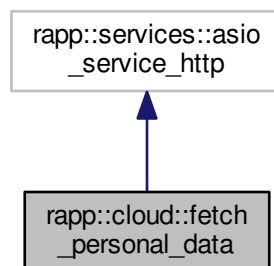
Get all personal data for a specific user.

```
#include <fetch_personal_data.hpp>
```

Inheritance diagram for `rapp::cloud::fetch_personal_data`:



Collaboration diagram for `rapp::cloud::fetch_personal_data`:



Public Member Functions

- `fetch_personal_data` (const std::string user, std::function< void(const std::string) > callback)
Constructor for obtained personal (JSON) data for a specific user.

Private Member Functions

- void `handle_reply` (std::string json)

Private Attributes

- std::function< void(const std::string)> `delegate__`
The callback called upon completion of receiving the detected faces.

6.26.1 Detailed Description

Get all personal data for a specific user.

Version

1

Date

18-April-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file fetch_personal_data.hpp.

6.26.2 Constructor & Destructor Documentation

6.26.2.1 `rapp::cloud::fetch_personal_data::fetch_personal_data (const std::string user, std::function< void(const std::string)> callback)`

Constructor for obtained personal (JSON) data for a specific user.

Parameters

<i>user</i>	is the string username as stored in the database
<i>callback</i>	is the functor that will received the obtained data

Note

this is asynchronous, not serial, execution time may vary

Definition at line 23 of file fetch_personal_data.hpp.

6.26.3 Member Function Documentation

6.26.3.1 `void rapp::cloud::fetch_personal_data::handle_reply (std::string json)` [private]

Get reply and send it directly to delegate

Note

we do not do any parsing at all here

Definition at line 47 of file fetch_personal_data.hpp.

6.26.4 Member Data Documentation

6.26.4.1 `std::function<void(const std::string)> rapp::cloud::fetch_personal_data::delegate__` [private]

The callback called upon completion of receiving the detected faces.

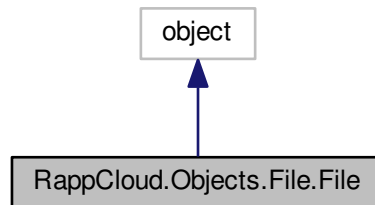
Definition at line 53 of file fetch_personal_data.hpp.

The documentation for this class was generated from the following file:

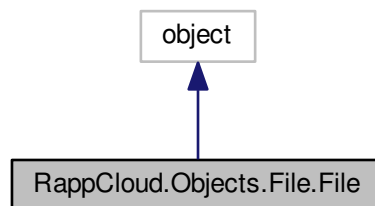
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch_personal_data/fetch_personal_data.hpp

6.27 RappCloud.Objects.File.File Class Reference

Inheritance diagram for RappCloud.Objects.File.File:



Collaboration diagram for RappCloud.Objects.File.File:



Public Member Functions

- def [__init__](#)
Constructor.
- def [__eq__](#)
Equality method.
- def [make_tuple](#)
- def [path](#)
file path getter
- def [path](#)
file path setter
- def [postfield](#)
Post field name getter.
- def [postfield](#)
Post field name setter.
- def [serialize](#)

Private Attributes

- [__boundarySize](#)
- [__path](#)
- [__postfield](#)

6.27.1 Detailed Description

File object class

Definition at line 32 of file File.py.

6.27.2 Constructor & Destructor Documentation

6.27.2.1 `def RappCloud.Objects.File.File.__init__(self, filepath = "", postfield = "", boundary_size = 30)`

Constructor.

Parameters

<i>path</i>	str -The filepath
<i>postField</i>	str - The post field name.
<i>boundary_size</i>	int - Size of random boundary string for the filename to add on the post field.

Definition at line 35 of file File.py.

6.27.3 Member Function Documentation

6.27.3.1 `def RappCloud.Objects.File.File.__eq__(self, other)`

Equality method.

Definition at line 57 of file File.py.

6.27.3.2 `def RappCloud.Objects.File.File.make_tuple(self)`

Definition at line 103 of file File.py.

6.27.3.3 `def RappCloud.Objects.File.File.path(self)`

file path getter

Returns

string - The file path.

Definition at line 63 of file File.py.

6.27.3.4 `def RappCloud.Objects.File.File.path(self, filepath)`

file path setter

Parameters

<i>path</i>	(String) - The file path.
-------------	---------------------------

Definition at line 72 of file File.py.

6.27.3.5 `def RappCloud.Objects.File.File.postfield (self)`

Post field name getter.

Returns

string - The post field name.

Definition at line 82 of file File.py.

6.27.3.6 `def RappCloud.Objects.File.File.postfield (self, fieldname)`

Post field name setter.

Parameters

<i>fieldname</i>	(String) - The post field name.
------------------	---------------------------------

Definition at line 91 of file File.py.

6.27.3.7 `def RappCloud.Objects.File.File.serialize (self)`

Definition at line 99 of file File.py.

6.27.4 Member Data Documentation

6.27.4.1 `RappCloud.Objects.File.File.__boundarySize` [private]

Definition at line 44 of file File.py.

6.27.4.2 `RappCloud.Objects.File.File.__path` [private]

Definition at line 46 of file File.py.

6.27.4.3 `RappCloud.Objects.File.File.__postfield` [private]

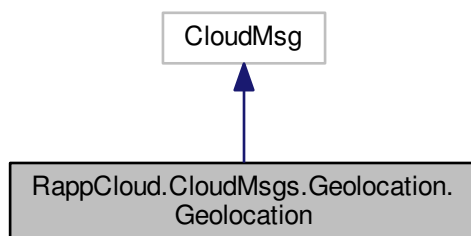
Definition at line 51 of file File.py.

The documentation for this class was generated from the following file:

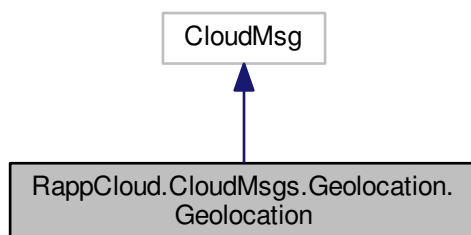
- /home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/File.py

6.28 RappCloud.CloudMsgs.Geolocation.Geolocation Class Reference

Inheritance diagram for RappCloud.CloudMsgs.Geolocation.Geolocation:



Collaboration diagram for RappCloud.CloudMsgs.Geolocation.Geolocation:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.28.1 Detailed Description

Geolocation Cloud Message object

Definition at line 11 of file Geolocation.py.

6.28.2 Constructor & Destructor Documentation

6.28.2.1 `def RappCloud.CloudMsgs.Geolocation.Geolocation.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.ipaddr • Request.engine
------------------------------	---

Definition at line 88 of file Geolocation.py.

6.28.3 Member Data Documentation

6.28.3.1 `RappCloud.CloudMsgs.Geolocation.Geolocation.req`

Definition at line 98 of file Geolocation.py.

6.28.3.2 `RappCloud.CloudMsgs.Geolocation.Geolocation.resp`

Definition at line 100 of file Geolocation.py.

The documentation for this class was generated from the following file:

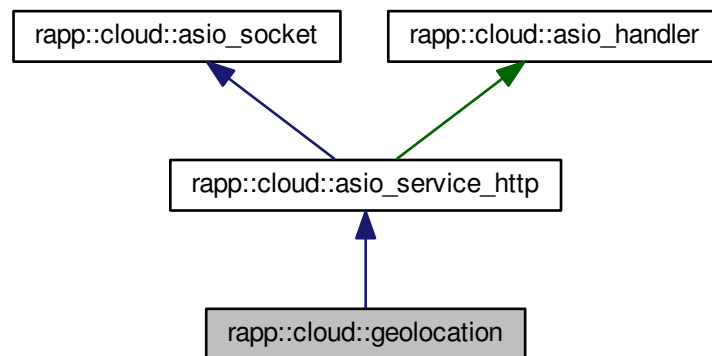
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Geolocation.py`

6.29 rapp::cloud::geolocation Class Reference

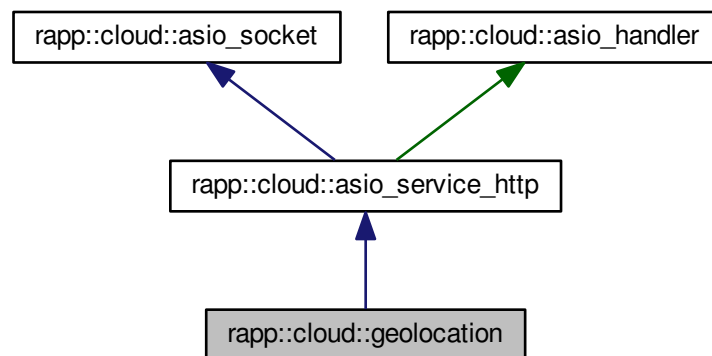
geolocation service

```
#include <geolocation.hpp>
```

Inheritance diagram for rapp::cloud::geolocation:



Collaboration diagram for rapp::cloud::geolocation:



Public Member Functions

- [geolocation](#) (const std::string ipaddr, const std::string engine, const std::string token, std::function< void(std::string)> callback)

Private Member Functions

- void [handle_reply](#) (std::string json)
handle platform's JSON reply

Private Attributes

- std::function< void(std::string)> [delegate_](#)

Additional Inherited Members

6.29.1 Detailed Description

geolocation service

Version

0.6.0

Date

May 2016

Definition at line 12 of file geolocation.hpp.

6.29.2 Constructor & Destructor Documentation

6.29.2.1 `rapp::cloud::geolocation::geolocation (const std::string ipaddr, const std::string engine, const std::string token, std::function< void(std::string)> callback)`

Parameters

<i>ipaddr</i>	the machine's ip
<i>engine</i>	the API (default ip-api)
<i>token</i>	the rapp auth token
<i>callback</i>	receives a JSON reply

Definition at line 21 of file geolocation.hpp.

6.29.3 Member Function Documentation

6.29.3.1 `void rapp::cloud::geolocation::handle_reply (std::string json)` `[private]`

handle platform's JSON reply

Definition at line 43 of file geolocation.hpp.

6.29.4 Member Data Documentation

6.29.4.1 `std::function<void(std::string)> rapp::cloud::geolocation::delegate_` `[private]`

Definition at line 49 of file geolocation.hpp.

The documentation for this class was generated from the following file:

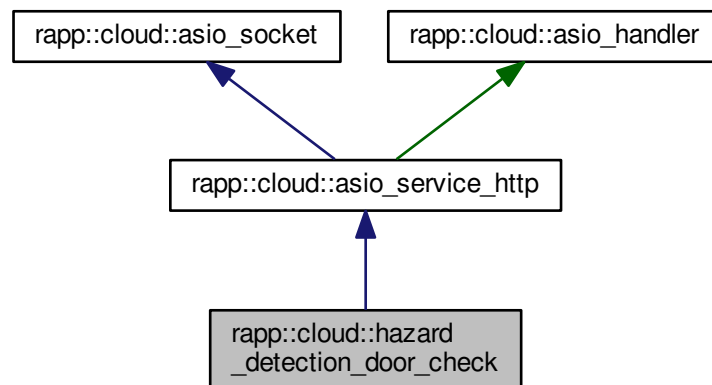
- [/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/geolocation/geolocation.hpp](#)

6.30 rapp::cloud::hazard_detection_door_check Class Reference

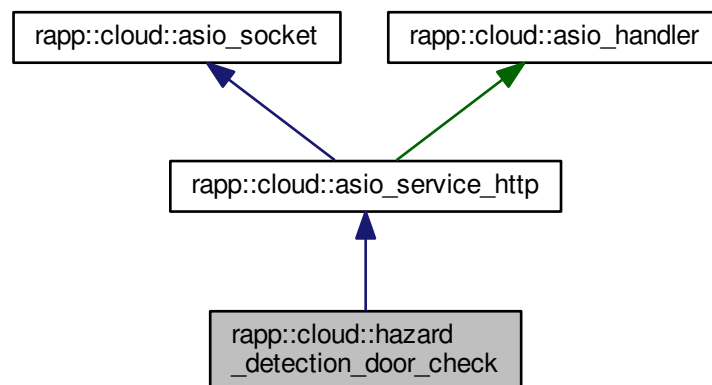
detect open doors

```
#include <hazard_detection.hpp>
```

Inheritance diagram for rapp::cloud::hazard_detection_door_check:



Collaboration diagram for rapp::cloud::hazard_detection_door_check:



Public Member Functions

- `hazard_detection_door_check` (const std::shared_ptr< rapp::object::picture > image, std::function< void(double door_angle)> callback, std::string token)
Constructor.

Private Member Functions

- void `handle_reply` (std::string json)
handle the rapp-platform JSON reply

Private Attributes

- `std::function< void(double)> delegate__`
The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.30.1 Detailed Description

detect open doors

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file `hazard_detection.hpp`.

6.30.2 Constructor & Destructor Documentation

6.30.2.1 `rapp::cloud::hazard_detection_door_check::hazard_detection_door_check (const std::shared_ptr< rapp::object::picture > image, std::function< void(double door_angle)> callback, std::string token)`

Constructor.

Parameters

<i>image</i>	is a picture object pointer
<i>callback</i>	is the function that will receive a vector of detected qr(s)
<i>image_format</i>	must be defined, e.g.: jpeg, png, gif, etc.

Definition at line 22 of file `hazard_detection.hpp`.

6.30.3 Member Function Documentation

6.30.3.1 `void rapp::cloud::hazard_detection_door_check::handle_reply (std::string json)` `[private]`

handle the rapp-platform JSON reply

Definition at line 56 of file `hazard_detection.hpp`.

6.30.4 Member Data Documentation

6.30.4.1 `std::function<void(double)> rapp::cloud::hazard_detection_door_check::delegate__` `[private]`

The callback called upon completion of receiving the detected faces.

Definition at line 84 of file `hazard_detection.hpp`.

The documentation for this class was generated from the following file:

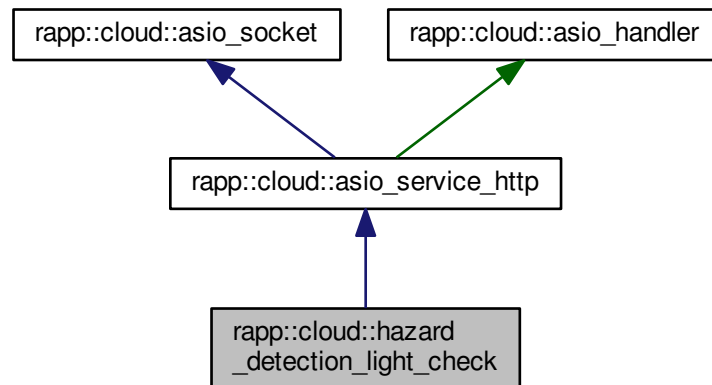
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/hazard_detection.hpp`

6.31 rapp::cloud::hazard_detection_light_check Class Reference

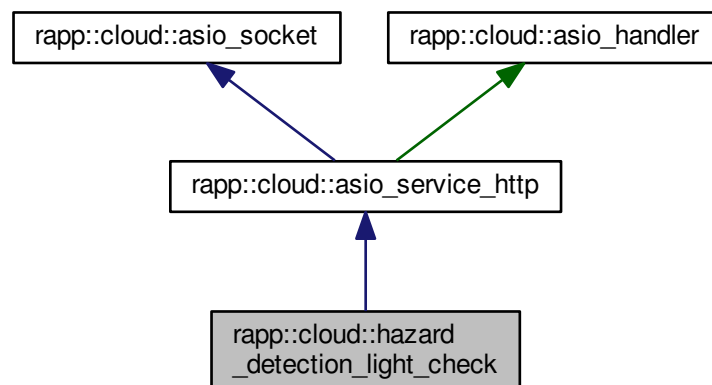
detect light levels

```
#include <hazard_detection.hpp>
```

Inheritance diagram for rapp::cloud::hazard_detection_light_check:



Collaboration diagram for rapp::cloud::hazard_detection_light_check:



Public Member Functions

- [hazard_detection_light_check](#) (const std::shared_ptr< [rapp::object::picture](#) > image, std::function< void(double light_level)> callback, std::string token)

Constructor.

Private Member Functions

- void [handle_reply](#) (std::string json)
handle the rapp-platform JSON reply

Private Attributes

- std::function< void(double)> [delegate__](#)
The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.31.1 Detailed Description

detect light levels

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 94 of file hazard_detection.hpp.

6.31.2 Constructor & Destructor Documentation

6.31.2.1 `rapp::cloud::hazard_detection_light_check::hazard_detection_light_check (const std::shared_ptr< rapp::object::picture > image, std::function< void(double light_level)> callback, std::string token)`

Constructor.

Parameters

<i>image</i>	is a picture object pointer
<i>callback</i>	is the function that will receive a vector of detected qr(s)
<i>image_format</i>	must be defined, e.g.: jpeg, png, gif, etc.

Definition at line 103 of file hazard_detection.hpp.

6.31.3 Member Function Documentation

6.31.3.1 `void rapp::cloud::hazard_detection_light_check::handle_reply (std::string json)` [private]

handle the rapp-platform JSON reply

Definition at line 138 of file hazard_detection.hpp.

6.31.4 Member Data Documentation

6.31.4.1 `std::function<void(double)> rapp::cloud::hazard_detection_light_check::delegate__` [private]

The callback called upon completion of receiving the detected faces.

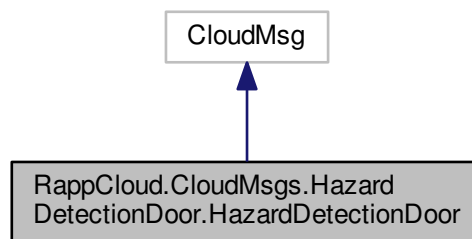
Definition at line 166 of file `hazard_detection.hpp`.

The documentation for this class was generated from the following file:

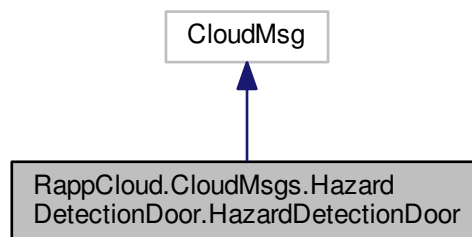
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/hazard_detection.hpp`

6.32 RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor:



Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- [def __init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.32.1 Detailed Description

Hazard Detection Light Check Cloud Message object

Definition at line 11 of file HazardDetectionDoor.py.

6.32.2 Constructor & Destructor Documentation

6.32.2.1 `def RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none">• Request.imageFilepath
------------------------------	--

Definition at line 63 of file HazardDetectionDoor.py.

6.32.3 Member Data Documentation

6.32.3.1 `RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.req`

Definition at line 72 of file HazardDetectionDoor.py.

6.32.3.2 `RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.resp`

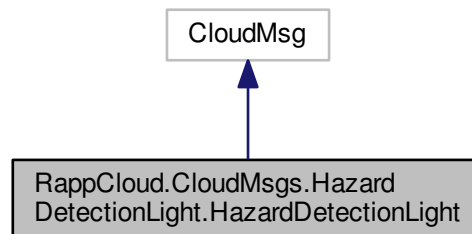
Definition at line 74 of file HazardDetectionDoor.py.

The documentation for this class was generated from the following file:

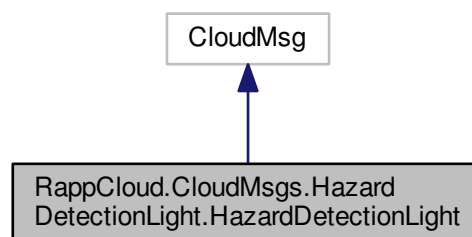
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py`

6.33 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight:



Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.33.1 Detailed Description

Hazard Detection Light Check Cloud Message object

Definition at line 11 of file HazardDetectionLight.py.

6.33.2 Constructor & Destructor Documentation

6.33.2.1 def RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.__init__(self, kwargs)

Constructor.

Parameters

**kwargs	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.imageFilepath
-----------------	--

Definition at line 63 of file HazardDetectionLight.py.

6.33.3 Member Data Documentation

6.33.3.1 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.req

Definition at line 72 of file HazardDetectionLight.py.

6.33.3.2 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.resp

Definition at line 74 of file HazardDetectionLight.py.

The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[HazardDetectionLight.py](#)

6.34 rapp::object::human Class Reference

describes human coordinates

```
#include <human.hpp>
```

Public Member Functions

- [human](#) (float top_left_x, float top_left_y, float bottom_right_x, float bottom_right_y)
Construct using coordinates (a rectangle)
- [human](#) ()=default
Allow empty constructor.
- [human](#) (const [human](#) &)=default
Copy constructor.
- bool [operator==](#) (const [human](#) &rhs) const
Equality operator.

Private Attributes

- float [bottom_right_x__](#)
- float [bottom_right_y__](#)
- float [top_left_x__](#)
- float [top_left_y__](#)

6.34.1 Detailed Description

describes human coordinates

Version

0.6.0

Date

April-2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file human.hpp.

6.34.2 Constructor & Destructor Documentation

6.34.2.1 rapp::object::human::human (float *top_left_x*, float *top_left_y*, float *bottom_right_x*, float *bottom_right_y*)

Construct using coordinates (a rectangle)

Definition at line 17 of file human.hpp.

6.34.2.2 rapp::object::human::human () [default]

Allow empty constructor.

6.34.2.3 rapp::object::human::human (const human &) [default]

Copy constructor.

6.34.3 Member Function Documentation

6.34.3.1 bool rapp::object::human::operator== (const human & *rhs*) const

Equality operator.

Definition at line 36 of file human.hpp.

6.34.4 Member Data Documentation

6.34.4.1 float rapp::object::human::bottom_right_x__ [private]

Definition at line 47 of file human.hpp.

6.34.4.2 `float rapp::object::human::bottom_right_y__` [private]

Definition at line 48 of file human.hpp.

6.34.4.3 `float rapp::object::human::top_left_x__` [private]

Definition at line 45 of file human.hpp.

6.34.4.4 `float rapp::object::human::top_left_y__` [private]

Definition at line 46 of file human.hpp.

The documentation for this class was generated from the following file:

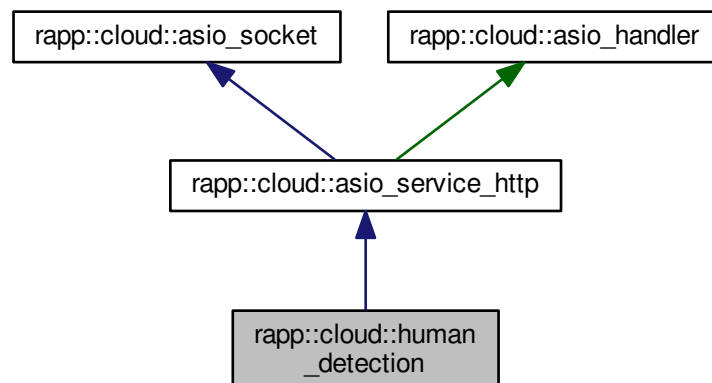
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/human.hpp

6.35 `rapp::cloud::human_detection` Class Reference

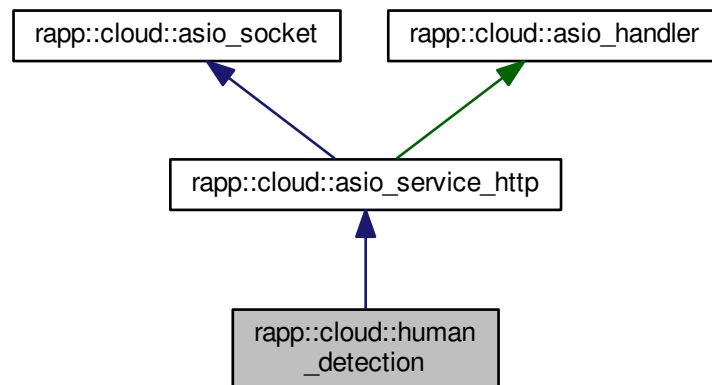
detect humans in an image

```
#include <human_detection.hpp>
```

Inheritance diagram for `rapp::cloud::human_detection`:



Collaboration diagram for rapp::cloud::human_detection:



Public Member Functions

- [human_detection](#) (const std::shared_ptr< [rapp::object::picture](#) > image, std::function< void(std::vector< [rapp::object::human](#) >)> callback, std::string token)
Constructor.

Private Member Functions

- void [handle_reply](#) (std::string json)
handle the rapp-platform JSON reply

Private Attributes

- std::function< void(std::vector< [rapp::object::human](#) >)> [delegate__](#)
The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.35.1 Detailed Description

detect humans in an image

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file human_detection.hpp.

6.35.2 Constructor & Destructor Documentation

6.35.2.1 `rapp::cloud::human_detection::human_detection (const std::shared_ptr< rapp::object::picture > image, std::function< void(std::vector< rapp::object::human >)> callback, std::string token)`

Constructor.

Parameters

<i>image</i>	is a picture object pointer
<i>callback</i>	is the function that will receive a vector of detected qr(s)
<i>image_format</i>	must be defined, e.g.: jpeg, png, gif, etc.

Definition at line 22 of file human_detection.hpp.

6.35.3 Member Function Documentation

6.35.3.1 `void rapp::cloud::human_detection::handle_reply (std::string json) [private]`

handle the rapp-platform JSON reply

Definition at line 56 of file human_detection.hpp.

6.35.4 Member Data Documentation

6.35.4.1 `std::function<void(std::vector<rapp::object::human>)> rapp::cloud::human_detection::delegate__ [private]`

The callback called upon completion of receiving the detected faces.

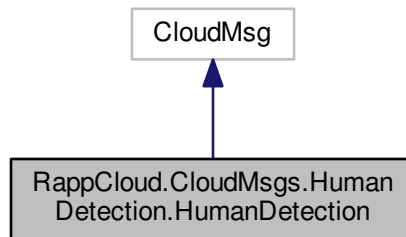
Definition at line 112 of file human_detection.hpp.

The documentation for this class was generated from the following file:

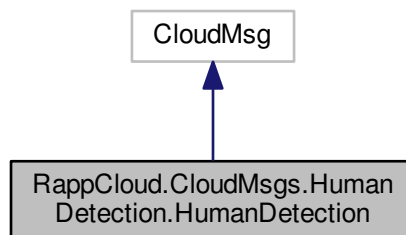
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/human_detection/human_detection.hpp

6.36 RappCloud.CloudMsgs.HumanDetection.HumanDetection Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection:



Collaboration diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.36.1 Detailed Description

Human Detection Cloud Message object

Definition at line 11 of file HumanDetection.py.

6.36.2 Constructor & Destructor Documentation

6.36.2.1 `def RappCloud.CloudMsgs.HumanDetection.HumanDetection.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none">• Request.imageFilepath
------------------------------	--

Definition at line 58 of file HumanDetection.py.

6.36.3 Member Data Documentation

6.36.3.1 `RappCloud.CloudMsgs.HumanDetection.HumanDetection.req`

Definition at line 67 of file HumanDetection.py.

6.36.3.2 `RappCloud.CloudMsgs.HumanDetection.HumanDetection.resp`

Definition at line 69 of file HumanDetection.py.

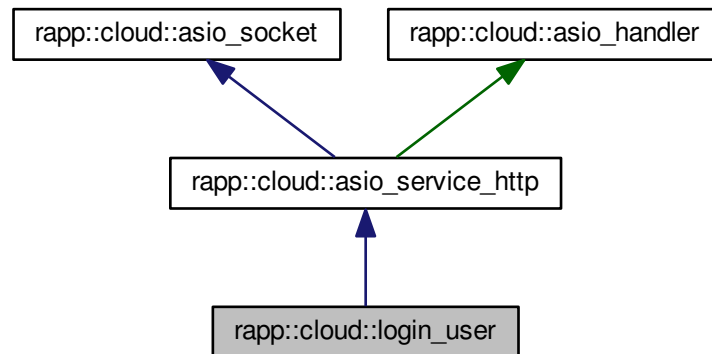
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HumanDetection.py`

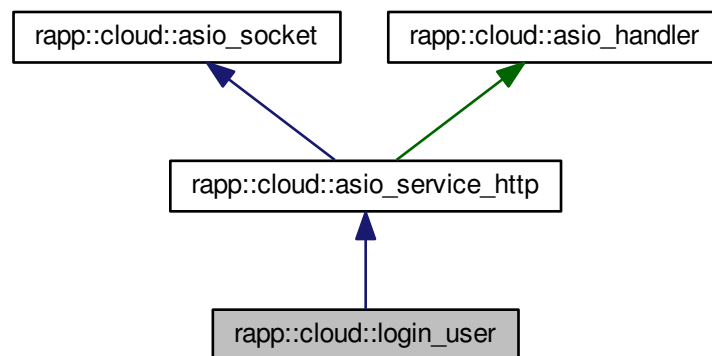
6.37 rapp::cloud::login_user Class Reference

```
#include <user.hpp>
```

Inheritance diagram for rapp::cloud::login_user:



Collaboration diagram for rapp::cloud::login_user:



Public Member Functions

- [available_services](#) (const std::string token, std::function< void(std::vector< std::string >)> callback)

Private Member Functions

- void [handle_reply](#) (std::string json)
handle platform's JSON reply

Private Attributes

- std::function< void(std::vector< std::string > services)> [delegate_](#)

Additional Inherited Members

6.37.1 Detailed Description

Version

0.6.0

Date

May 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file user.hpp.

6.37.2 Member Function Documentation

6.37.2.1 `rapp::cloud::login_user::available_services (const std::string token, std::function< void(std::vector< std::string >)> callback)`

Parameters

<i>callback</i>	will receive a vector of services strings
-----------------	---

Definition at line 19 of file user.hpp.

6.37.2.2 `void rapp::cloud::login_user::handle_reply (std::string json)` `[private]`

handle platform's JSON reply

Definition at line 32 of file user.hpp.

6.37.3 Member Data Documentation

6.37.3.1 `std::function<void(std::vector<std::string> services)> rapp::cloud::login_user::delegate_` `[private]`

Definition at line 57 of file user.hpp.

The documentation for this class was generated from the following file:

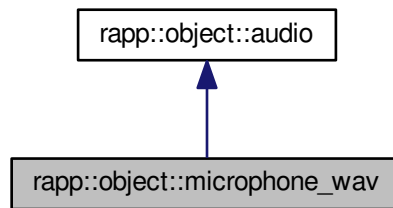
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/user.hpp`

6.38 rapp::object::microphone_wav Class Reference

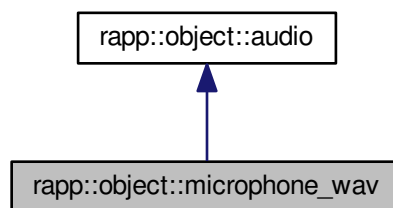
WAV Single channel 16Khz > Headset audio source.

```
#include <audio.hpp>
```

Inheritance diagram for rapp::object::microphone_wav:



Collaboration diagram for rapp::object::microphone_wav:



Public Member Functions

- [microphone_wav](#) (const std::string filepath)
- [microphone_wav](#) (std::ifstream &bytestream)
- [microphone_wav](#) (std::vector< [rapp::types::byte](#) > bytearray)
- std::string [audio_source](#) () const
- std::string [extension](#) () const

6.38.1 Detailed Description

WAV Single channel 16Khz > Headset audio source.

Definition at line 154 of file audio.hpp.

6.38.2 Constructor & Destructor Documentation

6.38.2.1 rapp::object::microphone_wav::microphone_wav (const std::string filepath)

Definition at line 158 of file audio.hpp.

6.38.2.2 `rapp::object::microphone_wav::microphone_wav (std::ifstream & bytestream)`

Definition at line 161 of file `audio.hpp`.

6.38.2.3 `rapp::object::microphone_wav::microphone_wav (std::vector< rapp::types::byte > bytearray)`

Definition at line 164 of file `audio.hpp`.

6.38.3 Member Function Documentation

6.38.3.1 `std::string rapp::object::microphone_wav::audio_source () const` [virtual]

Reimplemented from [rapp::object::audio](#).

Definition at line 168 of file `audio.hpp`.

6.38.3.2 `std::string rapp::object::microphone_wav::extension () const` [virtual]

Reimplemented from [rapp::object::audio](#).

Definition at line 171 of file `audio.hpp`.

The documentation for this class was generated from the following file:

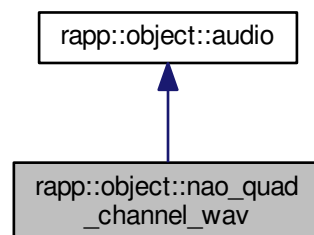
- `/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp`

6.39 `rapp::object::nao_quad_channel_wav` Class Reference

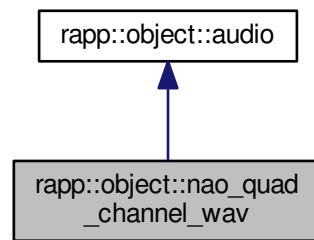
WAV Class specialisation for quad channel.

```
#include <audio.hpp>
```

Inheritance diagram for `rapp::object::nao_quad_channel_wav`:



Collaboration diagram for rapp::object::nao_quad_channel_wav:



Public Member Functions

- [nao_quad_channel_wav](#) (const std::string filepath)
- [nao_quad_channel_wav](#) (std::ifstream &bytestream)
- std::string [audio_source](#) () const
- std::string [extension](#) () const

6.39.1 Detailed Description

WAV Class specialisation for quad channel.

Definition at line 137 of file audio.hpp.

6.39.2 Constructor & Destructor Documentation

6.39.2.1 `rapp::object::nao_quad_channel_wav::nao_quad_channel_wav (const std::string filepath)`

Definition at line 141 of file audio.hpp.

6.39.2.2 `rapp::object::nao_quad_channel_wav::nao_quad_channel_wav (std::ifstream & bytestream)`

Definition at line 144 of file audio.hpp.

6.39.3 Member Function Documentation

6.39.3.1 `std::string rapp::object::nao_quad_channel_wav::audio_source () const` `[virtual]`

Reimplemented from [rapp::object::audio](#).

Definition at line 147 of file audio.hpp.

6.39.3.2 `std::string rapp::object::nao_quad_channel_wav::extension () const` `[virtual]`

Reimplemented from [rapp::object::audio](#).

Definition at line 150 of file audio.hpp.

The documentation for this class was generated from the following file:

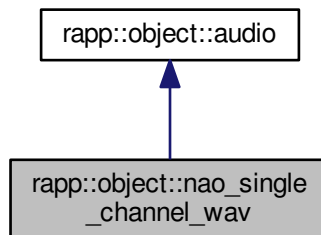
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp

6.40 rapp::object::nao_single_channel_wav Class Reference

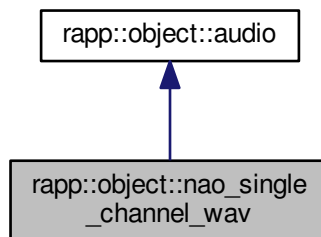
WAV Class specialisation for a single channel.

```
#include <audio.hpp>
```

Inheritance diagram for rapp::object::nao_single_channel_wav:



Collaboration diagram for rapp::object::nao_single_channel_wav:



Public Member Functions

- [nao_single_channel_wav](#) (const std::string filepath)
- [nao_single_channel_wav](#) (std::ifstream &bytestream)
- std::string [audio_source](#) () const
- std::string [extension](#) () const

6.40.1 Detailed Description

WAV Class specialisation for a single channel.

Definition at line 120 of file audio.hpp.

6.40.2 Constructor & Destructor Documentation

6.40.2.1 `rapp::object::nao_single_channel_wav::nao_single_channel_wav (const std::string filepath)`

Definition at line 124 of file audio.hpp.

6.40.2.2 `rapp::object::nao_single_channel_wav::nao_single_channel_wav (std::ifstream & bytestream)`

Definition at line 127 of file audio.hpp.

6.40.3 Member Function Documentation

6.40.3.1 `std::string rapp::object::nao_single_channel_wav::audio_source () const` `[virtual]`

Reimplemented from [rapp::object::audio](#).

Definition at line 130 of file audio.hpp.

6.40.3.2 `std::string rapp::object::nao_single_channel_wav::extension () const` `[virtual]`

Reimplemented from [rapp::object::audio](#).

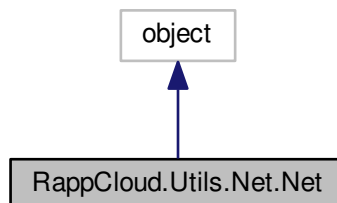
Definition at line 133 of file audio.hpp.

The documentation for this class was generated from the following file:

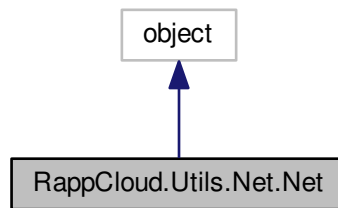
- `/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp`

6.41 RappCloud.Utills.Net.Net Class Reference

Inheritance diagram for RappCloud.Utills.Net.Net:



Collaboration diagram for RappCloud.Utills.Net.Net:



Static Public Member Functions

- `def ipaddr_connected`
Hacky method to get the actual public ip.

6.41.1 Detailed Description

Provide Network related static methods

Definition at line 31 of file Net.py.

6.41.2 Member Function Documentation

6.41.2.1 `def RappCloud.Utills.Net.Net.ipaddr_connected () [static]`

Hacky method to get the actual public ip.

Prepare a dummy socket to google.com and see what the socket name is.

Returns

string - The ipv4 address of the machine.

Definition at line 37 of file Net.py.

The documentation for this class was generated from the following file:

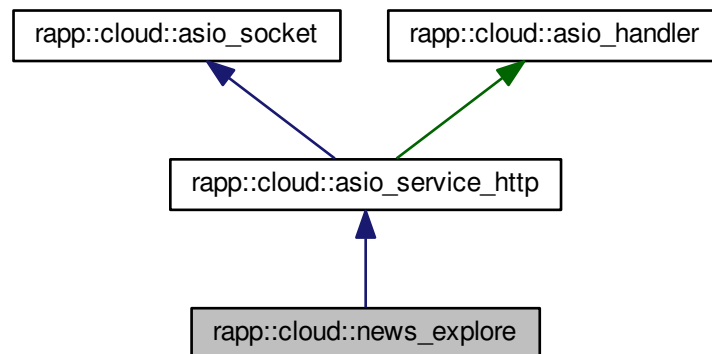
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/Utills/Net.py`

6.42 rapp::cloud::news_explore Class Reference

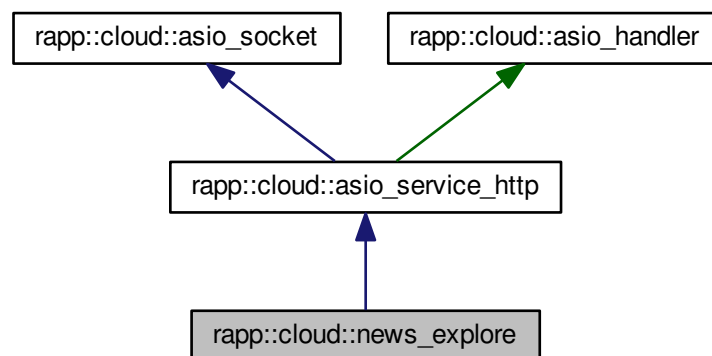
get news

```
#include <news.hpp>
```

Inheritance diagram for rapp::cloud::news_explore:



Collaboration diagram for rapp::cloud::news_explore:



Public Member Functions

- [news_explore](#) (const std::string news_engine, const std::vector< std::string > keywords, const std::vector< std::string > exclude_titles, const std::string region, const std::string topic, const unsigned int num_news, const std::string token, std::function< void(std::string)> callback)

Private Member Functions

- void [handle_reply](#) (std::string json)
handle platform's JSON reply

Private Attributes

- `std::function< void(std::string)>` [delegate_](#)

Additional Inherited Members

6.42.1 Detailed Description

get news

Version

0.6.0

Date

May 2016

Definition at line 12 of file news.hpp.

6.42.2 Constructor & Destructor Documentation

6.42.2.1 `rapp::cloud::news_explore::news_explore (const std::string news_engine, const std::vector< std::string > keywords, const std::vector< std::string > exclude_titles, const std::string region, const std::string topic, const unsigned int num_news, const std::string token, std::function< void(std::string)> callback)`

Parameters

<i>news_engine</i>	search news engine
<i>keywords</i>	list desired keywords
<i>exclude_titles</i>	list of excluded titles
<i>region</i>	language/region
<i>topic</i>	main news topic
<i>num_news</i>	number of news stories limit
<i>token</i>	rapp auth token
<i>callback</i>	receives a JSON reply

Definition at line 25 of file news.hpp.

6.42.3 Member Function Documentation

6.42.3.1 `void rapp::cloud::news_explore::handle_reply (std::string json)` `[private]`

handle platform's JSON reply

Definition at line 65 of file news.hpp.

6.42.4 Member Data Documentation

6.42.4.1 `std::function<void(std::string)>` `rapp::cloud::news_explore::delegate_` `[private]`

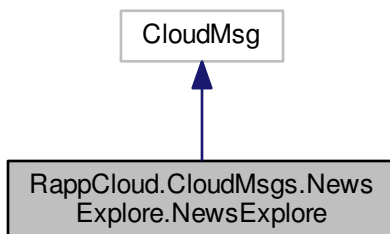
Definition at line 71 of file news.hpp.

The documentation for this class was generated from the following file:

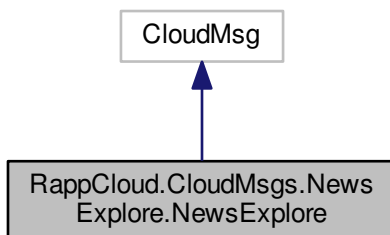
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/news.hpp`

6.43 RappCloud.CloudMsgs.NewsExplore.NewsExplore Class Reference

Inheritance diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore:



Collaboration diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.43.1 Detailed Description

NewsExplore Cloud Message object

Definition at line 11 of file NewsExplore.py.

6.43.2 Constructor & Destructor Documentation

6.43.2.1 `def RappCloud.CloudMsgs.NewsExplore.NewsExplore.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.news_engine • Request.keywords • Request.exclude_titles • Request.region • Request.topic • Request.num_news
------------------------------	---

Definition at line 85 of file NewsExplore.py.

6.43.3 Member Data Documentation

6.43.3.1 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.req`

Definition at line 99 of file NewsExplore.py.

6.43.3.2 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.resp`

Definition at line 101 of file NewsExplore.py.

The documentation for this class was generated from the following file:

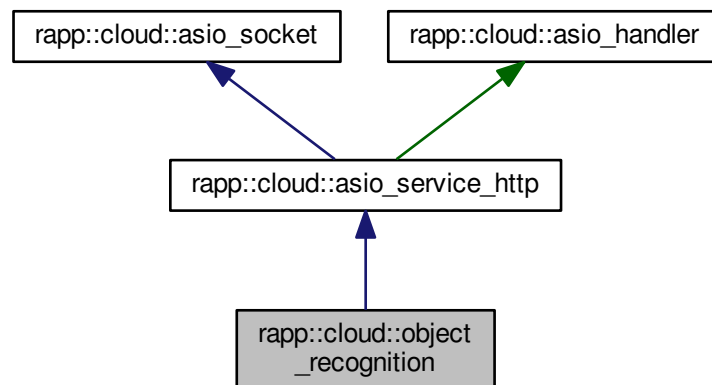
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py`

6.44 `rapp::cloud::object_recognition` Class Reference

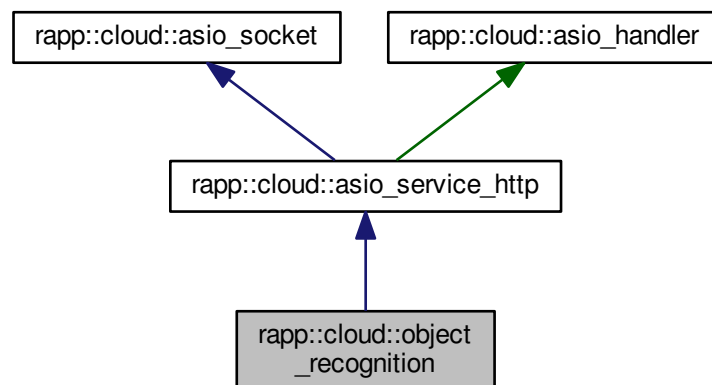
recognize object from an image

```
#include <object_recognition.hpp>
```

Inheritance diagram for rapp::cloud::object_recognition:



Collaboration diagram for rapp::cloud::object_recognition:



Public Member Functions

- `object_recognition` (const std::shared_ptr< rapp::object::picture > image, std::function< void(std::string)> callback, std::string token)
Constructor.

Private Member Functions

- void `handle_reply` (std::string json)
handle the rapp-platform JSON reply

Private Attributes

- `std::function< void(std::string)> delegate__`
The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.44.1 Detailed Description

recognize object from an image

Version

0.6.1

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file `object_recognition.hpp`.

6.44.2 Constructor & Destructor Documentation

- 6.44.2.1 `rapp::cloud::object_recognition::object_recognition (const std::shared_ptr< rapp::object::picture > image, std::function< void(std::string)> callback, std::string token)`

Constructor.

Parameters

<i>image</i>	is a picture object pointer
<i>callback</i>	is the function that will receive a string

Definition at line 21 of file `object_recognition.hpp`.

6.44.3 Member Function Documentation

- 6.44.3.1 `void rapp::cloud::object_recognition::handle_reply (std::string json)` `[private]`

handle the rapp-platform JSON reply

Definition at line 55 of file `object_recognition.hpp`.

6.44.4 Member Data Documentation

- 6.44.4.1 `std::function<void(std::string)> rapp::cloud::object_recognition::delegate__` `[private]`

The callback called upon completion of receiving the detected faces.

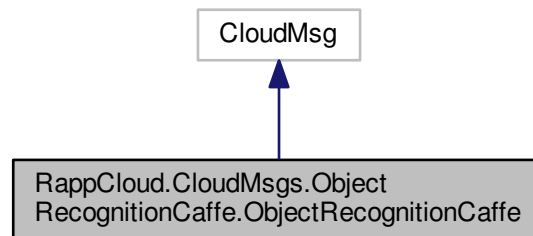
Definition at line 82 of file `object_recognition.hpp`.

The documentation for this class was generated from the following file:

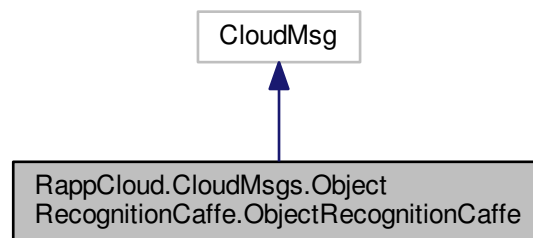
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/object_recognition.hpp`

6.45 RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe Class Reference

Inheritance diagram for RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe:



Collaboration diagram for RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.45.1 Detailed Description

Object Recognition Cloud Message object

Definition at line 11 of file ObjectRecognitionCaffe.py.

6.45.2 Constructor & Destructor Documentation

6.45.2.1 `def RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.imageFilepath
------------------------------	--

Definition at line 63 of file ObjectRecognitionCaffe.py.

6.45.3 Member Data Documentation

6.45.3.1 `RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.req`

Definition at line 72 of file ObjectRecognitionCaffe.py.

6.45.3.2 `RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.resp`

Definition at line 74 of file ObjectRecognitionCaffe.py.

The documentation for this class was generated from the following file:

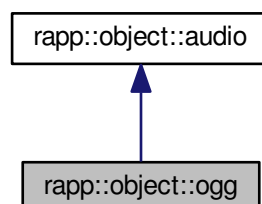
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py`

6.46 rapp::object::ogg Class Reference

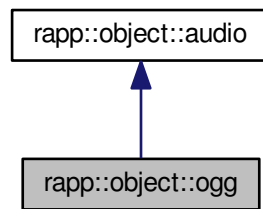
OGG Class specialisation.

```
#include <audio.hpp>
```

Inheritance diagram for rapp::object::ogg:



Collaboration diagram for rapp::object::ogg:



Public Member Functions

- [ogg](#) (const std::string filepath)
- [ogg](#) (std::ifstream &bytestream)
- std::string [audio_source](#) () const
- std::string [extension](#) () const

6.46.1 Detailed Description

OGG Class specialisation.

Definition at line 103 of file audio.hpp.

6.46.2 Constructor & Destructor Documentation

6.46.2.1 rapp::object::ogg::ogg (const std::string filepath)

Definition at line 107 of file audio.hpp.

6.46.2.2 rapp::object::ogg::ogg (std::ifstream & bytestream)

Definition at line 110 of file audio.hpp.

6.46.3 Member Function Documentation

6.46.3.1 std::string rapp::object::ogg::audio_source () const [virtual]

Reimplemented from [rapp::object::audio](#).

Definition at line 113 of file audio.hpp.

6.46.3.2 std::string rapp::object::ogg::extension () const [virtual]

Reimplemented from [rapp::object::audio](#).

Definition at line 116 of file audio.hpp.

The documentation for this class was generated from the following file:

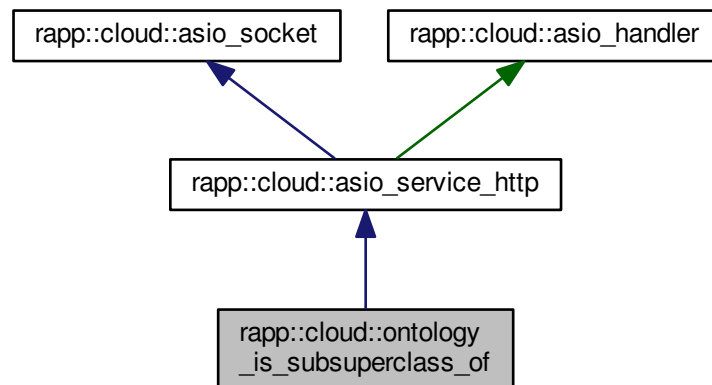
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp

6.47 rapp::cloud::ontology_is_subsuperclass_of Class Reference

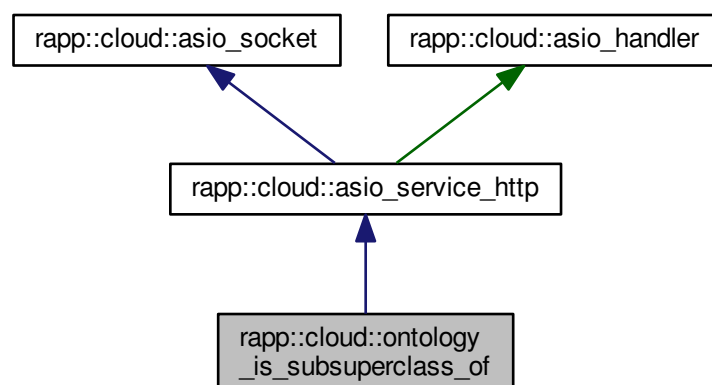
query if sub class is a super class of param

```
#include <ontology.hpp>
```

Inheritance diagram for rapp::cloud::ontology_is_subsuperclass_of:



Collaboration diagram for rapp::cloud::ontology_is_subsuperclass_of:



Public Member Functions

- [ontology_is_subsuperclass_of](#) (const std::string parent_class, const std::string child_class, bool recursive, std::function< void(bool result)> callback, const std::string token)
query if a class is the superclass of a subclass

Private Member Functions

- void [handle_reply](#) (std::string json)
handle and parse JSON reply

Private Attributes

- std::function< void(bool result)> [delegate__](#)
The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.47.1 Detailed Description

query if sub class is a super class of param

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 144 of file ontology.hpp.

6.47.2 Constructor & Destructor Documentation

6.47.2.1 rapp::cloud::ontology_is_subsuperclass_of::ontology_is_subsuperclass_of (const std::string *parent_class*, const std::string *child_class*, bool *recursive*, std::function< void(bool result)> *callback*, const std::string *token*)

query if a class is the superclass of a subclass

Parameters

<i>parent</i>	class queried
<i>child</i>	class queried
<i>recursive</i>	defines a recursive procedure
<i>callback</i>	is the functor that will receive the classes discovered

<i>token</i>	is the rapp authentication token
--------------	----------------------------------

Definition at line 155 of file ontology.hpp.

6.47.3 Member Function Documentation

6.47.3.1 `void rapp::cloud::ontology_is_subsuperclass_of::handle_reply (std::string json)` [private]

handle and parse JSON reply

Definition at line 178 of file ontology.hpp.

6.47.4 Member Data Documentation

6.47.4.1 `std::function<void(bool result)> rapp::cloud::ontology_is_subsuperclass_of::delegate__` [private]

The callback called upon completion of receiving the detected faces.

Definition at line 206 of file ontology.hpp.

The documentation for this class was generated from the following file:

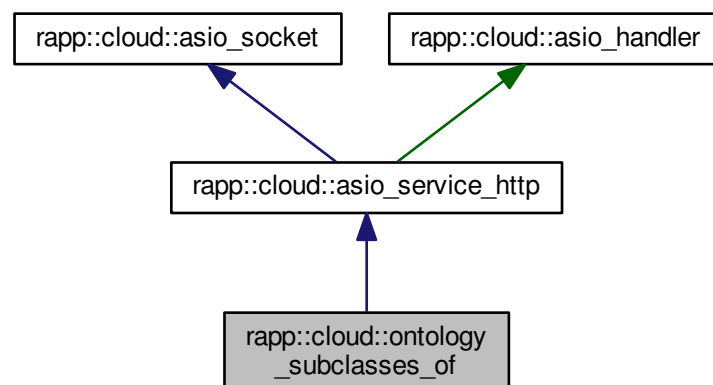
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp

6.48 rapp::cloud::ontology_subclasses_of Class Reference

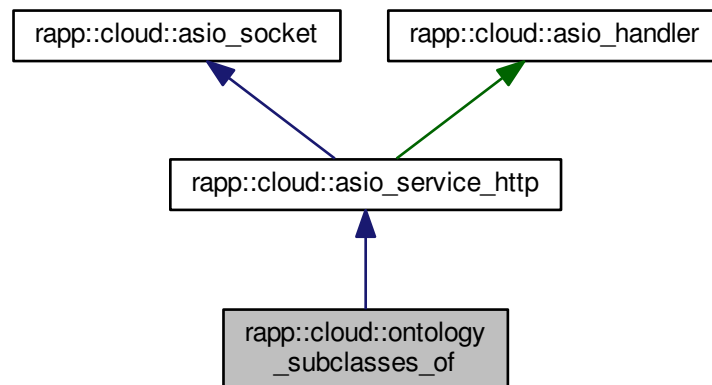
get ontology subclass of a query

```
#include <ontology.hpp>
```

Inheritance diagram for rapp::cloud::ontology_subclasses_of:



Collaboration diagram for rapp::cloud::ontology_subclasses_of:



Public Member Functions

- [ontology_subclasses_of](#) (std::string ontology_class, bool recursive, std::function< void(std::vector< std::string >)> callback, std::string token)
constructor for this handler

Private Member Functions

- void [handle_reply](#) (std::string json)
handle and parse JSON reply

Private Attributes

- std::function< void(std::vector< std::string > classes)> [delegate__](#)
The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.48.1 Detailed Description

get ontology subclass of a query

Version

0.6.1

Date

May 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file ontology.hpp.

6.48.2 Constructor & Destructor Documentation

6.48.2.1 `rapp::cloud::ontology_subclasses_of::ontology_subclasses_of (std::string ontology_class, bool recursive, std::function< void(std::vector< std::string >)> callback, std::string token)`

constructor for this handler

Parameters

<i>query</i>	is the entity for which we will try to acquire its Super-Ordinates
<i>callback</i>	is the functor that will receive the classes discovered
<i>token</i>	is the rapp authentication token

Definition at line 22 of file ontology.hpp.

6.48.3 Member Function Documentation

6.48.3.1 `void rapp::cloud::ontology_subclasses_of::handle_reply (std::string json)` `[private]`

handle and parse JSON reply

Definition at line 43 of file ontology.hpp.

6.48.4 Member Data Documentation

6.48.4.1 `std::function<void(std::vector<std::string> classes)> rapp::cloud::ontology_subclasses_of::delegate__` `[private]`

The callback called upon completion of receiving the detected faces.

Definition at line 70 of file ontology.hpp.

The documentation for this class was generated from the following file:

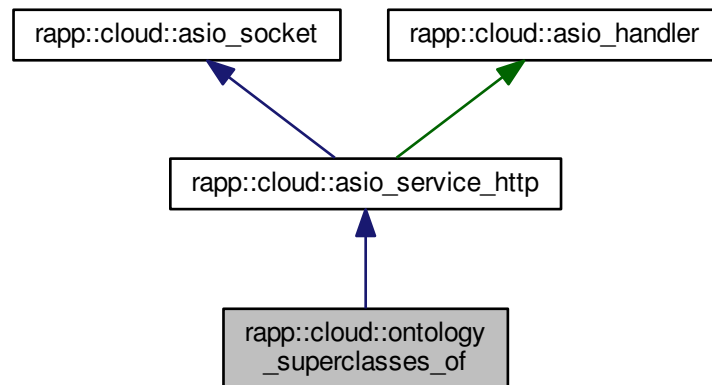
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp

6.49 rapp::cloud::ontology_superclasses_of Class Reference

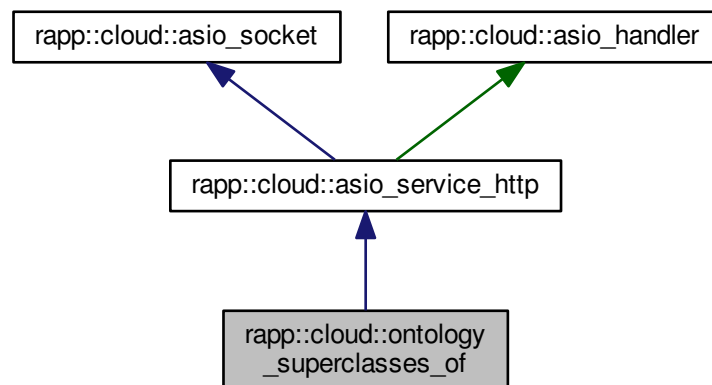
get ontology super-classes of query

```
#include <ontology.hpp>
```


Inheritance diagram for rapp::cloud::ontology_superclasses_of:



Collaboration diagram for rapp::cloud::ontology_superclasses_of:



Public Member Functions

- [ontology_superclasses_of](#) (const std::string ontology_class, bool recursive, std::function< void(std::vector< std::string >)> callback, std::string token)

Private Member Functions

- void [handle_reply](#) (std::string json)
handle and parse JSON reply

Private Attributes

- `std::function< void(std::vector< std::string > classes)>` [delegate__](#)

The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.49.1 Detailed Description

get ontology super-classes of query

Version

0.6.1

Date

May 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 79 of file ontology.hpp.

6.49.2 Constructor & Destructor Documentation

6.49.2.1 `rapp::cloud::ontology_superclasses_of::ontology_superclasses_of (const std::string ontology_class, bool recursive, std::function< void(std::vector< std::string >)> callback, std::string token)`

Parameters

<i>ontology_class</i>	is the entity for which we will try to acquire its Super-Ordinates
<i>callback</i>	is the functor that will receive the classes discovered
<i>token</i>	is user authentication token

Definition at line 87 of file ontology.hpp.

6.49.3 Member Function Documentation

6.49.3.1 `void rapp::cloud::ontology_superclasses_of::handle_reply (std::string json)` `[private]`

handle and parse JSON reply

Definition at line 108 of file ontology.hpp.

6.49.4 Member Data Documentation

6.49.4.1 `std::function<void(std::vector<std::string> classes)>` `rapp::cloud::ontology_superclasses_of::delegate__`
`[private]`

The callback called upon completion of receiving the detected faces.

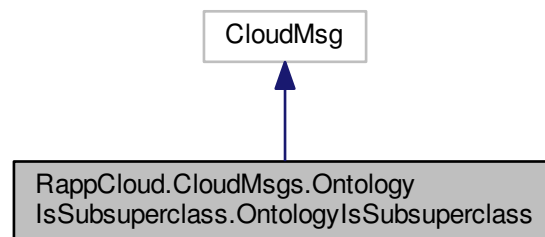
Definition at line 135 of file ontology.hpp.

The documentation for this class was generated from the following file:

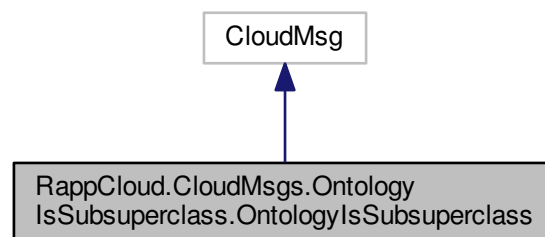
- [/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/ontology.hpp](#)

6.50 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass:



Collaboration diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)

- [resp](#)

6.50.1 Detailed Description

Ontology Is Sub-Superclass Of Cloud Message object

Definition at line 11 of file OntologyIsSubsuperclass.py.

6.50.2 Constructor & Destructor Documentation

6.50.2.1 `def RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	<p>- Keyword arguments. Apply values to the request attributes.</p> <ul style="list-style-type: none">• Request.parent_class• Request.child_class• Request.recursive
------------------------------	--

Definition at line 74 of file OntologyIsSubsuperclass.py.

6.50.3 Member Data Documentation

6.50.3.1 `RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.req`

Definition at line 85 of file OntologyIsSubsuperclass.py.

6.50.3.2 `RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.resp`

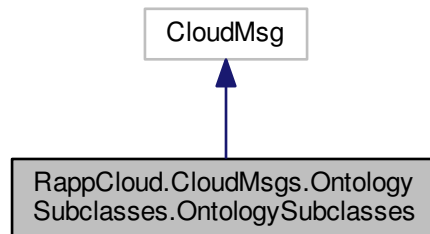
Definition at line 87 of file OntologyIsSubsuperclass.py.

The documentation for this class was generated from the following file:

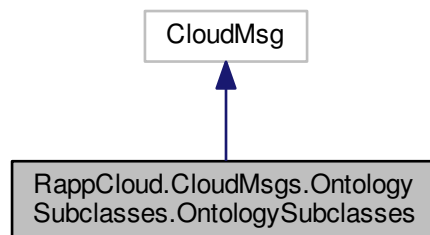
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py`

6.51 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses:



Collaboration diagram for RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.51.1 Detailed Description

Ontology Subclasses Of Cloud Message object

Definition at line 11 of file OntologySubclasses.py.

6.51.2 Constructor & Destructor Documentation

6.51.2.1 `def RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.query
-----------------------	--

Definition at line 67 of file OntologySubclasses.py.

6.51.3 Member Data Documentation

6.51.3.1 `RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.req`

Definition at line 76 of file OntologySubclasses.py.

6.51.3.2 `RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.resp`

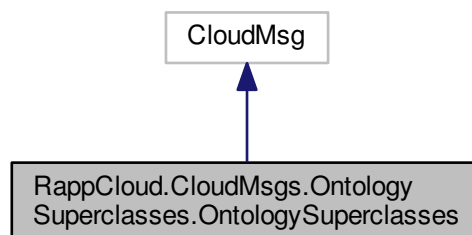
Definition at line 78 of file OntologySubclasses.py.

The documentation for this class was generated from the following file:

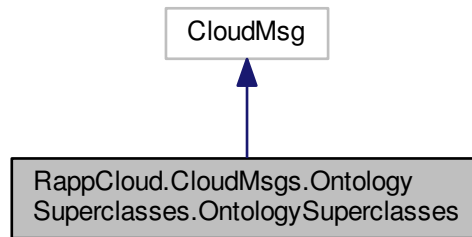
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySubclasses.py](#)

6.52 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses:



Collaboration diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.52.1 Detailed Description

Ontology Superclasses Of Cloud Message object

Definition at line 11 of file `OntologySuperclasses.py`.

6.52.2 Constructor & Destructor Documentation

6.52.2.1 `def RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>Request.query</code>
------------------------------	---

Definition at line 67 of file `OntologySuperclasses.py`.

6.52.3 Member Data Documentation

6.52.3.1 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.req

Definition at line 76 of file OntologySuperclasses.py.

6.52.3.2 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.resp

Definition at line 78 of file OntologySuperclasses.py.

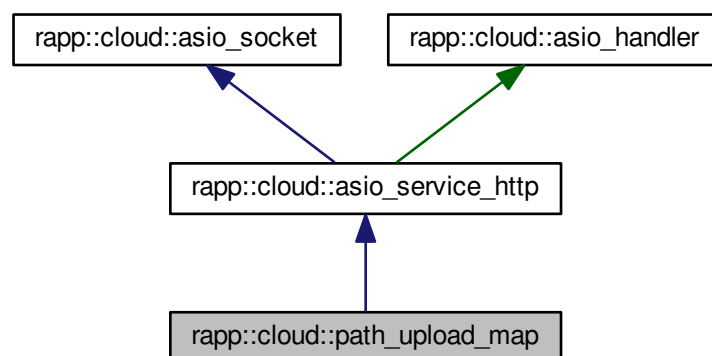
The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[OntologySuperclasses.py](#)

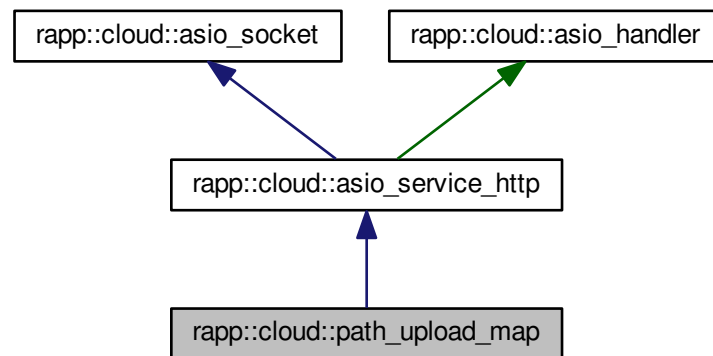
6.53 rapp::cloud::path_upload_map Class Reference

```
#include <path_planning.hpp>
```

Inheritance diagram for rapp::cloud::path_upload_map:



Collaboration diagram for rapp::cloud::path_upload_map:



Additional Inherited Members

6.53.1 Detailed Description

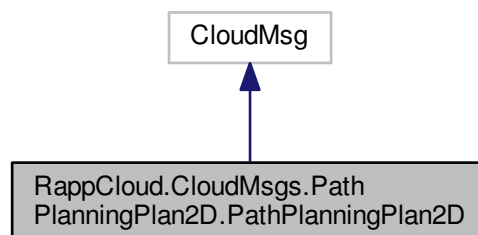
Definition at line 83 of file path_planning.hpp.

The documentation for this class was generated from the following file:

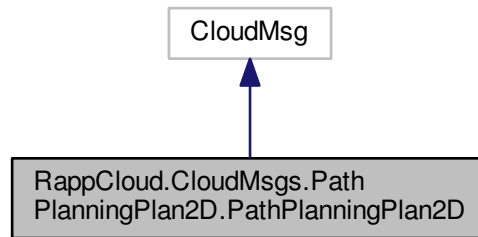
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/[path_planning.hpp](#)

6.54 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D Class Reference

Inheritance diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D:



Collaboration diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.54.1 Detailed Description

Path Planning Plan 2D Cloud Message object

For more information read on:

https://github.com/rapp-project/rapp-platform/tree/master/rapp_path_planning/rapp_path_planning

Definition at line 11 of file PathPlanningPlan2D.py.

6.54.2 Constructor & Destructor Documentation

6.54.2.1 def RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.__init__(self, kwargs)

Constructor.

Parameters

**kwargs	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.map_name • Request.robot_type • Request.algorithm • Request.pose_start • Request.pose_goal
-----------------	---

Definition at line 95 of file PathPlanningPlan2D.py.

6.54.3 Member Data Documentation

6.54.3.1 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.req

Definition at line 108 of file PathPlanningPlan2D.py.

6.54.3.2 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.resp

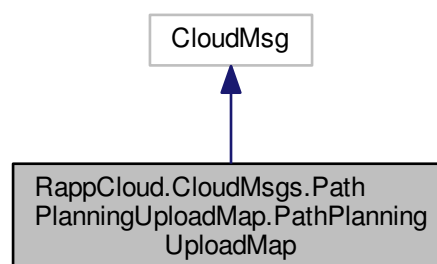
Definition at line 110 of file PathPlanningPlan2D.py.

The documentation for this class was generated from the following file:

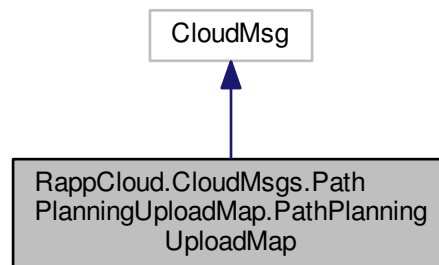
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py](#)

6.55 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap Class Reference

Inheritance diagram for RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap:



Collaboration diagram for RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.55.1 Detailed Description

Path Planning Upload Map Cloud Message object

Definition at line 11 of file PathPlanningUploadMap.py.

6.55.2 Constructor & Destructor Documentation

6.55.2.1 def RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.__init__(self, kwargs)

Constructor.

Parameters

**kwargs	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.map_name • Request.png_file • Request.yaml_file
-----------------	--

Definition at line 68 of file PathPlanningUploadMap.py.

6.55.3 Member Data Documentation

6.55.3.1 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.req

Definition at line 79 of file PathPlanningUploadMap.py.

6.55.3.2 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.resp

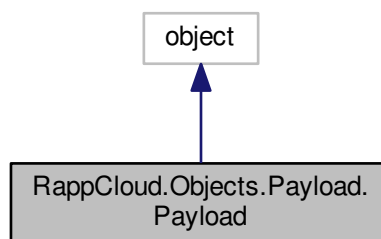
Definition at line 81 of file PathPlanningUploadMap.py.

The documentation for this class was generated from the following file:

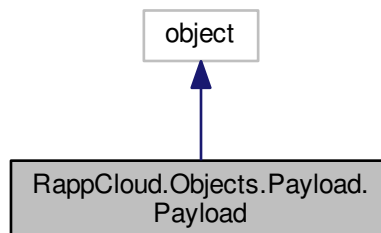
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[PathPlanningUploadMap.py](#)

6.56 RappCloud.Objects.Payload.Payload Class Reference

Inheritance diagram for RappCloud.Objects.Payload.Payload:



Collaboration diagram for RappCloud.Objects.Payload.Payload:



Public Member Functions

- def [__init__](#)
- def [__eq__](#)
Equality method.
- def [append](#)
Append key-value pairs to the request payload.
- def [make_json](#)
Serialize to Dictionary and create a json string.
- def [remove](#)
Remove payload properties.
- def [serialize](#)
Serialize to Dictionary.

6.56.1 Detailed Description

Payload object class

Definition at line 30 of file Payload.py.

6.56.2 Constructor & Destructor Documentation

6.56.2.1 `def RappCloud.Objects.Payload.Payload.__init__(self, kwargs)`

Definition at line 32 of file Payload.py.

6.56.3 Member Function Documentation

6.56.3.1 `def RappCloud.Objects.Payload.Payload.__eq__(self, other)`

Equality method.

Definition at line 37 of file Payload.py.

6.56.3.2 `def RappCloud.Objects.Payload.Payload.append(self, kwargs)`

Append key-value pairs to the request payload.

Parameters

**kwargs	- Keyword arguments. Key-Value pairs to append to the payload.
-----------------	--

Definition at line 42 of file Payload.py.

6.56.3.3 `def RappCloud.Objects.Payload.Payload.make_json(self)`

Serialize to Dictionary and create a json string.

Returns

json - Request [Payload](#) json string.

Definition at line 70 of file Payload.py.

6.56.3.4 `def RappCloud.Objects.Payload.Payload.remove (self, toDelAttr)`

Remove payload properties.

Parameters

<i>toDelAttr</i>	(Array) - Array of Strings for properties to remove from the payload.
------------------	---

Definition at line 52 of file Payload.py.

6.56.3.5 def RappCloud.Objects.Payload.Payload.serialize (self)

Serialize to Dictionary.

Returns

dictionary - Request [Payload](#) dictionary.

Definition at line 62 of file Payload.py.

The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/[Payload.py](#)

6.57 rapp::object::picture Class Reference

class which wraps around raw bytes of a picture

```
#include <picture.hpp>
```

Public Member Functions

- [picture](#) (const std::string filepath)
Construct from a file-path.
- [picture](#) (std::ifstream &bytestream)
Construct using an open file stream.
- [picture](#) (const [picture](#) &)=default
Copy constructor.
- std::vector< [rapp::types::byte](#) > [bytearray](#) () const
Get picture as array of bytes.
- [picture](#) & [operator=](#) (const [picture](#) &)=default
Assignment operator.
- bool [operator==](#) (const [picture](#) &rhs) const
picture equality
- bool [save](#) (const std::string filepath)
Save picture to filepath.
- std::string [type](#) () const
try and get image type (JPG/PNG supported)

Private Types

- typedef char [byte](#)

Private Member Functions

- [picture](#) ()=delete
- void [opencb_](#) (std::ifstream &bytestream)

Private Attributes

- `std::vector< rapp::types::byte > bytearray_`
- `std::string imgtype_`

6.57.1 Detailed Description

class which wraps around raw bytes of a picture

Version

3

Date

January 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file picture.hpp.

6.57.2 Member Typedef Documentation

6.57.2.1 `typedef char rapp::object::picture::byte` `[private]`

Definition at line 74 of file picture.hpp.

6.57.3 Constructor & Destructor Documentation

6.57.3.1 `rapp::object::picture::picture (const std::string filepath)`

Construct from a file-path.

Definition at line 18 of file picture.hpp.

6.57.3.2 `rapp::object::picture::picture (std::ifstream & bytestream)`

Construct using an open file stream.

Definition at line 29 of file picture.hpp.

6.57.3.3 `rapp::object::picture::picture (const picture &)` `[default]`

Copy constructor.

6.57.3.4 `rapp::object::picture::picture ()` `[private],[delete]`

6.57.4 Member Function Documentation

6.57.4.1 `std::vector<rapp::types::byte> rapp::object::picture::bytearray () const`

Get picture as array of bytes.

Definition at line 47 of file picture.hpp.

6.57.4.2 `void rapp::object::picture::opencb_ (std::ifstream & bytestream) [private]`

Definition at line 80 of file picture.hpp.

6.57.4.3 `picture& rapp::object::picture::operator= (const picture &) [default]`

Assignment operator.

6.57.4.4 `bool rapp::object::picture::operator== (const picture & rhs) const`

picture equality

Definition at line 41 of file picture.hpp.

6.57.4.5 `bool rapp::object::picture::save (const std::string filepath)`

Save picture to filepath.

Definition at line 59 of file picture.hpp.

6.57.4.6 `std::string rapp::object::picture::type () const`

try and get image type (JPG/PNG supported)

Definition at line 53 of file picture.hpp.

6.57.5 Member Data Documentation

6.57.5.1 `std::vector<rapp::types::byte> rapp::object::picture::bytearray_ [private]`

Definition at line 97 of file picture.hpp.

6.57.5.2 `std::string rapp::object::picture::imgtype_ [private]`

Definition at line 98 of file picture.hpp.

The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/picture.hpp

6.58 plan_path2d Class Reference

plan a 2D path

```
#include <path_planning.hpp>
```

6.58.1 Detailed Description

plan a 2D path

Version

0.6.0

Date

May 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

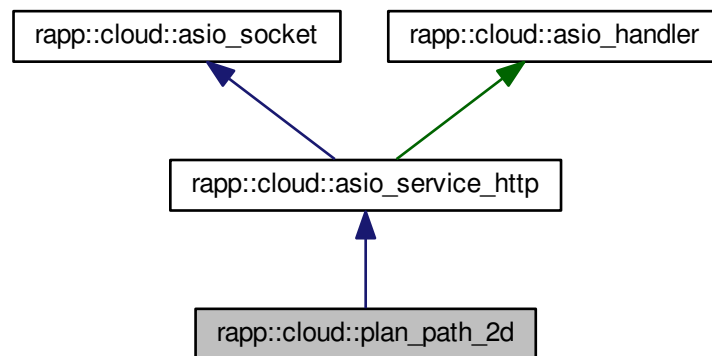
The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/path_planning.hpp`

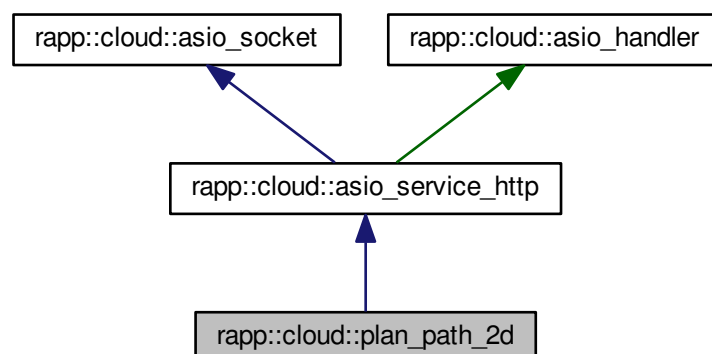
6.59 rapp::cloud::plan_path_2d Class Reference

```
#include <path_planning.hpp>
```

Inheritance diagram for rapp::cloud::plan_path_2d:



Collaboration diagram for rapp::cloud::plan_path_2d:



Public Types

- typedef
`rapp::object::microphone_wav wav_file`

Public Member Functions

- `plan_path_d2` (const std::string map_name, const std::string robot_type, const std::string algorithm, std::function< void(std::unique_ptr< `wav_file` >)> callback, const std::string token)

Private Member Functions

- void `handle_reply` (std::string json)
handle platform's JSON reply

Private Attributes

- std::function< void(std::unique_ptr< `wav_file` > wav)> `delegate_`

Additional Inherited Members

6.59.1 Detailed Description

Definition at line 13 of file path_planning.hpp.

6.59.2 Member Typedef Documentation

6.59.2.1 typedef rapp::object::microphone_wav rapp::cloud::plan_path_2d::wav_file

Definition at line 16 of file path_planning.hpp.

6.59.3 Member Function Documentation

6.59.3.1 void rapp::cloud::plan_path_2d::handle_reply (std::string json) [private]

handle platform's JSON reply

Definition at line 45 of file path_planning.hpp.

6.59.3.2 rapp::cloud::plan_path_2d::plan_path_d2 (const std::string map_name, const std::string robot_type, const std::string algorithm, std::function< void(std::unique_ptr< wav_file >)> callback, const std::string token)

Parameters

<code>param</code>	will receive the speech audio object
--------------------	--------------------------------------

Definition at line 22 of file path_planning.hpp.

6.59.4 Member Data Documentation

6.59.4.1 `std::function<void(std::unique_ptr<wav_file> wav)> rapp::cloud::plan_path_2d::delegate_` [private]

Definition at line 79 of file `path_planning.hpp`.

The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/path_planning.hpp`

6.60 rapp::object::qr_code Class Reference

```
#include <qr_code.hpp>
```

Public Member Functions

- `qr_code` (float `centre_x`, float `centre_y`, std::string `label`)
Construct using code coordinates (a rectangle) and a label (URL, email, string, etc)
- `qr_code` ()=default
Allow Empty Constructor.
- `qr_code` (const `qr_code` &)=default
Copy Constructor.
- `std::string label` () const
Get the qr Label.
- `bool operator==` (const `qr_code` &rhs) const

Private Attributes

- float `centre_x__` = -1
- float `centre_y__` = -1
- std::string `message__`

6.60.1 Detailed Description

Definition at line 13 of file `qr_code.hpp`.

6.60.2 Constructor & Destructor Documentation

6.60.2.1 `rapp::object::qr_code::qr_code (float centre_x, float centre_y, std::string label)`

Construct using code coordinates (a rectangle) and a label (URL, email, string, etc)

Parameters

<code>centre_x</code>	is coordinate
<code>centre_y</code>	is coordinate
<code>label</code>	is message embedded in QR

Definition at line 22 of file `qr_code.hpp`.

6.60.2.2 `rapp::object::qr_code::qr_code ()` [default]

Allow Empty Constructor.

6.60.2.3 `rapp::object::qr_code::qr_code (const qr_code &) [default]`

Copy Conatructor.

6.60.3 Member Function Documentation

6.60.3.1 `std::string rapp::object::qr_code::label () const`

Get the qr Label.

Definition at line 48 of file `qr_code.hpp`.

6.60.3.2 `bool rapp::object::qr_code::operator== (const qr_code & rhs) const`

Equality operator

Note

the message is case insensitively compared

Definition at line 42 of file `qr_code.hpp`.

6.60.4 Member Data Documentation

6.60.4.1 `float rapp::object::qr_code::centre_x__ = -1 [private]`

Definition at line 54 of file `qr_code.hpp`.

6.60.4.2 `float rapp::object::qr_code::centre_y__ = -1 [private]`

Definition at line 55 of file `qr_code.hpp`.

6.60.4.3 `std::string rapp::object::qr_code::message__ [private]`

Definition at line 56 of file `qr_code.hpp`.

The documentation for this class was generated from the following file:

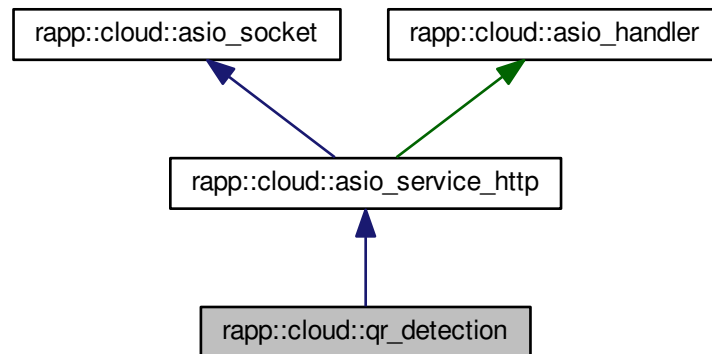
- `/home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/qr_code.hpp`

6.61 rapp::cloud::qr_detection Class Reference

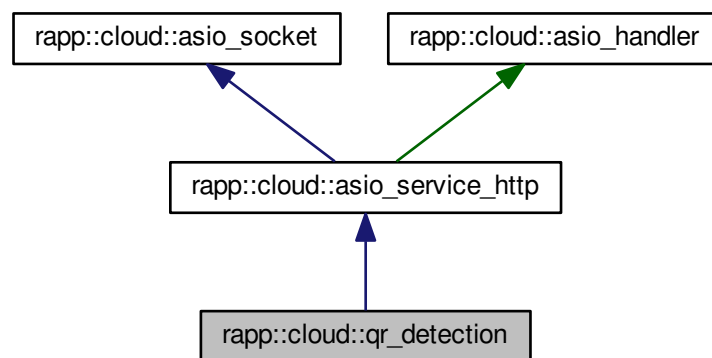
Asynchronous Service which will request the cloud to detect QR codes.

```
#include <qr_detection.hpp>
```

Inheritance diagram for rapp::cloud::qr_detection:



Collaboration diagram for rapp::cloud::qr_detection:



Public Member Functions

- `qr_detection` (const std::shared_ptr< rapp::object::picture > image, const std::string token, std::function< void(std::vector< rapp::object::qr_code >)> callback)

Constructor.

Private Member Functions

- void `handle_reply` (std::string json)

handle the rapp-platform JSON reply

Private Attributes

- `std::function< void(std::vector< rapp::object::qr_code >)> delegate__`

The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.61.1 Detailed Description

Asynchronous Service which will request the cloud to detect QR codes.

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file `qr_detection.hpp`.

6.61.2 Constructor & Destructor Documentation

6.61.2.1 `rapp::cloud::qr_detection::qr_detection (const std::shared_ptr< rapp::object::picture > image, const std::string token, std::function< void(std::vector< rapp::object::qr_code >)> callback)`

Constructor.

Parameters

<i>image</i>	is a picture object pointer
<i>callback</i>	is the function that will receive a vector of detected qr(s)
<i>image_format</i>	must be defined, e.g.: jpeg, png, gif, etc.

Definition at line 22 of file `qr_detection.hpp`.

6.61.3 Member Function Documentation

6.61.3.1 `void rapp::cloud::qr_detection::handle_reply (std::string json) [private]`

handle the rapp-platform JSON reply

Definition at line 57 of file `qr_detection.hpp`.

6.61.4 Member Data Documentation

6.61.4.1 `std::function<void(std::vector<rapp::object::qr_code>)> rapp::cloud::qr_detection::delegate__`
[private]

The callback called upon completion of receiving the detected faces.

Definition at line 98 of file qr_detection.hpp.

The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/qr_detection/[qr_detection.hpp](#)

6.62 qrCode Class Reference

class which should encapsulate a QR code

```
#include <qr_code.hpp>
```

6.62.1 Detailed Description

class which should encapsulate a QR code

Version

1

Date

13-February-2015

Author

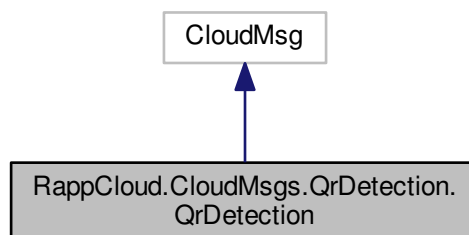
Alex Gkiokas a.gkiokas@ortelio.co.uk

The documentation for this class was generated from the following file:

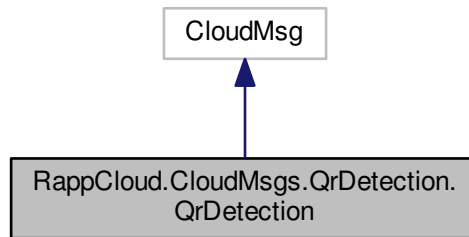
- /home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/[qr_code.hpp](#)

6.63 RappCloud.CloudMsgs.QrDetection.QrDetection Class Reference

Inheritance diagram for RappCloud.CloudMsgs.QrDetection.QrDetection:



Collaboration diagram for RappCloud.CloudMsgs.QrDetection.QrDetection:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.63.1 Detailed Description

Qr Detection Cloud Message object

Definition at line 11 of file QrDetection.py.

6.63.2 Constructor & Destructor Documentation

6.63.2.1 def RappCloud.CloudMsgs.QrDetection.QrDetection.__init__(self, kwargs)

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.imageFilePath
------------------------------	--

Definition at line 60 of file QrDetection.py.

6.63.3 Member Data Documentation

6.63.3.1 RappCloud.CloudMsgs.QrDetection.QrDetection.req

Definition at line 69 of file QrDetection.py.

6.63.3.2 RappCloud.CloudMsgs.QrDetection.QrDetection.resp

Definition at line 71 of file QrDetection.py.

The documentation for this class was generated from the following file:

- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py](#)

6.64 RappCloud.Utills.RandStrGen.RandStrGen Class Reference

Static Public Member Functions

- [def create](#)

Generate a nwe random string.

6.64.1 Detailed Description

Random String Generator static class (Namespace).

Generates random string boundaries.

Definition at line 34 of file RandStrGen.py.

6.64.2 Member Function Documentation

6.64.2.1 `def RappCloud.Utills.RandStrGen.RandStrGen.create (size) [static]`

Generate a nwe random string.

Parameters

<i>size</i>	string - Number of characters for the random string to generate
-------------	---

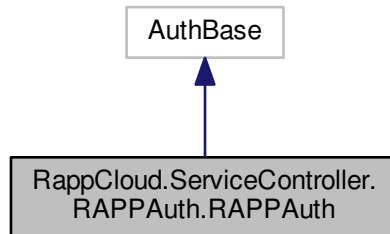
Definition at line 41 of file RandStrGen.py.

The documentation for this class was generated from the following file:

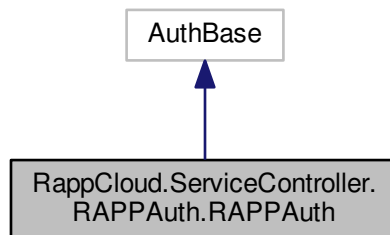
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/Utills/RandStrGen.py](#)

6.65 RappCloud.ServiceController.RAPPAuth.RAPPAuth Class Reference

Inheritance diagram for RappCloud.ServiceController.RAPPAuth.RAPPAuth:



Collaboration diagram for RappCloud.ServiceController.RAPPAuth.RAPPAuth:



Public Member Functions

- [def __init__](#)
Constructor.
- [def __call__](#)
Append the application token to the HTTP application protocol header.

Private Member Functions

- [def __load_token](#)
Load the RAPP Platform authentication token.
- [def __read_token_from_file](#)
Read and token string stored in a file.

Private Attributes

- [_token](#)
- [_tokenStoreDir](#)

6.65.1 Detailed Description

RAPP Authentication Class

Implements the RAPP Authentication mechanism for Platform requests.

Definition at line 34 of file RAPPAuth.py.

6.65.2 Constructor & Destructor Documentation

6.65.2.1 `def RappCloud.ServiceController.RAPPAuth.RAPPAuth.__init__(self, token = "", svcname = "")`

Constructor.

Parameters

<i>string</i>	token
<i>string</i>	svcname - The service/application name.

Definition at line 40 of file RAPPAuth.py.

6.65.3 Member Function Documentation

6.65.3.1 `def RappCloud.ServiceController.RAPPAuth.RAPPAuth.__call__(self, r)`

Append the application token to the HTTP application protocol header.

Modify the request object. Append token string to the Accept-Token field of the request header.

Definition at line 55 of file RAPPAuth.py.

6.65.3.2 `def RappCloud.ServiceController.RAPPAuth.RAPPAuth.__load_token(self, svcname = "")` [private]

Load the RAPP Platform authentication token.

Currently only one application token exists, giving access to all the RAPP Platform services!!

Definition at line 65 of file RAPPAuth.py.

6.65.3.3 `def RappCloud.ServiceController.RAPPAuth.RAPPAuth.__read_token_from_file(self, filepath)` [private]

Read and token string stored in a file.

Parameters

<i>filepath</i>	string - The token file path.
-----------------	-------------------------------

Definition at line 75 of file RAPPAuth.py.

6.65.4 Member Data Documentation

6.65.4.1 `RappCloud.ServiceController.RAPPAuth.RAPPAuth._token` [private]

Definition at line 50 of file `RAPPAuth.py`.

6.65.4.2 `RappCloud.ServiceController.RAPPAuth.RAPPAuth._tokenStoreDir` [private]

Definition at line 47 of file `RAPPAuth.py`.

The documentation for this class was generated from the following file:

- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/RAPPAuth.py`

6.66 `RappCloud.RappPlatformApi.RappPlatformAPI` Class Reference

Public Member Functions

- def `__init__`
- def `cognitiveExerciseSelect`
Cognitive Exercise selection (chooser) API service call.
- def `cognitiveGetHistory`
Gognitive get history records API service call.
- def `cognitiveGetScores`
Gognitive get score records API service call.
- def `cognitiveRecordPerformance`
Gognitive record performance of an exercise API service call.
- def `emailFetch`
Email fetch API service call.
- def `emailSend`
Email fetch API service call.
- def `faceDetection`
Face detection API service call.
- def `geolocation`
Geolocation API service call.
- def `hazardDetectionDoor`
Hazard detection door check API service call.
- def `hazardDetectionLights`
Hazard detection light check API service call.
- def `humanDetection`
Human detection API service call.
- def `newsExplore`
News Explorer API service call.
- def `objectRecognitionCaffe`
Object Recognition Caffe API service call.
- def `ontologyIsSubsuperclass`
Ontology is-superclass-of API service call.
- def `ontologySubclasses`
Ontology subclasses-of API service call.
- def `ontologySuperclasses`
Ontology superclasses-of API service call.
- def `pathPlanningPlan2D`
Path planning plan path 2D API service call.

- def [pathPlanningUploadMap](#)
Path planning upload map API service call.
- def [qrDetection](#)
QR code detection API service call.
- def [setNoiseProfile](#)
Set Noise Profile API service call.
- def [speechRecognitionGoogle](#)
Speech recognition Google API service call.
- def [speechRecognitionSphinx](#)
Speech recognition Sphinx API service call.
- def [textToSpeech](#)
Text to Speech API service call.
- def [weatherReportCurrent](#)
Weather report current API service call.
- def [weatherReportForecast](#)
Weather report forecast API service call.

Public Attributes

- [svc_caller](#)

6.66.1 Detailed Description

RAPP Platform simple API implementation

Definition at line 57 of file RappPlatformApi.py.

6.66.2 Constructor & Destructor Documentation

6.66.2.1 `def RappCloud.RappPlatformApi.RappPlatformAPI.__init__(self)`

Definition at line 59 of file RappPlatformApi.py.

6.66.3 Member Function Documentation

6.66.3.1 `def RappCloud.RappPlatformApi.RappPlatformAPI.cognitiveExerciseSelect(self, test_type = "", test_subtype = "", test_diff = -1, test_index = -1)`

Cognitive Exercise selection (chooser) API service call.

test_type: string

Parameters

<i>test_type</i>	Cognitive Exercise test type. Defaults to empty.
------------------	--

test_subtype: string

Parameters

<i>test_subtype</i>	Force exercise selection from this subtype. Defaults to empty.
---------------------	--

test_diff: int

Parameters

<i>test_diff</i>	Force exercise selection from this difficulty. Defaults to empty.
------------------	---

test_index: int

Parameters

<i>test_diff</i>	Force exercise selection from this difficulty. Defaults to empty.
------------------	---

: dict

Returns

: Returns a dictionary of the service call response.

Definition at line 373 of file RappPlatformApi.py.

6.66.3.2 `def RappCloud.RappPlatformApi.RappPlatformAPI.cognitiveGetHistory (self, test_type = "", time_from = 0, time_to = 0)`

Cognitive get history records API service call.

test_type: string

Parameters

<i>test_type</i>	Cognitive Exercise test type. Defaults to empty.
------------------	--

time_from: int

Parameters

<i>time_from</i>	Retrieve history records from this timestamp value. Unix timestamp. Defaults to zero (0).
------------------	---

time_to: int

Parameters

<i>time_from</i>	Retrieve history records up to this timestamp value. Unix timestamp. Defaults to zero (0).
------------------	--

: dict

Returns

: Returns a dictionary of the service call response. {'records': {}, 'error': ""}

Definition at line 415 of file RappPlatformApi.py.

6.66.3.3 `def RappCloud.RappPlatformApi.RappPlatformAPI.cognitiveGetScores (self, test_type = "", time_to = 0)`

Cognitive get score records API service call.

test_type: string

Parameters

<i>test_type</i>	Cognitive Exercise test type. Defaults to empty.
------------------	--

time_to: int

Parameters

<i>time_from</i>	Retrieve score records up to this timestamp value. Unix timestamp. Defaults to zero (0).
------------------	--

: dict

Returns

: Returns a dictionary of the service call response. {'test_classes': [], 'scores': [], 'error': ""}

Definition at line 446 of file RappPlatformApi.py.

6.66.3.4 `def RappCloud.RappPlatformApi.RappPlatformAPI.cognitiveRecordPerformance (self, test_instance, score)`

Cognitive record performance of an exercise API service call.

test_instance: string

Parameters

<i>test_instance</i>	Performed cognitive exercise test instance. The full cognitive test entry name as obtained from CognitiveExerciseSelect API service call
----------------------	--

: dict

Returns

: Returns a dictionary of the service call response. {'performance_entry': "", 'error': ""}

Definition at line 473 of file RappPlatformApi.py.

6.66.3.5 `def RappCloud.RappPlatformApi.RappPlatformAPI.emailFetch (self, email, password, server, port, date_from, date_to, email_status = 'UNSEEN', num_emails = 1)`

Email fetch API service call.

email: string

Parameters

<i>email</i>	User's email username
--------------	-----------------------

password: string

Parameters

<i>password</i>	User's email password
-----------------	-----------------------

server: string

Parameters

<i>server</i>	The email provider imap address.
---------------	----------------------------------

port: string

Parameters

<i>port</i>	The email provider imap port.
-------------	-------------------------------

date_from: int

Parameters

<i>date_from</i>	Fetch emails since this timestamp value. Unix timestamp.
------------------	--

date_to: int

Parameters

<i>date_to</i>	Fetch emails up to this timestamp value. Unix timestamp.
----------------	--

email_status: string

Parameters

<i>email_status</i>	Email status (ALL, UNSEEN). Defaults to 'UNSEEN'
---------------------	--

num_emails: int

Parameters

<i>num_emails</i>	Maximum number of emails to fetch.
-------------------	------------------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'emails': [], 'error': ''}

Definition at line 498 of file RappPlatformApi.py.

6.66.3.6 `def RappCloud.RappPlatformApi.RappPlatformAPI.emailSend (self, email, password, server, port, recipients, body, subject, attach_file = "")`

Email fetch API service call.

email: string

Parameters

<i>email</i>	User's email username
--------------	-----------------------

password: string

Parameters

<i>password</i>	User's email password
-----------------	-----------------------

server: string

Parameters

<i>server</i>	The email provider imap address.
---------------	----------------------------------

port: string

Parameters

<i>port</i>	The email provider imap port.
-------------	-------------------------------

recipients: list

Parameters

<i>recipients</i>	List of recipients email addresses.
-------------------	-------------------------------------

body: string

Parameters

<i>body</i>	The body of the email.
-------------	------------------------

subject: string

Parameters

<i>subject</i>	The email subject.
----------------	--------------------

attach_file: string

Parameters

<i>attach_file</i>	Attachment file (path). Attachment file can be a .zip file containing multiple attachment files for the email to send
--------------------	---

: dict

Returns

: Returns a dictionary of the service call response. {'error': ''}

Definition at line 550 of file RappPlatformApi.py.

6.66.3.7 `def RappCloud.RappPlatformApi.RappPlatformAPI.faceDetection (self, imagePath, fast=False)`

Face detection API service call.

imageFilepath: string

Parameters

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

fast: bool

Parameters

<i>fast</i>	Perform fast detection. If true, detection will take less time but it will be less accurate.
-------------	--

: dict

Returns

: Returns a dictionary of the service call response. {'faces': [], 'error': ''}

Definition at line 62 of file RappPlatformApi.py.

6.66.3.8 `def RappCloud.RappPlatformApi.RappPlatformAPI.geolocation (self, ipaddr, engine='ip-api')`

Geolocation API service call.

ipaddr: string

Parameters

<i>ipaddr</i>	The machine's ipv4 address.
---------------	-----------------------------

engine: string

Parameters

<i>engine</i>	Engine to use. Defaults to 'ip-api'.
---------------	--------------------------------------

: dict

Returns

: Returns a dictionary of the service call response.

Definition at line 810 of file RappPlatformApi.py.

6.66.3.9 `def RappCloud.RappPlatformApi.RappPlatformAPI.hazardDetectionDoor (self, imagePath)`

Hazard detection door check API service call.

imageFilepath: string

Parameters

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'door_angle': 0.0, 'error': ''}

Definition at line 131 of file RappPlatformApi.py.

6.66.3.10 `def RappCloud.RappPlatformApi.RappPlatformAPI.hazardDetectionLights (self, imageFilepath)`

Hazard detection light check API service call.

`imageFilepath`: string

Parameters

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'light_level': 0, 'error': ''}

Definition at line 152 of file RappPlatformApi.py.

6.66.3.11 def RappCloud.RappPlatformApi.RappPlatformAPI.humanDetection (self, imageFilepath)

Human detection API service call.

imageFilepath: string

Parameters

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'humans': [], 'error': ''}

Definition at line 109 of file RappPlatformApi.py.

6.66.3.12 def RappCloud.RappPlatformApi.RappPlatformAPI.newsExplore (self, keywords, region = "", topic = "", news_engine = "", num_news = 1, exclude_titles = [])

News Explorer API service call.

keywords: list

Parameters

<i>keywords</i>	Desired keywords.
-----------------	-------------------

region: string

Parameters

<i>region</i>	language/region
---------------	-----------------

topic: string

Parameters

<i>topic</i>	Main topic. e.g. 'sports', 'politics', etc
--------------	--

news_engine: string

Parameters

<i>news_engine</i>	The news search engine to use. Optional
--------------------	---

num_news: string

Parameters

<i>num_news</i>	Number of news stories to request.
-----------------	------------------------------------

exclude_titles: list

Parameters

<i>exclude_titles</i>	Exclude these titles
-----------------------	----------------------

: dict

Returns

: Returns a dictionary of the service call response. {'news_stories': [], 'error': ''}

Definition at line 769 of file RappPlatformApi.py.

6.66.3.13 `def RappCloud.RappPlatformApi.RappPlatformAPI.objectRecognitionCaffe (self, imageFilepath)`

Object Recognition Caffe API service call.

imageFilepath: string

Parameters

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'object_class': '', 'error': ''}

Definition at line 173 of file RappPlatformApi.py.

6.66.3.14 `def RappCloud.RappPlatformApi.RappPlatformAPI.ontologyIsSubsuperclass (self, parent_class, child_class, recursive=False)`

Ontology is-supsuperclass-of API service call.

parent_class: string

Parameters

<i>parent_class</i>	The ontology parent class name.
---------------------	---------------------------------

child_class: string

Parameters

<i>child_class</i>	The ontology child class name.
--------------------	--------------------------------

recursive: bool

Parameters

<i>recursive</i>	Recursive search. Defaults to False.
------------------	--------------------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'result': False, 'error': ''}

Definition at line 343 of file RappPlatformApi.py.

6.66.3.15 `def RappCloud.RappPlatformApi.RappPlatformAPI.ontologySubclasses (self, ontology_class, recursive=False)`

Ontology subclasses-of API service call.

ontology_class: string

Parameters

<i>ontology_class</i>	The ontology class.
-----------------------	---------------------

recursive: bool

Parameters

<i>recursive</i>	Recursive search. Defaults to False.
------------------	--------------------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'results': [], 'error': ''}

Definition at line 293 of file RappPlatformApi.py.

```
6.66.3.16 def RappCloud.RappPlatformApi.RappPlatformAPI.ontologySuperclasses ( self, ontology_class, recursive =
False )
```

Ontology superclasses-of API service call.

ontology_class: string

Parameters

<i>ontology_class</i>	The ontology class.
-----------------------	---------------------

recursive: bool

Parameters

<i>recursive</i>	Recursive search. Defaults to False.
------------------	--------------------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'results': [], 'error': ''}

Definition at line 318 of file RappPlatformApi.py.

```
6.66.3.17 def RappCloud.RappPlatformApi.RappPlatformAPI.pathPlanningPlan2D ( self, map_name, robot_type, pose_start,
pose_goal, algorithm = 'dijkstra' )
```

Path planning plan path 2D API service call.

map_name: string

Parameters

<i>map_name</i>	The map name.
-----------------	---------------

robot_type: string

Parameters

<i>robot_type</i>	The robot type. e.g 'NAO'
-------------------	---------------------------

pose_start: dict

Parameters

<i>pose_start</i>	Start pose of the robot.
-------------------	--------------------------

pose_goal: dict

Parameters

<i>pose_goal</i>	Goal pose of the robot.
------------------	-------------------------

algorithm: string

Parameters

<i>algorithm</i>	Path planning algorithm to apply. Defaults to 'dijkstra'
------------------	--

: dict

Returns

: Returns a dictionary of the service call response. {'plan_found': 0, 'path': [], 'error': ''}

Definition at line 670 of file RappPlatformApi.py.

```
6.66.3.18 def RappCloud.RappPlatformApi.RappPlatformAPI.pathPlanningUploadMap ( self, map_name, png_file, yaml_file
)
```

Path planning upload map API service call.

map_name: string

Parameters

<i>map_name</i>	The map name
-----------------	--------------

png_file: string

Parameters

<i>png_file</i>	Path to the map png file
-----------------	--------------------------

yaml_file: string

Parameters

<i>yaml_file</i>	Path to the map descriptor yaml file.
------------------	---------------------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'error': ''}

Definition at line 710 of file RappPlatformApi.py.

```
6.66.3.19 def RappCloud.RappPlatformApi.RappPlatformAPI.qrDetection ( self, imageFilepath )
```

QR code detection API service call.

imageFilepath: string

Parameters

<i>imageFilepath</i>	Path to the image file.
----------------------	-------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'qr_centers': [], 'qr_messages': [], 'error': ''}

Definition at line 87 of file RappPlatformApi.py.

6.66.3.20 `def RappCloud.RappPlatformApi.RappPlatformAPI.setNoiseProfile (self, audiofile, audio_source)`

Set Noise Profile API service call.

`audiofile`: string

Parameters

<i>audiofile</i>	Path to the audio file.
------------------	-------------------------

audio_source: string

Parameters

<i>audio_source</i>	Audio source format. e.g. 'nao_wav_1_ch'
---------------------	--

: dict

Returns

: Returns a dictionary of the service call response. {'error': ''}

Definition at line 194 of file RappPlatformApi.py.

```
6.66.3.21 def RappCloud.RappPlatformApi.RappPlatformAPI.speechRecognitionGoogle ( self, audiofile, audio_source,
        language )
```

Speech recognition Google API service call.

audiofile: string

Parameters

<i>audiofile</i>	Path to the audio file.
------------------	-------------------------

audio_source: string

Parameters

<i>audio_source</i>	Audio source format. e.g. 'nao_wav_1_ch'
---------------------	--

language: string

Parameters

<i>language</i>	Language to use for speech recognition.
-----------------	---

: dict

Returns

: Returns a dictionary of the service call response. {'words': [], 'alternatives': [], 'error': ''}

Definition at line 263 of file RappPlatformApi.py.

```
6.66.3.22 def RappCloud.RappPlatformApi.RappPlatformAPI.speechRecognitionSphinx ( self, audiofile, audio_source,
        language, words, sentences = [], grammar = [] )
```

Speech recognition Sphinx API service call.

audiofile: string

Parameters

<i>audiofile</i>	Path to the audio file.
------------------	-------------------------

audio_source: string

Parameters

<i>audio_source</i>	Audio source format. e.g. 'nao_wav_1_ch'
---------------------	--

language: string

Parameters

<i>language</i>	Language to use for speech recognition.
-----------------	---

words: list

Parameters

<i>words</i>	To recognize words.
--------------	---------------------

sentences: list

Parameters

<i>sentences</i>	Under consideration sentences. Same as words by default.
------------------	--

grammar: list

Parameters

<i>grammar</i>	Grammar to use. Defaults to none.
----------------	-----------------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'words': [], 'error': ''}

Definition at line 219 of file RappPlatformApi.py.

6.66.3.23 def RappCloud.RappPlatformApi.RappPlatformAPI.textToSpeech (self, text, language, audio_file)

Text to Speech API service call.

text: string

Parameters

<i>text</i>	Input text to translate to audio.
-------------	-----------------------------------

language: string

Parameters

<i>language</i>	Text language.
-----------------	----------------

audio_file: string

Parameters

<i>audio_file</i>	File path to store the audio data.
-------------------	------------------------------------

: dict

Returns

: Returns a dictionary of the service call response. {'error': ''}

Definition at line 738 of file RappPlatformApi.py.

6.66.3.24 def RappCloud.RappPlatformApi.RappPlatformAPI.weatherReportCurrent (self, city, weather_reporter = 'forecast.io', metric = 0)

Weather report current API service call.

city: string

Parameters

<i>city</i>	City location.
-------------	----------------

weather_reporter: string

Parameters

<i>weather_reporter</i>	The weather reporter API to use. Defaults to 'forecast.io'
-------------------------	--

metric: int

Parameters

<i>metric</i>	Value units (0:Celcius, 1:Fahrenheit) Defaults to 0 (Celcius)
---------------	---

: dict

Returns

: Returns a dictionary of the service call response.

Definition at line 600 of file RappPlatformApi.py.

```
6.66.3.25 def RappCloud.RappPlatformApi.RappPlatformAPI.weatherReportForecast ( self, city, weather_reporter =
           'forecast.io', metric = 0 )
```

Weather report forecast API service call.

city: string

Parameters

<i>city</i>	City location.
-------------	----------------

weather_reporter: string

Parameters

<i>weather_reporter</i>	The weather reporter API to use. Defaults to 'forecast.io'
-------------------------	--

metric: int

Parameters

<i>metric</i>	Value units (0:Celcius, 1:Fahrenheit) Defaults to 0 (Celcius)
---------------	---

: dict

Returns

: Returns a dictionary of the service call response.

Definition at line 639 of file RappPlatformApi.py.

6.66.4 Member Data Documentation**6.66.4.1 RappCloud.RappPlatformApi.RappPlatformAPI.svc_caller**

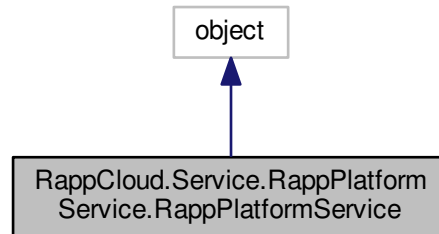
Definition at line 60 of file RappPlatformApi.py.

The documentation for this class was generated from the following file:

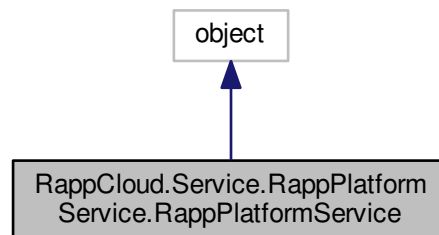
- /home/travis/rapp_temp/rapp-api/python/RappCloud/[RappPlatformApi.py](#)

6.67 RappCloud.Service.RappPlatformService.RappPlatformService Class Reference

Inheritance diagram for RappCloud.Service.RappPlatformService.RappPlatformService:



Collaboration diagram for RappCloud.Service.RappPlatformService.RappPlatformService:



Public Member Functions

- def `__init__`
Constructor.
- def `call`
Call the RAPP Platform [Service](#).
- def `call_async`
Call the RAPP Platform [Service](#).
- def `persistent`
[Service](#) persistent connection value getter.
- def `persistent`
[Service](#) persistent connection value setter.
- def `req`
[Service](#) request object getter.
- def `resp`
[Service](#) response object getter.

- def `resp`
Service response object setter.
- def `timeout`
Service timeout value getter.
- def `timeout`
Service timeout value setter.

Private Member Functions

- def `__load_platform_cfg`
- def `__make_url`
Craft platform service full url path.

Private Attributes

- `__cloudObj`
Cloud Object passed to the `RappPlatformService`.
- `__controller`
Service Controller.
- `__controllerAsync`
- `__persistent`
Persistent connection value (Boolean)
- `__platformParams`
- `__timeout`

6.67.1 Detailed Description

Service class

Definition at line 35 of file `RappPlatformService.py`.

6.67.2 Constructor & Destructor Documentation

6.67.2.1 `def RappCloud.Service.RappPlatformService.RappPlatformService.__init__(self, msg=None, persistent=True, timeout=None, address=None, port=None, protocol=None, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes.
-----------------------	--

Definition at line 40 of file `RappPlatformService.py`.

6.67.3 Member Function Documentation

6.67.3.1 `def RappCloud.Service.RappPlatformService.RappPlatformService.__load_platform_cfg(self) [private]`

Definition at line 153 of file `RappPlatformService.py`.

6.67.3.2 `def RappCloud.Service.RappPlatformService.RappPlatformService._make_url(self, svcUrlName) [private]`

Craft platform service full url path.

Parameters

<i>svcUrlName</i>	string - The service urlname, i.e 'face_detection'
-------------------	--

Returns

string - The full service url path.

Definition at line 114 of file RappPlatformService.py.

6.67.3.3 `def RappCloud.Service.RappPlatformService.RappPlatformService.call (self, msg = None)`

Call the RAPP Platform [Service](#).

Definition at line 127 of file RappPlatformService.py.

6.67.3.4 `def RappCloud.Service.RappPlatformService.RappPlatformService.call_async (self, msg, clb = None)`

Call the RAPP Platform [Service](#).

Definition at line 144 of file RappPlatformService.py.

6.67.3.5 `def RappCloud.Service.RappPlatformService.RappPlatformService.persistent (self)`

[Service](#) persistent connection value getter.

Definition at line 74 of file RappPlatformService.py.

6.67.3.6 `def RappCloud.Service.RappPlatformService.RappPlatformService.persistent (self, val)`

[Service](#) persistent connection value setter.

Definition at line 79 of file RappPlatformService.py.

6.67.3.7 `def RappCloud.Service.RappPlatformService.RappPlatformService.req (self)`

[Service](#) request object getter.

Definition at line 97 of file RappPlatformService.py.

6.67.3.8 `def RappCloud.Service.RappPlatformService.RappPlatformService.resp (self)`

[Service](#) response object getter.

Definition at line 103 of file RappPlatformService.py.

6.67.3.9 `def RappCloud.Service.RappPlatformService.RappPlatformService.resp (self, val)`

[Service](#) response object setter.

Definition at line 109 of file RappPlatformService.py.

6.67.3.10 `def RappCloud.Service.RappPlatformService.RappPlatformService.timeout (self)`

[Service](#) timeout value getter.

Definition at line 85 of file RappPlatformService.py.

6.67.3.11 `def RappCloud.Service.RappPlatformService.RappPlatformService.timeout (self, val)`

[Service](#) timeout value setter.

Definition at line 91 of file `RappPlatformService.py`.

6.67.4 Member Data Documentation

6.67.4.1 `RappCloud.Service.RappPlatformService.RappPlatformService.__cloudObj` `[private]`

Cloud Object passed to the [RappPlatformService](#).

Definition at line 59 of file `RappPlatformService.py`.

6.67.4.2 `RappCloud.Service.RappPlatformService.RappPlatformService.__controller` `[private]`

[Service](#) Controller.

Definition at line 69 of file `RappPlatformService.py`.

6.67.4.3 `RappCloud.Service.RappPlatformService.RappPlatformService.__controllerAsync` `[private]`

Definition at line 70 of file `RappPlatformService.py`.

6.67.4.4 `RappCloud.Service.RappPlatformService.RappPlatformService.__persistent` `[private]`

Persistent connection value (Boolean)

Definition at line 61 of file `RappPlatformService.py`.

6.67.4.5 `RappCloud.Service.RappPlatformService.RappPlatformService.__platformParams` `[private]`

Definition at line 173 of file `RappPlatformService.py`.

6.67.4.6 `RappCloud.Service.RappPlatformService.RappPlatformService.__timeout` `[private]`

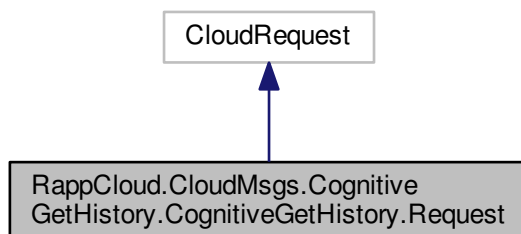
Definition at line 63 of file `RappPlatformService.py`.

The documentation for this class was generated from the following file:

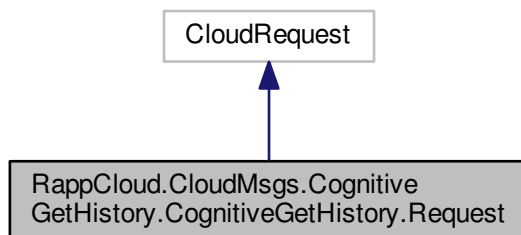
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/Service/RappPlatformService.py`

6.68 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `test_type`
Cognitive Exercise test type.
- `time_from`
Unix timestamp.
- `time_to`
Unix timestamp.

6.68.1 Detailed Description

Cognitive Get History Cloud Request object.

`CognitiveGetHistory.Request`

Definition at line 14 of file `CognitiveGetHistory.py`.

6.68.2 Constructor & Destructor Documentation

6.68.2.1 `def RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • test_type • time_from • time_to
------------------------------	--

Definition at line 19 of file `CognitiveGetHistory.py`.

6.68.3 Member Function Documentation

6.68.3.1 `def RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 52 of file `CognitiveGetHistory.py`.

6.68.3.2 `def RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.make_payload(self)`

Create and return the Payload of the Request.

Definition at line 44 of file `CognitiveGetHistory.py`.

6.68.4 Member Data Documentation

6.68.4.1 `RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.test_type`

Cognitive Exercise test type.

Can be one of:

- 'ArithmeticCts'
- 'AwarenessCts'
- 'ReasoningCts'
- ''

If left empty, history of all test types will be returned.

Definition at line 36 of file `CognitiveGetHistory.py`.

6.68.4.2 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.time_from

Unix timestamp.

Definition at line 38 of file CognitiveGetHistory.py.

6.68.4.3 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request.time_to

Unix timestamp.

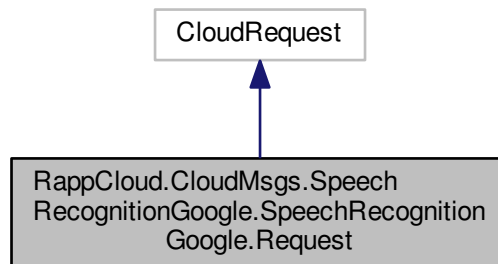
Definition at line 40 of file CognitiveGetHistory.py.

The documentation for this class was generated from the following file:

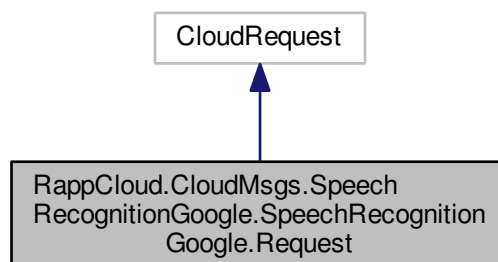
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py](#)

6.69 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `audio_source`
Audio source data format.
- `audiofile`
Path to the audio file.
- `language`
Language to use for recognition.

6.69.1 Detailed Description

Speech Recognition Google Cloud Request object.

`SpeechRecognitionGoogle.Request`

Definition at line 14 of file `SpeechRecognitionGoogle.py`.

6.69.2 Constructor & Destructor Documentation

6.69.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>audio_source</code> • <code>audiofile</code> • <code>language</code>
-----------------------	---

Definition at line 19 of file `SpeechRecognitionGoogle.py`.

6.69.3 Member Function Documentation

6.69.3.1 `def RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 46 of file `SpeechRecognitionGoogle.py`.

6.69.3.2 `def RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.make_payload(self)`

Create and return the Payload of the Request.

Definition at line 39 of file `SpeechRecognitionGoogle.py`.

6.69.4 Member Data Documentation

6.69.4.1 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.audio_source

Audio source data format.

e.g "nao_wav_1_ch".

Definition at line 32 of file SpeechRecognitionGoogle.py.

6.69.4.2 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.audiofile

Path to the audio file.

Definition at line 34 of file SpeechRecognitionGoogle.py.

6.69.4.3 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request.language

Language to use for recognition.

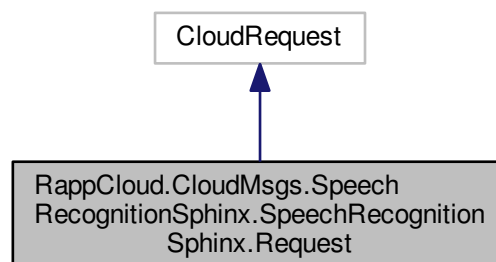
Definition at line 30 of file SpeechRecognitionGoogle.py.

The documentation for this class was generated from the following file:

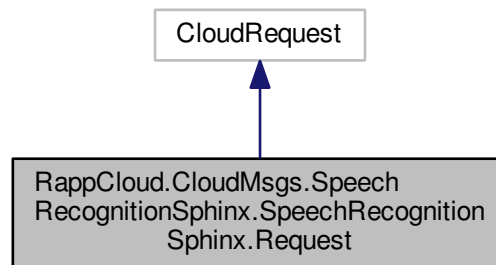
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[SpeechRecognitionGoogle.py](#)

6.70 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.-Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `audio_source`
Audio source data format.
- `audiofile`
Path to the audio file.
- `grammar`
Grammar to use.
- `language`
Language to use for recognition.
- `sentences`
The under consideration sentences.
- `words`
A vector that carries the words to recognize.

6.70.1 Detailed Description

Speech Recognition Sphinx4 Cloud Request object.
SpeechRecognitionSphinx.Request

Definition at line 14 of file SpeechRecognitionSphinx.py.

6.70.2 Constructor & Destructor Documentation

6.70.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.__init__(self, kwargs)`

Constructor.

Parameters

<i>**kwargs</i>	<ul style="list-style-type: none">- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none">• audio_source• audiofile• language• words• sentences• grammar
------------------------	---

Definition at line 18 of file SpeechRecognitionSphinx.py.

6.70.3 Member Function Documentation

6.70.3.1 `def RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.make_files (self)`

Create and return Array of File objects of the Request.

Definition at line 57 of file SpeechRecognitionSphinx.py.

6.70.3.2 `def RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 47 of file SpeechRecognitionSphinx.py.

6.70.4 Member Data Documentation

6.70.4.1 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.audio_source`

Audio source data format.

e.g "nao_wav_1_ch".

Definition at line 34 of file SpeechRecognitionSphinx.py.

6.70.4.2 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.audiofile`

Path to the audio file.

Definition at line 42 of file SpeechRecognitionSphinx.py.

6.70.4.3 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.grammar`

Grammar to use.

Definition at line 40 of file SpeechRecognitionSphinx.py.

6.70.4.4 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.language`

Language to use for recognition.

Definition at line 32 of file SpeechRecognitionSphinx.py.

6.70.4.5 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.sentences

The under consideration sentences.

Definition at line 38 of file SpeechRecognitionSphinx.py.

6.70.4.6 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request.words

A vector that carries the words to recognize.

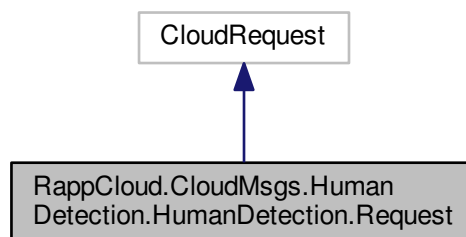
Definition at line 36 of file SpeechRecognitionSphinx.py.

The documentation for this class was generated from the following file:

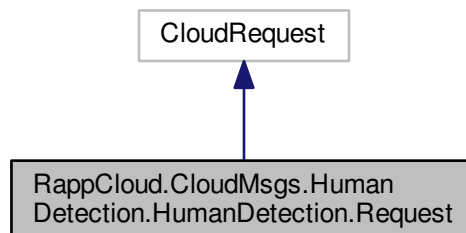
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[SpeechRecognitionSphinx.py](#)

6.71 RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request:



Collaboration diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `imageFilepath`
File path to the image to load.

6.71.1 Detailed Description

Human Detection Cloud Request object. `HumanDetection.Request`

Definition at line 14 of file `HumanDetection.py`.

6.71.2 Constructor & Destructor Documentation

6.71.2.1 `def RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. • <code>imageFilepath</code>
------------------------------	--

Definition at line 16 of file `HumanDetection.py`.

6.71.3 Member Function Documentation

6.71.3.1 `def RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 34 of file `HumanDetection.py`.

6.71.3.2 `def RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request.make_payload(self)`

Create and return the Payload of the Request.

Definition at line 29 of file `HumanDetection.py`.

6.71.4 Member Data Documentation

6.71.4.1 `RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request.imageFilepath`

File path to the image to load.

This is the image to perform qr-detection on.

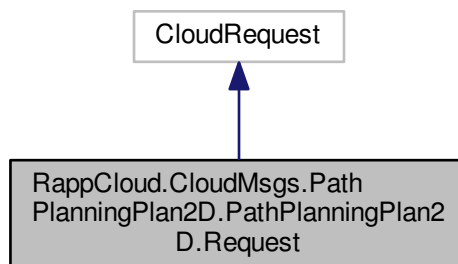
Definition at line 25 of file HumanDetection.py.

The documentation for this class was generated from the following file:

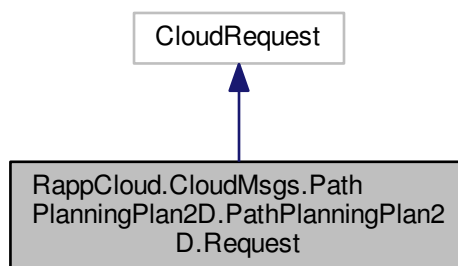
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HumanDetection.py](#)

6.72 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request:



Collaboration diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request:



Public Member Functions

- [def __init__](#)
Constructor.
- [def make_files](#)
- [def make_payload](#)

Public Attributes

- [algorithm](#)
The path planning algorithm to apply.
- [map_name](#)
The map name.
- [pose_goal](#)
Goal pose of the robot.
- [pose_start](#)
Start pose of the robot.
- [robot_type](#)
The robot type.

6.72.1 Detailed Description

Path Planning Plan 2D Cloud Request object.

`PathPlanningPlan2D.Request`

Definition at line 18 of file `PathPlanningPlan2D.py`.

6.72.2 Constructor & Destructor Documentation

6.72.2.1 `def RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • map_name • robot_type • algorithm • pose_start • pose_goal
------------------------------	---

Definition at line 23 of file `PathPlanningPlan2D.py`.

6.72.3 Member Function Documentation

6.72.3.1 `def RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 62 of file `PathPlanningPlan2D.py`.

6.72.3.2 `def RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.make_payload(self)`

Create and return the Payload of the Request.

Definition at line 51 of file `PathPlanningPlan2D.py`.

6.72.4 Member Data Documentation

6.72.4.1 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.algorithm

The path planning algorithm to apply.

Definition at line 41 of file PathPlanningPlan2D.py.

6.72.4.2 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.map_name

The map name.

Definition at line 36 of file PathPlanningPlan2D.py.

6.72.4.3 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.pose_goal

Goal pose of the robot.

Same structure to ROS-GeometryMsgs/PoseStamped

Definition at line 47 of file PathPlanningPlan2D.py.

6.72.4.4 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.pose_start

Start pose of the robot.

Same structure to ROS-GeometryMsgs/PoseStamped

Definition at line 44 of file PathPlanningPlan2D.py.

6.72.4.5 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request.robot_type

The robot type.

It is required to determine it's parameters (footprint etc.)

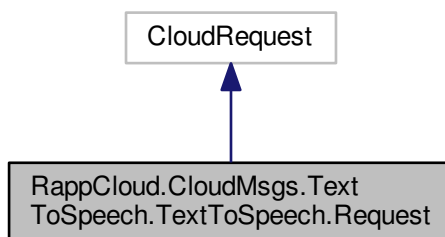
Definition at line 39 of file PathPlanningPlan2D.py.

The documentation for this class was generated from the following file:

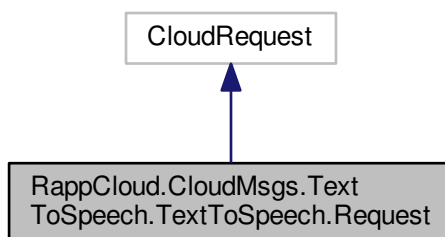
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[PathPlanningPlan2D.py](#)

6.73 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request:



Collaboration diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `language`
Language to use for translation.
- `text`
Input text to translate to audio data.

6.73.1 Detailed Description

Text-To-Speech (TTS) Cloud Request object.

`TextToSpeech.Request`

Definition at line 17 of file `TextToSpeech.py`.

6.73.2 Constructor & Destructor Documentation

6.73.2.1 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • text • language
------------------------------	---

Definition at line 22 of file `TextToSpeech.py`.

6.73.3 Member Function Documentation

6.73.3.1 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 50 of file `TextToSpeech.py`.

6.73.3.2 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request.make_payload(self)`

Create and return the Payload of the Request.

Definition at line 41 of file `TextToSpeech.py`.

6.73.4 Member Data Documentation

6.73.4.1 `RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request.language`

Language to use for translation.

Valid values are currently:

- 'el'
- 'en'

Definition at line 37 of file `TextToSpeech.py`.

6.73.4.2 `RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request.text`

Input text to translate to audio data.

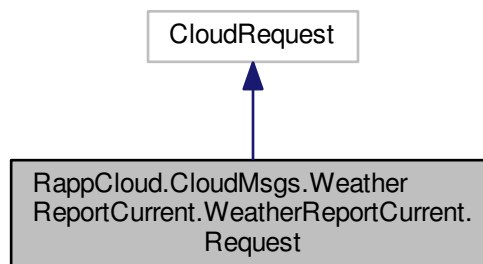
Definition at line 32 of file TextToSpeech.py.

The documentation for this class was generated from the following file:

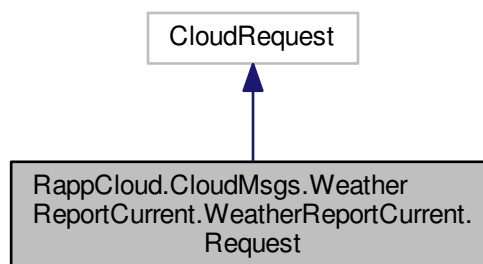
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py](#)

6.74 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request:



Public Member Functions

- [def __init__](#)
Constructor.
- [def make_files](#)
- [def make_payload](#)

Public Attributes

- [city](#)
The desired city.
- [metric](#)
The return value units.
- [weather_reporter](#)
The weather API to use.

6.74.1 Detailed Description

Weather Report Current Cloud Request object.

WeatherReportCurrent.Request

Definition at line 14 of file WeatherReportCurrent.py.

6.74.2 Constructor & Destructor Documentation

6.74.2.1 `def RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • city • weather_reporter • metric
------------------------------	---

Definition at line 19 of file WeatherReportCurrent.py.

6.74.3 Member Function Documentation

6.74.3.1 `def RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 47 of file WeatherReportCurrent.py.

6.74.3.2 `def RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.make_payload(self)`

Create and return the Payload of the Request.

Definition at line 38 of file WeatherReportCurrent.py.

6.74.4 Member Data Documentation

6.74.4.1 `RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.city`

The desired city.

Definition at line 30 of file WeatherReportCurrent.py.

6.74.4.2 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.metric

The return value units.

Definition at line 34 of file WeatherReportCurrent.py.

6.74.4.3 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request.weather_reporter

The weather API to use.

Defaults to "yweather" .

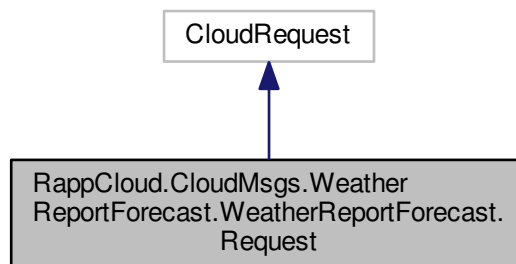
Definition at line 32 of file WeatherReportCurrent.py.

The documentation for this class was generated from the following file:

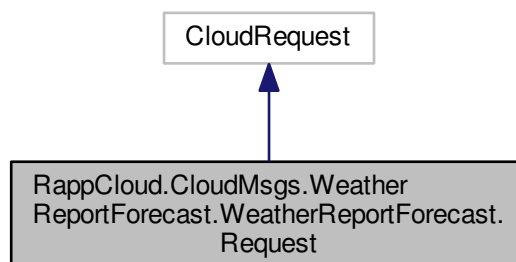
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[WeatherReportCurrent.py](#)

6.75 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `city`
The desired city.
- `metric`
The return value units.
- `weather_reporter`
The weather API to use.

6.75.1 Detailed Description

Weather Report Forecast Cloud Request object.

`WeatherReportForecast.Request`

Definition at line 14 of file `WeatherReportForecast.py`.

6.75.2 Constructor & Destructor Documentation

6.75.2.1 `def RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>city</code> • <code>weather_reporter</code> • <code>metric</code>
------------------------------	--

Definition at line 19 of file `WeatherReportForecast.py`.

6.75.3 Member Function Documentation

6.75.3.1 `def RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 47 of file `WeatherReportForecast.py`.

6.75.3.2 `def RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.make_payload(self)`

Create and return the Payload of the Request.

Definition at line 38 of file `WeatherReportForecast.py`.

6.75.4 Member Data Documentation

6.75.4.1 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.city

The desired city.

Definition at line 30 of file WeatherReportForecast.py.

6.75.4.2 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.metric

The return value units.

Definition at line 34 of file WeatherReportForecast.py.

6.75.4.3 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request.weather_reporter

The weather API to use.

Defaults to "yweather" .

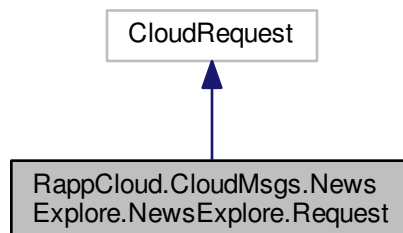
Definition at line 32 of file WeatherReportForecast.py.

The documentation for this class was generated from the following file:

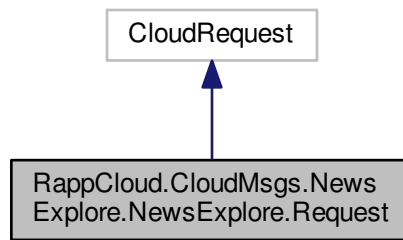
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[WeatherReportForecast.py](#)

6.76 RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request:



Collaboration diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `exclude_titles`
Reject list of previously read articles, in order to avoid duplicates.
- `keywords`
Desired keywords.
- `news_engine`
The news search engine to use.
- `num_news`
Number of news stories.
- `region`
Language/Region.
- `topic`
Main topics, i.e.

6.76.1 Detailed Description

News Explore Cloud Request object.

NewsExplore.Request

Definition at line 14 of file NewsExplore.py.

6.76.2 Constructor & Destructor Documentation

6.76.2.1 `def RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • news_engine • keywords • exclude_titles • region • topic • num_news
------------------------------	---

Definition at line 19 of file NewsExplore.py.

6.76.3 Member Function Documentation

6.76.3.1 `def RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.make_files (self)`

Create and return Array of File objects of the Request.

Definition at line 59 of file NewsExplore.py.

6.76.3.2 `def RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 48 of file NewsExplore.py.

6.76.4 Member Data Documentation

6.76.4.1 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.exclude_titles`

Reject list of previously read articles, in order to avoid duplicates.

Definition at line 37 of file NewsExplore.py.

6.76.4.2 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.keywords`

Desired keywords.

Definition at line 35 of file NewsExplore.py.

6.76.4.3 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.news_engine`

The news search engine to use.

Definition at line 33 of file NewsExplore.py.

6.76.4.4 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.num_news`

Number of news stories.

Definition at line 43 of file NewsExplore.py.

6.76.4.5 RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.region

Language/Region.

Definition at line 39 of file NewsExplore.py.

6.76.4.6 RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request.topic

Main topics, i.e.

sports, politics, etc.

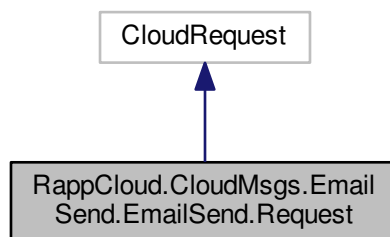
Definition at line 41 of file NewsExplore.py.

The documentation for this class was generated from the following file:

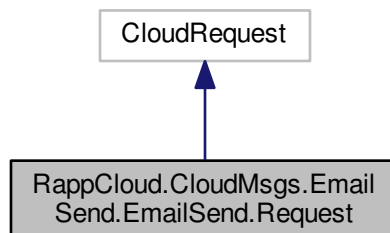
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py](#)

6.77 RappCloud.CloudMsgs.EmailSend.EmailSend.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailSend.EmailSend.Request:



Collaboration diagram for RappCloud.CloudMsgs.EmailSend.EmailSend.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `attach_file`
Attachment file path.
- `body`
The email body.
- `email`
The user's email username.
- `password`
The user's email password.
- `port`
The email server imap port.
- `recipients`
Email addresses of the recipients.
- `server`
The email server's smtp address, i.e.
- `subject`
The email subject.

6.77.1 Detailed Description

Email Send Cloud Request object.

EmailSend.Request

Definition at line 14 of file EmailSend.py.

6.77.2 Constructor & Destructor Documentation

6.77.2.1 `def RappCloud.CloudMsgs.EmailSend.EmailSend.Request.__init__(self, kwargs)`

Constructor.

Parameters

<i>**kwargs</i>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • email • password • server • port • recipients • body • subject • attach_file
------------------------	--

Definition at line 19 of file EmailSend.py.

6.77.3 Member Function Documentation**6.77.3.1 `def RappCloud.CloudMsgs.EmailSend.EmailSend.Request.make_files (self)`**

Create and return Array of File objects of the Request.

Definition at line 67 of file EmailSend.py.

6.77.3.2 `def RappCloud.CloudMsgs.EmailSend.EmailSend.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 54 of file EmailSend.py.

6.77.4 Member Data Documentation**6.77.4.1 `RappCloud.CloudMsgs.EmailSend.EmailSend.Request.attach_file`**

Attachment file path.

Can be a .zip file that will be decompressed on the server.

Definition at line 49 of file EmailSend.py.

6.77.4.2 `RappCloud.CloudMsgs.EmailSend.EmailSend.Request.body`

The email body.

Definition at line 45 of file EmailSend.py.

6.77.4.3 `RappCloud.CloudMsgs.EmailSend.EmailSend.Request.email`

The user's email username.

Definition at line 35 of file EmailSend.py.

6.77.4.4 RappCloud.CloudMsgs.EmailSend.EmailSend.Request.password

The user's email password.

Definition at line 37 of file EmailSend.py.

6.77.4.5 RappCloud.CloudMsgs.EmailSend.EmailSend.Request.port

The email server imap port.

Leave empty to use default value.

Definition at line 41 of file EmailSend.py.

6.77.4.6 RappCloud.CloudMsgs.EmailSend.EmailSend.Request.recipients

Email addresses of the recipients.

Definition at line 43 of file EmailSend.py.

6.77.4.7 RappCloud.CloudMsgs.EmailSend.EmailSend.Request.server

The email server's smtp address, i.e.

'smtp.gmail.com'

Definition at line 39 of file EmailSend.py.

6.77.4.8 RappCloud.CloudMsgs.EmailSend.EmailSend.Request.subject

The email subject.

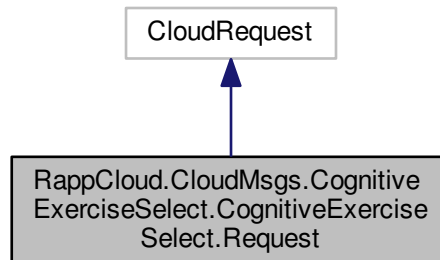
Definition at line 47 of file EmailSend.py.

The documentation for this class was generated from the following file:

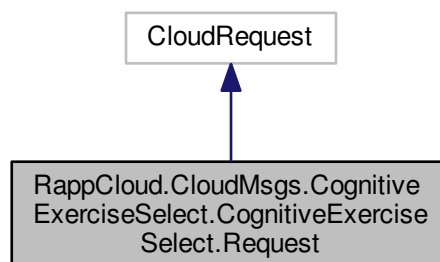
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[EmailSend.py](#)

6.78 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `test_diff`
Force select from this difficulty.
- `test_index`
Force select this index.
- `test_subtype`

Force select from this subtype.

- [test_type](#)

Cognitive Exercise test type.

6.78.1 Detailed Description

Cognitive Exercise Select Cloud Request object.

`CognitiveExerciseSelect.Request`

Definition at line 18 of file `CognitiveExerciseSelect.py`.

6.78.2 Constructor & Destructor Documentation

6.78.2.1 `def RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none">• test_type• test_subtype• test_diff• test_index
------------------------------	--

Definition at line 23 of file `CognitiveExerciseSelect.py`.

6.78.3 Member Function Documentation

6.78.3.1 `def RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 62 of file `CognitiveExerciseSelect.py`.

6.78.3.2 `def RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.make_payload(self)`

Create and return the Payload of the Request.

Definition at line 53 of file `CognitiveExerciseSelect.py`.

6.78.4 Member Data Documentation

6.78.4.1 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.test_diff`

Force select from this difficulty.

Defaults to empty string ""

Definition at line 46 of file `CognitiveExerciseSelect.py`.

6.78.4.2 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.test_index`

Force select this index.

Defaults to empty string "".

Definition at line 48 of file `CognitiveExerciseSelect.py`.

6.78.4.3 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.test_subtype`

Force select from this subtype.

Defaults to empty string ""

Definition at line 44 of file `CognitiveExerciseSelect.py`.

6.78.4.4 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request.test_type`

Cognitive Exercise test type.

Can be one of:

- 'ArithmeticCts'
- 'AwarenessCts'
- 'ReasoningCts'
- ""

If left empty, selection will be performed based on user's past performance records.

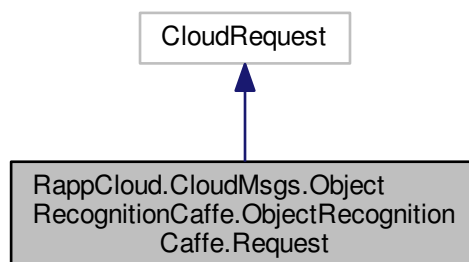
Definition at line 42 of file `CognitiveExerciseSelect.py`.

The documentation for this class was generated from the following file:

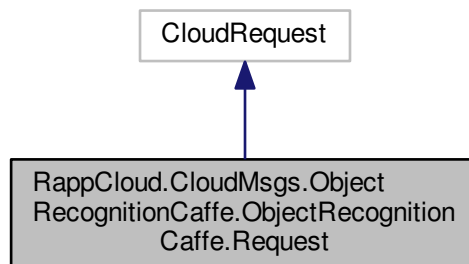
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py](#)

6.79 `RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request` Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request`:



Collaboration diagram for RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `imageFilepath`
File path to the image to load.

6.79.1 Detailed Description

Object Recognition (Caffe) Cloud Request object.

`ObjectRecognitionCaffe.Request`

Definition at line 14 of file `ObjectRecognitionCaffe.py`.

6.79.2 Constructor & Destructor Documentation

6.79.2.1 `def RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>imageFilepath</code>
-----------------------	---

Definition at line 19 of file `ObjectRecognitionCaffe.py`.

6.79.3 Member Function Documentation

6.79.3.1 `def RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request.make_files (self)`

Create and return Array of File objects of the Request.

Definition at line 37 of file ObjectRecognitionCaffe.py.

6.79.3.2 `def RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 32 of file ObjectRecognitionCaffe.py.

6.79.4 Member Data Documentation

6.79.4.1 `RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request.imageFilepath`

File path to the image to load.

This is the image to perform qr-detection on.

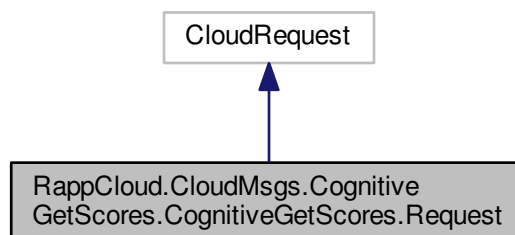
Definition at line 28 of file ObjectRecognitionCaffe.py.

The documentation for this class was generated from the following file:

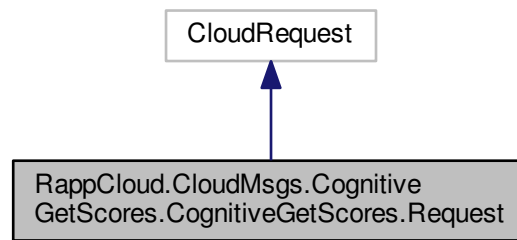
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py`

6.80 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request` Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request`:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `test_type`
Cognitive Exercise test type.
- `time_to`
Unix timestamp.

6.80.1 Detailed Description

Cognitive Get Scores Cloud Request object.

`CognitiveGetScores.Request`

Definition at line 14 of file `CognitiveGetScores.py`.

6.80.2 Constructor & Destructor Documentation

6.80.2.1 `def RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>test_type</code> • <code>time_to</code>
------------------------------	---

Definition at line 19 of file `CognitiveGetScores.py`.

6.80.3 Member Function Documentation

6.80.3.1 `def RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request.make_files (self)`

Create and return Array of File objects of the Request.

Definition at line 48 of file CognitiveGetScores.py.

6.80.3.2 `def RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 41 of file CognitiveGetScores.py.

6.80.4 Member Data Documentation

6.80.4.1 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request.test_type`

Cognitive Exercise test type.

Can be one of:

- 'ArithmeticCts'
- 'AwarenessCts'
- 'ReasoningCts'
- ''

If left empty, history of all test types will be returned.

Definition at line 35 of file CognitiveGetScores.py.

6.80.4.2 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request.time_to`

Unix timestamp.

Retrieve scores up to this timestamp value.

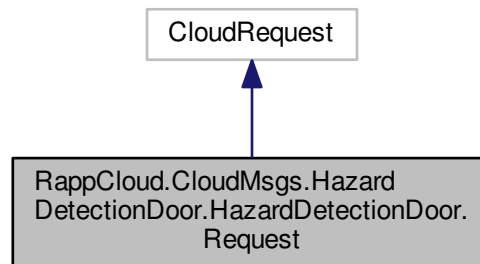
Definition at line 37 of file CognitiveGetScores.py.

The documentation for this class was generated from the following file:

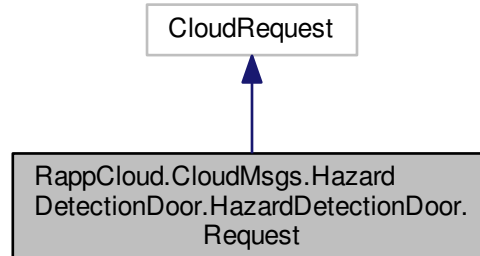
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetScores.py](#)

6.81 RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request:



Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request:



Public Member Functions

- [def __init__](#)
Constructor.
- [def make_files](#)
- [def make_payload](#)

Public Attributes

- [imageFilepath](#)
File path to the image to load.

6.81.1 Detailed Description

Hazard Detection Door Check Cloud Request object.

`HazardDetectionDoor.Request`

Definition at line 14 of file `HazardDetectionDoor.py`.

6.81.2 Constructor & Destructor Documentation

6.81.2.1 `def RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. • imageFilepath
------------------------------	---

Definition at line 19 of file `HazardDetectionDoor.py`.

6.81.3 Member Function Documentation

6.81.3.1 `def RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 37 of file `HazardDetectionDoor.py`.

6.81.3.2 `def RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request.make_payload(self)`

Create and return the Payload of the Request.

Definition at line 32 of file `HazardDetectionDoor.py`.

6.81.4 Member Data Documentation

6.81.4.1 `RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request.imageFilepath`

File path to the image to load.

This is the image to perform qr-detection on.

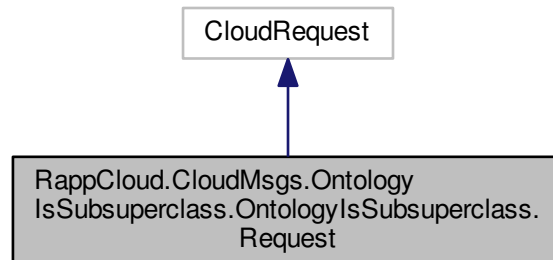
Definition at line 28 of file `HazardDetectionDoor.py`.

The documentation for this class was generated from the following file:

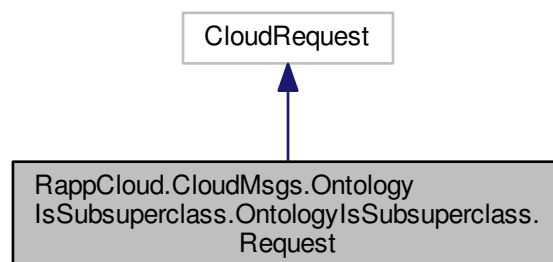
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py`

6.82 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request:



Collaboration diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request:



Public Member Functions

- def [__init__](#)
Constructor.
- def [make_files](#)
- def [make_payload](#)

Public Attributes

- [child_class](#)
The ontology child class name.
- [parent_class](#)
The ontology parent class name.
- [recursive](#)

Recursive ontology database search.

6.82.1 Detailed Description

Ontology Is Sub-Superclass Of Cloud Request object.

OntologyIsSubsuperclass.Request

Definition at line 14 of file OntologyIsSubsuperclass.py.

6.82.2 Constructor & Destructor Documentation

6.82.2.1 `def RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>parent_class</code> • <code>child_class</code> • <code>recursive</code>
------------------------------	--

Definition at line 19 of file OntologyIsSubsuperclass.py.

6.82.3 Member Function Documentation

6.82.3.1 `def RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.make_files (self)`

Create and return Array of File objects of the Request.

Definition at line 48 of file OntologyIsSubsuperclass.py.

6.82.3.2 `def RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 40 of file OntologyIsSubsuperclass.py.

6.82.4 Member Data Documentation

6.82.4.1 `RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.child_class`

The ontology child class name.

e.g. 'Microwave'

Definition at line 34 of file OntologyIsSubsuperclass.py.

6.82.4.2 `RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.parent_class`

The ontology parent class name.

e.g. 'Oven'

Definition at line 31 of file OntologyIsSubsuperclass.py.

6.82.4.3 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request.recursive

Recursive ontology database search.

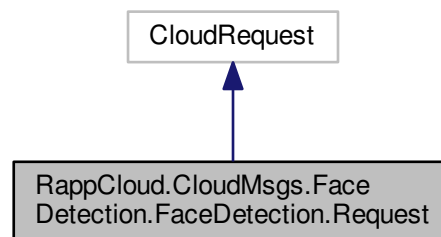
Definition at line 36 of file OntologyIsSubsuperclass.py.

The documentation for this class was generated from the following file:

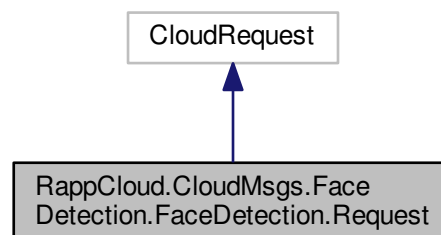
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[OntologyIsSubsuperclass.py](#)

6.83 RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request:



Collaboration diagram for RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request:



Public Member Functions

- `def __init__`
Constructor.

- [def make_files](#)
- [def make_payload](#)

Public Attributes

- [fast](#)
If true, detection will take less time but it will be less accurate.
- [imageFilepath](#)
File path to the image to load.

6.83.1 Detailed Description

Face Detection Cloud Request object. `FaceDetection.Request`

Definition at line 14 of file `FaceDetection.py`.

6.83.2 Constructor & Destructor Documentation

6.83.2.1 `def RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • imageFilepath • fast
------------------------------	--

Definition at line 16 of file `FaceDetection.py`.

6.83.3 Member Function Documentation

6.83.3.1 `def RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 39 of file `FaceDetection.py`.

6.83.3.2 `def RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request.make_payload(self)`

Create and return the Payload of the Request.

Definition at line 35 of file `FaceDetection.py`.

6.83.4 Member Data Documentation

6.83.4.1 `RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request.fast`

If true, detection will take less time but it will be less accurate.

Definition at line 30 of file `FaceDetection.py`.

6.83.4.2 RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request.imageFilepath

File path to the image to load.

This is the image to perform face-detection on.

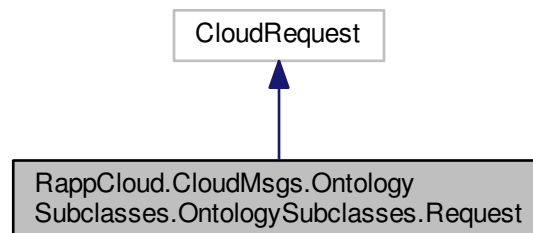
Definition at line 27 of file FaceDetection.py.

The documentation for this class was generated from the following file:

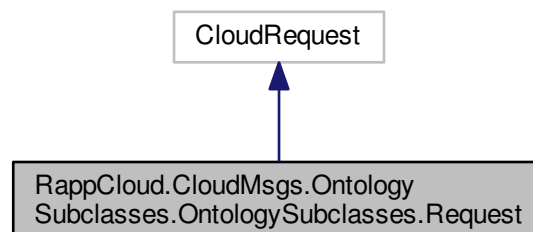
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[FaceDetection.py](#)

6.84 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request:



Collaboration diagram for RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request:



Public Member Functions

- def [__init__](#)
Constructor.
- def [make_files](#)
- def [make_payload](#)

Public Attributes

- [ontology_class](#)
The Ontology class.
- [recursive](#)
Recursive search.

6.84.1 Detailed Description

Ontology Subclasses Of Cloud Request object.

OntologySubclasses.Request

Definition at line 14 of file OntologySubclasses.py.

6.84.2 Constructor & Destructor Documentation

6.84.2.1 `def RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. • query
------------------------------	---

Definition at line 19 of file OntologySubclasses.py.

6.84.3 Member Function Documentation

6.84.3.1 `def RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request.make_files (self)`

Create and return Array of File objects of the Request.

Definition at line 41 of file OntologySubclasses.py.

6.84.3.2 `def RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 34 of file OntologySubclasses.py.

6.84.4 Member Data Documentation

6.84.4.1 `RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request.ontology_class`

The Ontology class.

e.g. 'Oven'

Definition at line 28 of file OntologySubclasses.py.

6.84.4.2 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request.recursive

Recursive search.

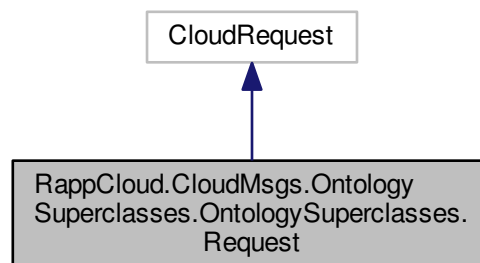
Definition at line 30 of file OntologySubclasses.py.

The documentation for this class was generated from the following file:

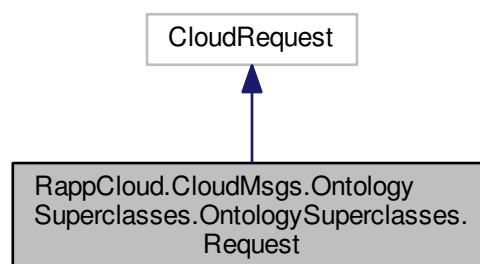
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[OntologySubclasses.py](#)

6.85 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request:



Collaboration diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request:



Public Member Functions

- def [__init__](#)
Constructor.
- def [make_files](#)

- def [make_payload](#)

Public Attributes

- [ontology_class](#)
The Ontology class.
- [recursive](#)
Recursive search.

6.85.1 Detailed Description

Ontology Superclasses Of Cloud Request object.

OntologySuperclasses.Request

Definition at line 14 of file OntologySuperclasses.py.

6.85.2 Constructor & Destructor Documentation

6.85.2.1 `def RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. • <code>query</code>
------------------------------	--

Definition at line 19 of file OntologySuperclasses.py.

6.85.3 Member Function Documentation

6.85.3.1 `def RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request.make_files (self)`

Create and return Array of File objects of the Request.

Definition at line 41 of file OntologySuperclasses.py.

6.85.3.2 `def RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 34 of file OntologySuperclasses.py.

6.85.4 Member Data Documentation

6.85.4.1 `RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request.ontology_class`

The Ontology class.

e.g. 'Oven'

Definition at line 28 of file OntologySuperclasses.py.

6.85.4.2 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request.recursive

Recursive search.

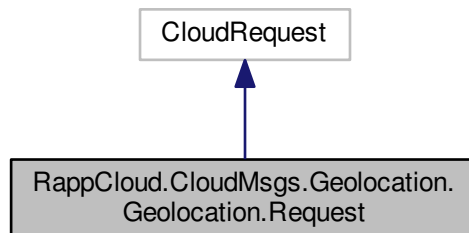
Definition at line 30 of file `OntologySuperclasses.py`.

The documentation for this class was generated from the following file:

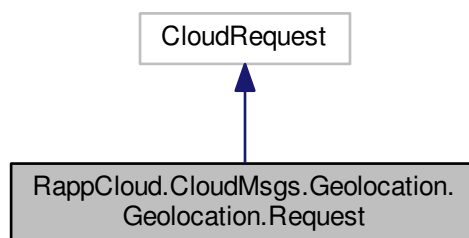
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySuperclasses.py`

6.86 RappCloud.CloudMsgs.Geolocation.Geolocation.Request Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.Geolocation.Geolocation.Request`:



Collaboration diagram for `RappCloud.CloudMsgs.Geolocation.Geolocation.Request`:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- [engine](#)
Engine to use.
- [ipaddr](#)
The machine's ipv4 address.

6.86.1 Detailed Description

Geolocation Cloud Request object.

`Geolocation.Request`

Definition at line 14 of file `Geolocation.py`.

6.86.2 Constructor & Destructor Documentation

6.86.2.1 `def RappCloud.CloudMsgs.Geolocation.Geolocation.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • ipaddr • engine
------------------------------	---

Definition at line 19 of file `Geolocation.py`.

6.86.3 Member Function Documentation

6.86.3.1 `def RappCloud.CloudMsgs.Geolocation.Geolocation.Request.make_files (self)`

Create and return Array of File objects of the Request.

Definition at line 42 of file `Geolocation.py`.

6.86.3.2 `def RappCloud.CloudMsgs.Geolocation.Geolocation.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 35 of file `Geolocation.py`.

6.86.4 Member Data Documentation

6.86.4.1 `RappCloud.CloudMsgs.Geolocation.Geolocation.Request.engine`

Engine to use.

Defaults to 'ip-api' (Currently the only supported).

Definition at line 31 of file `Geolocation.py`.

6.86.4.2 RappCloud.CloudMsgs.Geolocation.Geolocation.Request.ipaddr

The machine's ipv4 address.

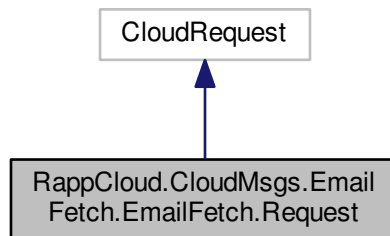
Definition at line 29 of file Geolocation.py.

The documentation for this class was generated from the following file:

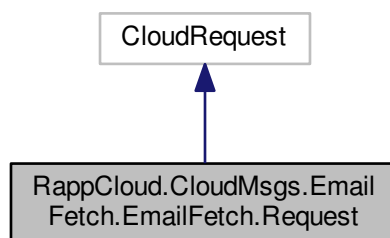
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[Geolocation.py](#)

6.87 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request:



Collaboration diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request:



Public Member Functions

- def [__init__](#)
Constructor.
- def [make_files](#)
- def [make_payload](#)

Public Attributes

- [date_from](#)
Emails since date.
- [date_to](#)
Emails until date.
- [email](#)
User's email username.
- [email_status](#)
Define which mails the users requests.
- [num_emails](#)
Number of requested emails.
- [password](#)
User's email password.
- [port](#)
The email server imap port.
- [server](#)
The email server's imap address, i.e.

6.87.1 Detailed Description

Email Fetch Cloud Request object.

EmailFetch.Request

Definition at line 14 of file EmailFetch.py.

6.87.2 Constructor & Destructor Documentation

6.87.2.1 `def RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • email • password • server • port • date_from • date_to • email_status • num_emails
------------------------------	--

Definition at line 19 of file EmailFetch.py.

6.87.3 Member Function Documentation

6.87.3.1 `def RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.make_files (self)`

Create and return Array of File objects of the Request.

Definition at line 67 of file EmailFetch.py.

6.87.3.2 `def RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 54 of file EmailFetch.py.

6.87.4 Member Data Documentation

6.87.4.1 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.date_from`

Emails since date.

Unix timestamp.

Definition at line 43 of file EmailFetch.py.

6.87.4.2 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.date_to`

Emails until date.

Unix timestamp.

Definition at line 45 of file EmailFetch.py.

6.87.4.3 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.email`

User's email username.

Definition at line 35 of file EmailFetch.py.

6.87.4.4 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.email_status`

Define which mails the users requests.

Values: ALL, UNSEEN(DEFAULT)

Definition at line 47 of file EmailFetch.py.

6.87.4.5 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.num_emails`

Number of requested emails.

Definition at line 49 of file EmailFetch.py.

6.87.4.6 `RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.password`

User's email password.

Definition at line 37 of file EmailFetch.py.

6.87.4.7 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.port

The email server imap port.

leave empty to use default value.

Definition at line 41 of file EmailFetch.py.

6.87.4.8 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request.server

The email server's imap address, i.e.

'imap.gmail.com'.

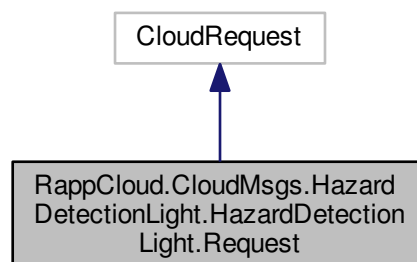
Definition at line 39 of file EmailFetch.py.

The documentation for this class was generated from the following file:

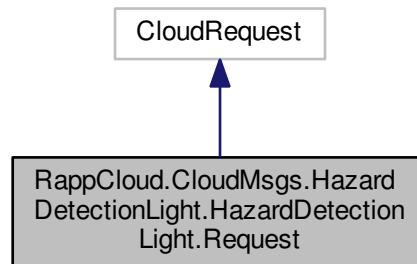
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[EmailFetch.py](#)

6.88 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request:



Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `imageFilepath`
File path to the image to load.

6.88.1 Detailed Description

Hazard Detection Light Check Cloud Request object.

`HazardDetectionLight.Request`

Definition at line 14 of file `HazardDetectionLight.py`.

6.88.2 Constructor & Destructor Documentation

6.88.2.1 `def RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>imageFilepath</code>
-----------------------	---

Definition at line 19 of file `HazardDetectionLight.py`.

6.88.3 Member Function Documentation

6.88.3.1 `def RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request.make_files (self)`

Create and return Array of File objects of the Request.

Definition at line 37 of file HazardDetectionLight.py.

6.88.3.2 `def RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 32 of file HazardDetectionLight.py.

6.88.4 Member Data Documentation

6.88.4.1 `RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request.imageFilepath`

File path to the image to load.

This is the image to perform qr-detection on.

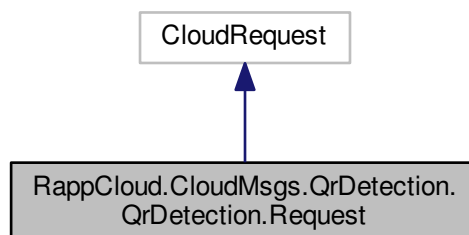
Definition at line 28 of file HazardDetectionLight.py.

The documentation for this class was generated from the following file:

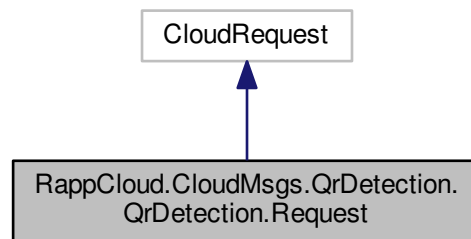
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionLight.py](#)

6.89 RappCloud.CloudMsgs.QrDetection.QrDetection.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.QrDetection.QrDetection.Request:



Collaboration diagram for RappCloud.CloudMsgs.QrDetection.QrDetection.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `imageFilepath`
File path to the image to load.

6.89.1 Detailed Description

`Qr Detection Cloud Request object. QrDetection.Request`

Definition at line 14 of file `QrDetection.py`.

6.89.2 Constructor & Destructor Documentation

6.89.2.1 `def RappCloud.CloudMsgs.QrDetection.QrDetection.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. • <code>imageFilepath</code>
------------------------------	--

Definition at line 16 of file `QrDetection.py`.

6.89.3 Member Function Documentation

6.89.3.1 `def RappCloud.CloudMsgs.QrDetection.QrDetection.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 33 of file QrDetection.py.

6.89.3.2 `def RappCloud.CloudMsgs.QrDetection.QrDetection.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 29 of file QrDetection.py.

6.89.4 Member Data Documentation

6.89.4.1 `RappCloud.CloudMsgs.QrDetection.QrDetection.Request.imageFilepath`

File path to the image to load.

This is the image to perform qr-detection on.

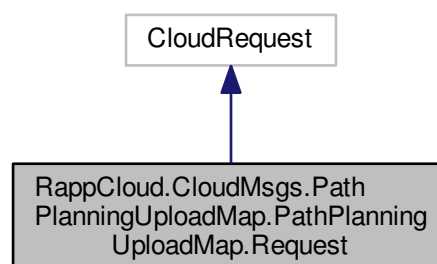
Definition at line 25 of file QrDetection.py.

The documentation for this class was generated from the following file:

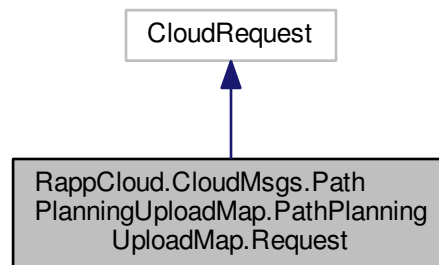
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py`

6.90 `RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request` Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request`:



Collaboration diagram for RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `map_name`
The map name.
- `png_file`
Path to the map image png file.
- `yaml_file`
Path to the map description yaml file.

6.90.1 Detailed Description

Path Planning Upload Map Cloud Request object.

`PathPlanningUploadMap.Request`

Definition at line 14 of file `PathPlanningUploadMap.py`.

6.90.2 Constructor & Destructor Documentation

6.90.2.1 `def RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • map_name • png_file • yaml_file
------------------------------	--

Definition at line 19 of file PathPlanningUploadMap.py.

6.90.3 Member Function Documentation

6.90.3.1 `def RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.make_files (self)`

Create and return Array of File objects of the Request.

Definition at line 43 of file PathPlanningUploadMap.py.

6.90.3.2 `def RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.make_payload (self)`

Create and return the Payload of the Request.

Definition at line 38 of file PathPlanningUploadMap.py.

6.90.4 Member Data Documentation

6.90.4.1 `RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.map_name`

The map name.

Definition at line 30 of file PathPlanningUploadMap.py.

6.90.4.2 `RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.png_file`

Path to the map image png file.

Definition at line 32 of file PathPlanningUploadMap.py.

6.90.4.3 `RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request.yaml_file`

Path to the map description yaml file.

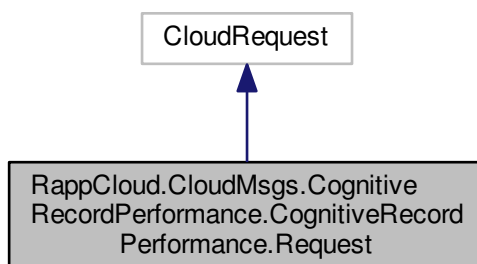
Definition at line 34 of file PathPlanningUploadMap.py.

The documentation for this class was generated from the following file:

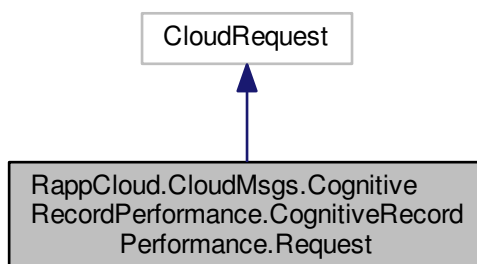
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningUploadMap.py](#)

6.91 RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Request:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `score`
Performance score to record.
- `test_instance`
Cognitive Exercise test instance.

6.91.1 Detailed Description

Cognitive Record Performance Cloud Request object.

`CognitiveRecordPerformance.Request`

Definition at line 14 of file `CognitiveRecordPerformance.py`.

6.91.2 Constructor & Destructor Documentation

6.91.2.1 `def RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • test_instance • score
------------------------------	---

Definition at line 19 of file `CognitiveRecordPerformance.py`.

6.91.3 Member Function Documentation

6.91.3.1 `def RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request.make_files(self)`

Create and return Array of File objects of the Request.

Definition at line 43 of file `CognitiveRecordPerformance.py`.

6.91.3.2 `def RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request.make_payload(self)`

Create and return the Payload of the Request.

Definition at line 36 of file `CognitiveRecordPerformance.py`.

6.91.4 Member Data Documentation

6.91.4.1 `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request.score`

Performance score to record.

Definition at line 32 of file `CognitiveRecordPerformance.py`.

6.91.4.2 `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request.test_instance`

Cognitive Exercise test instance.

The full cognitive test entry name as obtained from [CognitiveExerciseSelect](#)

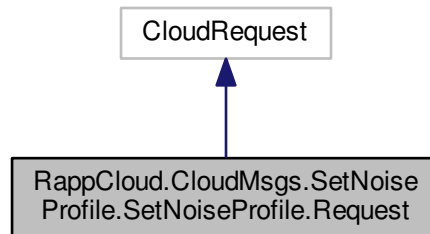
Definition at line 30 of file `CognitiveRecordPerformance.py`.

The documentation for this class was generated from the following file:

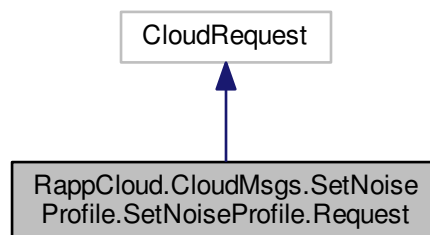
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py`

6.92 RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request:



Collaboration diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request:



Public Member Functions

- `def __init__`
Constructor.
- `def make_files`
- `def make_payload`

Public Attributes

- `audio_source`
Audio source data format.
- `audiofile`
Path to the audio file.

6.92.1 Detailed Description

Set Noise Profile Cloud Request object.

SetNoiseProfile.Request

Definition at line 14 of file SetNoiseProfile.py.

6.92.2 Constructor & Destructor Documentation

6.92.2.1 def RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request.__init__(self, kwargs)

Constructor.

Parameters

**kwargs	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • audio_source • audiofile
-----------------	--

Definition at line 19 of file SetNoiseProfile.py.

6.92.3 Member Function Documentation

6.92.3.1 def RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request.make_files (self)

Create and return Array of File objects of the Request.

Definition at line 41 of file SetNoiseProfile.py.

6.92.3.2 def RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request.make_payload (self)

Create and return the Payload of the Request.

Definition at line 36 of file SetNoiseProfile.py.

6.92.4 Member Data Documentation

6.92.4.1 RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request.audio_source

Audio source data format.

e.g "nao_wav_1_ch".

Definition at line 29 of file SetNoiseProfile.py.

6.92.4.2 RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request.audiofile

Path to the audio file.

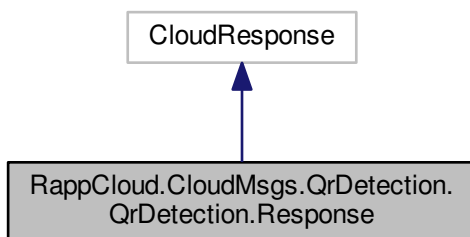
Definition at line 31 of file SetNoiseProfile.py.

The documentation for this class was generated from the following file:

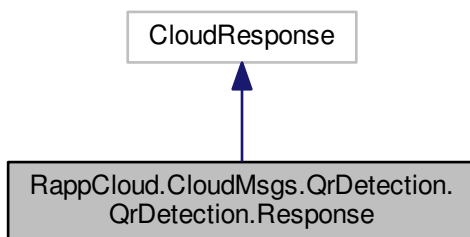
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py](#)

6.93 RappCloud.CloudMsgs.QrDetection.QrDetection.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.QrDetection.QrDetection.Response:



Collaboration diagram for RappCloud.CloudMsgs.QrDetection.QrDetection.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `qr_centers`
Found qr centers.
- `qr_messages`
Found qr messages.

6.93.1 Detailed Description

Qr Detection Cloud Response object. `QrDetection.Response`

Definition at line 38 of file `QrDetection.py`.

6.93.2 Constructor & Destructor Documentation

6.93.2.1 `def RappCloud.CloudMsgs.QrDetection.QrDetection.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none">• error• qr_centers• qr_messages
------------------------------	---

Definition at line 40 of file `QrDetection.py`.

6.93.3 Member Data Documentation

6.93.3.1 `RappCloud.CloudMsgs.QrDetection.QrDetection.Response.error`

Error message.

Definition at line 51 of file `QrDetection.py`.

6.93.3.2 `RappCloud.CloudMsgs.QrDetection.QrDetection.Response.qr_centers`

Found qr centers.

Array of `qr_center` objects. TODO Create `qr_center` objects

Definition at line 54 of file `QrDetection.py`.

6.93.3.3 `RappCloud.CloudMsgs.QrDetection.QrDetection.Response.qr_messages`

Found qr messages.

Array of strings.

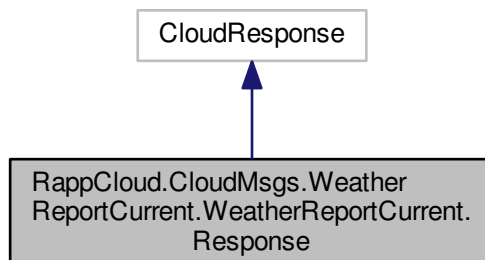
Definition at line 56 of file `QrDetection.py`.

The documentation for this class was generated from the following file:

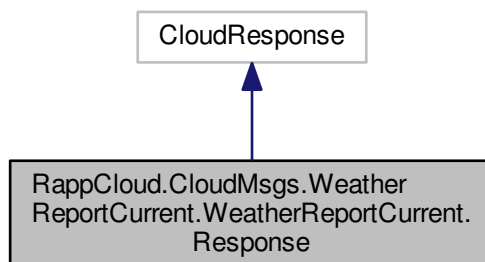
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py`

6.94 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `date`
Current date.
- `error`
Error message.
- `humidity`
Current humidity.

- [pressure](#)
Current pressure.
- [temperature](#)
Current temperature.
- [visibility](#)
Current vilibility.
- [weather_description](#)
A brief description of the current weather.
- [wind_direction](#)
Current wind direction.
- [wind_speed](#)
Current speed of the wind.
- [wind_temperature](#)
Current temperature of the wind.

6.94.1 Detailed Description

Weather Report Current Cloud Response object.

WeatherReportCurrent.Response

Definition at line 52 of file WeatherReportCurrent.py.

6.94.2 Constructor & Destructor Documentation

6.94.2.1 `def RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • error • date • temperature • weather_description • humidity • visibility • pressure • wind_speed • wind_temperature • wind_direction
------------------------------	--

Definition at line 57 of file WeatherReportCurrent.py.

6.94.3 Member Data Documentation

6.94.3.1 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.date

Current date.

Definition at line 77 of file WeatherReportCurrent.py.

6.94.3.2 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.error

Error message.

Definition at line 75 of file WeatherReportCurrent.py.

6.94.3.3 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.humidity

Current humidity.

Definition at line 83 of file WeatherReportCurrent.py.

6.94.3.4 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.pressure

Current pressure.

Definition at line 87 of file WeatherReportCurrent.py.

6.94.3.5 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.temperature

Current temperature.

Definition at line 79 of file WeatherReportCurrent.py.

6.94.3.6 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.visibility

Current vilibility.

Definition at line 85 of file WeatherReportCurrent.py.

6.94.3.7 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.weather_description

A brief description of the current weather.

Definition at line 81 of file WeatherReportCurrent.py.

6.94.3.8 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.wind_direction

Current wind direction.

Definition at line 93 of file WeatherReportCurrent.py.

6.94.3.9 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.wind_speed

Current speed of the wind.

Definition at line 89 of file WeatherReportCurrent.py.

6.94.3.10 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response.wind_temperature

Current temperature of the wind.

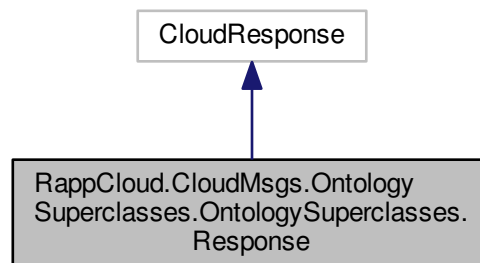
Definition at line 91 of file WeatherReportCurrent.py.

The documentation for this class was generated from the following file:

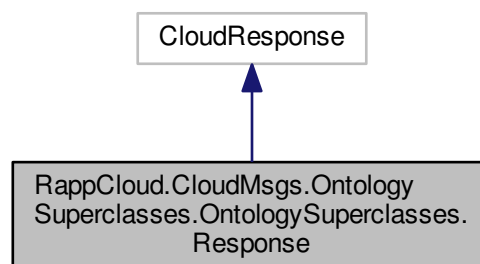
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[WeatherReportCurrent.py](#)

6.95 RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response:



Collaboration diagram for RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response:



Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [error](#)
Error message.
- [results](#)
Ontology query results.

6.95.1 Detailed Description

Ontology Superclasses Cloud Response object.

OntologySuperclasses.Response

Definition at line 46 of file OntologySuperclasses.py.

6.95.2 Constructor & Destructor Documentation

6.95.2.1 `def RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • error • results
------------------------------	---

Definition at line 51 of file OntologySuperclasses.py.

6.95.3 Member Data Documentation

6.95.3.1 `RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response.error`

Error message.

Definition at line 61 of file OntologySuperclasses.py.

6.95.3.2 `RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response.results`

Ontology query results.

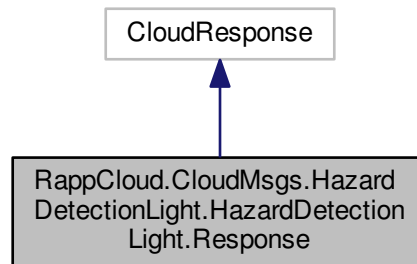
Definition at line 63 of file OntologySuperclasses.py.

The documentation for this class was generated from the following file:

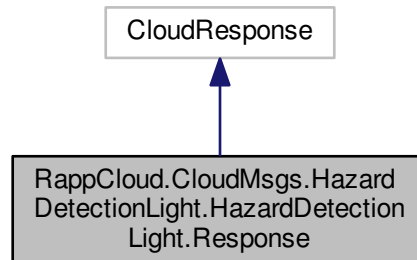
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySuperclasses.py`

6.96 RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response:



Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `light_level`
The, detected on the image frame, light level.

6.96.1 Detailed Description

Hazard Detection Light Check Cloud Response object.

HazardDetectionLight.Response

Definition at line 42 of file HazardDetectionLight.py.

6.96.2 Constructor & Destructor Documentation

6.96.2.1 `def RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • error • light_level
------------------------------	---

Definition at line 47 of file HazardDetectionLight.py.

6.96.3 Member Data Documentation

6.96.3.1 `RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response.error`

Error message.

Definition at line 57 of file HazardDetectionLight.py.

6.96.3.2 `RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response.light_level`

The, detected on the image frame, light level.

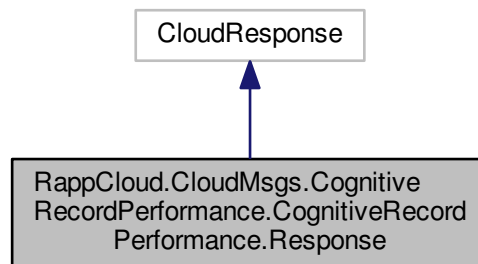
Definition at line 59 of file HazardDetectionLight.py.

The documentation for this class was generated from the following file:

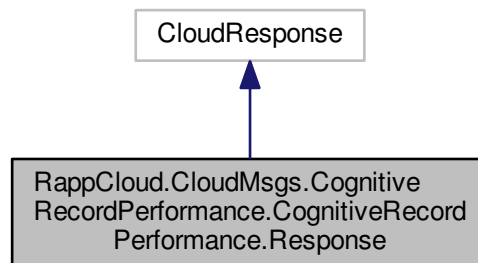
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionLight.py`

6.97 RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Response:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.-Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `performance_entry`
Cognitive exercise ontology performance entry.

6.97.1 Detailed Description

Cognitive Record Performance Cloud Response object.

CognitiveRecordPerformance.Response

Definition at line 48 of file CognitiveRecordPerformance.py.

6.97.2 Constructor & Destructor Documentation

6.97.2.1 `def RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	<div>- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none"><code>error</code><code>performance_entry</code></div>
------------------------------	--

Definition at line 53 of file CognitiveRecordPerformance.py.

6.97.3 Member Data Documentation

6.97.3.1 `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Response.error`

Error message.

Definition at line 63 of file CognitiveRecordPerformance.py.

6.97.3.2 `RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Response.performance_entry`

Cognitive exercise ontology performance entry.

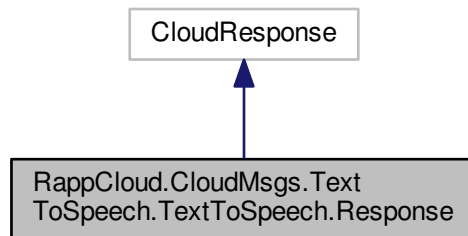
Definition at line 65 of file CognitiveRecordPerformance.py.

The documentation for this class was generated from the following file:

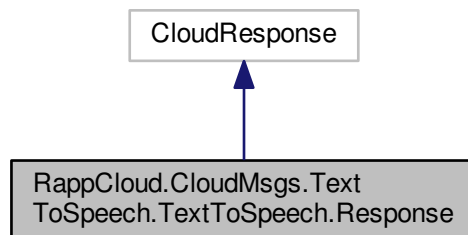
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecordPerformance.py`

6.98 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response:



Collaboration diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response:



Public Member Functions

- `def __init__`
Constructor.
- `def get_audio_raw`
Get audio raw data from response.
- `def store_audio`
Store returned audio data to an audio file given by path.

Public Attributes

- `basename`
A static basename for the audio data file, returned from the platform service.
- `encoding`
Codec used to encode the audio data payload.
- `error`

Error message.

- [payload](#)

The audio data payload.

6.98.1 Detailed Description

Text-To-Speech (TTS) Cloud Response object.

`TextToSpeech.Response`

Definition at line 55 of file `TextToSpeech.py`.

6.98.2 Constructor & Destructor Documentation

6.98.2.1 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.__init__(self, kwargs)`

Constructor.

Parameters

<i>kwargs</i>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none">• error• payload• encoding• basename
----------------------	--

Definition at line 60 of file `TextToSpeech.py`.

6.98.3 Member Function Documentation

6.98.3.1 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.get_audio_raw(self)`

Get audio raw data from response.

Definition at line 85 of file `TextToSpeech.py`.

6.98.3.2 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.store_audio(self, destfile)`

Store returned audio data to an audio file given by path.

Parameters

<i>destfile</i>	- Destination file path.
------------------------	--------------------------

Definition at line 92 of file `TextToSpeech.py`.

6.98.4 Member Data Documentation

6.98.4.1 `RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.basename`

A static basename for the audio data file, returned from the platform service.

Ignore this field. May be usefull in future implementations.

Definition at line 81 of file `TextToSpeech.py`.

6.98.4.2 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.encoding

Codec used to encode the audio data payload.

Definition at line 77 of file TextToSpeech.py.

6.98.4.3 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.error

Error message.

Definition at line 72 of file TextToSpeech.py.

6.98.4.4 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response.payload

The audio data payload.

Payload encoding is defined by the 'encoding' json field.

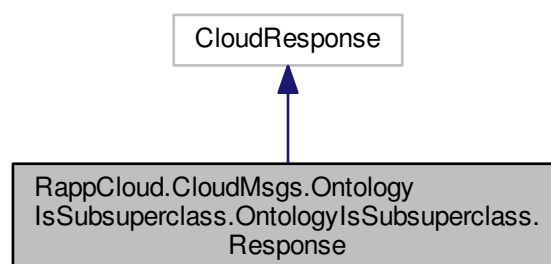
Definition at line 75 of file TextToSpeech.py.

The documentation for this class was generated from the following file:

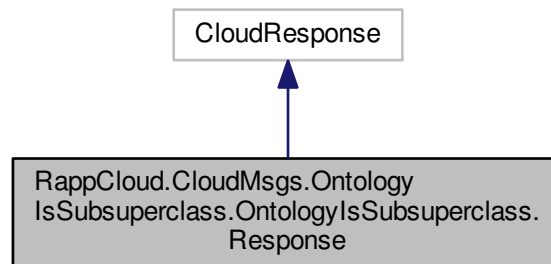
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[TextToSpeech.py](#)

6.99 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response:



Collaboration diagram for RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `result`
Success index on ontology-is-subsuperclass-of query.

6.99.1 Detailed Description

Ontology Is Sub-Superclass Cloud Response object.

`OntologyIsSubsuperclass.Response`

Definition at line 53 of file `OntologyIsSubsuperclass.py`.

6.99.2 Constructor & Destructor Documentation

6.99.2.1 `def RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none">• <code>error</code>• <code>result</code>
------------------------------	---

Definition at line 58 of file `OntologyIsSubsuperclass.py`.

6.99.3 Member Data Documentation

6.99.3.1 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response.error

Error message.

Definition at line 68 of file OntologyIsSubsuperclass.py.

6.99.3.2 RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response.result

Success index on ontology-is-subsuperclass-of query.

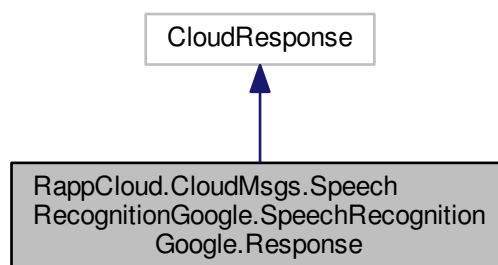
Definition at line 70 of file OntologyIsSubsuperclass.py.

The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py

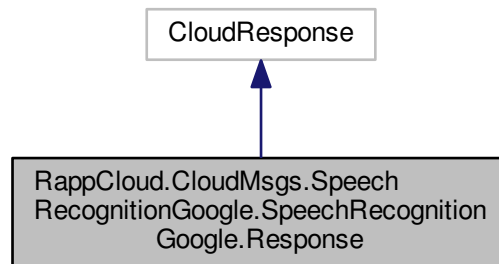
6.100 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.-Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.-

Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `alternatives`
Alternative sentences.
- `error`
Error message.
- `words`
An array that contains the "words-found" with highest confidence.

6.100.1 Detailed Description

Speech Recognition Google Cloud Response object.

`SpeechRecognitionGoogle.Response`

Definition at line 51 of file `SpeechRecognitionGoogle.py`.

6.100.2 Constructor & Destructor Documentation

6.100.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	<ul style="list-style-type: none">- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none">• <code>error</code>• <code>words</code>• <code>alternatives</code>
------------------------------	---

Definition at line 56 of file SpeechRecognitionGoogle.py.

6.100.3 Member Data Documentation

6.100.3.1 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response.alternatives

Alternative sentences.

e.g. [['send', 'mail'], ['send', 'email'], ['set', 'mail']...]

Definition at line 70 of file SpeechRecognitionGoogle.py.

6.100.3.2 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response.error

Error message.

Definition at line 72 of file SpeechRecognitionGoogle.py.

6.100.3.3 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response.words

An array that contains the "words-found" with highest confidence.

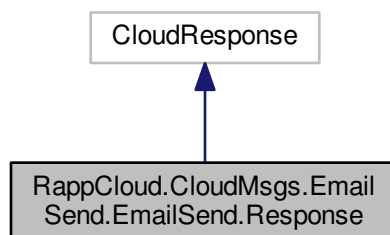
Definition at line 67 of file SpeechRecognitionGoogle.py.

The documentation for this class was generated from the following file:

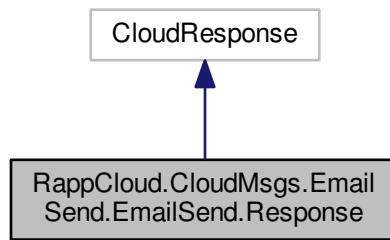
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[SpeechRecognitionGoogle.py](#)

6.101 RappCloud.CloudMsgs.EmailSend.EmailSend.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailSend.EmailSend.Response:



Collaboration diagram for RappCloud.CloudMsgs.EmailSend.EmailSend.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.

6.101.1 Detailed Description

Email Send Cloud Response object.

EmailSend.Response

Definition at line 75 of file EmailSend.py.

6.101.2 Constructor & Destructor Documentation

6.101.2.1 `def RappCloud.CloudMsgs.EmailSend.EmailSend.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none">• <code>error</code>
------------------------------	---

Definition at line 80 of file EmailSend.py.

6.101.3 Member Data Documentation

6.101.3.1 `RappCloud.CloudMsgs.EmailSend.EmailSend.Response.error`

Error message.

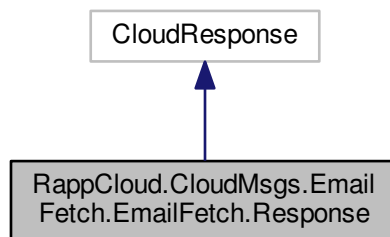
Definition at line 89 of file EmailSend.py.

The documentation for this class was generated from the following file:

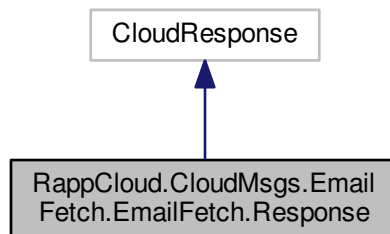
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailSend.py](#)

6.102 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response:



Collaboration diagram for RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `emails`
An array of emailEntry objects, where emailEntry is of structure: {sender: ", receivers: [], date: ", body: ", attachments: []}.

- [error](#)

Error message.

6.102.1 Detailed Description

Email Fetch Cloud Response object.

EmailFetch.Response

Definition at line 72 of file EmailFetch.py.

6.102.2 Constructor & Destructor Documentation

6.102.2.1 def RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response.__init__(self, kwargs)

Constructor.

Parameters

**kwargs	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none">• error• emails
-----------------	---

Definition at line 77 of file EmailFetch.py.

6.102.3 Member Data Documentation

6.102.3.1 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response.emails

An array of emailEntry objects, where emailEntry is of structure: {sender: ", receivers: [], date: ", body: ", attachments: []}.

Definition at line 90 of file EmailFetch.py.

6.102.3.2 RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response.error

Error message.

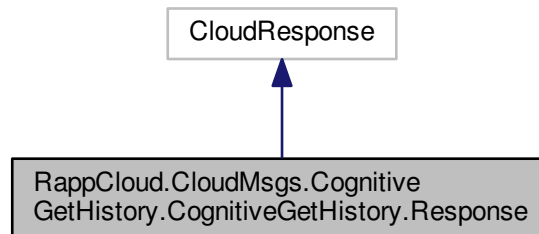
Definition at line 87 of file EmailFetch.py.

The documentation for this class was generated from the following file:

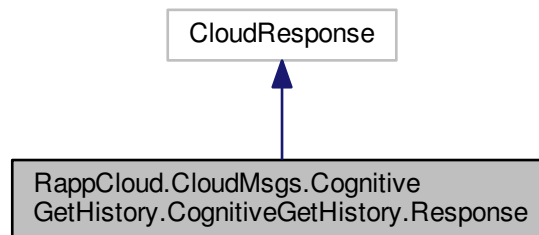
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[EmailFetch.py](#)

6.103 RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `records`
Users history records.

6.103.1 Detailed Description

Cognitive Get History Cloud Response object.

CognitiveGetHistory.Response

Definition at line 57 of file CognitiveGetHistory.py.

6.103.2 Constructor & Destructor Documentation

6.103.2.1 `def RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	<ul style="list-style-type: none">- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none">• error• records
------------------------------	---

Definition at line 62 of file CognitiveGetHistory.py.

6.103.3 Member Data Documentation

6.103.3.1 `RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response.error`

Error message.

Definition at line 72 of file CognitiveGetHistory.py.

6.103.3.2 `RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response.records`

Users history records.

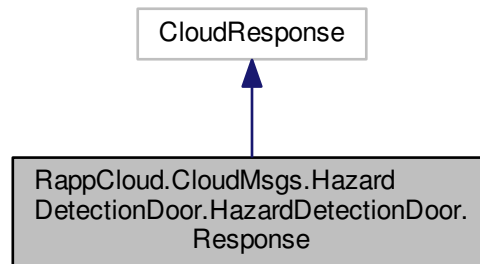
Definition at line 74 of file CognitiveGetHistory.py.

The documentation for this class was generated from the following file:

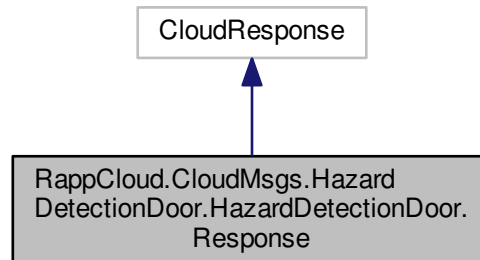
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetHistory.py`

6.104 RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response:



Collaboration diagram for RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `door_angle`
The angle of the detected door.
- `error`
Error message.

6.104.1 Detailed Description

Hazard Detection Door Check Cloud Response object.

HazardDetectionDoor.Response

Definition at line 42 of file HazardDetectionDoor.py.

6.104.2 Constructor & Destructor Documentation

6.104.2.1 `def RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>error</code> • <code>door_angle</code>
------------------------------	--

Definition at line 47 of file HazardDetectionDoor.py.

6.104.3 Member Data Documentation

6.104.3.1 `RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response.door_angle`

The angle of the detected door.

Definition at line 59 of file HazardDetectionDoor.py.

6.104.3.2 `RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response.error`

Error message.

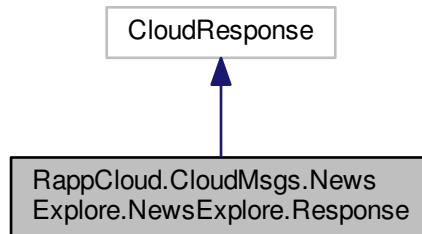
Definition at line 57 of file HazardDetectionDoor.py.

The documentation for this class was generated from the following file:

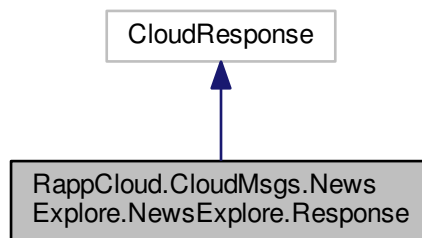
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetectionDoor.py`

6.105 RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response:



Collaboration diagram for RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `news_stories`
Array of story objects, where story is of structure: { title: ", content: ", puplisher: ", publishedDate: ", url: " }.

6.105.1 Detailed Description

News Explore Cloud Response object.

`NewsExplore.Response`

Definition at line 64 of file NewsExplore.py.

6.105.2 Constructor & Destructor Documentation

6.105.2.1 `def RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. • error
------------------------------	---

Definition at line 69 of file NewsExplore.py.

6.105.3 Member Data Documentation

6.105.3.1 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response.error`

Error message.

Definition at line 78 of file NewsExplore.py.

6.105.3.2 `RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response.news_stories`

Array of story objects, where story is of structure: { title: ", content: ", puplisher: ", publishedDate: ", url: " }.

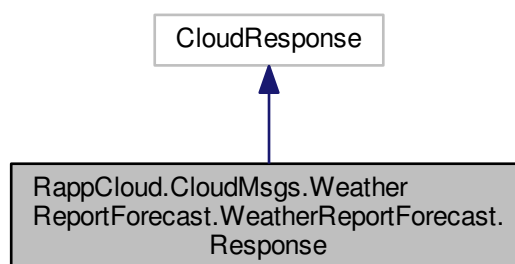
Definition at line 81 of file NewsExplore.py.

The documentation for this class was generated from the following file:

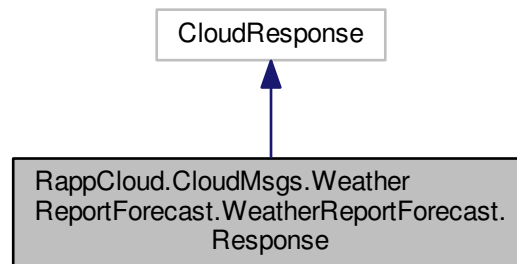
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py

6.106 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `forecast`
Array of forecastEntry objects, where forecastEntry is of structure: {high_temp: ", low_temp: ", description: ", date: "}.

6.106.1 Detailed Description

Weather Report Forecast Cloud Response object.

`WeatherReportForecast.Response`

Definition at line 52 of file `WeatherReportForecast.py`.

6.106.2 Constructor & Destructor Documentation

6.106.2.1 `def RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>error</code> • <code>forecast</code>
------------------------------	--

Definition at line 57 of file `WeatherReportForecast.py`.

6.106.3 Member Data Documentation

6.106.3.1 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response.error

Error message.

Definition at line 67 of file WeatherReportForecast.py.

6.106.3.2 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response.forecast

Array of forecastEntry objects, where forecastEntry is of structure: {high_temp: ", low_temp: ", description: ", date: "}.

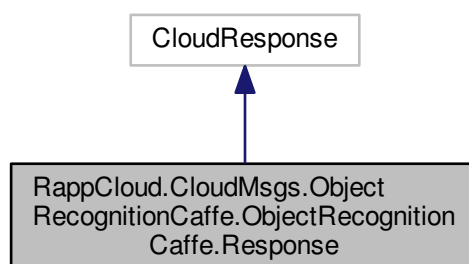
Definition at line 70 of file WeatherReportForecast.py.

The documentation for this class was generated from the following file:

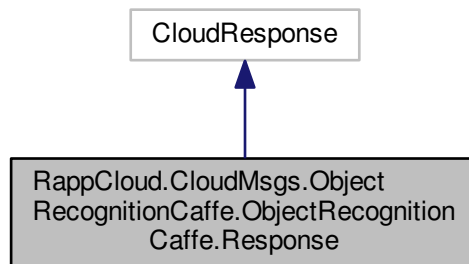
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[WeatherReportForecast.py](#)

6.107 RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response:



Collaboration diagram for RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `object_class`
Recognized object class.

6.107.1 Detailed Description

Object Recognition (Caffe) Cloud Response object.

`ObjectRecognitionCaffe.Response`

Definition at line 42 of file `ObjectRecognitionCaffe.py`.

6.107.2 Constructor & Destructor Documentation

6.107.2.1 `def RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>error</code> • <code>object_class</code>
------------------------------	--

Definition at line 47 of file `ObjectRecognitionCaffe.py`.

6.107.3 Member Data Documentation

6.107.3.1 RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response.error

Error message.

Definition at line 57 of file ObjectRecognitionCaffe.py.

6.107.3.2 RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response.object_class

Recognized object class.

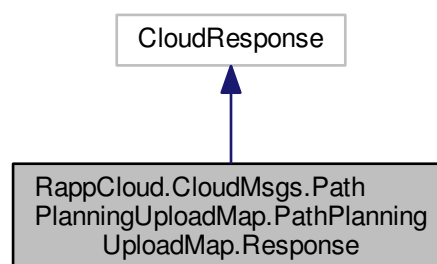
Definition at line 59 of file ObjectRecognitionCaffe.py.

The documentation for this class was generated from the following file:

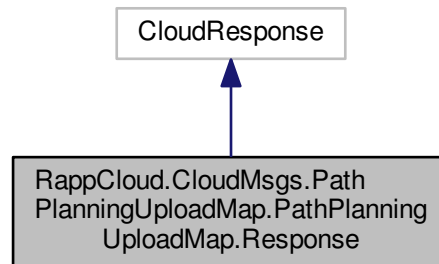
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[ObjectRecognitionCaffe.py](#)

6.108 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response:



Collaboration diagram for RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.

6.108.1 Detailed Description

Path Planning Upload Map Cloud Response object.

`PathPlanningUploadMap.Response`

Definition at line 50 of file `PathPlanningUploadMap.py`.

6.108.2 Constructor & Destructor Documentation

6.108.2.1 `def RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. • <code>error</code>
-----------------------	--

Definition at line 55 of file `PathPlanningUploadMap.py`.

6.108.3 Member Data Documentation

6.108.3.1 RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response.error

Error message.

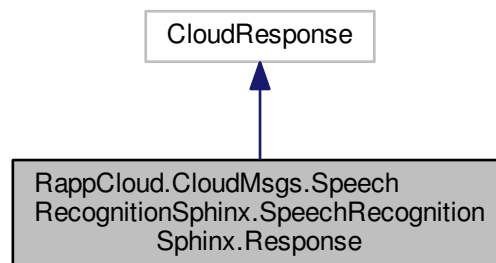
Definition at line 64 of file PathPlanningUploadMap.py.

The documentation for this class was generated from the following file:

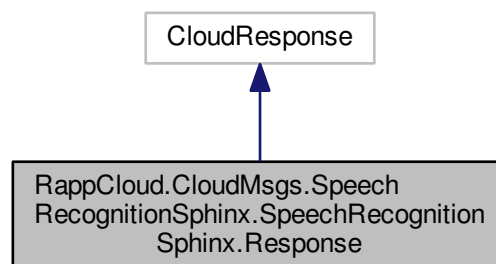
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[PathPlanningUploadMap.py](#)

6.109 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.-Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response:



Public Member Functions

- [def __init__](#)
Constructor.

Public Attributes

- [error](#)

Error message.

- [words](#)

Recognized words.

6.109.1 Detailed Description

Speech Recognition Sphinx4 Cloud Response object.
SpeechRecognitionSphinx.Response

Definition at line 62 of file SpeechRecognitionSphinx.py.

6.109.2 Constructor & Destructor Documentation

6.109.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response.__init__(self, kwargs)`

Constructor.

Parameters

**kwargs	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • error • words
-----------------	---

Definition at line 66 of file SpeechRecognitionSphinx.py.

6.109.3 Member Data Documentation

6.109.3.1 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response.error`

Error message.

Definition at line 78 of file SpeechRecognitionSphinx.py.

6.109.3.2 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response.words`

Recognized words.

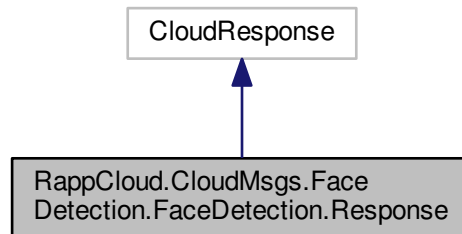
Definition at line 76 of file SpeechRecognitionSphinx.py.

The documentation for this class was generated from the following file:

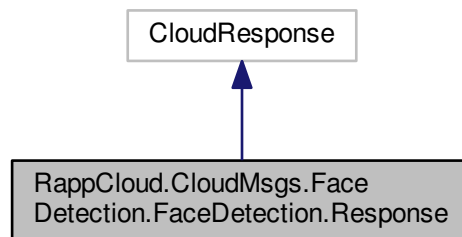
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionSphinx.py`

6.110 RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response:



Collaboration diagram for RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `faces`
Detected faces.

6.110.1 Detailed Description

Face Detection Cloud Response object. `FaceDetection.Response`

Definition at line 44 of file `FaceDetection.py`.

6.110.2 Constructor & Destructor Documentation

6.110.2.1 `def RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • error • faces
------------------------------	---

Definition at line 46 of file `FaceDetection.py`.

6.110.3 Member Data Documentation

6.110.3.1 `RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response.error`

Error message.

Definition at line 56 of file `FaceDetection.py`.

6.110.3.2 `RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response.faces`

Detected faces.

Array of face objects. TODO create face object.

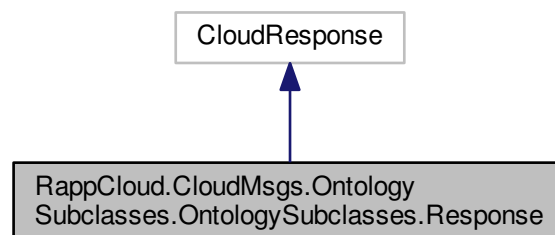
Definition at line 58 of file `FaceDetection.py`.

The documentation for this class was generated from the following file:

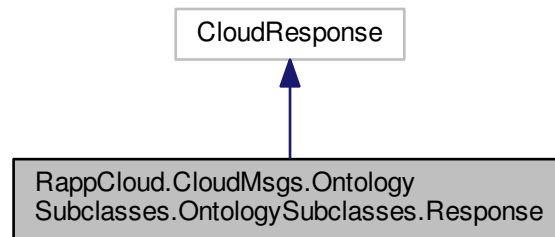
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py`

6.111 `RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response` Class Reference

Inheritance diagram for `RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response`:



Collaboration diagram for RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `results`
Ontology query results.

6.111.1 Detailed Description

Ontology Subclasses Cloud Response object.

`OntologySubclasses.Response`

Definition at line 46 of file `OntologySubclasses.py`.

6.111.2 Constructor & Destructor Documentation

6.111.2.1 `def RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>error</code> • <code>results</code>
------------------------------	---

Definition at line 51 of file `OntologySubclasses.py`.

6.111.3 Member Data Documentation

6.111.3.1 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response.error

Error message.

Definition at line 61 of file OntologySubclasses.py.

6.111.3.2 RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response.results

Ontology query results.

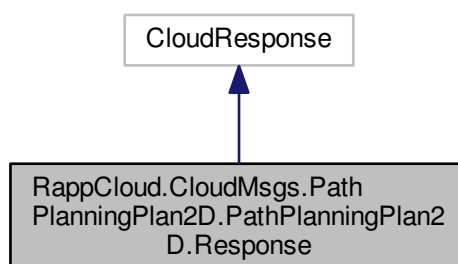
Definition at line 63 of file OntologySubclasses.py.

The documentation for this class was generated from the following file:

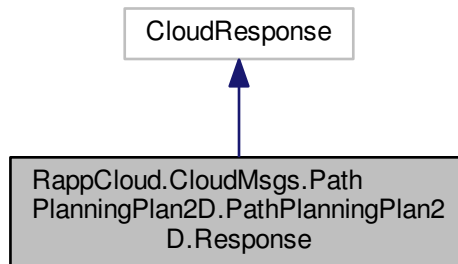
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[OntologySubclasses.py](#)

6.112 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response:



Collaboration diagram for RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `path`
If plan_found is equal to 0 (path found), this is an array of waypoints from start to goal.
- `plan_found`
Plan Status.

6.112.1 Detailed Description

Path Planning Plan 2D Cloud Response object.

`PathPlanningPlan2D.Response`

Definition at line 67 of file `PathPlanningPlan2D.py`.

6.112.2 Constructor & Destructor Documentation

6.112.2.1 `def RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. • <code>error</code>
-----------------------	--

Definition at line 72 of file `PathPlanningPlan2D.py`.

6.112.3 Member Data Documentation

6.112.3.1 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response.error

Error message.

Definition at line 81 of file PathPlanningPlan2D.py.

6.112.3.2 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response.path

If plan_found is equal to 0 (path found), this is an array of waypoints from start to goal.

Definition at line 91 of file PathPlanningPlan2D.py.

6.112.3.3 RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response.plan_found

Plan Status.

Can be one of:

- 0 : path cannot be planned.
- 1 : path found.
- 2 : wrong map name.
- 3 : wrong robot type.
- 4 : wrong algorithm.

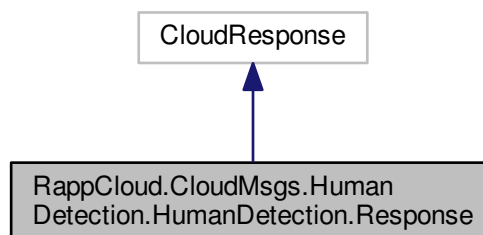
Definition at line 88 of file PathPlanningPlan2D.py.

The documentation for this class was generated from the following file:

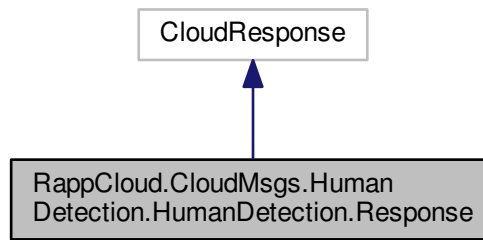
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py](#)

6.113 RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response:



Collaboration diagram for RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `humans`
Array of detected humans TODO Create human objects.

6.113.1 Detailed Description

Human Detection Cloud Response object. `HumanDetection.Response`

Definition at line 39 of file `HumanDetection.py`.

6.113.2 Constructor & Destructor Documentation

6.113.2.1 `def RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>error</code> • <code>humans</code>
------------------------------	--

Definition at line 41 of file `HumanDetection.py`.

6.113.3 Member Data Documentation

6.113.3.1 RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response.error

Error message.

Definition at line 51 of file HumanDetection.py.

6.113.3.2 RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response.humans

Array of detected humans TODO Create human objects.

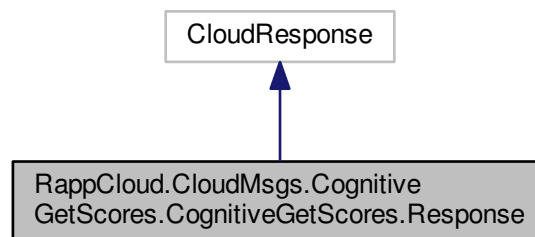
Definition at line 54 of file HumanDetection.py.

The documentation for this class was generated from the following file:

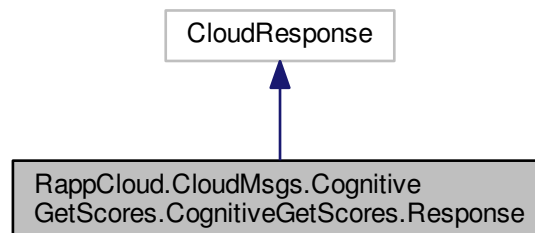
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[HumanDetection.py](#)

6.114 RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.
- `scores`
Array of scores.
- `test_classes`
Array of the test classes indexes.

6.114.1 Detailed Description

Cognitive Get Scores Cloud Response object.

`CognitiveGetScores.Response`

Definition at line 53 of file `CognitiveGetScores.py`.

6.114.2 Constructor & Destructor Documentation

6.114.2.1 `def RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • <code>error</code> • <code>test_classes</code> • <code>scores</code>
-----------------------	---

Definition at line 58 of file `CognitiveGetScores.py`.

6.114.3 Member Data Documentation

6.114.3.1 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response.error`

Error message.

Definition at line 69 of file `CognitiveGetScores.py`.

6.114.3.2 `RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response.scores`

Array of scores.

Each array index corresponds to the test class in `test_classes`

Definition at line 74 of file `CognitiveGetScores.py`.

6.114.3.3 RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response.test_classes

Array of the test classes indexes.

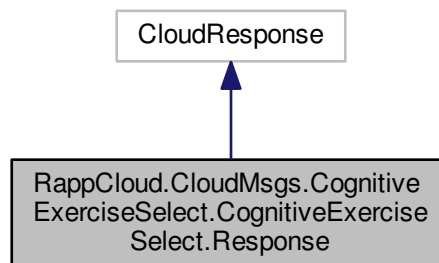
Definition at line 71 of file CognitiveGetScores.py.

The documentation for this class was generated from the following file:

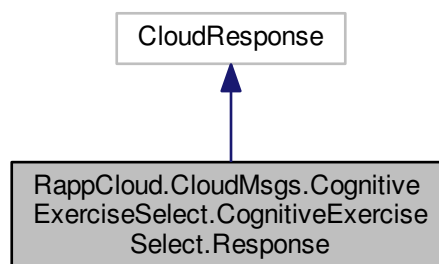
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGetScores.py](#)

6.115 RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response:



Collaboration diagram for RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response:



Public Member Functions

- [def __init__](#)
Constructor.

Public Attributes

- [correct_ans](#)
The set of correct answers for each question.
- [error](#)
Error message.
- [possib_ans](#)
The set of possible answers for each question.
- [questions](#)
The set of questions for the exercise.
- [test_instance](#)
Returned test instance name.
- [test_subtype](#)
Cognitive exercise sub-type.
- [test_type](#)
Cognitive exercise class/type.

6.115.1 Detailed Description

Cognitive Exercise Select Cloud Response object.

`CognitiveExerciseSelect.Response`

Definition at line 67 of file `CognitiveExerciseSelect.py`.

6.115.2 Constructor & Destructor Documentation

6.115.2.1 `def RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • error • questions • possib_ans • correct_ans • test_instance • test_type • test_subtype
------------------------------	--

Definition at line 72 of file `CognitiveExerciseSelect.py`.

6.115.3 Member Data Documentation

6.115.3.1 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.correct_ans`

The set of correct answers for each question.

Definition at line 93 of file `CognitiveExerciseSelect.py`.

6.115.3.2 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.error`

Error message.

Definition at line 87 of file `CognitiveExerciseSelect.py`.

6.115.3.3 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.possib_ans`

The set of possible answers for each question.

Definition at line 91 of file `CognitiveExerciseSelect.py`.

6.115.3.4 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.questions`

The set of questions for the exercise.

Definition at line 89 of file `CognitiveExerciseSelect.py`.

6.115.3.5 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.test_instance`

Returned test instance name.

e.g. `'ArithmeticCts_askw0Snwk'`

Definition at line 96 of file `CognitiveExerciseSelect.py`.

6.115.3.6 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.test_subtype`

Cognitive exercise sub-type.

Definition at line 100 of file `CognitiveExerciseSelect.py`.

6.115.3.7 `RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response.test_type`

Cognitive exercise class/type.

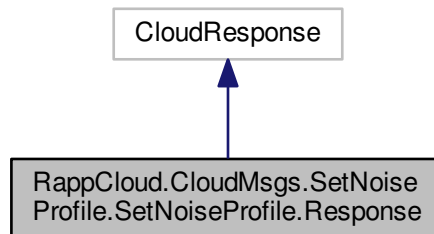
Definition at line 98 of file `CognitiveExerciseSelect.py`.

The documentation for this class was generated from the following file:

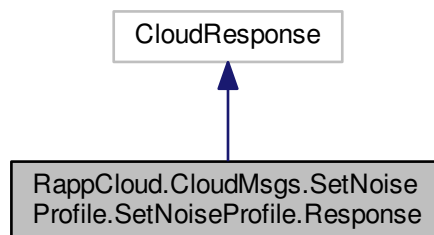
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py`

6.116 RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response:



Collaboration diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `error`
Error message.

6.116.1 Detailed Description

Set Noise Profile Cloud Response object.

SetNoiseProfile.Response

Definition at line 46 of file SetNoiseProfile.py.

6.116.2 Constructor & Destructor Documentation

6.116.2.1 `def RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. • error
------------------------------	---

Definition at line 51 of file SetNoiseProfile.py.

6.116.3 Member Data Documentation

6.116.3.1 `RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response.error`

Error message.

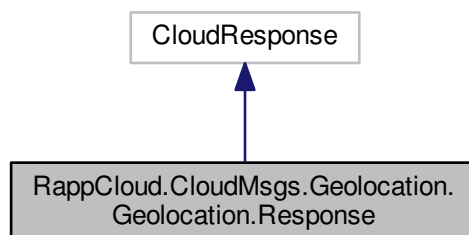
Definition at line 60 of file SetNoiseProfile.py.

The documentation for this class was generated from the following file:

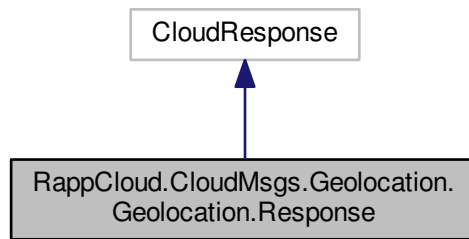
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py

6.117 RappCloud.CloudMsgs.Geolocation.Geolocation.Response Class Reference

Inheritance diagram for RappCloud.CloudMsgs.Geolocation.Geolocation.Response:



Collaboration diagram for RappCloud.CloudMsgs.Geolocation.Geolocation.Response:



Public Member Functions

- `def __init__`
Constructor.

Public Attributes

- `city`
City location.
- `country`
Country location.
- `country_code`
Location's country code.
- `error`
Error message.
- `latitude`
The latitude.
- `longitude`
The longitude.
- `region`
Location region.
- `timezone`
Location timezone.
- `zip`
Location zip-postal code.

6.117.1 Detailed Description

Geolocation Cloud Response object.

`Geolocation.Response`

Definition at line 47 of file `Geolocation.py`.

6.117.2 Constructor & Destructor Documentation

6.117.2.1 `def RappCloud.CloudMsgs.Geolocation.Geolocation.Response.__init__(self, kwargs)`

Constructor.

Parameters

**kwargs	<ul style="list-style-type: none">- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none">• error• city• country• country_code• latitude• longitude• timezone• zip
-----------------	---

Definition at line 52 of file Geolocation.py.

6.117.3 Member Data Documentation

6.117.3.1 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.city

City location.

Definition at line 70 of file Geolocation.py.

6.117.3.2 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.country

Country location.

Definition at line 72 of file Geolocation.py.

6.117.3.3 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.country_code

Location's country code.

Definition at line 74 of file Geolocation.py.

6.117.3.4 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.error

Error message.

Definition at line 68 of file Geolocation.py.

6.117.3.5 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.latitude

The latitude.

Definition at line 76 of file Geolocation.py.

6.117.3.6 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.longitude

The longitude.

Definition at line 78 of file Geolocation.py.

6.117.3.7 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.region

Location region.

Definition at line 80 of file Geolocation.py.

6.117.3.8 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.timezone

Location timezone.

Definition at line 82 of file Geolocation.py.

6.117.3.9 RappCloud.CloudMsgs.Geolocation.Geolocation.Response.zip

Location zip-postal code.

Definition at line 84 of file Geolocation.py.

The documentation for this class was generated from the following file:

- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Geolocation.py](#)

6.118 rapp::cloud::service_controller Class Reference

Main class that controllers RAPP Services.

```
#include <service_controller.hpp>
```

Public Member Functions

- [service_controller](#) ()
no empty constructor
- void [run_job](#) (const std::shared_ptr< [asio_socket](#) > job)
Run one service job.
- void [run_jobs](#) (const std::vector< std::shared_ptr< [asio_socket](#) >> &jobs)
Run a group of jobs in a batch.
- void [stop](#) ()
stop the service controller

Private Attributes

- boost::asio::io_service [io_](#)
- boost::asio::ip::tcp::resolver::query [query_](#)
resolution, query and io service
- boost::asio::ip::tcp::resolver [resol_](#)

6.118.1 Detailed Description

Main class that controllers RAPP Services.

Version

Date

January-2016

AuthorAlex Gkiokas a.gkiokas@ortelio.co.uk

This class controls services (be it on cloud or robot). A service is a callable function which offers some type of functionality to the callee. Whilst most services reside on the cloud (`rapp::services::cloud`) some may reside on the robot (`rapp::services::robot`). The service controller is used for either cloud or robot, as it essentially controls the socket connections. This is low-level stuff, and is of little concern to external developers, and is to be used only by developers who wish to create or extend services.

Definition at line 20 of file `service_controller.hpp`.

6.118.2 Constructor & Destructor Documentation**6.118.2.1 rapp::cloud::service_controller::service_controller ()**

no empty constructor

Definition at line 5 of file `service_controller.cpp`.

6.118.3 Member Function Documentation**6.118.3.1 void rapp::cloud::service_controller::run_job (const std::shared_ptr< asio_socket > job)**

Run one service job.

Parameters

<i>client</i>	is the actual object pointer that will be executed in a single operation
---------------	--

Note

upon completion, the object's handler will be invoked
upon completion - scheduler is reset

Definition at line 9 of file `service_controller.cpp`.

6.118.3.2 void rapp::cloud::service_controller::run_jobs (const std::vector< std::shared_ptr< asio_socket >> & jobs)

Run a group of jobs in a batch.

Parameters

<i>jobs</i>	is vector of constant pointers to client services
-------------	---

Note

upon completion, the each object's handler will be invoked

Warning

upon completion, the queue schedule will be reset.

Definition at line 19 of file `service_controller.cpp`.

6.118.3.3 void rapp::cloud::service_controller::stop ()

stop the service controller

Definition at line 33 of file service_controller.cpp.

6.118.4 Member Data Documentation

6.118.4.1 boost::asio::io_service rapp::cloud::service_controller::io_ [private]

Definition at line 49 of file service_controller.hpp.

6.118.4.2 boost::asio::ip::tcp::resolver::query rapp::cloud::service_controller::query_ [private]

resolution, query and io service

Definition at line 48 of file service_controller.hpp.

6.118.4.3 boost::asio::ip::tcp::resolver rapp::cloud::service_controller::resol_ [private]

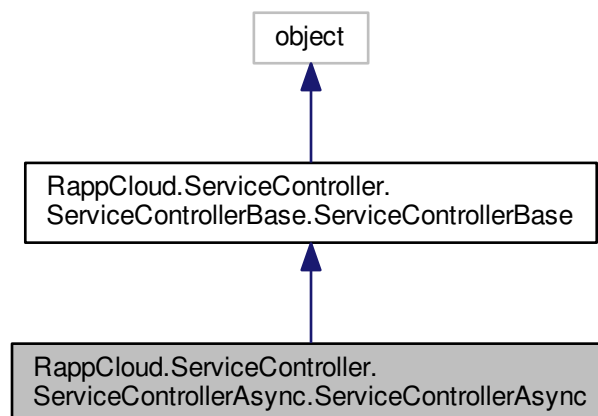
Definition at line 50 of file service_controller.hpp.

The documentation for this class was generated from the following files:

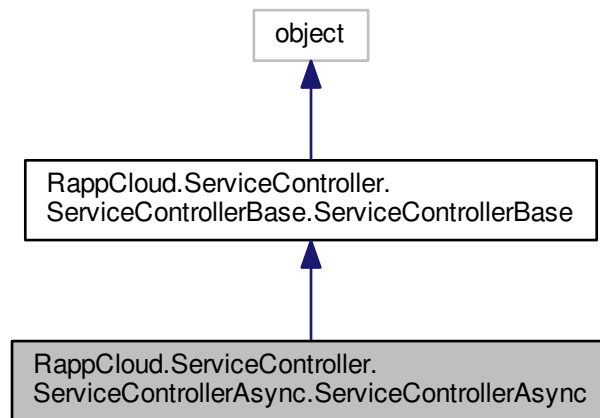
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/[service_controller.hpp](#)
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/[service_controller.cpp](#)

6.119 RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync Class Reference

Inheritance diagram for RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync:



Collaboration diagram for RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync:



Public Member Functions

- `def __init__`
Constructor.
- `def run_job`
Run the service.

Private Member Functions

- `def _worker_exec`

Private Attributes

- `__threadPool`

Additional Inherited Members

6.119.1 Detailed Description

Synchronous service controller class implementation.

Definition at line 37 of file ServiceControllerAsync.py.

6.119.2 Constructor & Destructor Documentation

6.119.2.1 `def RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync.__init__(self, service, max_workers = 8)`

Constructor.

Parameters

<i>service</i>	Service - Service instance.
<i>max_workers</i>	- Number of maximum workers to spawn

Definition at line 40 of file ServiceControllerAsync.py.

6.119.3 Member Function Documentation

6.119.3.1 `def RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync._worker_exec (self, msg, url, clb=None) [private]`

Definition at line 65 of file ServiceControllerAsync.py.

6.119.3.2 `def RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync.run_job (self, msg, url, clb=None)`

Run the service.

Submit callback function to the worker thread and return the future.

Parameters

<i>clb</i>	Function - Callback function to execute on arrival of the response.
------------	---

Returns

`_future` - The future.

Definition at line 52 of file ServiceControllerAsync.py.

6.119.4 Member Data Documentation

6.119.4.1 `RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync.__threadPool [private]`

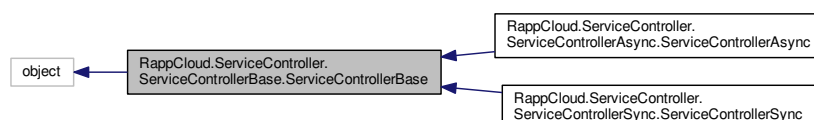
Definition at line 47 of file ServiceControllerAsync.py.

The documentation for this class was generated from the following file:

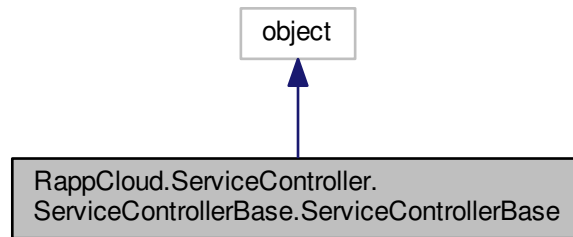
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerAsync.py](#)

6.120 RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase Class Reference

Inheritance diagram for RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase:



Collaboration diagram for RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase:



Public Member Functions

- `def __init__`
Constructor.
- `def basename`
Return the basename of input filepath.
- `def handle_exception`
Handles exceptions and return an error message that complies to the Exception caught.
- `def is_json`
Check if it is a json string.
- `def post_request`
General member method to perform a .post request to the.
- `def run_job`

Public Attributes

- `session_`

Private Member Functions

- `def __mount_adapters`
Mount http and https Transport [Adapters](#) to the session.
- `def _post_persistent`
Post Request using active session - persistent connection.
- `def _post_session_once`
Post Request while initiating a new session.

Private Attributes

- `__auth`
- `__customHeaders`
- `_service`
Cloud [Service](#) instance.

6.120.1 Detailed Description

Service Controller base class implementation

Definition at line 44 of file ServiceControllerBase.py.

6.120.2 Constructor & Destructor Documentation

6.120.2.1 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.__init__(self, service)`

Constructor.

Parameters

<i>service</i>	Service: Service instance
<i>connection</i>	dictionary: Connection information.
<i>timeout</i>	int: Connection Timeout value.

Definition at line 47 of file ServiceControllerBase.py.

6.120.3 Member Function Documentation

6.120.3.1 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.__mount_adapters(self, session)` `[private]`

Mount http and https Transport [Adapters](#) to the session.

Parameters

<i>session</i>	Session - The session to mount the adapters.
----------------	--

Definition at line 172 of file ServiceControllerBase.py.

6.120.3.2 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase._post_persistent(self, url, data, files)` `[private]`

Post Request using active session - persistent connection.

Parameters

<i>data</i>	dictionary - the data payload to send.
<i>files</i>	Array - Array of serialized File objects to send.

Definition at line 163 of file ServiceControllerBase.py.

6.120.3.3 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase._post_session_once(self, url, data, files)` `[private]`

Post Request while initiating a new session.

Parameters

<i>data</i>	dictionary - the data payload to send.
<i>files</i>	Array - Array of serialized File objects to send.

Definition at line 151 of file ServiceControllerBase.py.

6.120.3.4 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.basename (self, filepath)`

Return the basename of input filepath.

Definition at line 87 of file ServiceControllerBase.py.

6.120.3.5 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.handle_exception (self, exc)`

Handles exceptions and return an error message that complies to the Exception caught.

Parameters

<i>exc</i>	Exception of any type
------------	-----------------------

Definition at line 181 of file ServiceControllerBase.py.

6.120.3.6 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.is_json (self, obj)`

Check if it is a json string.

Parameters

<i>obj</i>	string
------------	--------

Returns

- True if is a json. False otherwise.

Definition at line 70 of file ServiceControllerBase.py.

6.120.3.7 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.post_request (self, session, url, payload = { }, files = [])`

General member method to perform a .post request to the.

Platform service. If files are specified, then multipart/form-data form is used. Otherwise, x-www-urlencoded form is used.

Parameters

<i>session</i>	The session object to use for this request.
<i>urlpath</i>	The complete urlpath of the request.
<i>data</i>	The data to send. Literal.
<i>files</i>	Files to send.

Returns

dictionary - Platform [Service](#) response.

Definition at line 93 of file ServiceControllerBase.py.

6.120.3.8 `def RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.run_job (self)`

Definition at line 83 of file ServiceControllerBase.py.

6.120.4 Member Data Documentation

6.120.4.1 `RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.__auth` [private]

Definition at line 62 of file `ServiceControllerBase.py`.

6.120.4.2 `RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.__customHeaders` [private]

Definition at line 64 of file `ServiceControllerBase.py`.

6.120.4.3 `RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase._service` [private]

Cloud [Service](#) instance.

Definition at line 55 of file `ServiceControllerBase.py`.

6.120.4.4 `RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase.session_`

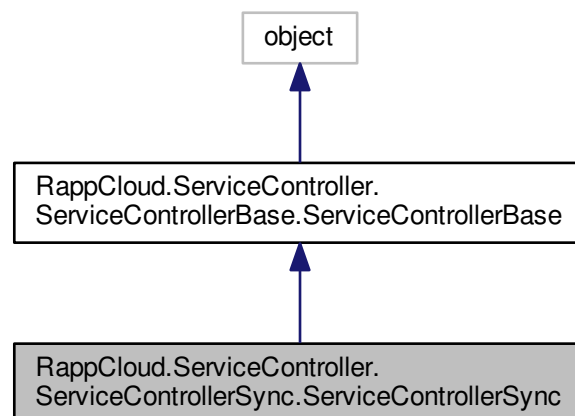
Definition at line 59 of file `ServiceControllerBase.py`.

The documentation for this class was generated from the following file:

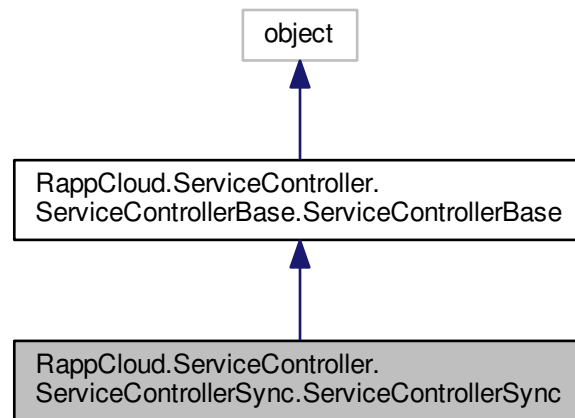
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerBase.py`

6.121 `RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync` Class Reference

Inheritance diagram for `RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync`:



Collaboration diagram for RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync:



Public Member Functions

- def `__init__`
Constructor.
- def `run_job`
Run the service.

Additional Inherited Members

6.121.1 Detailed Description

Synchronous service controller class implementation.

Definition at line 34 of file ServiceControllerSync.py.

6.121.2 Constructor & Destructor Documentation

6.121.2.1 def RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync.__init__(self, service)

Constructor.

Parameters

<code>service</code>	Service - Service instance.
----------------------	---

Definition at line 37 of file ServiceControllerSync.py.

6.121.3 Member Function Documentation

6.121.3.1 def RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync.run_job(self, msg, url)

Run the service.

Definition at line 45 of file ServiceControllerSync.py.

The documentation for this class was generated from the following file:

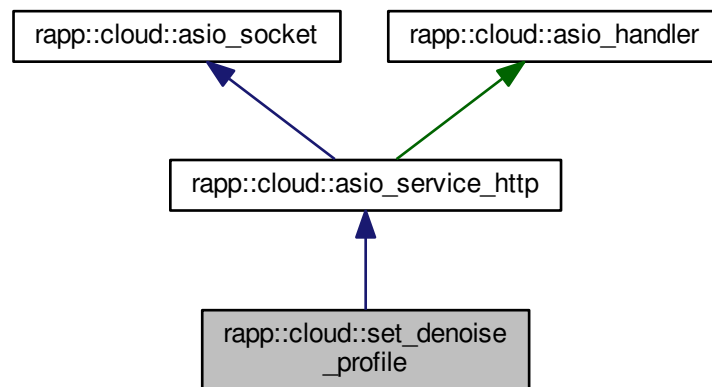
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerSync.py](#)

6.122 rapp::cloud::set_denoise_profile Class Reference

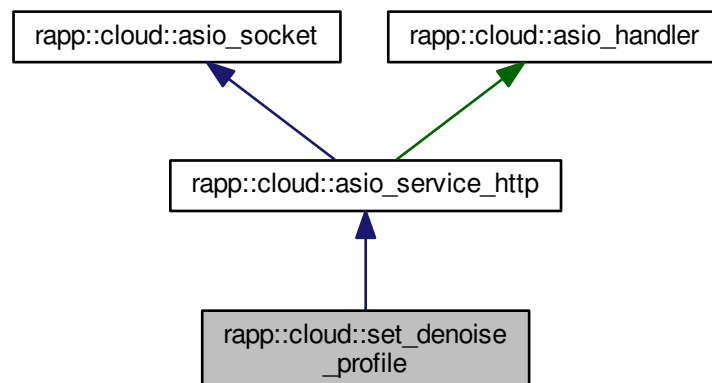
setting the denoising audio profile for speech recognition

```
#include <set_denoise_profile.hpp>
```

Inheritance diagram for rapp::cloud::set_denoise_profile:



Collaboration diagram for rapp::cloud::set_denoise_profile:



Public Member Functions

- [set_denoise_profile](#) (const std::shared_ptr< [rapp::object::audio](#) > file, const std::string user, const std::string token)

set a de-noising profile for a user (for speech recognition)

Private Member Functions

- void [handle_reply](#) (std::string json)
handle platform reply (error notifications only)

Additional Inherited Members

6.122.1 Detailed Description

setting the denoising audio profile for speech recognition

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file set_denoise_profile.hpp.

6.122.2 Constructor & Destructor Documentation

- 6.122.2.1 `rapp::cloud::set_denoise_profile::set_denoise_profile (const std::shared_ptr< rapp::object::audio > file, const std::string user, const std::string token)`

set a de-noising profile for a user (for speech recognition)

Note

This class does not return something, it only captures an error

Parameters

<i>file</i>	is the noise audio file used for de-noising
<i>user</i>	is the user denoise profile
<i>token</i>	is the rapp authentication token

Definition at line 23 of file set_denoise_profile.hpp.

6.122.3 Member Function Documentation

- 6.122.3.1 `void rapp::cloud::set_denoise_profile::handle_reply (std::string json)` `[private]`

handle platform reply (error notifications only)

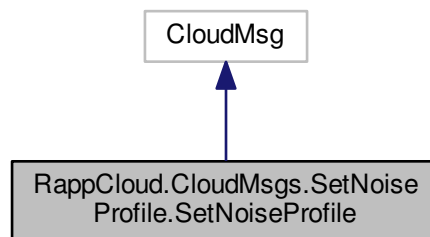
Definition at line 57 of file `set_denoise_profile.hpp`.

The documentation for this class was generated from the following file:

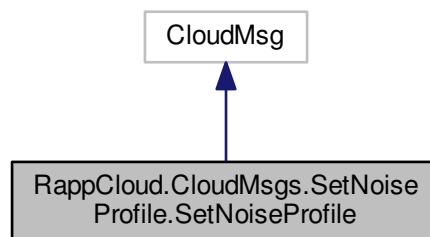
- `/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/set_denoise_profile/set_denoise_profile.hpp`

6.123 RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile:



Collaboration diagram for RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.123.1 Detailed Description

Set Noise Profile Cloud Message object

Definition at line 11 of file SetNoiseProfile.py.

6.123.2 Constructor & Destructor Documentation

6.123.2.1 `def RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.audio_source • Request.audiofile
------------------------------	--

Definition at line 64 of file SetNoiseProfile.py.

6.123.3 Member Data Documentation

6.123.3.1 `RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.req`

Definition at line 74 of file SetNoiseProfile.py.

6.123.3.2 `RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.resp`

Definition at line 76 of file SetNoiseProfile.py.

The documentation for this class was generated from the following file:

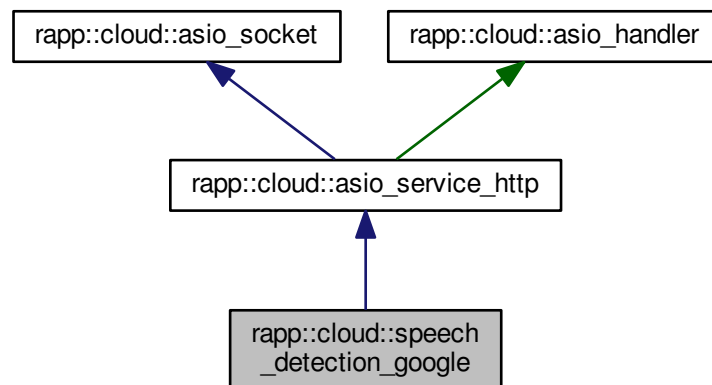
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py`

6.124 rapp::cloud::speech_detection_google Class Reference

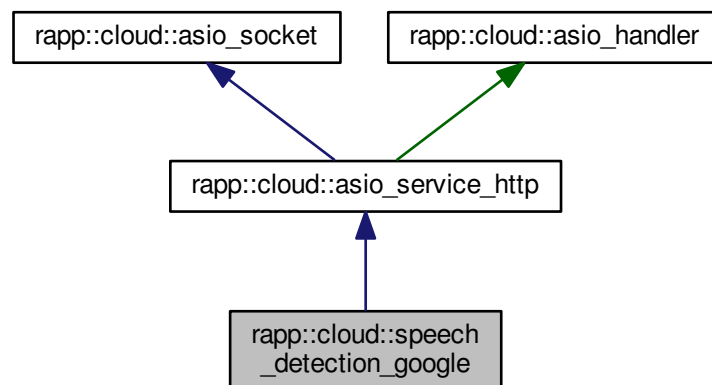
delegate speech-to-text to Google via RAPP

```
#include <speech_detection_google.hpp>
```

Inheritance diagram for `rapp::cloud::speech_detection_google`:



Collaboration diagram for `rapp::cloud::speech_detection_google`:



Public Member Functions

- `speech_detection_google` (const std::shared_ptr< [rapp::object::audio](#) > file, const std::string language, const std::string user, std::function< void(std::vector< std::string >, std::vector< std::string >)> callback)
construct the handler which will query the Google API

Private Member Functions

- void `handle_reply` (std::string json)
handle rapp-platform JSON reply

Private Attributes

- `std::function< void(std::vector< std::string >, std::vector< std::string >)>` [delegate_](#)

The callback called upon completion of receiving the detected words and alternatives.

Additional Inherited Members

6.124.1 Detailed Description

delegate speech-to-text to Google via RAPP

Version

0.5.0

Date

January 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file `speech_detection_google.hpp`.

6.124.2 Constructor & Destructor Documentation

6.124.2.1 `rapp::cloud::speech_detection_google::speech_detection_google (const std::shared_ptr< rapp::object::audio > file, const std::string language, const std::string user, std::function< void(std::vector< std::string >, std::vector< std::string >)> callback)`

construct the handler which will query the Google API

Parameters

<i>file</i>	is the audio file used for speech recognition.
-------------	--

Note

the audio file should be an inheriting class (

See Also

[objects/audio/audio.hpp](#))

Parameters

<i>language</i>	defines the language used for speech recognition (e.g., 'en', 'gr', etc.)
<i>user</i>	is required so that denoising can take place

<i>callback</i>	is the functor/lambda/function pointer delegate that will receive the result
-----------------	--

Definition at line 24 of file `speech_detection_google.hpp`.

6.124.3 Member Function Documentation

6.124.3.1 `void rapp::cloud::speech_detection_google::handle_reply (std::string json) [private]`

handle rapp-platform JSON reply

Definition at line 56 of file `speech_detection_google.hpp`.

6.124.4 Member Data Documentation

6.124.4.1 `std::function<void(std::vector<std::string>, std::vector<std::string>)> rapp::cloud::speech_detection_google::delegate_ [private]`

The callback called upon completion of receiving the detected words and alternatives.

Definition at line 87 of file `speech_detection_google.hpp`.

The documentation for this class was generated from the following file:

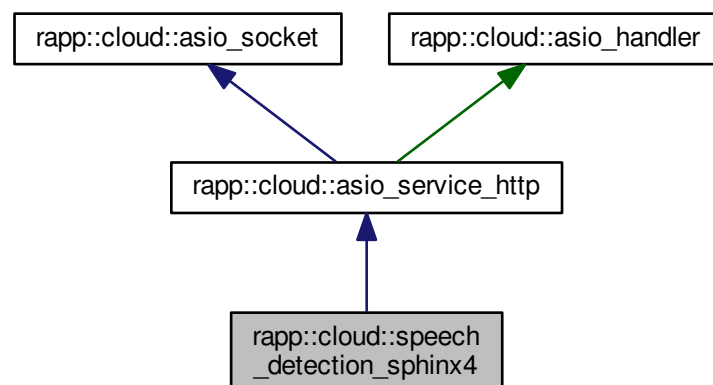
- [/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_google/speech_detection_google.hpp](#)

6.125 rapp::cloud::speech_detection_sphinx4 Class Reference

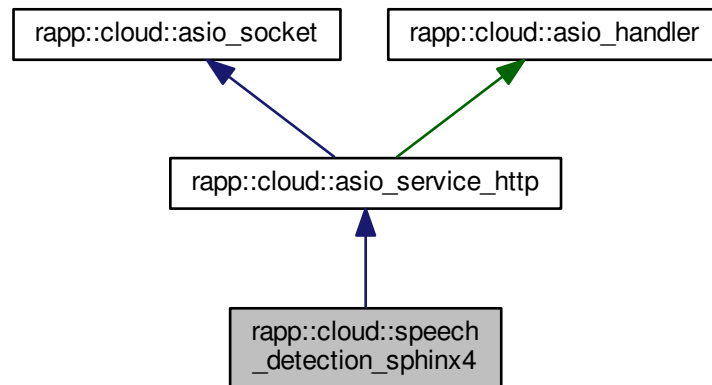
speech-to-text recognition using CMU sphinx4

```
#include <speech_detection_sphinx4.hpp>
```

Inheritance diagram for `rapp::cloud::speech_detection_sphinx4`:



Collaboration diagram for rapp::cloud::speech_detection_sphinx4:



Public Member Functions

- [speech_detection_sphinx4](#) (const std::shared_ptr< [rapp::object::audio](#) > file, const std::string language, const std::string user, const std::vector< std::string > grammar, const std::vector< std::string > words, const std::vector< std::string > sentences, std::function< void(std::vector< std::string > words)> callback, std::string token)

construct a speechToText handler

Private Member Functions

- void [handle_reply](#) (std::string json)

handle the rappl-platform JSON reply

Private Attributes

- std::function< void(std::vector< std::string > words)> [delegate_](#)

The callback called upon completion of receiving the detected words.

Additional Inherited Members

6.125.1 Detailed Description

speech-to-text recognition using CMU sphinx4

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file `speech_detection_sphinx4.hpp`.

6.125.2 Constructor & Destructor Documentation

6.125.2.1 `rapp::cloud::speech_detection_sphinx4::speech_detection_sphinx4 (const std::shared_ptr< rapp::object::audio > file, const std::string language, const std::string user, const std::vector< std::string > grammar, const std::vector< std::string > words, const std::vector< std::string > sentences, std::function< void(std::vector< std::string > words)> callback, std::string token)`

construct a speechToText handler

Parameters

<i>audio</i>	is the actual binary sound file
<i>language</i>	is the language used for speech to text
<i>grammar</i>	is the Grammars used in Spc2Txt
<i>user</i>	is the user token
<i>words</i>	will be searched for in the audio
<i>sentences</i>	will be under consideration
<i>callback</i>	will be executed once the rapp cloud has responded
<i>token</i>	is the rapp authentication token

Definition at line 27 of file `speech_detection_sphinx4.hpp`.

6.125.3 Member Function Documentation

6.125.3.1 `void rapp::cloud::speech_detection_sphinx4::handle_reply (std::string json) [private]`

handle the rappl-platform JSON reply

Definition at line 85 of file `speech_detection_sphinx4.hpp`.

6.125.4 Member Data Documentation

6.125.4.1 `std::function<void(std::vector<std::string> words)> rapp::cloud::speech_detection_sphinx4::delegate_ [private]`

The callback called upon completion of receiving the detected words.

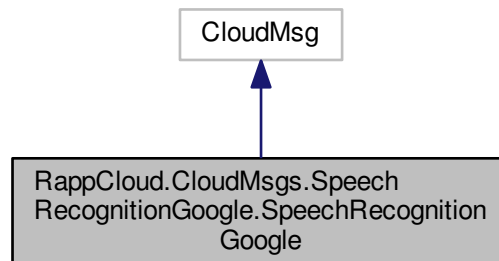
Definition at line 113 of file `speech_detection_sphinx4.hpp`.

The documentation for this class was generated from the following file:

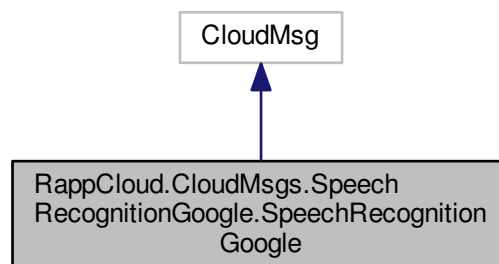
- [/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_sphinx4/speech_detection_sphinx4.hpp](#)

6.126 RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.126.1 Detailed Description

Speech Recognition Google Cloud Message object

Definition at line 11 of file SpeechRecognitionGoogle.py.

6.126.2 Constructor & Destructor Documentation

6.126.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	<ul style="list-style-type: none">- Keyword arguments. Apply values to the request attributes.<ul style="list-style-type: none">• Request.audio_source• Request.audiofile• Request.language
------------------------------	---

Definition at line 76 of file SpeechRecognitionGoogle.py.

6.126.3 Member Data Documentation

6.126.3.1 `RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.req`

Definition at line 87 of file SpeechRecognitionGoogle.py.

6.126.3.2 `RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.resp`

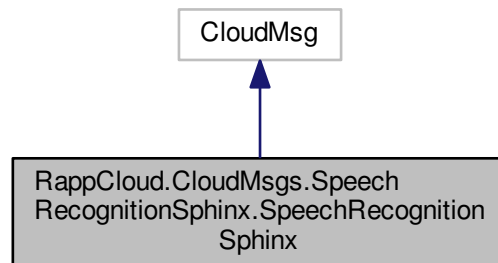
Definition at line 89 of file SpeechRecognitionGoogle.py.

The documentation for this class was generated from the following file:

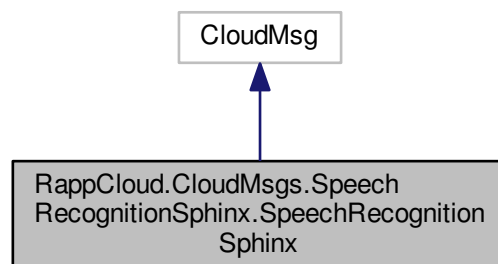
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionGoogle.py](#)

6.127 RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx Class Reference

Inheritance diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx:



Collaboration diagram for RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.127.1 Detailed Description

Speech Recognition Sphinx4 Cloud Message object

Definition at line 11 of file SpeechRecognitionSphinx.py.

6.127.2 Constructor & Destructor Documentation

6.127.2.1 `def RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	<p>- Keyword arguments. Apply values to the request attributes.</p> <ul style="list-style-type: none">• Request.audio_source• Request.audiofile• Request.language• Request.words• Request.sentences• Request.grammar
------------------------------	---

Definition at line 82 of file SpeechRecognitionSphinx.py.

6.127.3 Member Data Documentation

6.127.3.1 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.req`

Definition at line 96 of file SpeechRecognitionSphinx.py.

6.127.3.2 `RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.resp`

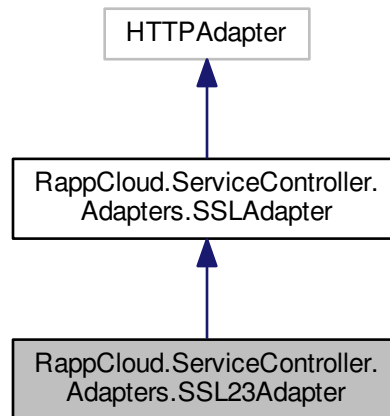
Definition at line 98 of file SpeechRecognitionSphinx.py.

The documentation for this class was generated from the following file:

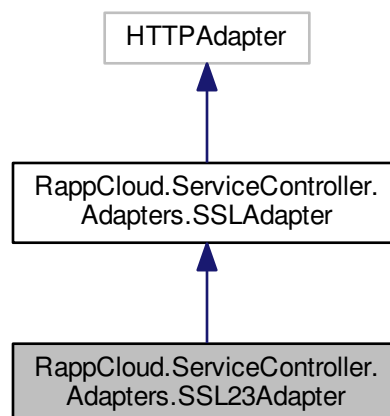
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognitionSphinx.py](#)

6.128 RappCloud.ServiceController.Adapters.SSL23Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.SSL23Adapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.SSL23Adapter:



Public Member Functions

- `def __init__`

Additional Inherited Members

6.128.1 Detailed Description

SSLv2_3 Default transport Adapter

Definition at line 167 of file Adapters.py.

6.128.2 Constructor & Destructor Documentation

6.128.2.1 `def RappCloud.ServiceController.Adapters.SSL23Adapter.__init__(self, kwargs)`

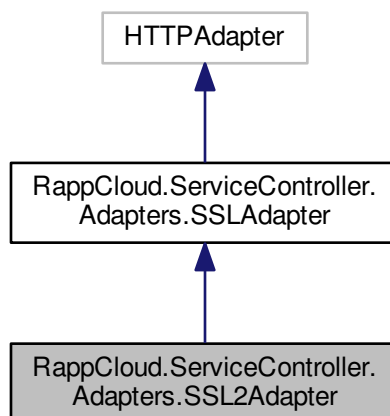
Definition at line 169 of file Adapters.py.

The documentation for this class was generated from the following file:

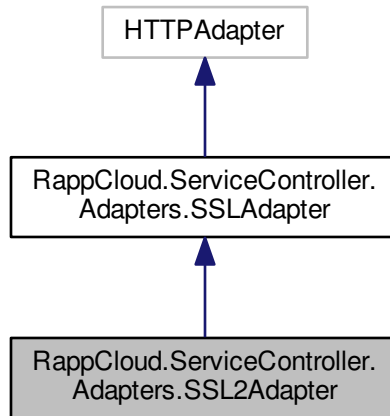
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py

6.129 RappCloud.ServiceController.Adapters.SSL2Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.SSL2Adapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.SSL2Adapter:



Public Member Functions

- `def __init__`

Additional Inherited Members

6.129.1 Detailed Description

SSLv2 Default transport Adapter

Definition at line 155 of file Adapters.py.

6.129.2 Constructor & Destructor Documentation

6.129.2.1 `def RappCloud.ServiceController.Adapters.SSL2Adapter.__init__(self, kwargs)`

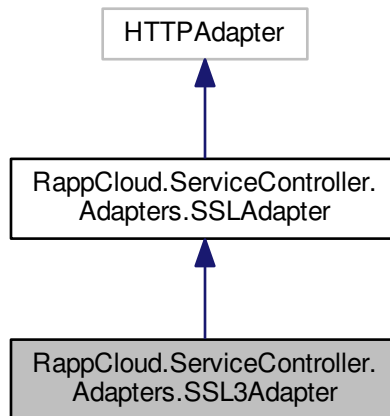
Definition at line 157 of file Adapters.py.

The documentation for this class was generated from the following file:

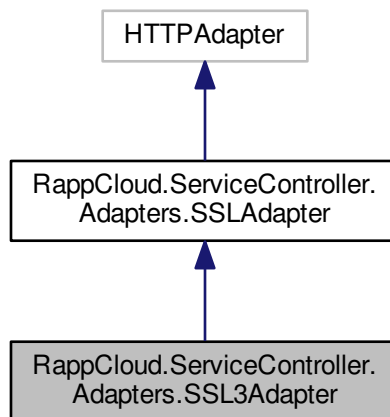
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py`

6.130 RappCloud.ServiceController.Adapters.SSL3Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.SSL3Adapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.SSL3Adapter:



Public Member Functions

- `def __init__`

Additional Inherited Members

6.130.1 Detailed Description

SSLv3 Default transport Adapter

Definition at line 161 of file Adapters.py.

6.130.2 Constructor & Destructor Documentation

6.130.2.1 `def RappCloud.ServiceController.Adapters.SSL3Adapter.__init__(self, kwargs)`

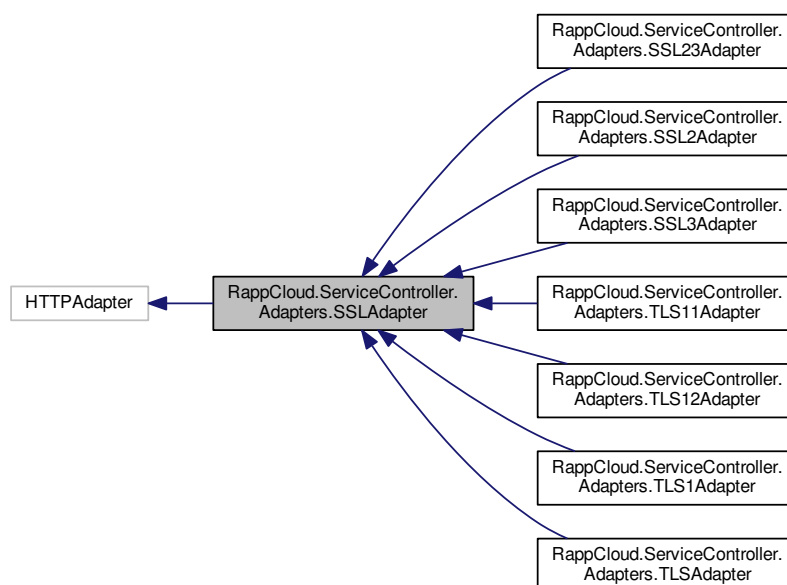
Definition at line 163 of file Adapters.py.

The documentation for this class was generated from the following file:

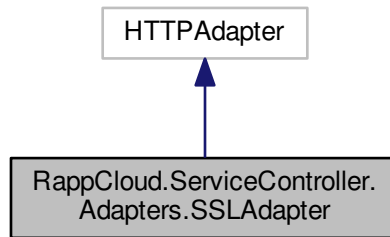
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py

6.131 RappCloud.ServiceController.Adapters.SSLAdapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.SSLAdapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.SSLAdapter:



Public Member Functions

- `def __init__`
- `def init_poolmanager`

Public Attributes

- `poolmanager`
- `ssl_version`

6.131.1 Detailed Description

SSL Default transport Adapter

Definition at line 117 of file Adapters.py.

6.131.2 Constructor & Destructor Documentation

6.131.2.1 `def RappCloud.ServiceController.Adapters.SSLAdapter.__init__(self, ssl_version=None, kwargs)`

Definition at line 119 of file Adapters.py.

6.131.3 Member Function Documentation

6.131.3.1 `def RappCloud.ServiceController.Adapters.SSLAdapter.init_poolmanager(self, connections, maxsize, block=False)`

Definition at line 124 of file Adapters.py.

6.131.4 Member Data Documentation

6.131.4.1 `RappCloud.ServiceController.Adapters.SSLAdapter.poolmanager`

Definition at line 125 of file Adapters.py.

6.131.4.2 RappCloud.ServiceController.Adapters.SSLAdapter.ssl_version

Definition at line 120 of file Adapters.py.

The documentation for this class was generated from the following file:

- [/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py](#)

6.132 RappCloud.ServiceController.Adapters.SSLDef Class Reference

Static Public Attributes

- [SSLv2](#) = None
- [SSLv2_3](#) = None
- [SSLv3](#) = None
- [TLSv1](#) = None
- [TLSv1_1](#) = None
- [TLSv1_2](#) = None

6.132.1 Detailed Description

SSL/TLS Definitions namespace

SSL/TLS protocol versions definitions

Definition at line 39 of file Adapters.py.

6.132.2 Member Data Documentation

6.132.2.1 RappCloud.ServiceController.Adapters.SSLDef.SSLv2 = None [static]

Definition at line 47 of file Adapters.py.

6.132.2.2 RappCloud.ServiceController.Adapters.SSLDef.SSLv2_3 = None [static]

Definition at line 49 of file Adapters.py.

6.132.2.3 RappCloud.ServiceController.Adapters.SSLDef.SSLv3 = None [static]

Definition at line 48 of file Adapters.py.

6.132.2.4 RappCloud.ServiceController.Adapters.SSLDef.TLSv1 = None [static]

Definition at line 44 of file Adapters.py.

6.132.2.5 RappCloud.ServiceController.Adapters.SSLDef.TLSv1_1 = None [static]

Definition at line 45 of file Adapters.py.

6.132.2.6 RappCloud.ServiceController.Adapters.SSLDef.TLSv1_2 = None [static]

Definition at line 46 of file Adapters.py.

The documentation for this class was generated from the following file:

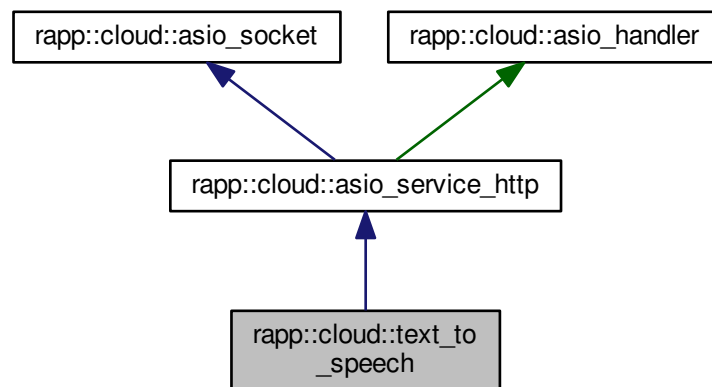
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/[Adapters.py](#)

6.133 rapp::cloud::text_to_speech Class Reference

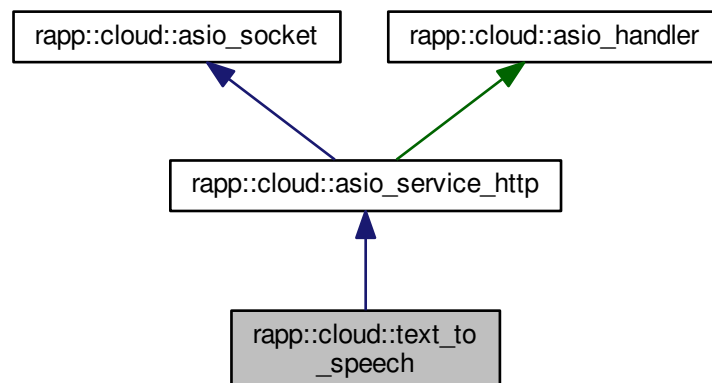
request speech audio from text

```
#include <text_to_speech.hpp>
```

Inheritance diagram for rapp::cloud::text_to_speech:



Collaboration diagram for rapp::cloud::text_to_speech:



Public Types

- typedef
[rapp::object::microphone_wav wav_file](#)

Public Member Functions

- [text_to_speech](#) (const std::string text, const std::string language, const std::string token, std::function< void(std::unique_ptr< [wav_file](#) >)> callback)
construct handler which will request speech audio from text

Private Member Functions

- void [handle_reply](#) (std::string json)
handle platform's JSON reply

Private Attributes

- std::function< void(std::unique_ptr< [wav_file](#) > wav)> [delegate_](#)

Additional Inherited Members

6.133.1 Detailed Description

request speech audio from text

Version

0.6.0

Date

April 2016

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file text_to_speech.hpp.

6.133.2 Member Typedef Documentation

6.133.2.1 typedef rapp::object::microphone_wav rapp::cloud::text_to_speech::wav_file

Definition at line 16 of file text_to_speech.hpp.

6.133.3 Constructor & Destructor Documentation

6.133.3.1 rapp::cloud::text_to_speech::text_to_speech (const std::string text, const std::string language, const std::string token, std::function< void(std::unique_ptr< [wav_file](#) >)> callback)

construct handler which will request speech audio from text

Parameters

<i>text</i>	is the text to be converted to audio
<i>language</i>	is language will receive the speech audio object

Definition at line 23 of file text_to_speech.hpp.

6.133.4 Member Function Documentation

6.133.4.1 `void rapp::cloud::text_to_speech::handle_reply (std::string json)` [private]

handle platform's JSON reply

Definition at line 45 of file text_to_speech.hpp.

6.133.5 Member Data Documentation

6.133.5.1 `std::function<void(std::unique_ptr<wav_file> wav)> rapp::cloud::text_to_speech::delegate_` [private]

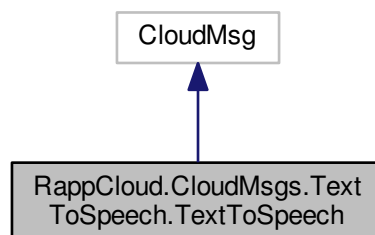
Definition at line 79 of file text_to_speech.hpp.

The documentation for this class was generated from the following file:

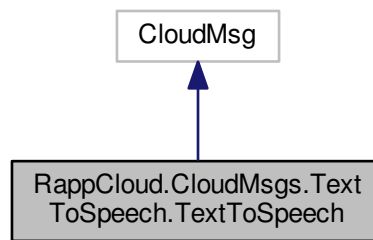
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text_to_speech/text_to_speech.hpp

6.134 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech Class Reference

Inheritance diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech:



Collaboration diagram for RappCloud.CloudMsgs.TextToSpeech.TextToSpeech:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.134.1 Detailed Description

Text-To-Speech (TTS) Cloud Message object

Definition at line 14 of file TextToSpeech.py.

6.134.2 Constructor & Destructor Documentation

6.134.2.1 `def RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.text • Request.language
------------------------------	---

Definition at line 108 of file TextToSpeech.py.

6.134.3 Member Data Documentation

6.134.3.1 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.req

Definition at line 118 of file TextToSpeech.py.

6.134.3.2 RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.resp

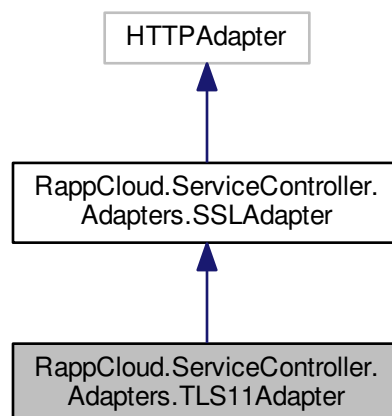
Definition at line 120 of file TextToSpeech.py.

The documentation for this class was generated from the following file:

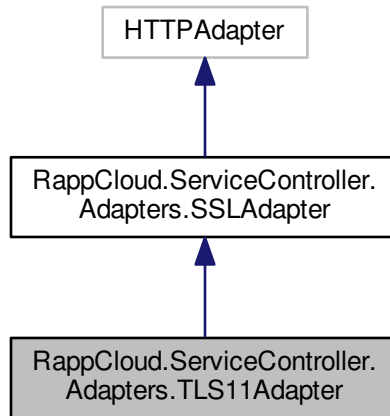
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py](#)

6.135 RappCloud.ServiceController.Adapters.TLS11Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.TLS11Adapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.TLS11Adapter:



Public Member Functions

- `def __init__`

Additional Inherited Members

6.135.1 Detailed Description

TLsv1.1 Default transport Adapter

Definition at line 143 of file Adapters.py.

6.135.2 Constructor & Destructor Documentation

6.135.2.1 `def RappCloud.ServiceController.Adapters.TLS11Adapter.__init__(self, kwargs)`

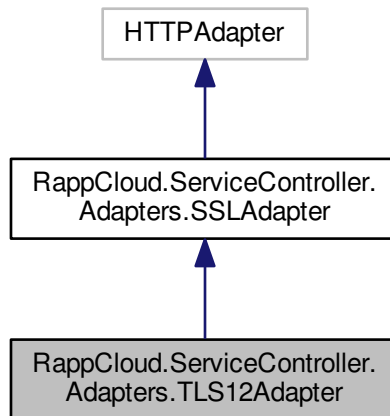
Definition at line 145 of file Adapters.py.

The documentation for this class was generated from the following file:

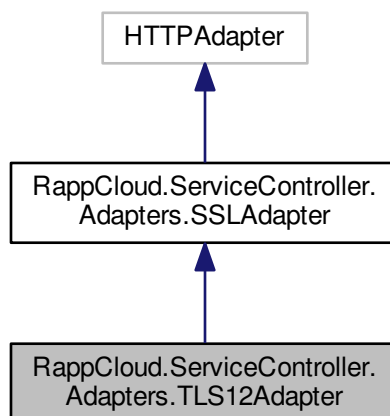
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py`

6.136 RappCloud.ServiceController.Adapters.TLS12Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.TLS12Adapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.TLS12Adapter:



Public Member Functions

- def [__init__](#)

Additional Inherited Members

6.136.1 Detailed Description

TLSSv1.2 Default transport Adapter

Definition at line 149 of file Adapters.py.

6.136.2 Constructor & Destructor Documentation

6.136.2.1 `def RappCloud.ServiceController.Adapters.TLS1Adapter.__init__(self, kwargs)`

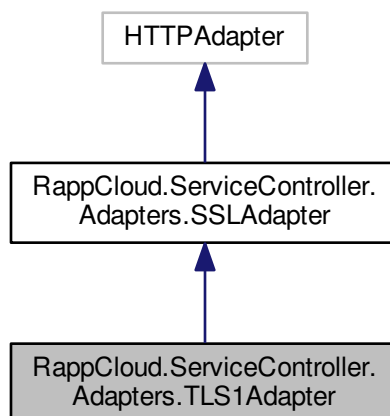
Definition at line 151 of file Adapters.py.

The documentation for this class was generated from the following file:

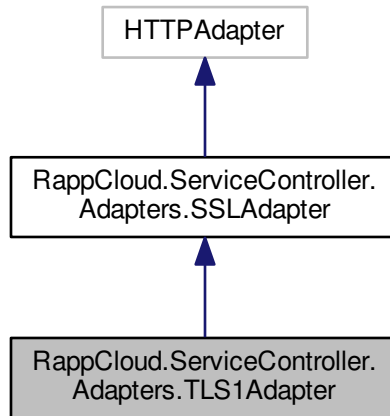
- /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py

6.137 RappCloud.ServiceController.Adapters.TLS1Adapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.TLS1Adapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.TLS1Adapter:



Public Member Functions

- `def __init__`

Additional Inherited Members

6.137.1 Detailed Description

TLsV1 Default transport Adapter

Definition at line 137 of file Adapters.py.

6.137.2 Constructor & Destructor Documentation

6.137.2.1 `def RappCloud.ServiceController.Adapters.TLS1Adapter.__init__(self, kwargs)`

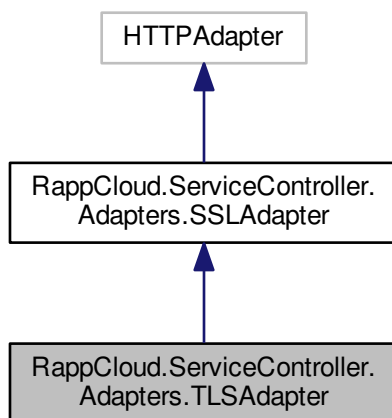
Definition at line 139 of file Adapters.py.

The documentation for this class was generated from the following file:

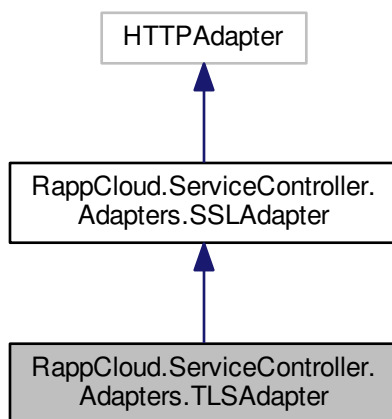
- `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py`

6.138 RappCloud.ServiceController.Adapters.TLSAdapter Class Reference

Inheritance diagram for RappCloud.ServiceController.Adapters.TLSAdapter:



Collaboration diagram for RappCloud.ServiceController.Adapters.TLSAdapter:



Public Member Functions

- `def __init__`

Additional Inherited Members

6.138.1 Detailed Description

TLS Default transport Adapter

Definition at line 131 of file Adapters.py.

6.138.2 Constructor & Destructor Documentation

6.138.2.1 `def RappCloud.ServiceController.Adapters.TLSAdapter.__init__(self, kwargs)`

Definition at line 133 of file Adapters.py.

The documentation for this class was generated from the following file:

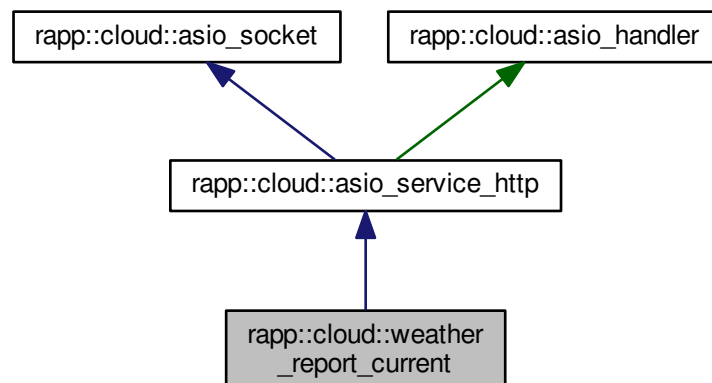
- [/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py](#)

6.139 rapp::cloud::weather_report_current Class Reference

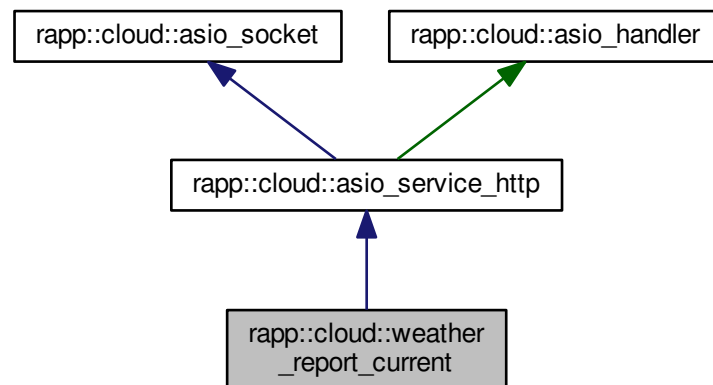
get current weather report

```
#include <weather_report.hpp>
```

Inheritance diagram for rapp::cloud::weather_report_current:



Collaboration diagram for rapp::cloud::weather_report_current:



Public Member Functions

- [weather_report_current](#) (const std::string city, const std::string weather_reporter, const unsigned int metric, const std::string token, std::function< void(std::string)> callback)

Private Member Functions

- void [handle_reply](#) (std::string json)
handle platform's JSON reply

Private Attributes

- std::function< void(std::string)> [delegate_](#)

Additional Inherited Members

6.139.1 Detailed Description

get current weather report

Version

0.6.0

Date

May 2016

Definition at line 13 of file weather_report.hpp.

6.139.2 Constructor & Destructor Documentation

6.139.2.1 `rapp::cloud::weather_report_current::weather_report_current (const std::string city, const std::string weather_reporter, const unsigned int metric, const std::string token, std::function< void(std::string)> callback)`

Parameters

<i>city</i>	location for the weather report query
<i>weather_reporter</i>	the weather API to use
<i>metric</i>	the return value type
<i>token</i>	the rapp auth token
<i>callback</i>	receives a JSON reply

Definition at line 23 of file weather_report.hpp.

6.139.3 Member Function Documentation

6.139.3.1 void rapp::cloud::weather_report_current::handle_reply (std::string json) [private]

handle platform's JSON reply

Definition at line 47 of file weather_report.hpp.

6.139.4 Member Data Documentation

6.139.4.1 std::function<void(std::string)> rapp::cloud::weather_report_current::delegate_ [private]

Definition at line 53 of file weather_report.hpp.

The documentation for this class was generated from the following file:

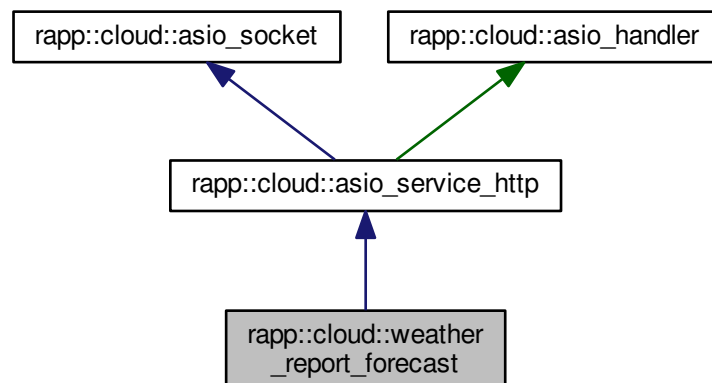
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/weather_report.hpp

6.140 rapp::cloud::weather_report_forecast Class Reference

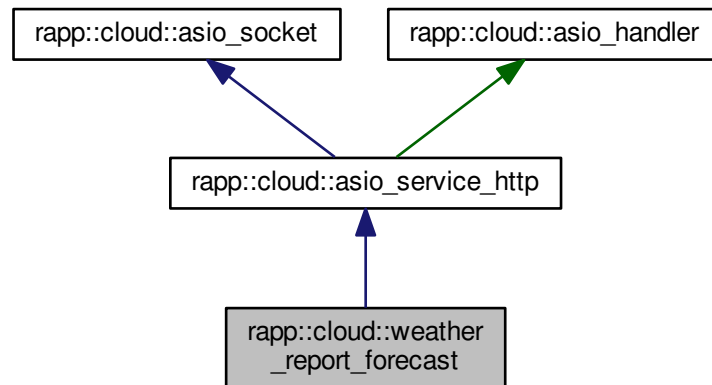
get weather forecast

```
#include <weather_report.hpp>
```

Inheritance diagram for rapp::cloud::weather_report_forecast:



Collaboration diagram for `rapp::cloud::weather_report_forecast`:



Public Member Functions

- [weather_report_forecast](#) (const std::string city, const std::string weather_reporter, const unsigned int metric, const std::string token, std::function< void(std::string)> callback)

Private Member Functions

- void [handle_reply](#) (std::string json)
handle platform's JSON reply

Private Attributes

- std::function< void(std::string)> [delegate_](#)

Additional Inherited Members

6.140.1 Detailed Description

get weather forecast

Version

0.6.0

Date

May 2016

Definition at line 62 of file `weather_report.hpp`.

6.140.2 Constructor & Destructor Documentation

- 6.140.2.1 rapp::cloud::weather_report_forecast::weather_report_forecast (const std::string *city*, const std::string *weather_reporter*, const unsigned int *metric*, const std::string *token*, std::function< void(std::string)> *callback*)

Parameters

<i>city</i>	location of the weather forecast query
<i>weather_ - reporter</i>	weather API being queried
<i>metric</i>	return value units
<i>token</i>	the rapp auth token
<i>callback</i>	receives a JSON reply

Definition at line 72 of file weather_report.hpp.

6.140.3 Member Function Documentation

6.140.3.1 `void rapp::cloud::weather_report_forecast::handle_reply (std::string json) [private]`

handle platform's JSON reply

Definition at line 96 of file weather_report.hpp.

6.140.4 Member Data Documentation

6.140.4.1 `std::function<void(std::string)> rapp::cloud::weather_report_forecast::delegate_ [private]`

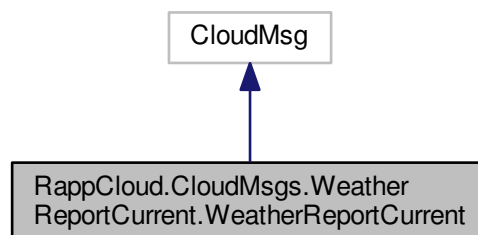
Definition at line 102 of file weather_report.hpp.

The documentation for this class was generated from the following file:

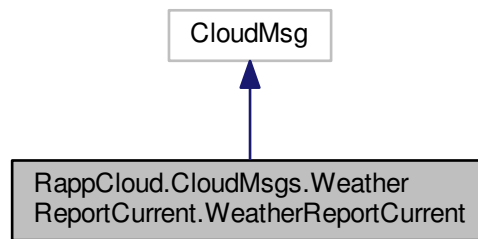
- /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/weather_report.hpp

6.141 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def `__init__`
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.141.1 Detailed Description

Weather Report Current Cloud Message object

Definition at line 11 of file WeatherReportCurrent.py.

6.141.2 Constructor & Destructor Documentation

6.141.2.1 `def RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.__init__(self, kwargs)`

Constructor.

Parameters

<code>**kwargs</code>	- Keyword arguments. Apply values to the request attributes. <ul style="list-style-type: none"> • Request.city • Request.weather_reporter • Request.metric
------------------------------	---

Definition at line 97 of file WeatherReportCurrent.py.

6.141.3 Member Data Documentation

6.141.3.1 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.req

Definition at line 108 of file WeatherReportCurrent.py.

6.141.3.2 RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.resp

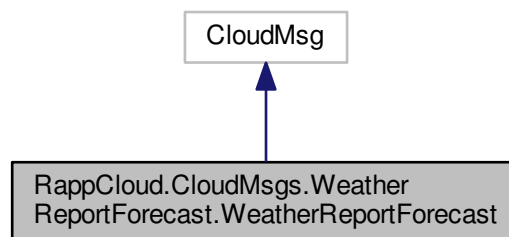
Definition at line 110 of file WeatherReportCurrent.py.

The documentation for this class was generated from the following file:

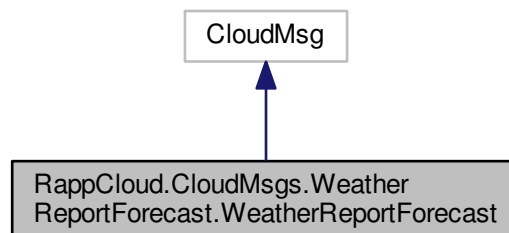
- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[WeatherReportCurrent.py](#)

6.142 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast Class Reference

Inheritance diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast:



Collaboration diagram for RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast:



Classes

- class [Request](#)
- class [Response](#)

Public Member Functions

- def [__init__](#)
Constructor.

Public Attributes

- [req](#)
- [resp](#)

6.142.1 Detailed Description

Weather Report Forecast Cloud Message object

Definition at line 11 of file WeatherReportForecast.py.

6.142.2 Constructor & Destructor Documentation

6.142.2.1 def RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.__init__(self, kwargs)

Constructor.

Parameters

<code>**kwargs</code>	<p>- Keyword arguments. Apply values to the request attributes.</p> <ul style="list-style-type: none">• Request.city• Request.weather_reporter• Request.metric
------------------------------	--

Definition at line 74 of file WeatherReportForecast.py.

6.142.3 Member Data Documentation

6.142.3.1 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.req

Definition at line 85 of file WeatherReportForecast.py.

6.142.3.2 RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.resp

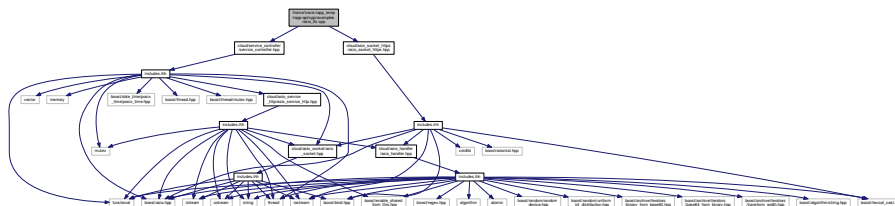
Definition at line 87 of file WeatherReportForecast.py.

The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/[WeatherReportForecast.py](#)

File Documentation

```
#include "cloud/service_controller/service_controller.hpp"
#include "cloud/asio_socket_https/asio_socket_https.hpp"
Include dependency graph for asio_tls.cpp:
```



- int **main** (int argc, char *argv[])

7.1.1.1 int main (int argc, char * argv[])

Definition at line 6 of file asio_tls.cpp.

```
#include "cloud/service_controller/service_controller.hpp"
#include "cloud/vision/face_detection/face_detection.hpp"
#include "objects/picture/picture.hpp"
```

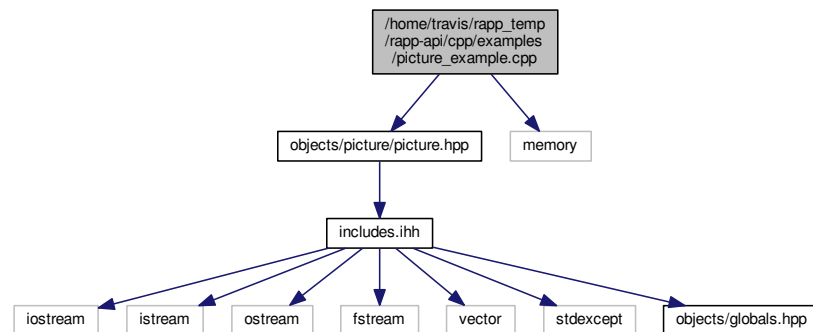

Definition at line 7 of file ontology_example.cpp.

7.5 /home/travis/rapp_temp/rapp-api/cpp/examples/picture_example.cpp File Reference

```
#include "objects/picture/picture.hpp"
```

```
#include <memory>
```

Include dependency graph for picture_example.cpp:



Functions

- int [main](#) (int argc, char *argv[])

7.5.1 Function Documentation

7.5.1.1 int main (int argc, char * argv[])

Open a picture and load it into an object

Definition at line 6 of file picture_example.cpp.

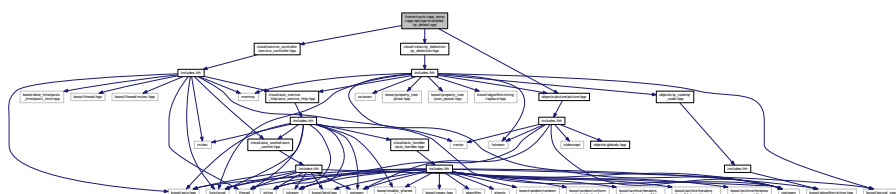
7.6 /home/travis/rapp_temp/rapp-api/cpp/examples/qr_detect.cpp File Reference

```
#include "cloud/service_controller/service_controller.hpp"
```

```
#include "cloud/vision/qr_detection/qr_detection.hpp"
```

```
#include "objects/picture/picture.hpp"
```

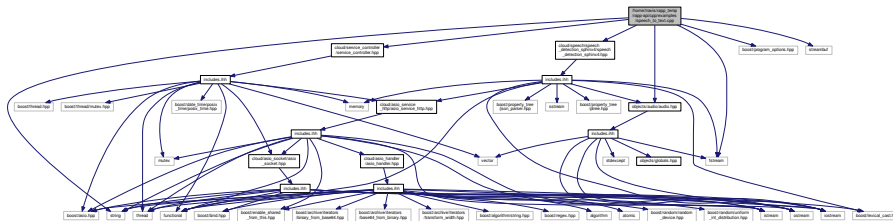
Include dependency graph for qr_detect.cpp:




```

hpp"
#include "objects/audio/audio.hpp"
#include <boost/program_options.hpp>
#include <string>
#include <fstream>
#include <streambuf>
Include dependency graph for speech_to_text.cpp:

```



Functions

- `std::string load_jsgf` (const `std::string` filename)
- `int main` (int argc, char *argv[])
- `template<class T > std::ostream & operator<<` (std::ostream &os, const std::vector< T > &v)

7.8.1 Function Documentation

7.8.1.1 `std::string load_jsgf (const std::string filename)`

Definition at line 20 of file `speech_to_text.cpp`.

7.8.1.2 `int main (int argc, char * argv[])`

Query the CMU Sphinx4 engine for keywords and sentences using a WAV file argv[1]: audio file argv[2]: audio source type argv[3]: language argv[4]: user argv[5]: words to search for - OPTIONAL argv[6]: sentences to search for - OPTIONAL argv[7]: grammar file (JSGF text file) - OPTIONAL

Definition at line 44 of file `speech_to_text.cpp`.

7.8.1.3 `template<class T > std::ostream& operator<< (std::ostream & os, const std::vector< T > & v)`

Definition at line 13 of file `speech_to_text.cpp`.

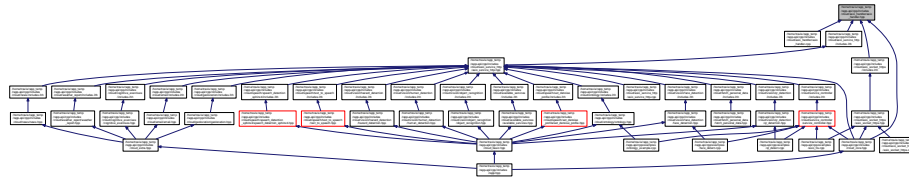
7.9 /home/travis/rapp_temp/rapp-api/cpp/examples/text_to_speech.cpp File Reference

```

#include "cloud/service_controller/service_controller.hpp"
#include "cloud/speech/text_to_speech/text_to_speech.hpp"
#include <boost/date_time/posix_time/posix_time.hpp>
#include <boost/thread/thread.hpp>

```


This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::asio_handler](#)

base class for asio handling, including helper methods and most protected members

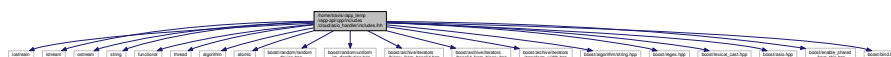
Namespaces

- [rapp](#)
- [rapp::cloud](#)

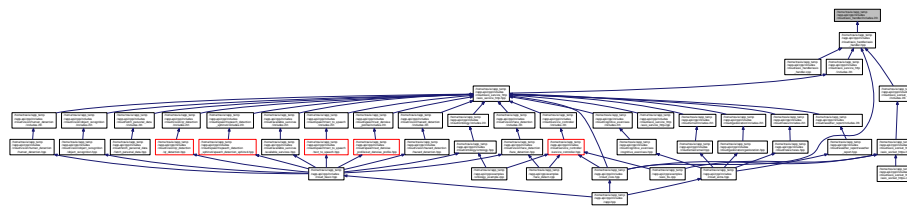
7.12 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_handler/includes.ihh File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <string>
#include <functional>
#include <thread>
#include <algorithm>
#include <atomic>
#include <boost/random/random_device.hpp>
#include <boost/random/uniform_int_distribution.hpp>
#include <boost/archive/iterators/binary_from_base64.hpp>
#include <boost/archive/iterators/base64_from_binary.hpp>
#include <boost/archive/iterators/transform_width.hpp>
#include <boost/algorithm/string.hpp>
#include <boost/regex.hpp>
#include <boost/lexical_cast.hpp>
#include <boost/asio.hpp>
#include <boost/enable_shared_from_this.hpp>
#include <boost/bind.hpp>
```

Include dependency graph for includes.ihh:



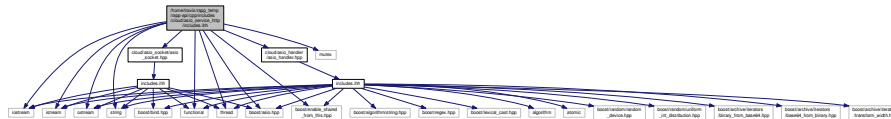
This graph shows which files directly or indirectly include this file:



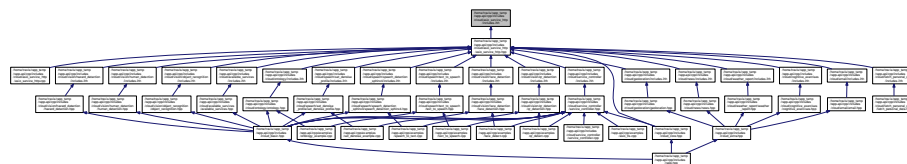
7.13 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/includes.ihh File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <string>
#include <functional>
#include <thread>
#include <mutex>
#include <boost/asio.hpp>
#include <boost/enable_shared_from_this.hpp>
#include "cloud/asio_socket/asio_socket.hpp"
#include "cloud/asio_handler/asio_handler.hpp"
```

Include dependency graph for includes.ihh:



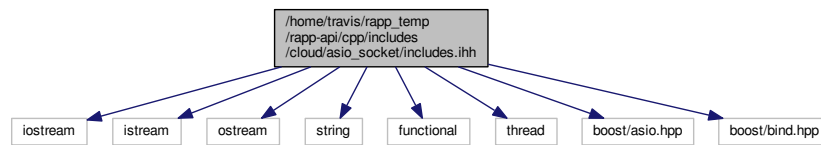
This graph shows which files directly or indirectly include this file:



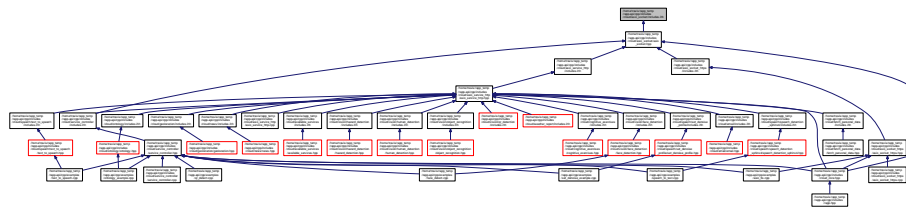
7.14 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket/includes.ihh File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <string>
#include <functional>
#include <thread>
#include <boost/asio.hpp>
#include <boost/bind.hpp>
```


Include dependency graph for includes.ihh:



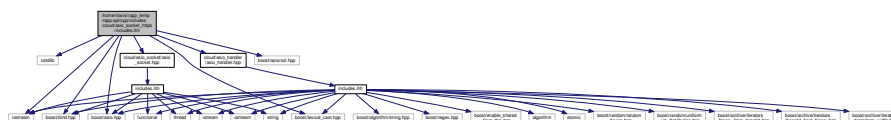
This graph shows which files directly or indirectly include this file:



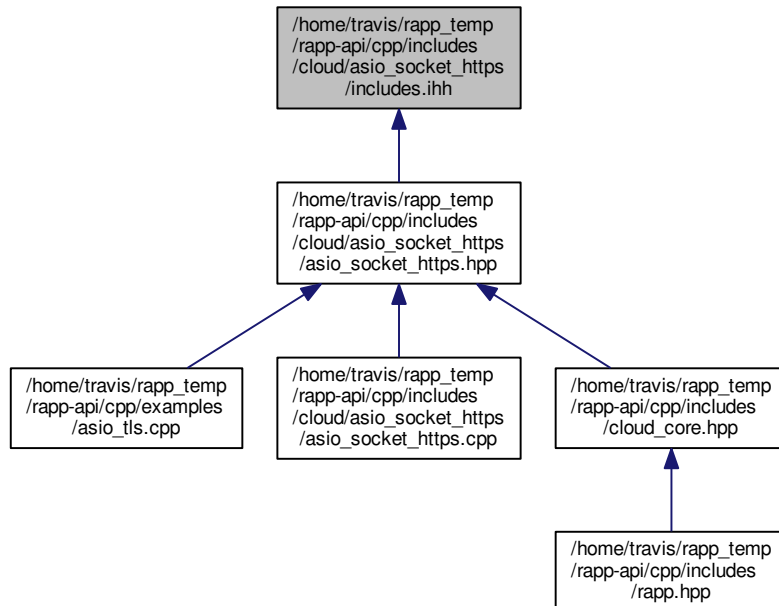
7.15 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/includes.ihh
File Reference

```
#include <cstdlib>
#include <iostream>
#include <boost/bind.hpp>
#include <boost/asio.hpp>
#include <boost/asio/ssl.hpp>
#include <boost/lexical_cast.hpp>
#include "cloud/asio_socket/asio_socket.hpp"
#include "cloud/asio_handler/asio_handler.hpp"
```

Include dependency graph for includes.ihh:



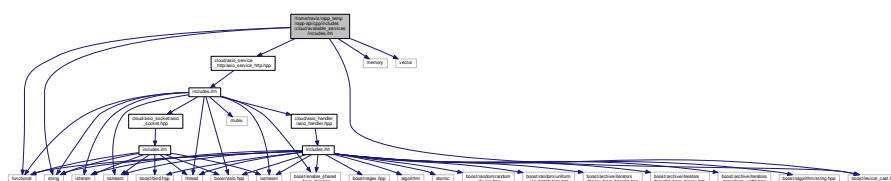
This graph shows which files directly or indirectly include this file:



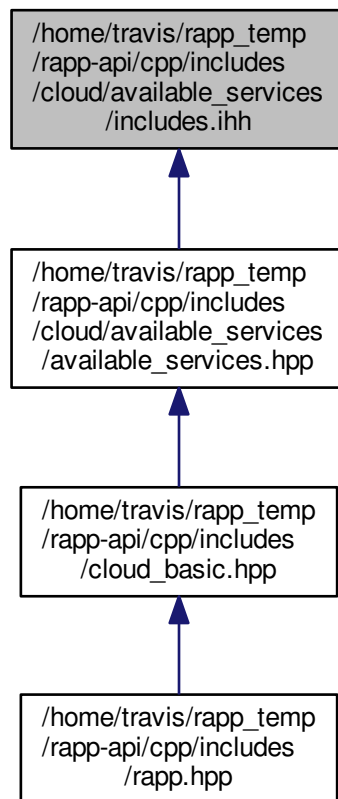
7.16 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available_services/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include <string>
#include <vector>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include <boost/lexical_cast.hpp>
```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



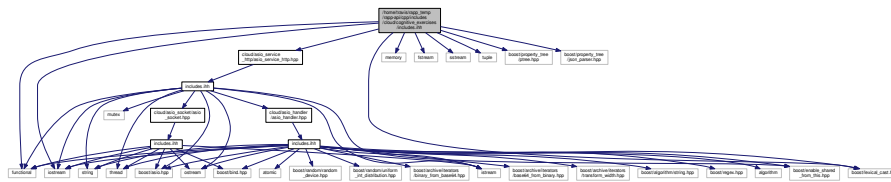
7.17 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/includes.ihh File Reference

```

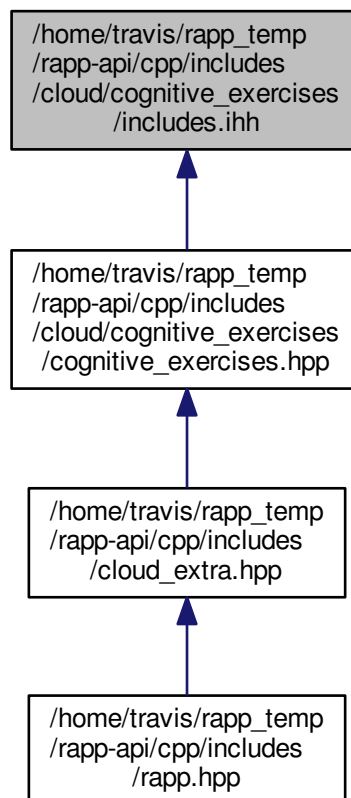
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"

```

Include dependency graph for includes.ihh:



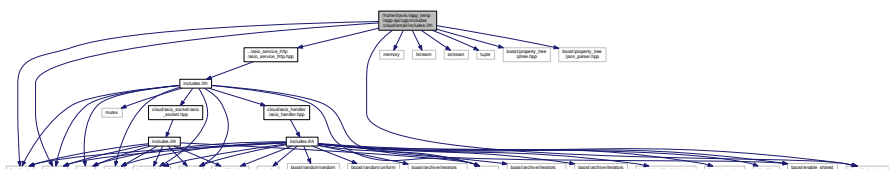
This graph shows which files directly or indirectly include this file:



7.18 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/includes.ihh File Reference

```
#include <functional>
```

Include dependency graph for includes.ihh:



```
graph BT; A["/home/travis/rapp_temp/rapp-api/cpp/includes/rapp.hpp"] --> B["/home/travis/rapp_temp/rapp-api/cpp/includes/cloud_extra.hpp"]; B --> C["/home/travis/rapp_temp/rapp-api/cpp/includes/cloud_email_email.hpp"]; C --> D["/home/travis/rapp_temp/rapp-api/cpp/includes/cloud_email_email.ihh"];
```

/home/travis/rapp_temp
/rapp-api/cpp/includes
/cloud/email/email.hpp

/home/travis/rapp_temp
/rapp-api/cpp/includes
/cloud_email_email.ihh

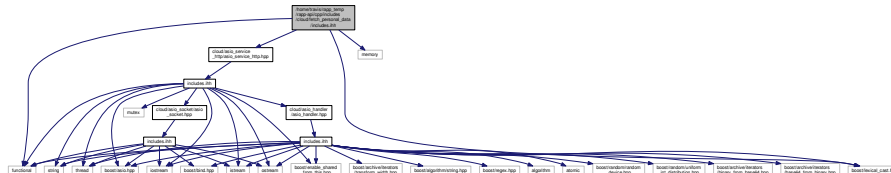
/home/travis/rapp_temp
/rapp-api/cpp/includes
/cloud_email_email.ihh

/home/travis/rapp_temp
/rapp-api/cpp/includes
/cloud_email_email.ihh

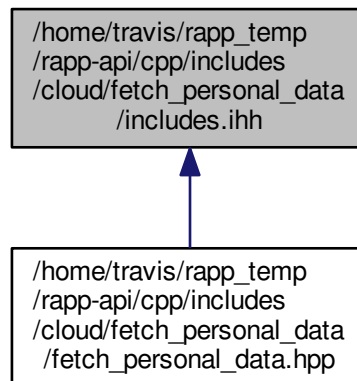
7.19 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetch_personal_data/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include <boost/lexical_cast.hpp>
```

Include dependency graph for includes.ihh:



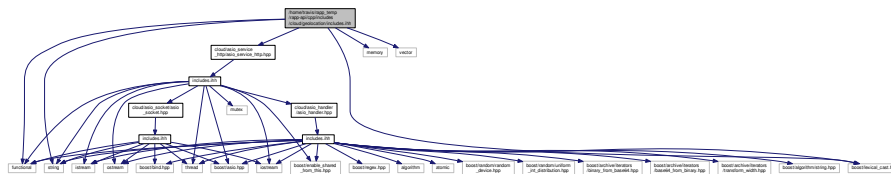
This graph shows which files directly or indirectly include this file:



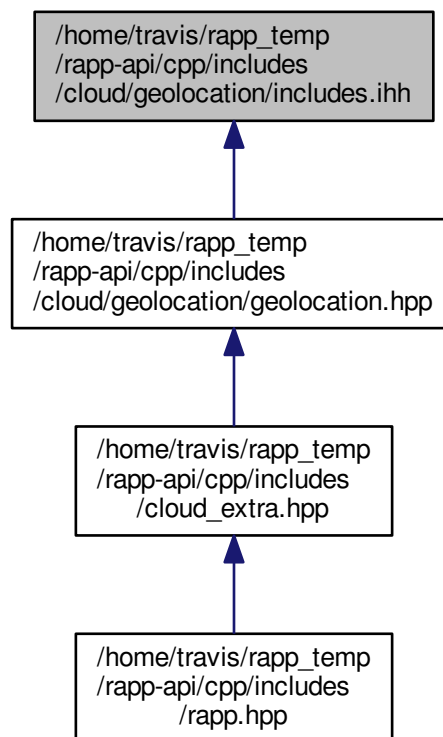
7.20 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/geolocation/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include <string>
#include <vector>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include <boost/lexical_cast.hpp>
```

Include dependency graph for includes.ihh:

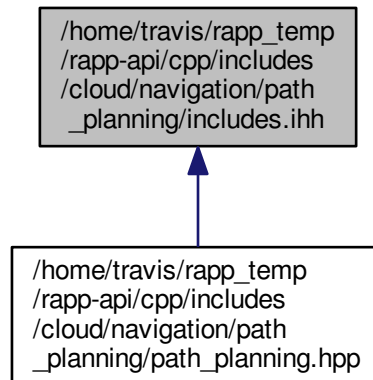


This graph shows which files directly or indirectly include this file:



7.21 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/includes.ihh File Reference

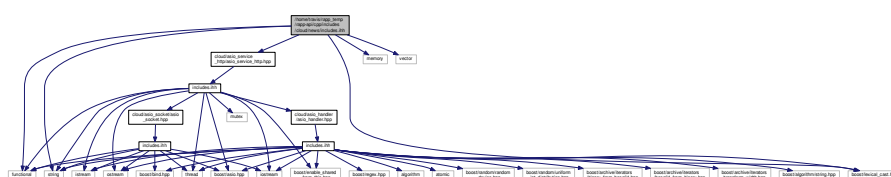
This graph shows which files directly or indirectly include this file:



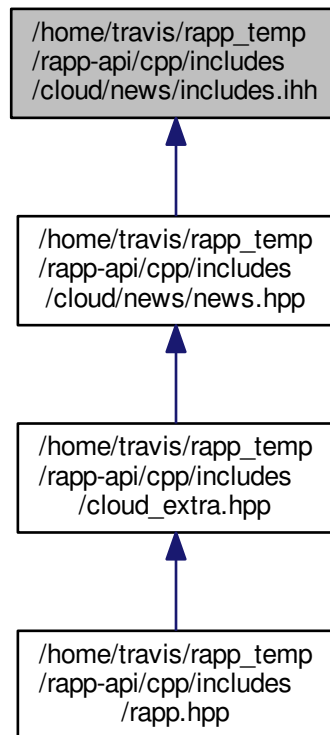
7.22 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include <string>
#include <vector>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include <boost/lexical_cast.hpp>
```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



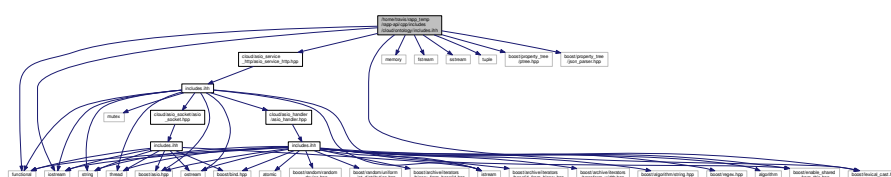
7.23 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontology/includes.ihh File Reference

```

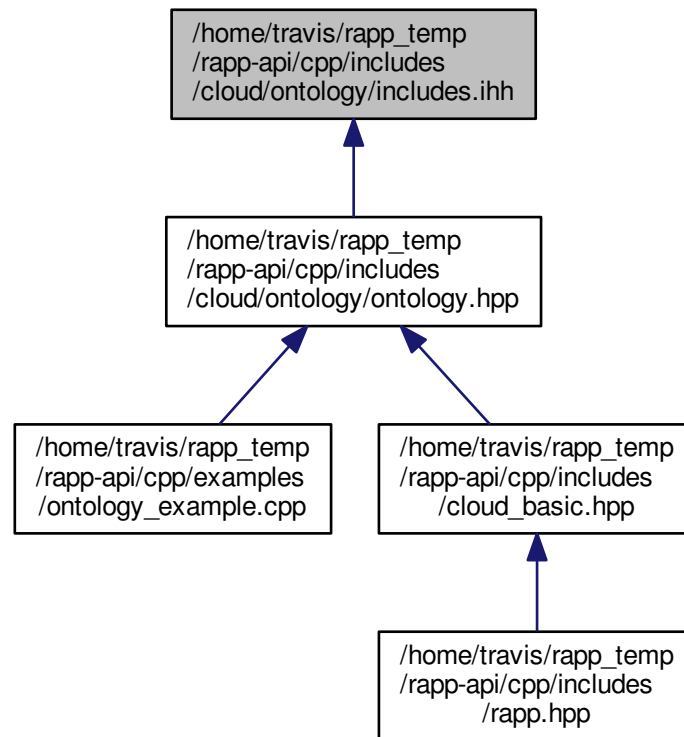
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"

```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



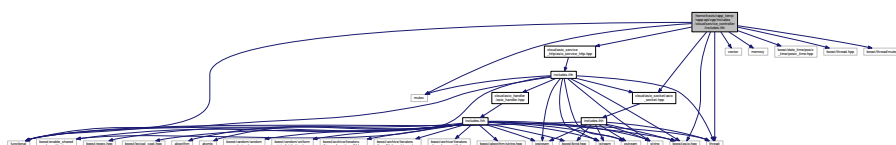
7.24 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/includes.ihh File Reference

```

#include <thread>
#include <functional>
#include <vector>
#include <memory>
#include <mutex>
#include <boost/asio.hpp>
#include <boost/date_time/posix_time/posix_time.hpp>
#include <boost/thread.hpp>
#include <boost/thread/mutex.hpp>
#include "cloud/asio_socket/asio_socket.hpp"
#include "cloud/asio_service_http/asio_service_http.hpp"

```

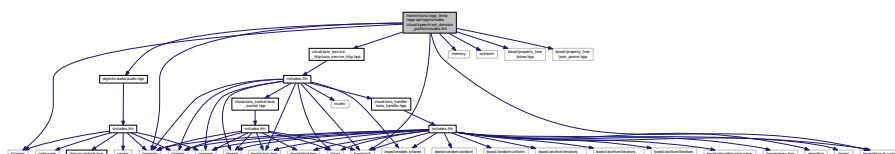
Include dependency graph for includes.ihh:



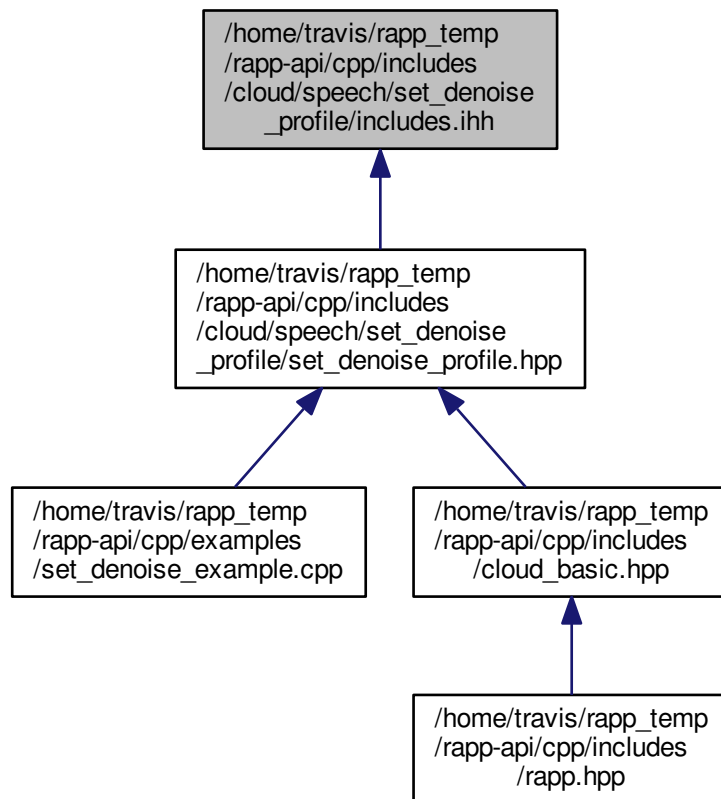
[illegible]

```
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/audio/audio.hpp"
```

Include dependency graph for includes.ihh:

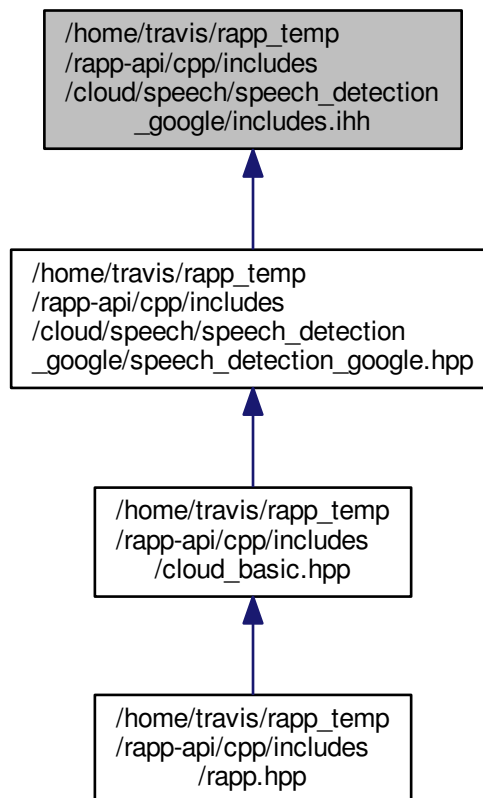


This graph shows which files directly or indirectly include this file:



7.26 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_google/includes.ihh File Reference

This graph shows which files directly or indirectly include this file:



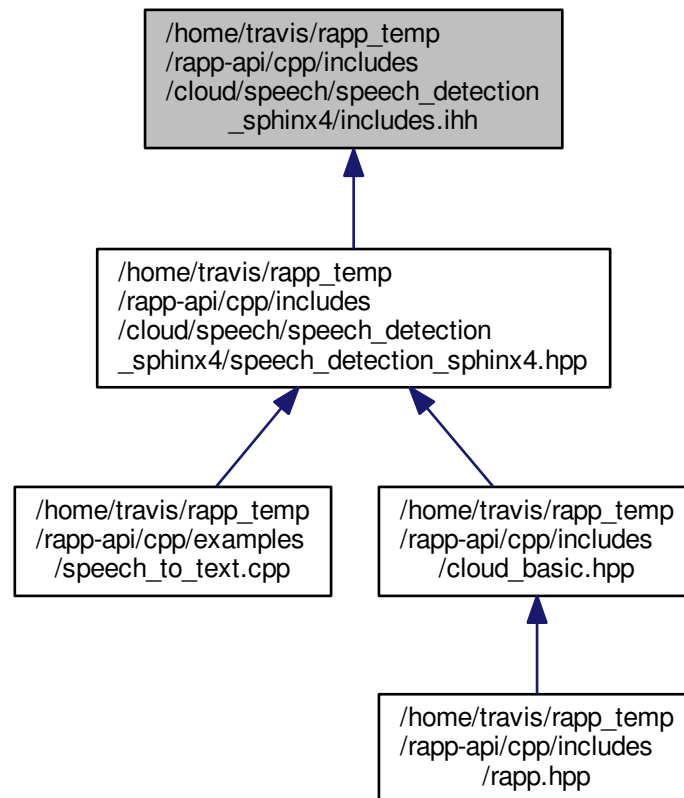
7.27 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_sphinx4/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/audio/audio.hpp"
```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



7.28 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text_to_speech/includes.ihh File Reference

```
#include <functional>
```

```

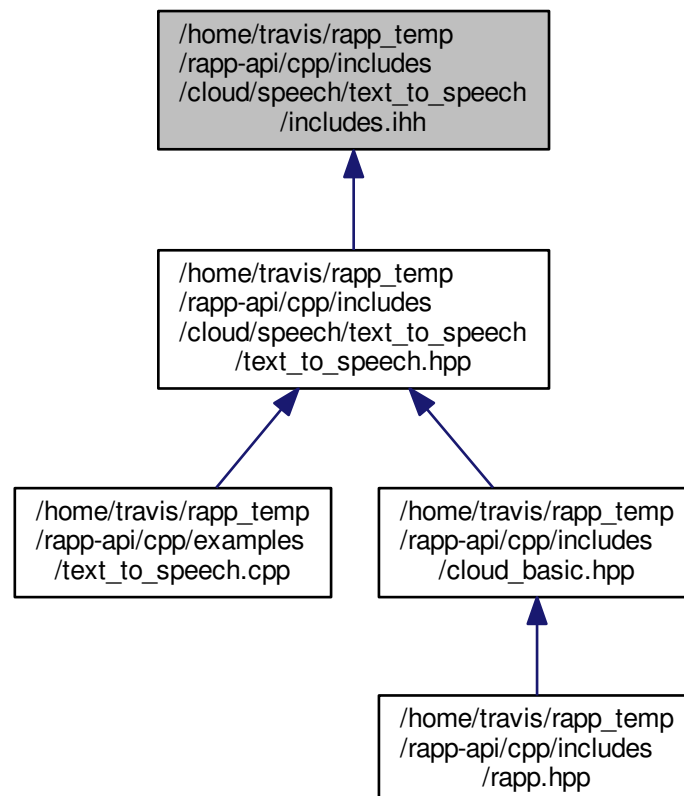
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/audio/audio.hpp"

```

Include dependency graph for includes.ihh:

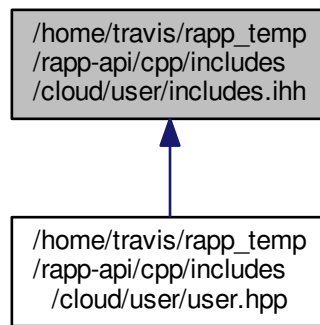


This graph shows which files directly or indirectly include this file:



7.29 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/user/includes.ihh File Reference

This graph shows which files directly or indirectly include this file:



7.30 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/face_detection/includes.ihh File Reference

```

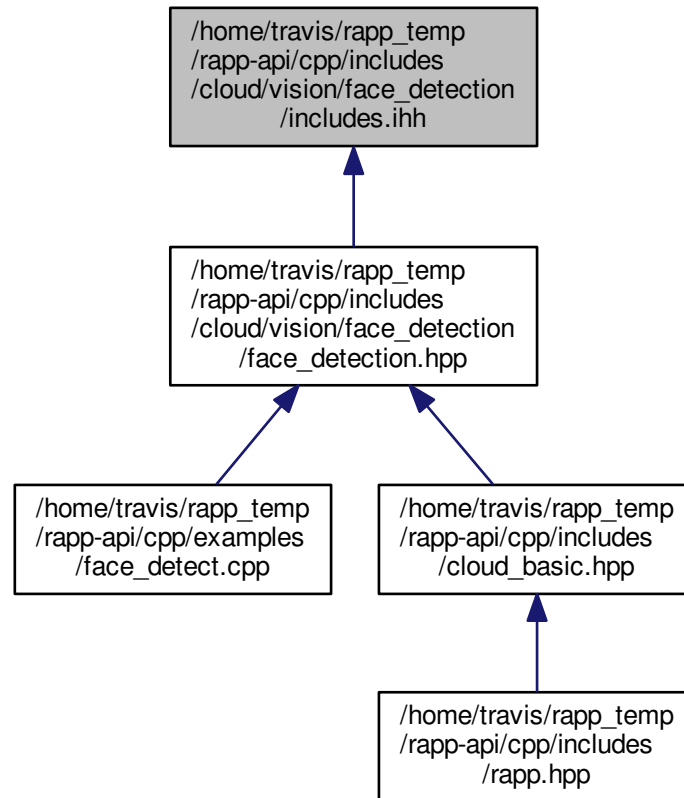
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/face/face.hpp"
#include "objects/picture/picture.hpp"

```

Include dependency graph for includes.ihh:



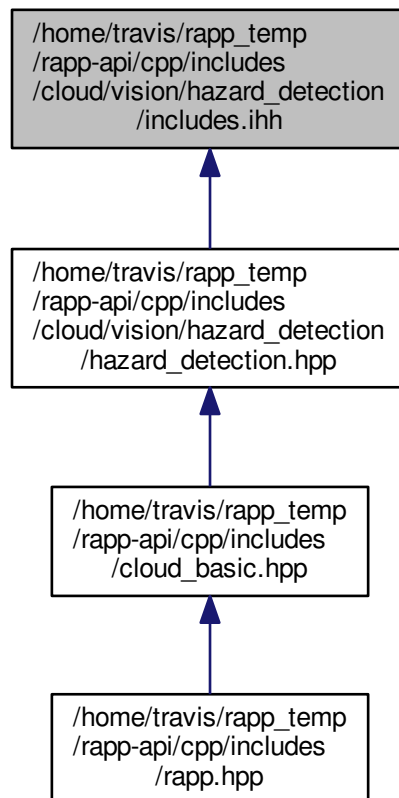
This graph shows which files directly or indirectly include this file:



7.31 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/includes.ihh File Reference

```
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/picture/picture.hpp"
```

The diagram illustrates a hierarchical network of relationships. The top-level node, 'Economic and Social Development', acts as a central hub, connecting to multiple intermediate nodes such as 'Education', 'Health', 'Environment', 'Gender Equality', 'Poverty Reduction', 'Rural Development', 'Urbanization', 'Infrastructure', 'Trade', 'Investment', 'Innovation', 'Culture', 'Tourism', 'Sports', 'Arts', 'Media', 'Communication', 'Information Technology', 'Science', 'Technology', 'Energy', 'Transportation', 'Housing', 'Social Services', 'Public Administration', 'Law', 'Justice', 'Security', 'Defense', 'Military', 'Peacekeeping', 'Humanitarian Assistance', 'Disaster Preparedness', 'Climate Change Adaptation', 'Disaster Risk Reduction', 'Disaster Response', 'Disaster Recovery', 'Disaster Prevention', 'Disaster Mitigation', 'Disaster Resilience', 'Disaster Vulnerability', 'Disaster Hazard', 'Disaster Exposure', 'Disaster Losses', 'Disaster Damages', 'Disaster Impacts', 'Disaster Consequences', 'Disaster Outcomes', 'Disaster Effects', 'Disaster Results', 'Disaster Benefits', 'Disaster Opportunities', 'Disaster Challenges', 'Disaster Risks', 'Disaster Threats', 'Disaster Hazards', 'Disaster Perils', 'Disaster Dangers', 'Disaster Menaces', 'Disaster Evils', 'Disaster Plagues', 'Disaster Pestilences', 'Disaster Furies', 'Disaster Wrath', 'Disaster Anger', 'Disaster Rage', 'Disaster Fury', 'Disaster Ire', 'Disaster Vengeance', 'Disaster Retribution', 'Disaster Punishment', 'Disaster Penalty', 'Disaster Sanction', 'Disaster Reprimand', 'Disaster Rebuke', 'Disaster Censure', 'Disaster Condemnation', 'Disaster Denunciation', 'Disaster Reproval', 'Disaster Disapproval', 'Disaster Disfavor', 'Disaster Disrespect', 'Disaster Dishonor', 'Disaster Shame', 'Disaster Humiliation', 'Disaster Embarrassment', 'Disaster Awkwardness', 'Disaster Unpleasantness', 'Disaster Annoyance', 'Disaster Irritation', 'Disaster Frustration', 'Disaster Discontent', 'Disaster Dissatisfaction', 'Disaster Displeasure', 'Disaster Dislike', 'Disaster Disfellowship', 'Disaster Disaffection', 'Disaster Disloyalty', 'Disaster Disrespectfulness', 'Disaster Disregard', 'Disaster Disobedience', 'Disaster Disrespectful', 'Disaster Disrespectfully', 'Disaster Disrespectfulness', 'Disaster Disrespectfully', 'Disaster Disrespectfulness', 'Disaster Disrespectfully'.



```
#include <functional>
```

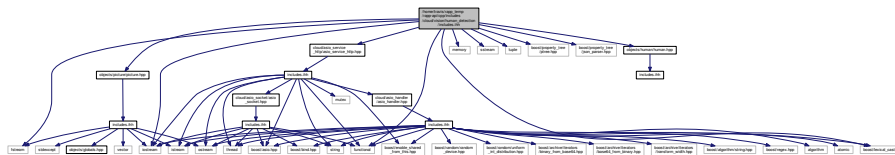
Generated on Fri Jul 29 2016 18:45:01 for RAPP Platform API by Doxygen

```

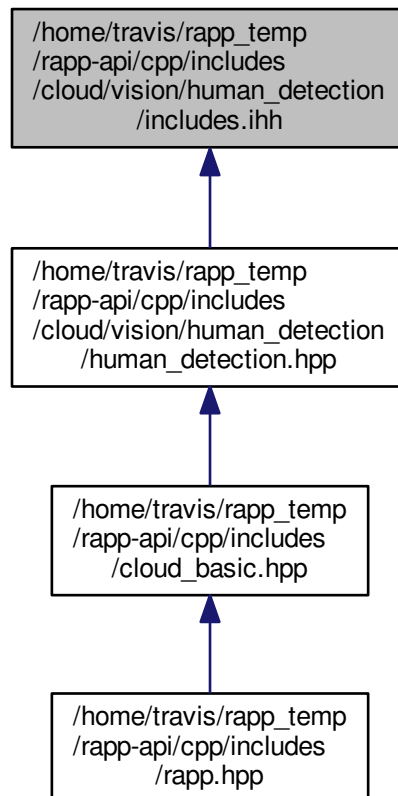
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/picture/picture.hpp"
#include "objects/human/human.hpp"

```

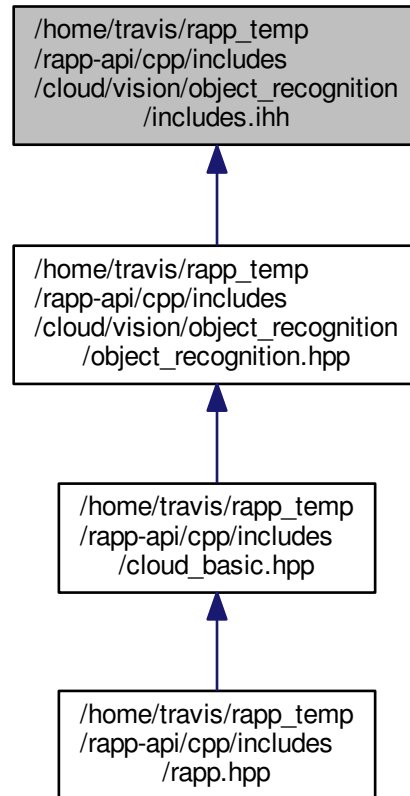
Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



This graph shows which files directly or indirectly include this file:



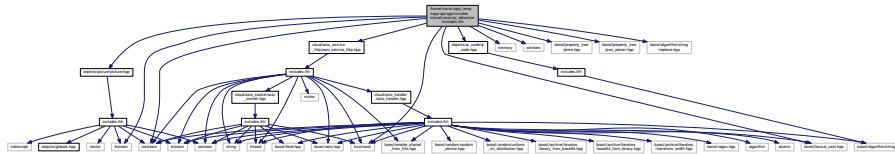
7.34 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/qr_detection/includes.ihh File Reference

```

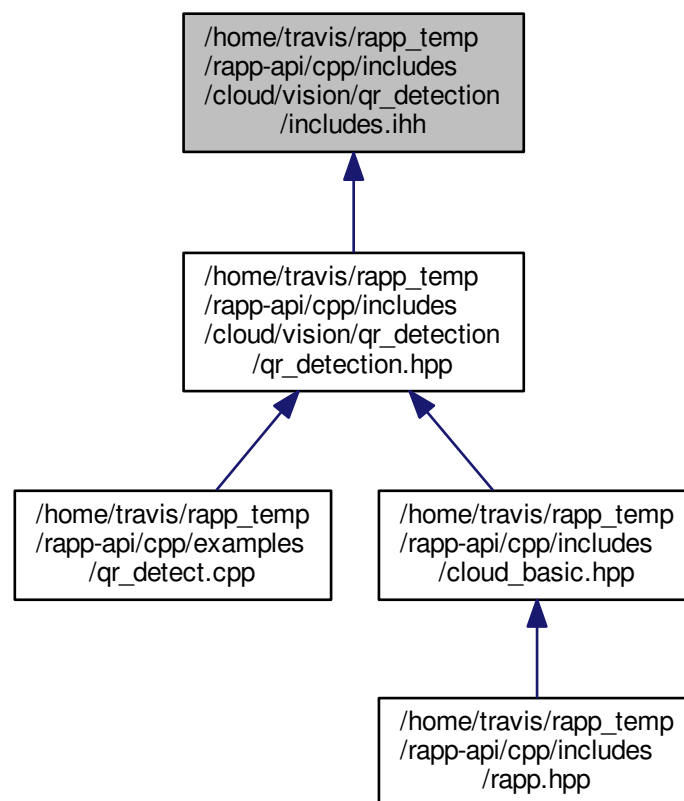
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include <boost/algorithm/string/replace.hpp>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "objects/qr_code/qr_code.hpp"
#include "objects/picture/picture.hpp"

```

Include dependency graph for includes.ihh:



This graph shows which files directly or indirectly include this file:



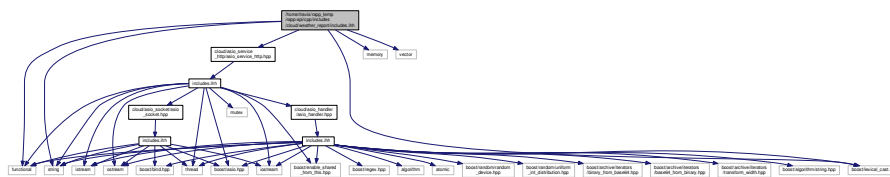
7.35 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/includes.ihh File Reference

```

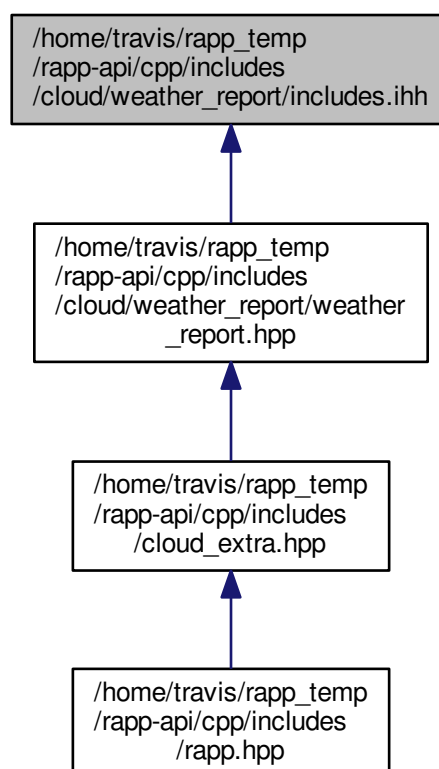
#include <functional>
#include <memory>
#include <string>
#include <vector>
#include "cloud/asio_service_http/asio_service_http.hpp"
#include <boost/lexical_cast.hpp>

```

Include dependency graph for includes.ihh:



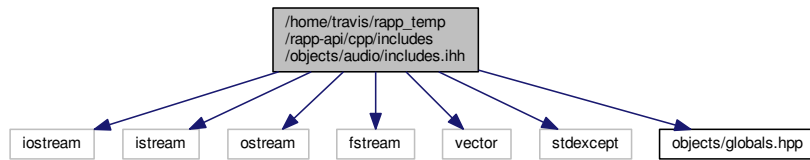
This graph shows which files directly or indirectly include this file:



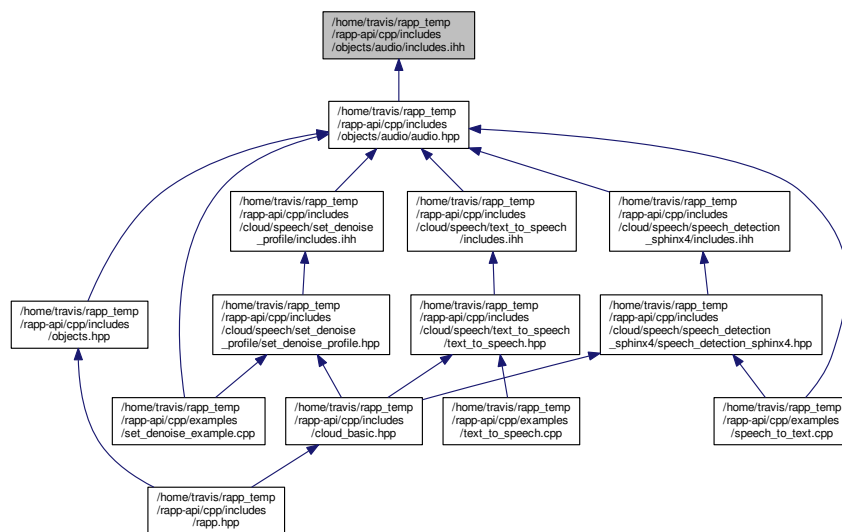
7.36 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/includes.ihh File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <fstream>
#include <vector>
#include <stdexcept>
#include "objects/globals.hpp"
```

Include dependency graph for includes.ihh:

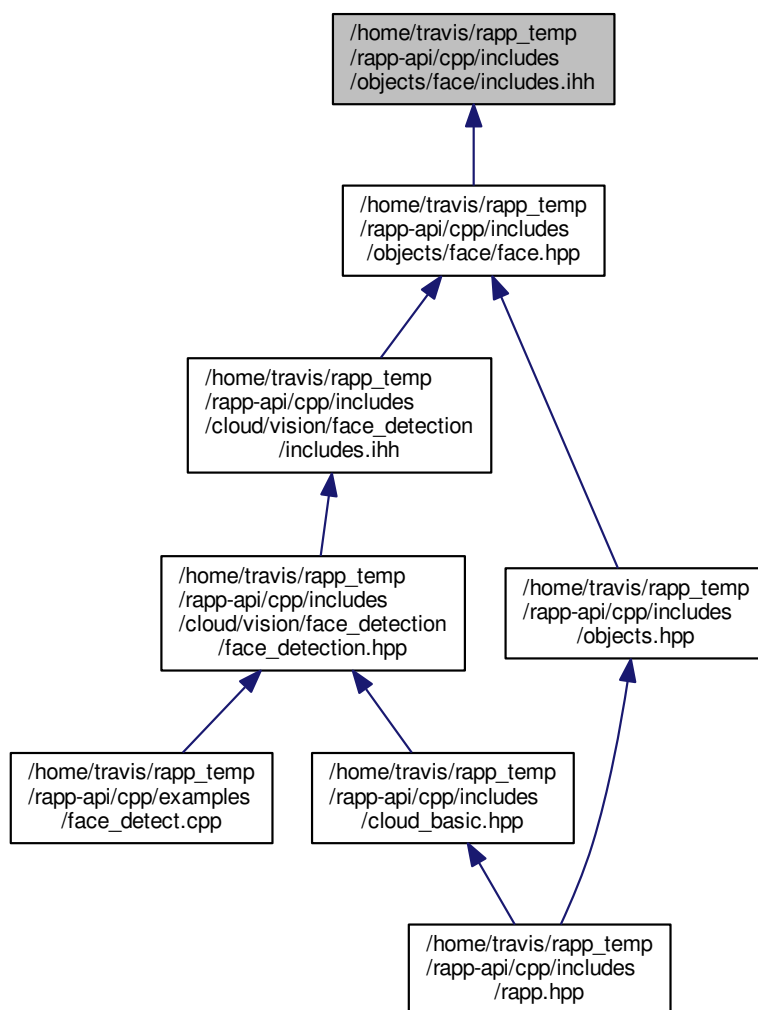


This graph shows which files directly or indirectly include this file:



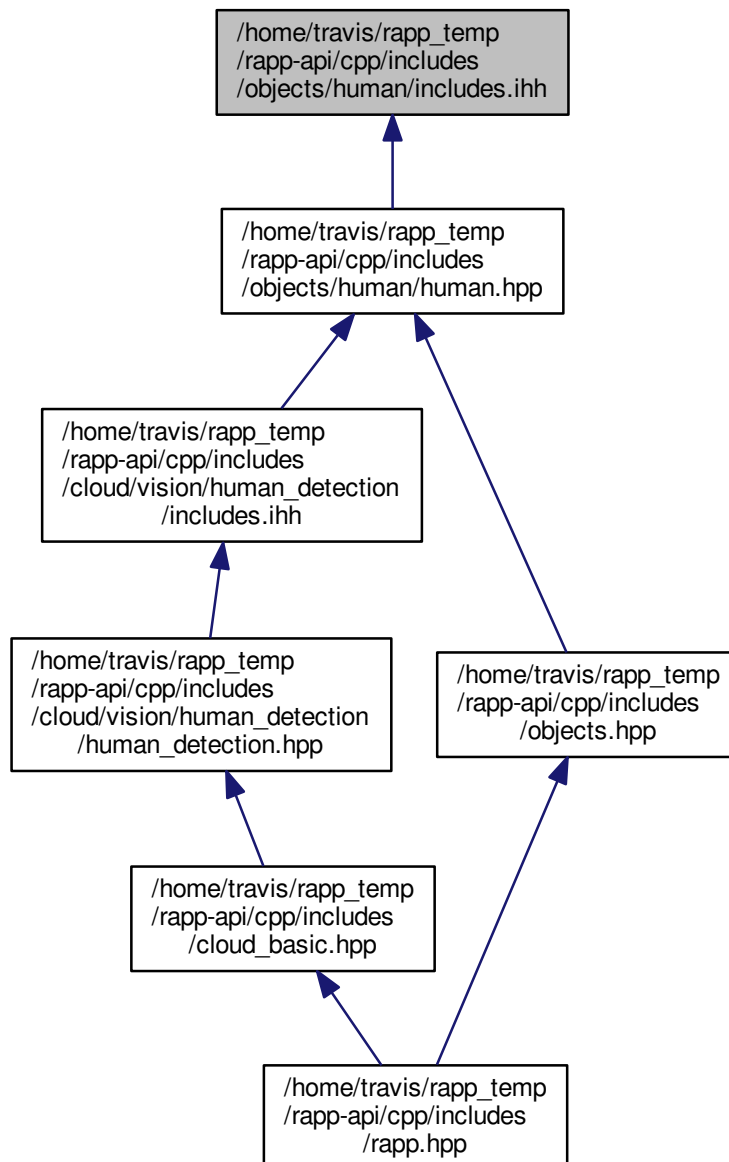
7.37 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/includes.ihh File Reference

This graph shows which files directly or indirectly include this file:



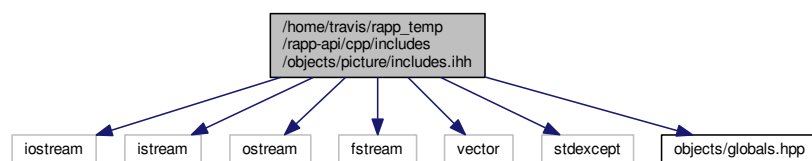
7.38 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/includes.ihh File Reference

This graph shows which files directly or indirectly include this file:

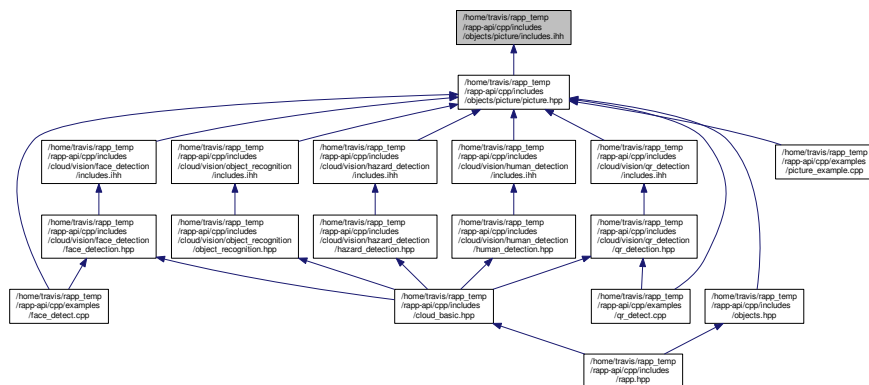


7.39 `/home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/includes.ihh` File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <fstream>
#include <vector>
#include <stdexcept>
#include "objects/globals.hpp"
Include dependency graph for includes.ihh:
```



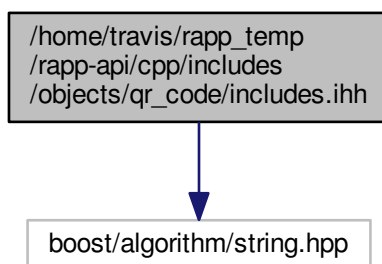
This graph shows which files directly or indirectly include this file:



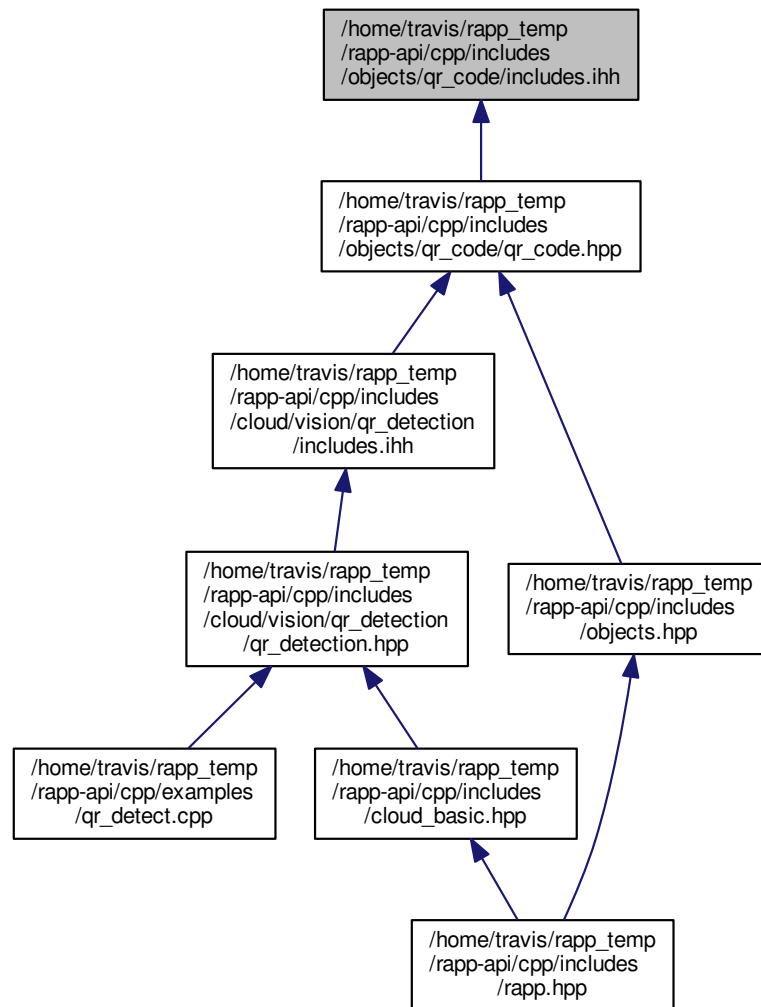
7.40 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/includes.ihh File
Reference

```
#include <boost/algorithm/string.hpp>
```

Include dependency graph for includes.ihh:

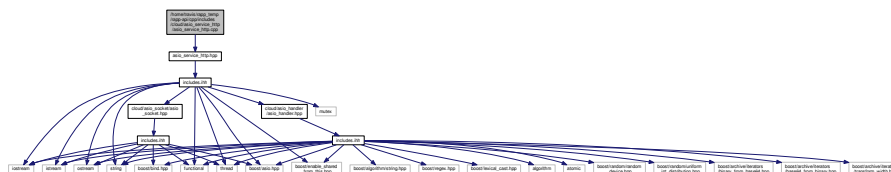


This graph shows which files directly or indirectly include this file:

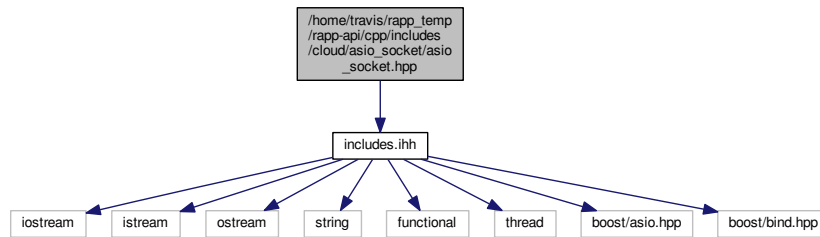


7.41 [/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_service_http/asio_service-http.cpp](#) File Reference

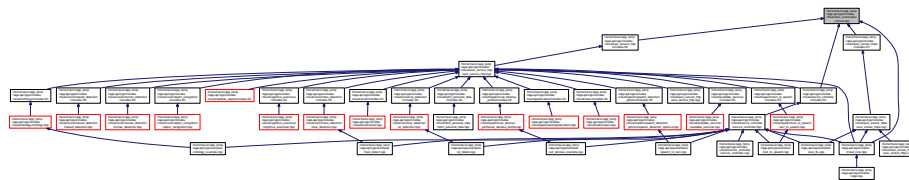
```
#include "asio_service_http.hpp"
Include dependency graph for asio_service_http.cpp:
```



Include dependency graph for asio_socket.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::asio_socket](#)

Abstract Base ASIO Socket class Use for passing around to the service controller, various types of cloud handlers. This Interface is needed so that different handlers can be passed to the scheduler transparently.

Namespaces

- [rapp](#)
- [rapp::cloud](#)

Variables

- constexpr char [rapp::cloud::address](#) [] = "localhost"
api.rapp.cloud -
- constexpr char [rapp::cloud::port](#) [] = "9001"
api.rapp.cloud - HOP server port

7.44 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/asio_socket_https/asio_socket_https.cpp File Reference

```
#include "asio_socket_https.hpp"
```


wrapper for SSL/TLS secure HTTP communication

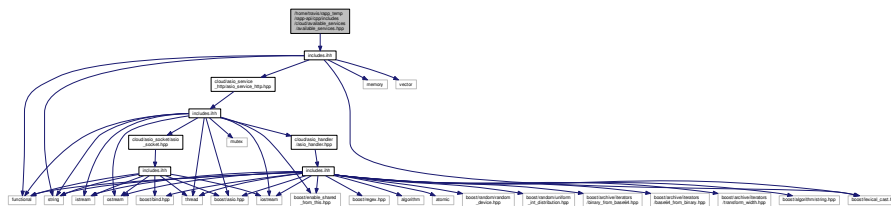
Namespaces

- [rapp](#)
- [rapp::cloud](#)

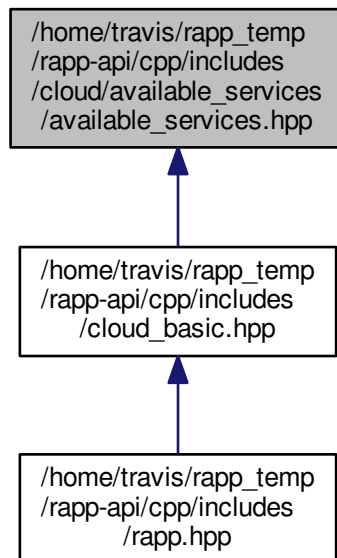
7.46 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/available_services/available_services.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for available_services.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::available_services](#)
requests available services from platform

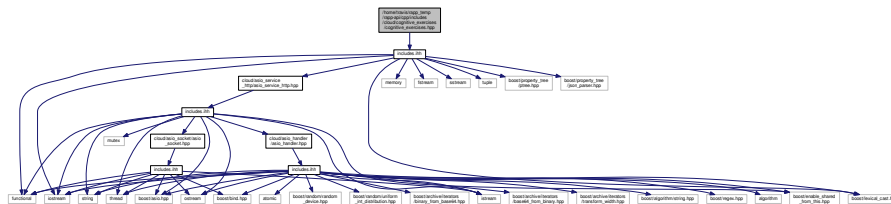
Namespaces

- [rapp](#)
- [rapp::cloud](#)

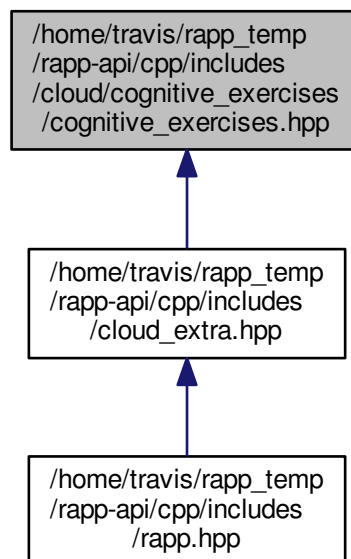
7.47 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/cognitive_exercises/cognitive_exercises.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for cognitive_exercises.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::cognitive_get_history](#)
- class [rapp::cloud::cognitive_get_scores](#)
- class [rapp::cloud::cognitive_record_performance](#)
- class [rapp::cloud::cognitive_test_selector](#)

chose a congitive game to play

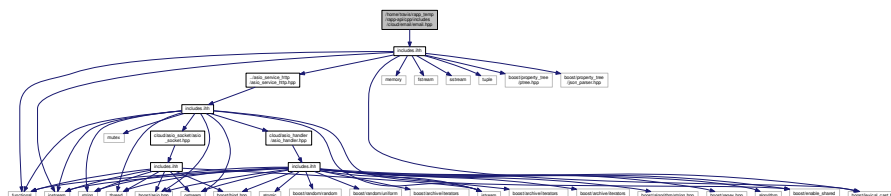
Namespaces

- [rapp](#)
- [rapp::cloud](#)

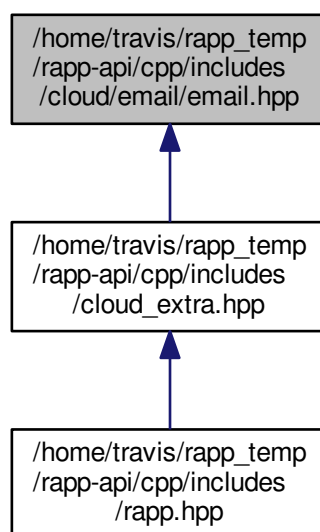
7.48 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/email/email.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for email.hpp:



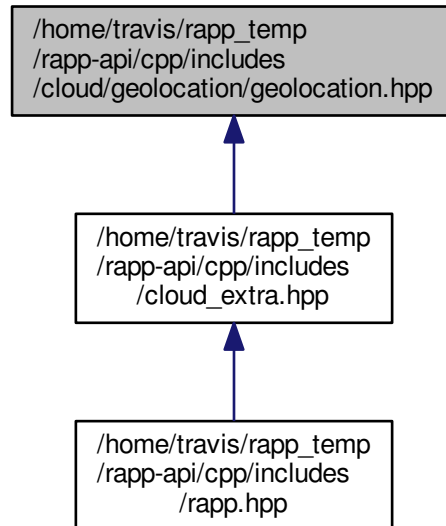
This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::email_fetch](#)
fetch email(s)
- class [rapp::cloud::email_send](#)
send an email

This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::geolocation](#)

geolocation service

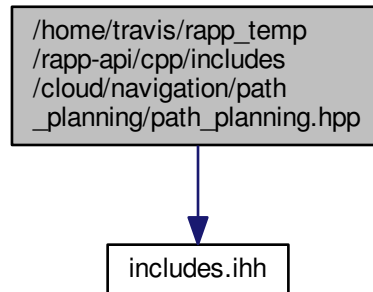
Namespaces

- [rapp](#)
- [rapp::cloud](#)

7.51 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/navigation/path_planning/path_planning.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for path_planning.hpp:



Classes

- class `rapp::cloud::path_upload_map`
- class `rapp::cloud::plan_path_2d`

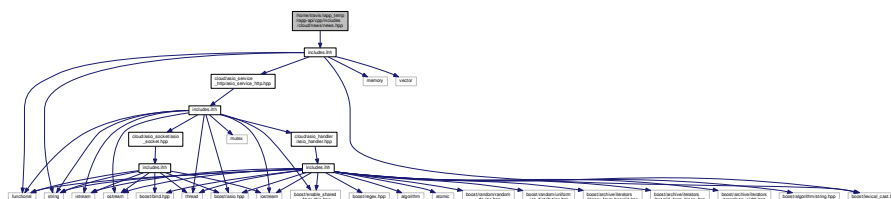
Namespaces

- rapp
- rapp::cloud

7.52 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/news/news.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for news.hpp:

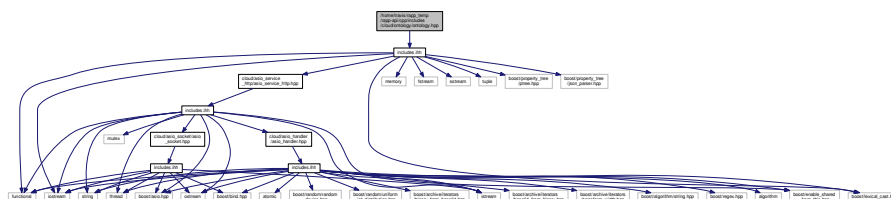


```
graph BT; A["/home/travis/rapp_temp  
/rapp-api/cpp/includes  
/rapp.hpp"] --> B["/home/travis/rapp_temp  
/rapp-api/cpp/includes  
/cloud_extra.hpp"]; B --> C["/home/travis/rapp_temp  
/rapp-api/cpp/includes  
/cloud/news/news.hpp"]
```

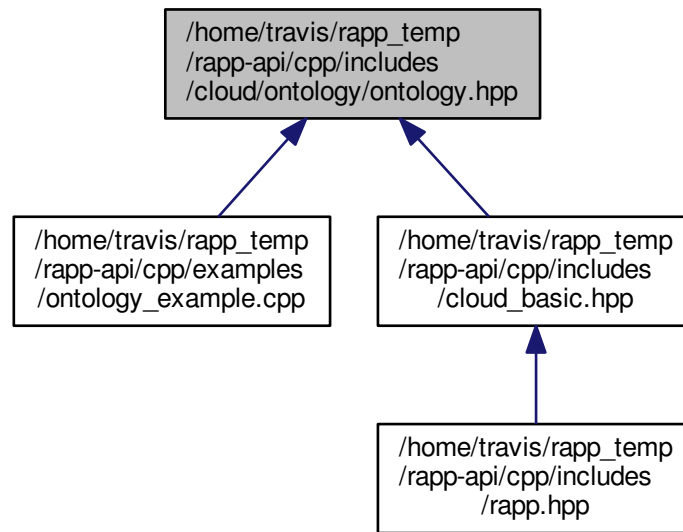
- class `rapp::cloud::news_explore`
get news

- rapp
- rapp::cloud

```
#include "includes.ihh"
Include dependency graph for ontology.hpp:
```



This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::ontology_is_subsuperclass_of](#)
query if sub class is a super class of param
- class [rapp::cloud::ontology_subclasses_of](#)
get ontology subclass of a query
- class [rapp::cloud::ontology_superclasses_of](#)
get ontology super-classes of query

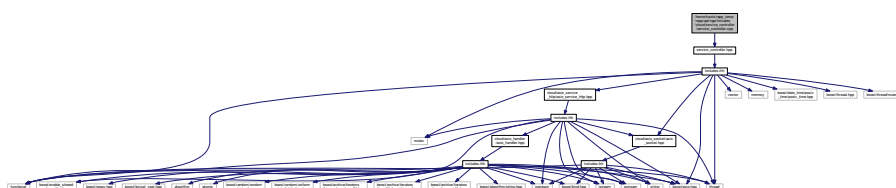
Namespaces

- [rapp](#)
- [rapp::cloud](#)

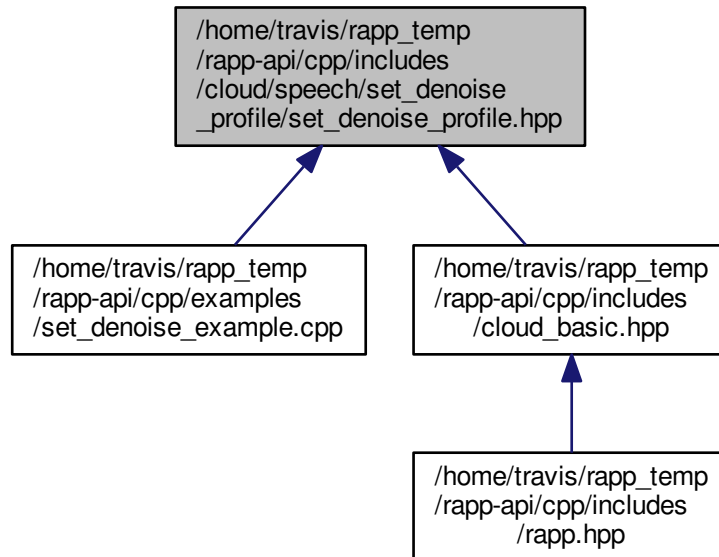
7.54 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/service_controller/service_controller.cpp File Reference

```
#include "service_controller.hpp"
```

Include dependency graph for service_controller.cpp:



This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::set_denoise_profile](#)

setting the denoising audio profile for speech recognition

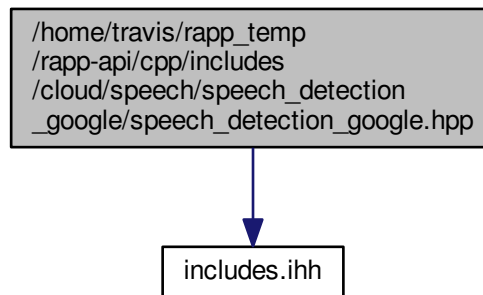
Namespaces

- [rapp](#)
- [rapp::cloud](#)

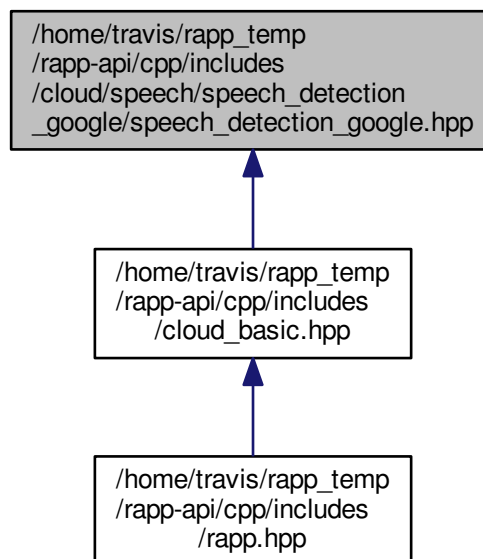
7.57 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_google/speech_detection_google.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for speech_detection_google.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::speech_detection_google](#)
delegate speech-to-text to Google via RAPP

Namespaces

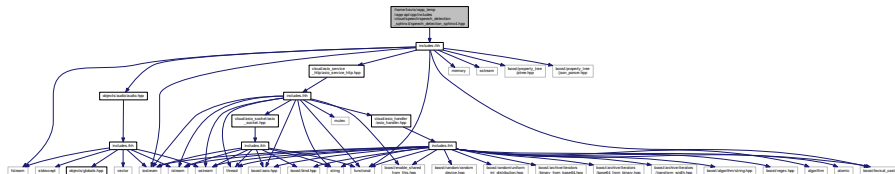
- [rapp](#)

- [rapp::cloud](#)

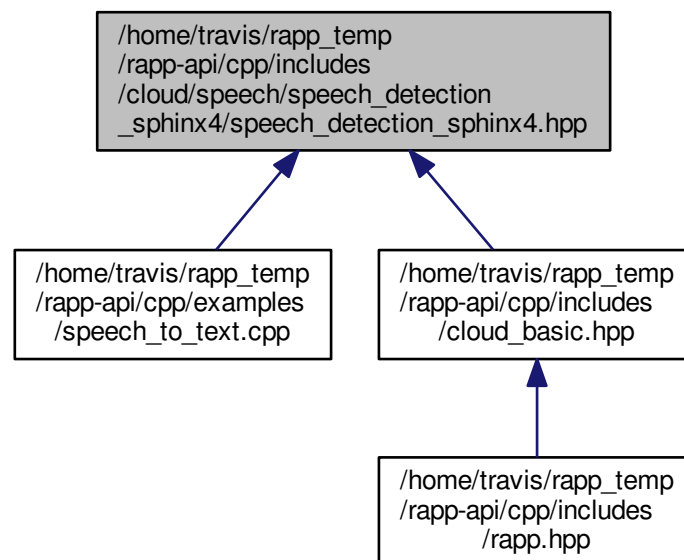
7.58 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/speech_detection_sphinx4/speech_detection_sphinx4.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for `speech_detection_sphinx4.hpp`:



This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::speech_detection_sphinx4](#)
speech-to-text recognition using CMU sphinx4

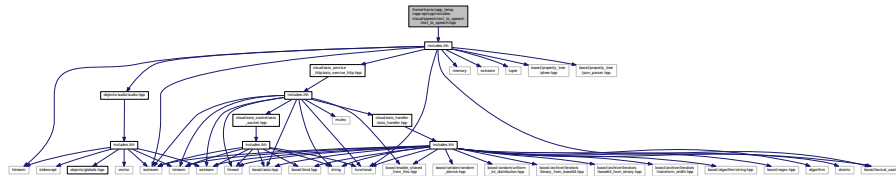
Namespaces

- [rapp](#)
- [rapp::cloud](#)

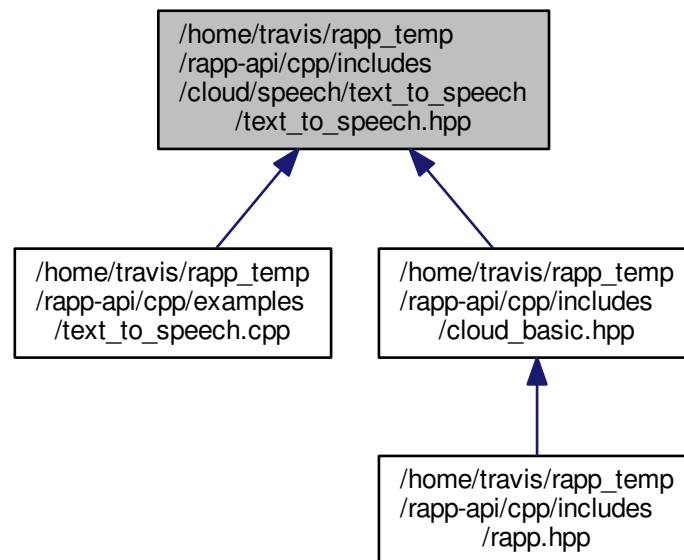
7.59 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speech/text_to_speech/text_to_speech.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for text_to_speech.hpp:



This graph shows which files directly or indirectly include this file:



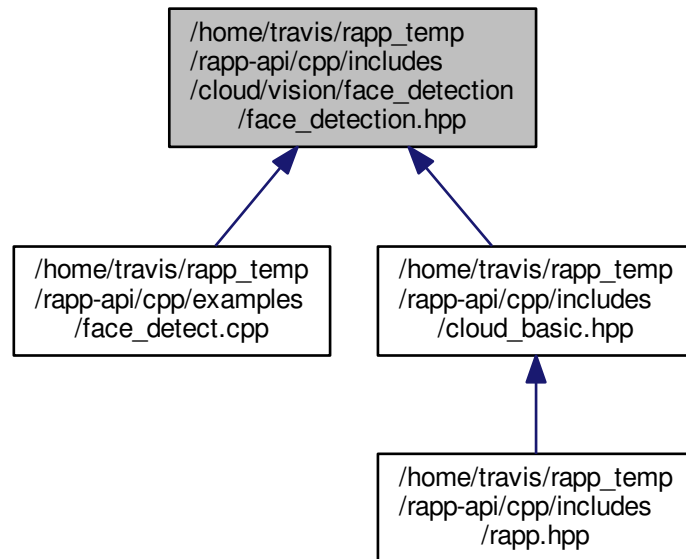
Classes

- class [rapp::cloud::text_to_speech](#)
request speech audio from text

Namespaces

- [rapp](#)
- [rapp::cloud](#)

This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::face_detection](#)
Asynchronous Service which will request the cloud to detect faces.

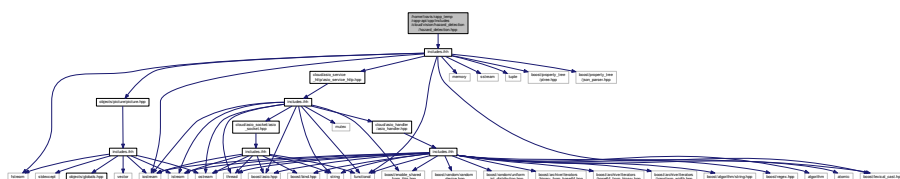
Namespaces

- [rapp](#)
- [rapp::cloud](#)

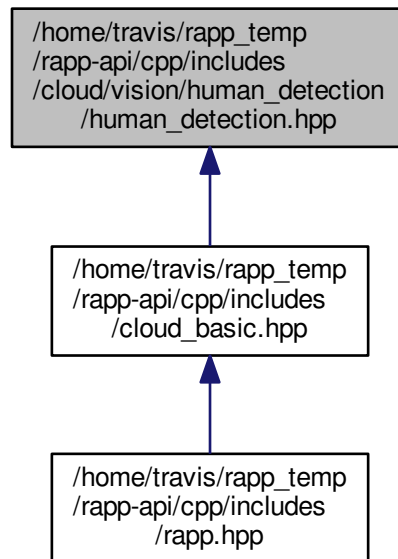
7.62 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/hazard_detection/hazard- _detection.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for hazard_detection.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::human_detection](#)
detect humans in an image

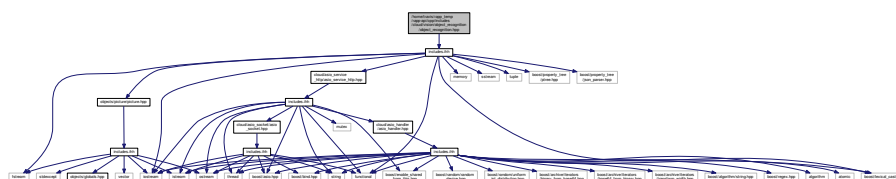
Namespaces

- [rapp](#)
- [rapp::cloud](#)

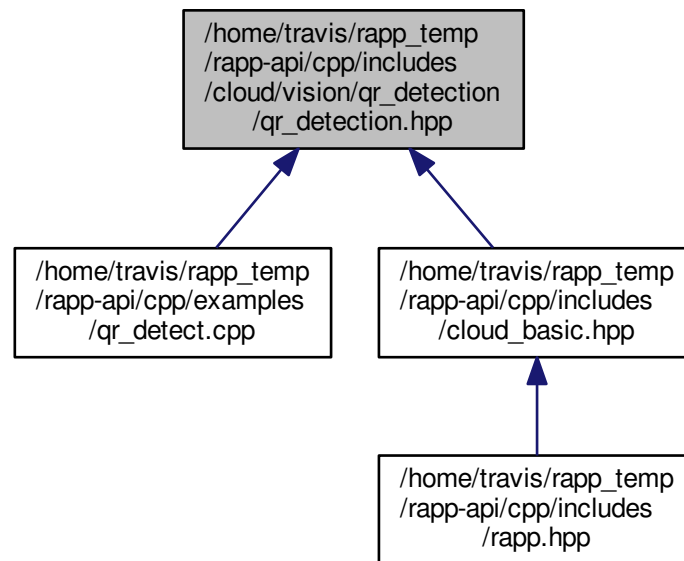
7.64 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/vision/object_recognition/object_recognition.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for object_recognition.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::qr_detection](#)

Asynchronous Service which will request the cloud to detect QR codes.

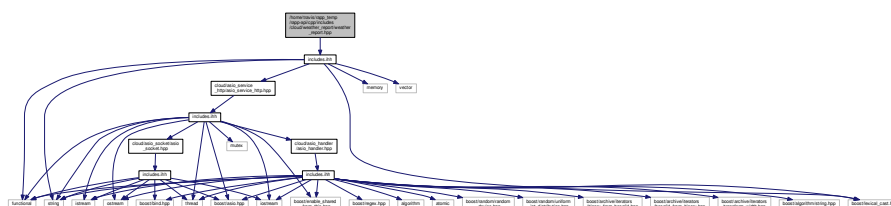
Namespaces

- [rapp](#)
- [rapp::cloud](#)

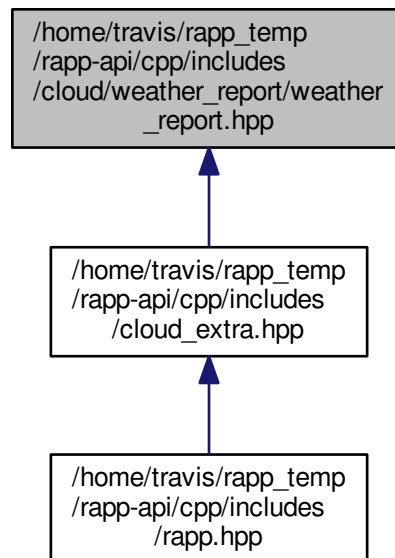
7.66 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/weather_report/weather_report.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for `weather_report.hpp`:



This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::cloud::weather_report_current](#)
get current weather report
- class [rapp::cloud::weather_report_forecast](#)
get weather forecast

Namespaces

- [rapp](#)
- [rapp::cloud](#)

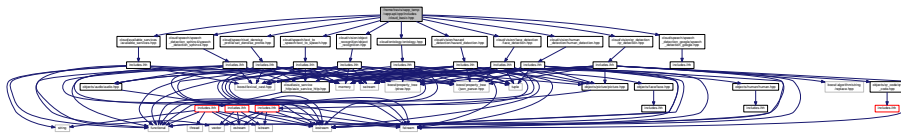
7.67 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud_basic.hpp File Reference

```

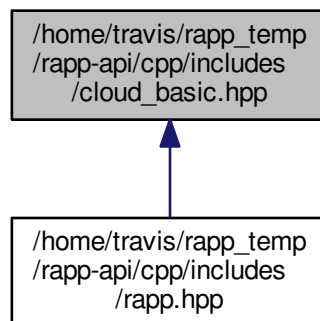
#include "cloud/available_services/available_services.hpp"
#include "cloud/ontology/ontology.hpp"
#include "cloud/vision/face_detection/face_detection.hpp"
#include "cloud/vision/hazard_detection/hazard_detection.hpp"
#include "cloud/vision/human_detection/human_detection.hpp"
#include "cloud/vision/object_recognition/object_recognition.hpp"
#include "cloud/vision/qr_detection/qr_detection.hpp"
#include "cloud/speech/set_denoise_profile/set_denoise_profile.hpp"
#include "cloud/speech/speech_detection_google/speech_detection_google.hpp"
#include "cloud/speech/speech_detection_sphinx4/speech_detection_sphinx4.-
hpp"
#include "cloud/speech/text_to_speech/text_to_speech.hpp"

```

Include dependency graph for cloud_basic.hpp:



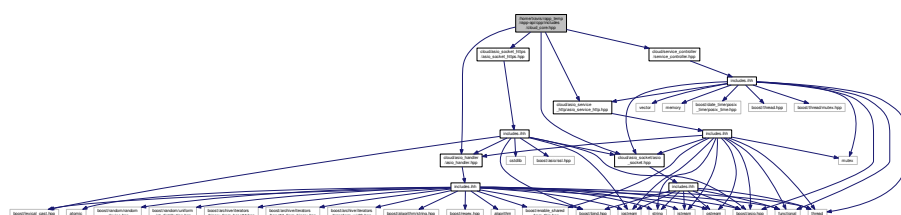
This graph shows which files directly or indirectly include this file:



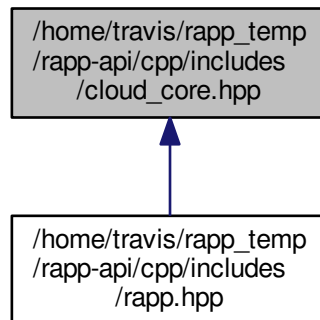
7.68 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud_core.hpp File Reference

```
#include "cloud/asio_handler/asio_handler.hpp"
#include "cloud/asio_service_http/asio_service_http.hpp"
#include "cloud/asio_socket/asio_socket.hpp"
#include "cloud/asio_socket_https/asio_socket_https.hpp"
#include "cloud/service_controller/service_controller.hpp"
```

Include dependency graph for cloud_core.hpp:

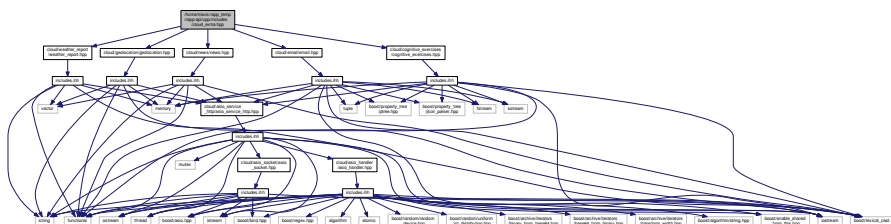


This graph shows which files directly or indirectly include this file:

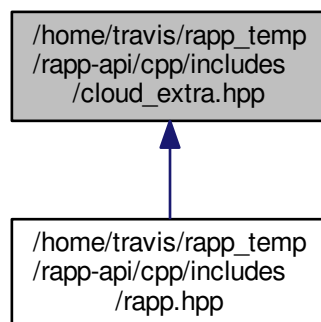


7.69 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud_extra.hpp File Reference

```
#include "cloud/cognitive_exercises/cognitive_exercises.hpp"
#include "cloud/email/email.hpp"
#include "cloud/geolocation/geolocation.hpp"
#include "cloud/news/news.hpp"
#include "cloud/weather_report/weather_report.hpp"
Include dependency graph for cloud_extra.hpp:
```



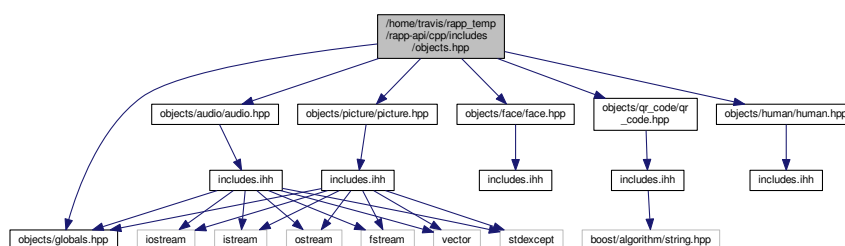
This graph shows which files directly or indirectly include this file:



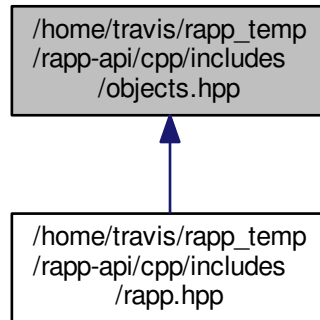
7.70 /home/travis/rapp_temp/rapp-api/cpp/includes/objects.hpp File Reference

```
#include "objects/globals.hpp"
#include "objects/face/face.hpp"
#include "objects/audio/audio.hpp"
#include "objects/qr_code/qr_code.hpp"
#include "objects/picture/picture.hpp"
#include "objects/human/human.hpp"
```

Include dependency graph for objects.hpp:



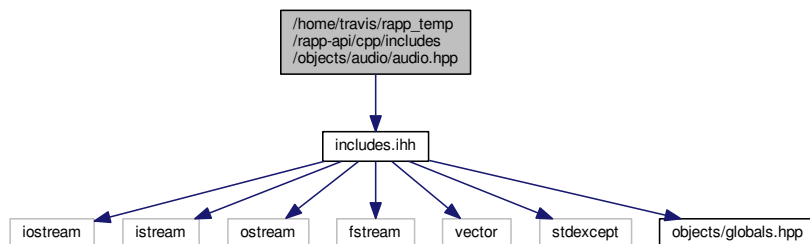
This graph shows which files directly or indirectly include this file:



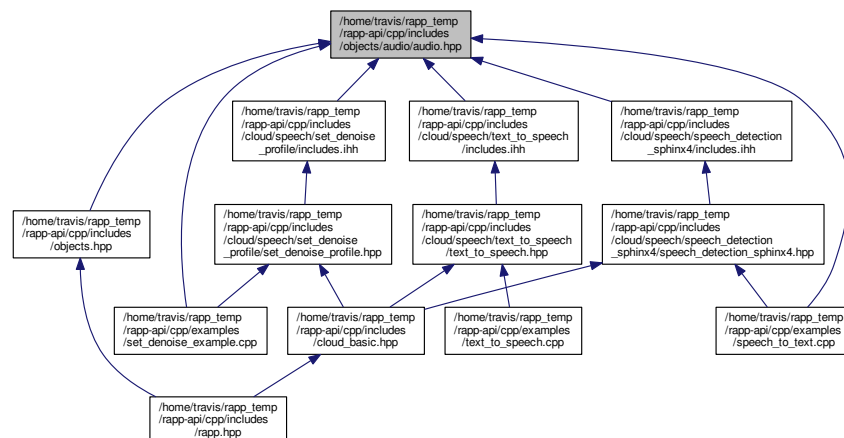
7.71 `/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp` File Reference

```
#include "includes.ihh"
```

Include dependency graph for `audio.hpp`:



This graph shows which files directly or indirectly include this file:



Classes

- class [rapp::object::audio](#)
class which wraps around raw bytes of an audiofile
- class [rapp::object::microphone_wav](#)
WAV Single channel 16Khz > Headset audio source.
- class [rapp::object::nao_quad_channel_wav](#)
WAV Class specialisation for quad channel.
- class [rapp::object::nao_single_channel_wav](#)
WAV Class specialisation for a single channel.
- class [rapp::object::ogg](#)
OGG Class specialisation.

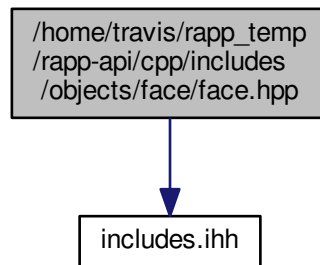
Namespaces

- [rapp](#)
- [rapp::object](#)

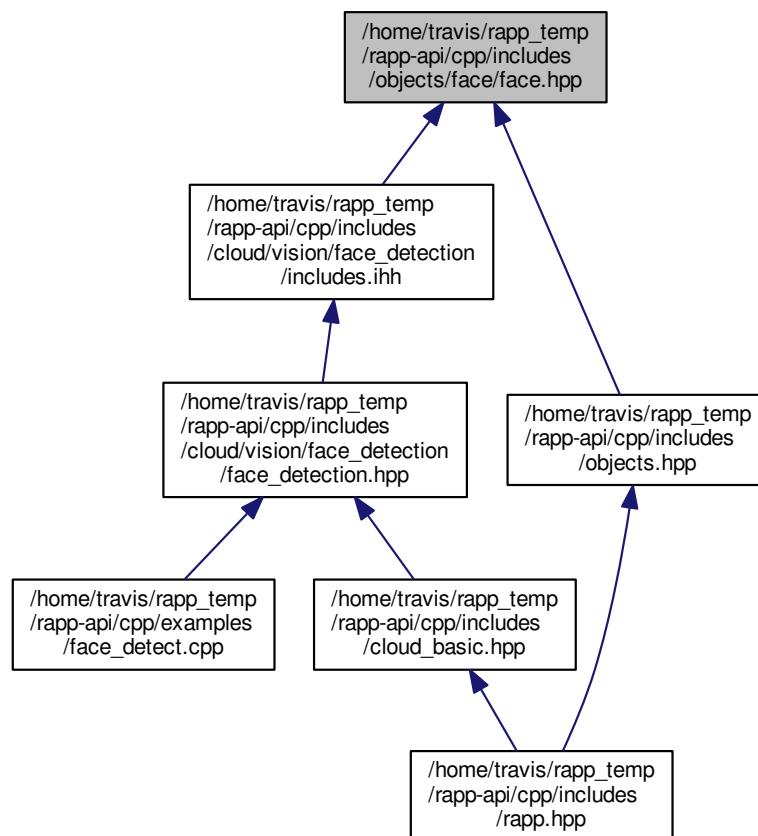
7.72 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/face.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for face.hpp:



This graph shows which files directly or indirectly include this file:



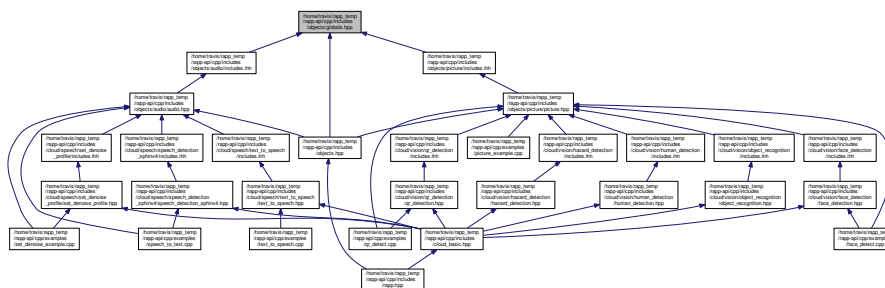
Classes

- class [rapp::object::face](#)

Namespaces

- rapp
- rapp::object

This graph shows which files directly or indirectly include this file:



- rapp
- rapp::types

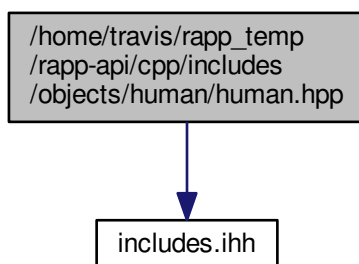
Typedefs

- typedef char **rapp::types::byte**

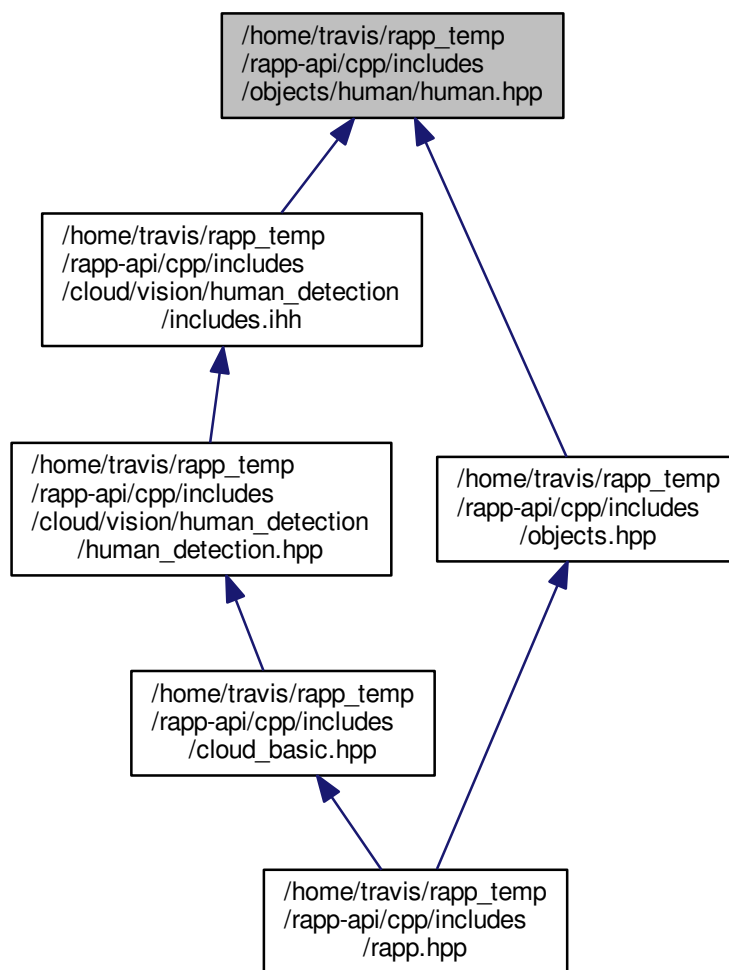
7.74 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/human/human.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for human.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class `rapp::object::human`
describes human coordinates

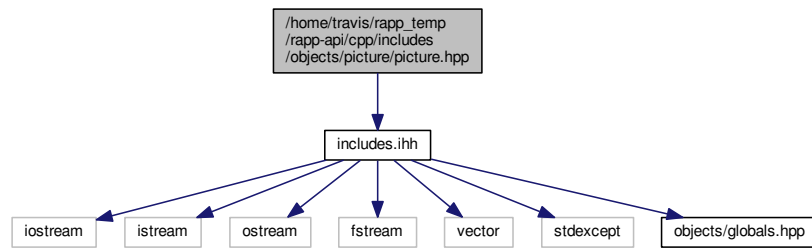
Namespaces

- `rapp`
- `rapp::object`

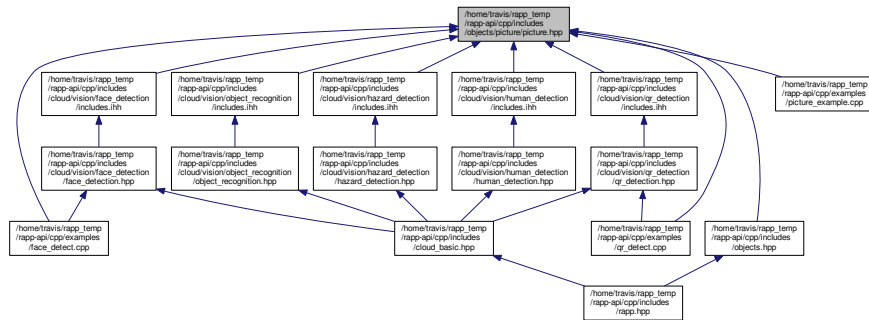
7.75 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/picture.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for picture.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class `rapp::object::picture`

class which wraps around raw bytes of a picture

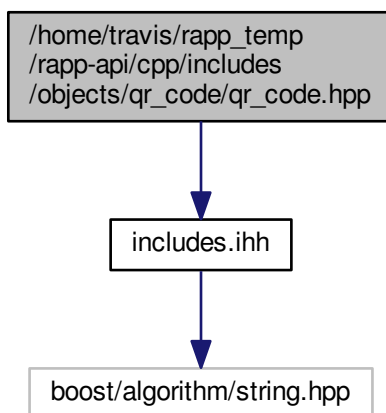
Namespaces

- `rapp`
- `rapp::object`

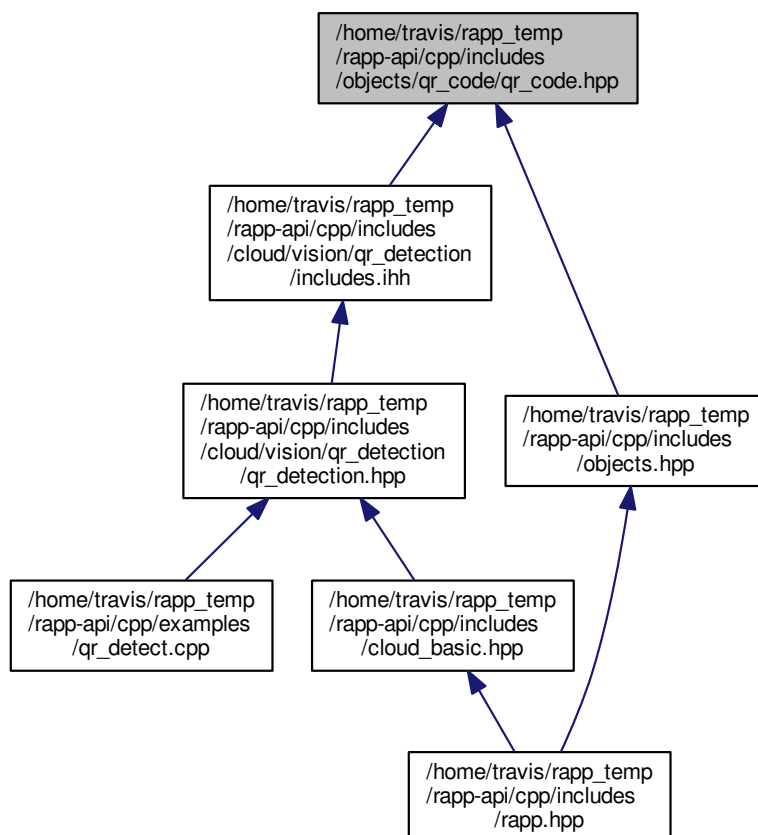
7.76 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/qr_code/qr_code.hpp File Reference

```
#include "includes.ihh"
```

Include dependency graph for qr_code.hpp:



This graph shows which files directly or indirectly include this file:



7.81 /home/travis/rapp_temp/rapp-api/python/RappCloud/Service/__init__.py File Reference

Namespaces

- [RappCloud.Service](#)

7.82 /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/__init__.py File Reference

Namespaces

- [RappCloud.ServiceController](#)

7.83 /home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/__init__.py File Reference

Namespaces

- [RappCloud.Utils](#)

7.84 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Cloud.py File Reference

Classes

- class [RappCloud.CloudMsgs.Cloud.CloudMsg](#)
- class [RappCloud.CloudMsgs.Cloud.CloudRequest](#)
- class [RappCloud.CloudMsgs.Cloud.CloudResponse](#)

Namespaces

- [RappCloud.CloudMsgs.Cloud](#)

7.85 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveExerciseSelect.py File Reference

Classes

- class [RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect](#)
- class [RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Request](#)
- class [RappCloud.CloudMsgs.CognitiveExerciseSelect.CognitiveExerciseSelect.Response](#)

Namespaces

- [RappCloud.CloudMsgs.CognitiveExerciseSelect](#)

7.86 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGet-History.py File Reference

Classes

- class [RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory](#)
- class [RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Request](#)
- class [RappCloud.CloudMsgs.CognitiveGetHistory.CognitiveGetHistory.Response](#)

Namespaces

- [RappCloud.CloudMsgs.CognitiveGetHistory](#)

7.87 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveGet-Scores.py File Reference

Classes

- class [RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores](#)
- class [RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Request](#)
- class [RappCloud.CloudMsgs.CognitiveGetScores.CognitiveGetScores.Response](#)

Namespaces

- [RappCloud.CloudMsgs.CognitiveGetScores](#)

7.88 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/CognitiveRecord-Performance.py File Reference

Classes

- class [RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance](#)
- class [RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Request](#)
- class [RappCloud.CloudMsgs.CognitiveRecordPerformance.CognitiveRecordPerformance.Response](#)

Namespaces

- [RappCloud.CloudMsgs.CognitiveRecordPerformance](#)

7.89 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailFetch.py File Reference

Classes

- class [RappCloud.CloudMsgs.EmailFetch.EmailFetch](#)
- class [RappCloud.CloudMsgs.EmailFetch.EmailFetch.Request](#)
- class [RappCloud.CloudMsgs.EmailFetch.EmailFetch.Response](#)

Namespaces

- [RappCloud.CloudMsgs.EmailFetch](#)

7.90 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/EmailSend.py File Reference

Classes

- class [RappCloud.CloudMsgs.EmailSend.EmailSend](#)
- class [RappCloud.CloudMsgs.EmailSend.EmailSend.Request](#)
- class [RappCloud.CloudMsgs.EmailSend.EmailSend.Response](#)

Namespaces

- [RappCloud.CloudMsgs.EmailSend](#)

7.91 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/FaceDetection.py File Reference

Classes

- class [RappCloud.CloudMsgs.FaceDetection.FaceDetection](#)
- class [RappCloud.CloudMsgs.FaceDetection.FaceDetection.Request](#)
- class [RappCloud.CloudMsgs.FaceDetection.FaceDetection.Response](#)

Namespaces

- [RappCloud.CloudMsgs.FaceDetection](#)

7.92 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/Geolocation.py File Reference

Classes

- class [RappCloud.CloudMsgs.Geolocation.Geolocation](#)
- class [RappCloud.CloudMsgs.Geolocation.Geolocation.Request](#)
- class [RappCloud.CloudMsgs.Geolocation.Geolocation.Response](#)

Namespaces

- [RappCloud.CloudMsgs.Geolocation](#)

7.93 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetection-Door.py File Reference

Classes

- class [RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor](#)
- class [RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Request](#)
- class [RappCloud.CloudMsgs.HazardDetectionDoor.HazardDetectionDoor.Response](#)

Namespaces

- [RappCloud.CloudMsgs.HazardDetectionDoor](#)

7.94 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HazardDetection-Light.py File Reference

Classes

- class [RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight](#)
- class [RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Request](#)
- class [RappCloud.CloudMsgs.HazardDetectionLight.HazardDetectionLight.Response](#)

Namespaces

- [RappCloud.CloudMsgs.HazardDetectionLight](#)

7.95 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/HumanDetection.py File Reference

Classes

- class [RappCloud.CloudMsgs.HumanDetection.HumanDetection](#)
- class [RappCloud.CloudMsgs.HumanDetection.HumanDetection.Request](#)
- class [RappCloud.CloudMsgs.HumanDetection.HumanDetection.Response](#)

Namespaces

- [RappCloud.CloudMsgs.HumanDetection](#)

7.96 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/NewsExplore.py File Reference

Classes

- class [RappCloud.CloudMsgs.NewsExplore.NewsExplore](#)
- class [RappCloud.CloudMsgs.NewsExplore.NewsExplore.Request](#)
- class [RappCloud.CloudMsgs.NewsExplore.NewsExplore.Response](#)

Namespaces

- [RappCloud.CloudMsgs.NewsExplore](#)

7.97 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/ObjectRecognitionCaffe.py File Reference

Classes

- class [RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe](#)
- class [RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Request](#)
- class [RappCloud.CloudMsgs.ObjectRecognitionCaffe.ObjectRecognitionCaffe.Response](#)

Namespaces

- [RappCloud.CloudMsgs.ObjectRecognitionCaffe](#)

7.98 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologyIsSubsuperclass.py File Reference

Classes

- class [RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass](#)
- class [RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Request](#)
- class [RappCloud.CloudMsgs.OntologyIsSubsuperclass.OntologyIsSubsuperclass.Response](#)

Namespaces

- [RappCloud.CloudMsgs.OntologyIsSubsuperclass](#)

7.99 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySubclasses.py File Reference

Classes

- class [RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses](#)
- class [RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Request](#)
- class [RappCloud.CloudMsgs.OntologySubclasses.OntologySubclasses.Response](#)

Namespaces

- [RappCloud.CloudMsgs.OntologySubclasses](#)

7.100 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/OntologySuperclasses.py File Reference

Classes

- class [RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses](#)
- class [RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Request](#)
- class [RappCloud.CloudMsgs.OntologySuperclasses.OntologySuperclasses.Response](#)

Namespaces

- [RappCloud.CloudMsgs.OntologySuperclasses](#)

7.101 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningPlan2D.py File Reference

Classes

- class [RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D](#)
- class [RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Request](#)
- class [RappCloud.CloudMsgs.PathPlanningPlan2D.PathPlanningPlan2D.Response](#)

Namespaces

- [RappCloud.CloudMsgs.PathPlanningPlan2D](#)

7.102 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/PathPlanningUploadMap.py File Reference

Classes

- class [RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap](#)
- class [RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Request](#)
- class [RappCloud.CloudMsgs.PathPlanningUploadMap.PathPlanningUploadMap.Response](#)

Namespaces

- [RappCloud.CloudMsgs.PathPlanningUploadMap](#)

7.103 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/QrDetection.py File Reference

Classes

- class [RappCloud.CloudMsgs.QrDetection.QrDetection](#)
- class [RappCloud.CloudMsgs.QrDetection.QrDetection.Request](#)
- class [RappCloud.CloudMsgs.QrDetection.QrDetection.Response](#)

Namespaces

- [RappCloud.CloudMsgs.QrDetection](#)

7.104 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SetNoiseProfile.py File Reference

Classes

- class [RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Request](#)
- class [RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile.Response](#)
- class [RappCloud.CloudMsgs.SetNoiseProfile.SetNoiseProfile](#)

Namespaces

- [RappCloud.CloudMsgs.SetNoiseProfile](#)

7.105 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognition-Google.py File Reference

Classes

- class [RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Request](#)
- class [RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle.Response](#)
- class [RappCloud.CloudMsgs.SpeechRecognitionGoogle.SpeechRecognitionGoogle](#)

Namespaces

- [RappCloud.CloudMsgs.SpeechRecognitionGoogle](#)

7.106 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/SpeechRecognition-Sphinx.py File Reference

Classes

- class [RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Request](#)
- class [RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx.Response](#)
- class [RappCloud.CloudMsgs.SpeechRecognitionSphinx.SpeechRecognitionSphinx](#)

Namespaces

- [RappCloud.CloudMsgs.SpeechRecognitionSphinx](#)

7.107 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/TextToSpeech.py File Reference

Classes

- class [RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Request](#)
- class [RappCloud.CloudMsgs.TextToSpeech.TextToSpeech.Response](#)
- class [RappCloud.CloudMsgs.TextToSpeech.TextToSpeech](#)

Namespaces

- [RappCloud.CloudMsgs.TextToSpeech](#)

7.108 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReport-Current.py File Reference

Classes

- class [RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Request](#)
- class [RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent.Response](#)
- class [RappCloud.CloudMsgs.WeatherReportCurrent.WeatherReportCurrent](#)

Namespaces

- [RappCloud.CloudMsgs.WeatherReportCurrent](#)

7.109 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudMsgs/WeatherReport-Forecast.py File Reference

Classes

- class [RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Request](#)
- class [RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast.Response](#)
- class [RappCloud.CloudMsgs.WeatherReportForecast.WeatherReportForecast](#)

Namespaces

- [RappCloud.CloudMsgs.WeatherReportForecast](#)

7.110 /home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/File.py File Reference

Classes

- class [RappCloud.Objects.File.File](#)

Namespaces

- [RappCloud.Objects.File](#)

7.110.1 Detailed Description

Copyright

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Author

Konstantinos Panayiotou, [klpanagi@gmail.com]

Definition in file [File.py](#).

7.111 /home/travis/rapp_temp/rapp-api/python/RappCloud/Objects/Payload.py File Reference

Classes

- class [RappCloud.Objects.Payload.Payload](#)

Namespaces

- [RappCloud.Objects.Payload](#)

7.111.1 Detailed Description

Copyright

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Author

Konstantinos Panayiotou, [klpanagi@gmail.com]

Definition in file [Payload.py](#).

7.112 /home/travis/rapp_temp/rapp-api/python/RappCloud/RappPlatformApi.py File Reference

Classes

- class [RappCloud.RappPlatformApi.RappPlatformAPI](#)

Namespaces

- [RappCloud.RappPlatformApi](#)

7.112.1 Detailed Description

Copyright

Rapp Project EU 2015

Author

Konstantinos Panayiotou, Manos Tsardoulis

Definition in file [RappPlatformApi.py](#).

7.113 /home/travis/rapp_temp/rapp-api/python/RappCloud/Service/RappPlatformService.py File Reference

Classes

- class [RappCloud.Service.RappPlatformService.RappPlatformService](#)

Namespaces

- [RappCloud.Service.RappPlatformService](#)

7.113.1 Detailed Description

Copyright

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Author

Konstantinos Panayiotou, [klpanagi@gmail.com]

Definition in file [RappPlatformService.py](#).

7.114 /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Adapters.py File Reference

Classes

- class [RappCloud.ServiceController.Adapters.SSL23Adapter](#)
- class [RappCloud.ServiceController.Adapters.SSL2Adapter](#)
- class [RappCloud.ServiceController.Adapters.SSL3Adapter](#)
- class [RappCloud.ServiceController.Adapters.SSLAdapter](#)
- class [RappCloud.ServiceController.Adapters.SSLDef](#)
- class [RappCloud.ServiceController.Adapters.TLS11Adapter](#)
- class [RappCloud.ServiceController.Adapters.TLS12Adapter](#)
- class [RappCloud.ServiceController.Adapters.TLS1Adapter](#)
- class [RappCloud.ServiceController.Adapters.TLSAdapter](#)

Namespaces

- [RappCloud.ServiceController.Adapters](#)

7.114.1 Detailed Description

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Definition in file [Adapters.py](#).

7.115 /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/Async-Handler.py File Reference

Classes

- class [RappCloud.ServiceController.AsyncHandler.AsyncHandler](#)

Namespaces

- [RappCloud.ServiceController.AsyncHandler](#)

7.116 /home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/RAPP-Auth.py File Reference

Classes

- class [RappCloud.ServiceController.RAPPAuth.RAPPAuth](#)

Namespaces

- [RappCloud.ServiceController.RAPPAuth](#)

7.116.1 Detailed Description

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Definition in file [RAPPAuth.py](#).

7.117 `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerAsync.py` File Reference

Classes

- class [RappCloud.ServiceController.ServiceControllerAsync.ServiceControllerAsync](#)

Namespaces

- [RappCloud.ServiceController.ServiceControllerAsync](#)

7.118 `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerBase.py` File Reference

Classes

- class [RappCloud.ServiceController.ServiceControllerBase.ServiceControllerBase](#)

Namespaces

- [RappCloud.ServiceController.ServiceControllerBase](#)

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Definition in file [ServiceControllerBase.py](#).

7.119 `/home/travis/rapp_temp/rapp-api/python/RappCloud/ServiceController/ServiceControllerSync.py` File Reference

Classes

- class [RappCloud.ServiceController.ServiceControllerSync.ServiceControllerSync](#)

Namespaces

- [RappCloud.ServiceController.ServiceControllerSync](#)

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Definition in file [ServiceControllerSync.py](#).

7.120 /home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/DatatypeAssert.py File Reference

Namespaces

- [RappCloud.Utils.DatatypeAssert](#)

Functions

- def [RappCloud.Utils.DatatypeAssert.add_to_args](#)
*Add values to *args.*
- def [RappCloud.Utils.DatatypeAssert.add_to_kwargs](#)
*Add values to **kwargs.*
- def [RappCloud.Utils.DatatypeAssert.datatypeassert](#)
Data type assertion decorator implementation.

7.121 /home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/Net.py File Reference

Classes

- class [RappCloud.Utils.Net.Net](#)

Namespaces

- [RappCloud.Utils.Net](#)

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Definition in file [Net.py](#).

7.122 /home/travis/rapp_temp/rapp-api/python/RappCloud/Utils/RandStrGen.py File Reference

Classes

- class [RappCloud.Utils.RandStrGen.RandStrGen](#)

Namespaces

- [RappCloud.Utils.RandStrGen](#)

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