RAPP Platform API

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Chapter 1

Namespace Index

1.1 Packages

Here are the packages with brief descriptions (if available):

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rapp::object
rapp::robot
rapp::services
rapp::types
RappCloud
RappCloud.CloudInterface
RappCloud.CloudInterface.CloudInterface
RappCloud.RandStrGen
RappCloud.RandStrGen.RandStrGen
RappCloud.RappCloud

2 Namespace Index

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

rapp::services::asio_socket
rapp::services::asio_service_http
rapp::cloud::faceDetector
rapp::cloud::fetchPersonalData
rapp::cloud::ontologyIsSubSuperClassOf
rapp::cloud::ontologySubClassesOf
rapp::cloud::ontologySuperClassesOf
rapp::cloud::qrDetector
rapp::cloud::setDenoiseProfile
rapp::cloud::speechToText
rapp::services::asio_service_raw
rapp::object::audio
RappCloud.CloudInterface.CloudInterface
rapp::robot::communication
rapp::object::face
face
rapp::robot::navigation
rapp::robot::nao
ontologySubclassOf
ontologySubSuperclassOf
ontologySuperclassesOf
rapp::object::picture
rapp::robot::proto
rapp::robot::nao
rapp::object::qrCode
RappCloud.RandStrGen.RandStrGen
RappCloud.RappCloud.RappCloud
rapp::services::service controller
rapp::robot::vision
rapp::robot::nao

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Chapter 3

Class Index

3.1 Class List

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rapp::object::audio	
Class which wraps around raw bytes of an audiofile	24
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rapp::robot::communication	
Abstract Base Class (ABC) Interface for Robot Communication	28
rapp::object::face	31
face	
Class which should somehow encapsulate a face	32
rapp::cloud::faceDetector	
Asynchronous Service which will request the cloud to detect faces	33
rapp::cloud::fetchPersonalData	
Get all personal data for a specific user	35
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Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

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/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontologyIsSubSuperClassOf/Includes.ihh	83
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hpp	104
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/qrDetector/Includes.ihh	86
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/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speechToText/Includes.ihh	88
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speechToText/speechToText.hpp	107
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/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/upServices/upServices.hpp	107
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/audio.hpp	108
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/home/travis/rapp_temp/rapp-api/cpp/includes/robot/communication/communication.hpp	112
/home/travis/rapp_temp/rapp-api/cpp/includes/robot/communication/Includes.ihh	92
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/home/travis/rapp_temp/rapp-api/cpp/includes/robot/vision/vision.hpp	115
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Chapter 5

Namespace Documentation

5.1 rapp Namespace Reference

Namespaces

- cloud
- object
- robot
- · services
- types

5.2 rapp::cloud Namespace Reference

Classes

· class faceDetector

Asynchronous Service which will request the cloud to detect faces.

class fetchPersonalData

Get all personal data for a specific user.

- class ontologyIsSubSuperClassOf
- · class ontologySubClassesOf
- · class ontologySuperClassesOf
- class qrDetector

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

· class setDenoiseProfile

setting the denoising audio profile for speech recognition

class speechToText

Asynchronous Service which will request the cloud to process speech-to-text.

Variables

```
• constexpr char address [] = "localhost"
```

```
api.rapp.cloud - use deployment IP
```

constexpr char auth_token [] = "cmFwcGRldjpyYXBwZGV2"

base64 encoded authentication token

• constexpr char port [] = "9001"

api.rapp.cloud - HOP server port

5.2.1 Variable Documentation

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

api.rapp.cloud - use deployment IP

A few global strings needed internally

Version

3

Date

13-February-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 16 of file globals.hpp.

5.2.1.2 constexpr char rapp::cloud::auth_token[] = "cmFwcGRldjpyYXBwZGV2"

base64 encoded authentication token

Definition at line 22 of file globals.hpp.

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

api.rapp.cloud - HOP server port

Definition at line 19 of file globals.hpp.

5.3 rapp::object Namespace Reference

Classes

· class audio

class which wraps around raw bytes of an audiofile

- class face
- class picture

class which wraps around raw bytes of a picture

· class qrCode

class which should encapsulate a QR code

5.4 rapp::robot Namespace Reference

Classes

· class communication

Abstract Base Class (ABC) Interface for Robot Communication.

class nao

Implementation Class for Aldearan's NAO robot.

· class navigation

Abstract Base Class (ABC) Interface for Navigation.

· class proto

Abstract Base Class (ABC) Interface Prototype for all Robots.

• class vision

Abstract Base Class (ABC) Interface for Vision.

5.5 rapp::services Namespace Reference

Classes

· class asio_service_http

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

· class asio service raw

base class for asynchronous sockets used for connecting to cloud services

· class asio_socket

Abstract Base ASIO Socket class.

class service_controller

Main class that controllers RAPP Services.

5.6 rapp::types Namespace Reference

Typedefs

· typedef char byte

5.6.1 Typedef Documentation

5.6.1.1 typedef char rapp::types::byte

Definition at line 27 of file globals.hpp.

5.7 RappCloud Namespace Reference

Namespaces

- CloudInterface
- RandStrGen
- RappCloud

5.8 RappCloud.CloudInterface Namespace Reference

Namespaces

CloudInterface

5.9 RappCloud.CloudInterface.CloudInterface Namespace Reference

Classes

· class CloudInterface

Cloud Interface class.

5.10 RappCloud.RandStrGen Namespace Reference

Namespaces

RandStrGen

5.11 RappCloud.RandStrGen.RandStrGen Namespace Reference

Classes

· class RandStrGen

Random String Generator class.

5.12 RappCloud.RappCloud Namespace Reference

Classes

class RappCloud

Rapp Platform API class.

Variables

• tuple __path__ = os.path.dirname(__file__)

5.12.1 Variable Documentation

5.12.1.1 tuple RappCloud.RappCloud._path_ = os.path.dirname(__file__)

Definition at line 39 of file RappCloud.py.

Chapter 6

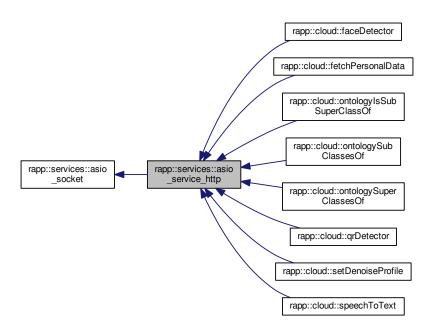
Class Documentation

6.1 rapp::services::asio_service_http Class Reference

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

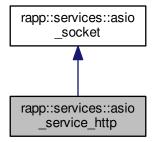
#include <asio_service_http.hpp>

Inheritance diagram for rapp::services::asio_service_http:



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Collaboration diagram for rapp::services::asio_service_http:



Public Member Functions

• void Schedule (boost::asio::ip::tcp::resolver::query &query, boost::asio::ip::tcp::resolver &resolver, boost::asio::io_service &io_service)

Protected Member Functions

• asio_service_http ()=default

Hidden empty constructor is meant to be used only by inheriting classes.

void error_handler (const boost::system::error_code &error)

Handle an Error.

- 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)

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 invalid_request (const std::string message)

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

std::string randomBoundary () const

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

Protected Attributes

std::function < void(std::string) > callback

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

std::string header_

Header that will be used.

std::string post_

Actual post Data.

• boost::asio::streambuf request_

Request Container.

· boost::asio::streambuf response_

Response Container.

• std::unique ptr

< boost::asio::ip::tcp::socket > socket_

Actual Socket.

6.1.1 Detailed Description

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

Version

6

Date

26-April-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

See Also

http://www.jmarshall.com/easy/http/#postmethod for HTTP Protocol details

Warning

this class does not support SSL/TLS sockets

Definition at line 18 of file asio_service_http.hpp.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 rapp::services::asio_service_http::asio_service_http() [protected], [default]

Hidden empty constructor is meant to be used only by inheriting classes.

6.1.3 Member Function Documentation

6.1.3.1 void rapp::services::asio_service_http::error_handler(const boost::system::error_code & error) [protected]

Handle an Error.

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Parameters

error	is the raised error from the client
-------	-------------------------------------

Definition at line 53 of file asio_service_http.hpp.

6.1.3.2 void rapp::services::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

err	is a possible error
endpoint_iterator	is boosts' hostname address handler

Definition at line 93 of file asio_service_http.hpp.

6.1.3.3 void rapp::services::asio_service_http::handle_read_content (const boost::system::error_code & err)

[protected]

Callback for Handling Actual Data Contents.

Parameters

err	is a possible error message

Definition at line 193 of file asio_service_http.hpp.

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

Callback for Handling Headers.

Parameters

err	is a possible error message

Definition at line 176 of file asio service http.hpp.

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

Callback for handling HTTP Header Response Data.

Parameters

|--|

Definition at line 139 of file asio_service_http.hpp.

6.1.3.6 void rapp::services::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

err	is a possible error
endpoint_iterator	is boost's hostname address handler

Definition at line 69 of file asio service http.hpp.

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

Callback for handling request and waiting for response.

Parameters

err is a possible error	
-------------------------	--

Definition at line 121 of file asio_service_http.hpp.

6.1.3.8 void rapp::services::asio_service_http::invalid_request (const std::string message) [protected]

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

Parameters

message	is the message received from the service

Definition at line 59 of file asio_service_http.hpp.

6.1.3.9 std::string rapp::services::asio_service_http::randomBoundary() const [protected]

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

Definition at line 226 of file asio_service_http.hpp.

6.1.3.10 void rapp::services::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

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

Implements rapp::services::asio_socket.

Definition at line 28 of file asio_service_http.hpp.

6.1.4 Member Data Documentation

6.1.4.1 std::function<void(std::string)> rapp::services::asio_service_http::callback_ [protected]

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

Definition at line 251 of file asio_service_http.hpp.

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6.1.4.2 std::string rapp::services::asio_service_http::header_ [protected]

Header that will be used.

Definition at line 245 of file asio_service_http.hpp.

6.1.4.3 std::string rapp::services::asio_service_http::post_ [protected]

Actual post Data.

Definition at line 248 of file asio_service_http.hpp.

6.1.4.4 boost::asio::streambuf rapp::services::asio_service_http::request_ [protected]

Request Container.

Definition at line 257 of file asio service http.hpp.

6.1.4.5 boost::asio::streambuf rapp::services::asio_service_http::response_ [protected]

Response Container.

Definition at line 260 of file asio_service_http.hpp.

6.1.4.6 std::unique_ptr<box>boost::asio::ip::tcp::socket> rapp::services::asio_service_http::socket_ [protected]

Actual Socket.

Definition at line 254 of file asio_service_http.hpp.

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

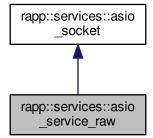
/home/travis/rapp_temp/rapp-api/cpp/includes/service/asio_service_http/asio_service_http.hpp

6.2 rapp::services::asio_service_raw Class Reference

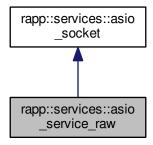
base class for asynchronous sockets used for connecting to cloud services

```
#include <asio_service_raw.hpp>
```

Inheritance diagram for rapp::services::asio_service_raw:



Collaboration diagram for rapp::services::asio_service_raw:



Public Member Functions

- asio_service_raw (const std::vector< rapp::types::byte > &bytearray)
 - Construct an Asynchronous Socket Client without HTTP stuff, only XML delimiters.
- asio_service_raw (const std::vector< rapp::types::byte > &bytearray, std::function< void(boost::asio-::streambuf &)> callback)

Construct an Asynchronous Socket Client without HTTP stuff, only XML delimiters.

• void Schedule (boost::asio::ip::tcp::resolver::query &query, boost::asio::ip::tcp::resolver &resolver, boost::asio::io_service &io_service)

Protected Member Functions

- virtual void error_handler (const boost::system::error_code &error)
- void handle_connect (const boost::system::error_code &err, boost::asio::ip::tcp::resolver::iterator endpoint_-iterator)
- void handle_read_response (const boost::system::error_code &err)
- virtual void handle_reply ()
- void handle_resolve (const boost::system::error_code &err, boost::asio::ip::tcp::resolver::iterator endpoint_-iterator)
- void handle_write_request (const boost::system::error_code &err)

Protected Attributes

- std::vector< rapp::types::byte > bytes_
 - Actual bytestream that will be sent over the socket -.
- std::function < void(boost::asio::streambuf &) > callback_

Optional Callback Handler.

• bool complete_ = false

Operation complete?

• boost::asio::streambuf request_

Request buffer stream.

• boost::asio::streambuf response_

Response buffer stream.

- std::unique_ptr
 - < boost::asio::ip::tcp::socket > socket

Actual Socket.

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6.2.1 Detailed Description

base class for asynchronous sockets used for connecting to cloud services

Version

2

Date

6-February-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Warning

this class does not support SSL/TLS sockets

WARNING RESTRUCTURE AS HEADER ONLY !!!! FACILIATE THE USAGE OF STREAMING BUFFERS FROM CLIENT TO SERVER AS THIS IS THE ONLY THING WE WILL USE THIS CLASS FOR !!!

WARNING THE virtual methods below are of no use - see how asio_service_http has been reworked and do the same here

Definition at line 19 of file asio_service_raw.hpp.

6.2.2 Constructor & Destructor Documentation

6.2.2.1 rapp::services::asio_service_raw::asio_service_raw (const std::vector< rapp::types::byte > & bytearray)

Construct an Asynchronous Socket Client without HTTP stuff, only XML delimiters.

Parameters

bytearray	is a vector which contains raw byte (char) values

Definition at line 7 of file asio_service_raw.cpp.

6.2.2.2 rapp::services::asio_service_raw::asio_service_raw (const std::vector< rapp::types::byte > & bytearray, std::function< void(boost::asio::streambuf &)> callback)

Construct an Asynchronous Socket Client without HTTP stuff, only XML delimiters.

Parameters

bytearray	is a vector which contains raw byte (char) values
callback	is a lamda or function pointer with the specific signature, that is invoked upon reply acquisition

Definition at line 12 of file asio_service_raw.cpp.

6.2.3 Member Function Documentation

6.2.3.1 void rapp::services::asio_service_raw::error_handler(const boost::system::error_code & error) [protected], [virtual]

Handle an Error

Parameters

error	is the raised error from the client
-------	-------------------------------------

Definition at line 52 of file asio_service_raw.cpp.

Callback for Handling Connection Events

Parameters

err	is a possible error
endpoint_iterator	is boosts' hostname address handler

WARNING - Make this time-out

Definition at line 80 of file asio_service_raw.cpp.

6.2.3.3 void rapp::services::asio_service_raw::handle_read_response (const boost::system::error_code & *err*) [protected]

Callback for handling reading the reponse from the server

Definition at line 134 of file asio_service_raw.cpp.

6.2.3.4 void rapp::services::asio_service_raw::handle_reply() [protected], [virtual]

Handle the Reply

Note

you have to override this method if inheriting

Definition at line 45 of file asio_service_raw.cpp.

6.2.3.5 void rapp::services::asio_service_raw::handle_resolve (const boost::system::error_code & err, boost::asio::ip::tcp::resolver::iterator endpoint_iterator) [protected]

Callback for Handling Address Resolution

Parameters

err	is a possible error
endpoint_iterator	is boost's hostname address handler

Definition at line 57 of file asio_service_raw.cpp.

6.2.3.6 void rapp::services::asio_service_raw::handle_write_request (const boost::system::error_code & err) [protected]

Callback for handling sending request and waiting for a response

Parameters

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err	is a possible error
-----	---------------------

NOTE: Make this time-out, we don't want to wait forever for a reply!

Definition at line 113 of file asio_service_raw.cpp.

6.2.3.7 void rapp::services::asio_service_raw::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

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

Implements rapp::services::asio socket.

Definition at line 21 of file asio_service_raw.cpp.

6.2.4 Member Data Documentation

6.2.4.1 std::vector<rapp::types::byte> rapp::services::asio_service_raw::bytes_ [protected]

Actual bytestream that will be sent over the socket -.

Note

: be careful not to consume it prematurely!

Definition at line 99 of file asio_service_raw.hpp.

6.2.4.2 std::function<void(boost::asio::streambuf &)> rapp::services::asio_service_raw::callback_ [protected]

Optional Callback Handler.

Definition at line 102 of file asio_service_raw.hpp.

6.2.4.3 bool rapp::services::asio_service_raw::complete_ = false [protected]

Operation complete?

Definition at line 114 of file asio_service_raw.hpp.

 $\textbf{6.2.4.4} \quad \textbf{boost::asio::streambuf rapp::services::asio_service_raw::request_ \quad [\texttt{protected}]$

Request buffer stream.

Definition at line 108 of file asio_service_raw.hpp.

6.2.4.5 boost::asio::streambuf rapp::services::asio_service_raw::response_ [protected]

Response buffer stream.

Definition at line 111 of file asio_service_raw.hpp.

6.2.4.6 std::unique_ptr<boost::asio::ip::tcp::socket> rapp::services::asio_service_raw::socket [protected]

Actual Socket.

Definition at line 105 of file asio service raw.hpp.

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

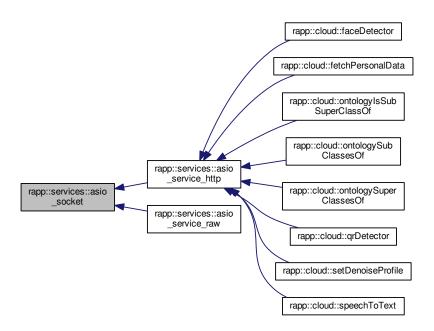
- /home/travis/rapp_temp/rapp-api/cpp/includes/service/asio_service_raw/asio_service_raw.hpp
- /home/travis/rapp_temp/rapp-api/cpp/includes/service/asio_service_raw/asio_service_raw.cpp

6.3 rapp::services::asio_socket Class Reference

Abstract Base ASIO Socket class.

#include <asio_socket.hpp>

Inheritance diagram for rapp::services::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 the service controller, various types of sockets This Interface is needed, so that different services, can be passed to the scheduler transparently

Version

2

Date

26-April-2015

Author

```
Alex Gkiokas a.gkiokas@ortelio.co.uk
```

Definition at line 19 of file asio_socket.hpp.

6.3.2 Member Function Documentation

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

Schedule this client as a job for execution using

Parameters

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

Implemented in rapp::services::asio_service_raw, and rapp::services::asio_service_http.

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

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

6.4 rapp::object::audio Class Reference

class which wraps around raw bytes of an audiofile

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

Public Member Functions

• audio (const std::string filepath)

Construct from a file-path.

• audio (std::ifstream &bytestream)

Construct using an open file stream.

• audio (const audio &)=default

Copy constructor.

• std::vector< rapp::types::byte > bytearray () const

Get audio as array of bytes.

• 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 openCopy_ (std::ifstream &bytestream)

Private Attributes

• std::vector< rapp::types::byte > bytearray_

6.4.1 Detailed Description

class which wraps around raw bytes of an audiofile

Version

1

Date

16-August-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file audio.hpp.

6.4.2 Constructor & Destructor Documentation

6.4.2.1 rapp::object::audio::audio (const std::string filepath)

Construct from a file-path.

Definition at line 18 of file audio.hpp.

6.4.2.2 rapp::object::audio::audio (std::ifstream & bytestream)

Construct using an open file stream.

Definition at line 30 of file audio.hpp.

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

Copy constructor.

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

6.4.3 Member Function Documentation

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

Get audio as array of bytes.

Definition at line 39 of file audio.hpp.

6.4.3.2 void rapp::object::audio::openCopy_(std::ifstream & bytestream) [private]

Definition at line 74 of file audio.hpp.

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

Assignment operator.

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

Are audios same?

Definition at line 45 of file audio.hpp.

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

Save audio to filepath.

Definition at line 54 of file audio.hpp.

6.4.4 Member Data Documentation

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

Definition at line 84 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

6.5 RappCloud.CloudInterface.CloudInterface.CloudInterface Class Reference

Cloud Interface class.

Static Public Member Functions

· def callService

Performs Platform's HOP Web Service request.

· def isJson

Check if an object (literal) is in json representation format.

6.5.1 Detailed Description

Cloud Interface class.

Service controller for HOP Web Services requests Static class.

Definition at line 41 of file CloudInterface.py.

6.5.2 Member Function Documentation

6.5.2.1 def RappCloud.CloudInterface.CloudInterface.callService (url, payload, files, basicAuth) [static]

Performs Platform's HOP Web Service request.

Parameters

basicAuth	Basic http authentication credentials {'username': ", 'password': "}
url	Post request destination Url.
payload	data payload of the post request.
files	multipart post file field.

Returns

Rapp Platform Service response object.

Definition at line 54 of file CloudInterface.py.

6.5.2.2 def RappCloud.CloudInterface.CloudInterface.isJson(obj) [static]

Check if an object (literal) is in json representation format.

Parameters

obj	Object (literal).

Returns

True if object is a json object. False otherwise.

Definition at line 105 of file CloudInterface.py.

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

• /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudInterface/CloudInterface.py

6.6 rapp::robot::communication Class Reference

Abstract Base Class (ABC) Interface for Robot Communication.

```
#include <communication.hpp>
```

Public Types

enum Language {
 Language::ENGLISH,
 Language::GREEK }

Public Member Functions

 virtual bool captureAudio (std::shared_ptr< rapp:object::audio > buffer, float waiting_time, float microphone-_energy)=0

Record audio

• virtual bool playAudio (const std::string &file_path, double position, double volume, double balance, bool play_in_loop)=0

Produce Audio from robot's speakers.

- virtual bool textToSpeech (const std::string str, Language language=Language::ENGLISH)=0
 Produce speec from text.
- virtual std::string wordSpotting (std::array< std::string > dictionary, unsigned int size)=0

?

used for?

Get Microphone Energy - NOTE what is the Param

- virtual float getMicrophoneEnergy (std::string name) const =0
- virtual bool voiceRecord (const std::shared_ptr< rapp::object::audio >)=0

6.6.1 Detailed Description

Abstract Base Class (ABC) Interface for Robot Communication.

Version

1

Date

20-September-2015

Author

```
Alex Giokas a.gkiokas@ortelio.co.uk
```

This class specifies the interface for all communications. It is your responsibility to implement them appropriately. Definition at line 16 of file communication.hpp.

6.6.2 Member Enumeration Documentation

6.6.2.1 enum rapp::robot::communication::Language [strong]

Enumerator

ENGLISH

GREEK

Definition at line 20 of file communication.hpp.

6.6.3 Member Function Documentation

6.6.3.1 virtual bool rapp::robot::communication::captureAudio (std::shared_ptr< rapp:object::audio > buffer, float waiting_time, float microphone_energy) [pure virtual]

Record audio.

- **6.6.3.2** virtual float rapp::robot::communication::getMicrophoneEnergy (std::string name) const [pure virtual]
- 6.6.3.3 virtual bool rapp::robot::communication::playAudio (const std::string & file_path, double position, double volume, double balance, bool play_in_loop) [pure virtual]

Produce Audio from robot's speakers.

6.6.3.4 virtual bool rapp::robot::communication::textToSpeech (const std::string str, Language language = Language::ENGLISH) [pure virtual]

Produce speec from text.

 $\textbf{6.6.3.5} \quad \textbf{virtual bool rapp::robot::communication::voiceRecord (const std::shared_ptr < rapp::object::audio >) \quad \texttt{[pure virtual]}$

Record Voice - NOTE:

Parameters

audio	pointer will be updated If this method is asynchronous or multi-threaded, then you need to
	lock the pointer in your implementation.

6.6.3.6 virtual std::string rapp::robot::communication::wordSpotting (std::array< std::string > dictionary, unsigned int size) [pure virtual]

?

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

/home/travis/rapp_temp/rapp-api/cpp/includes/robot/communication/communication.hpp

6.7 rapp::object::face Class Reference

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

Public Member Functions

face (float top_left_x, float top_left_y, float top_left_z, float bottom_right_x, float bottom_right_y, float bottom_right_z)

Consruct using face coordinates (a rectangle)

- face ()=default
- face (const face &)=default

Copy constructor.

• bool operator== (const face &rhs) const

Assignment Constructor.

Private Attributes

```
• float bottom_right_x__ = -1.
```

- float bottom_right_y__ = -1.
- float bottom_right_z__ = -1.
- float top_left_x__ = -1.
- float top_left_y__ = -1.
- float top_left_z__ = -1.

6.7.1 Detailed Description

Definition at line 16 of file face.hpp.

6.7.2 Constructor & Destructor Documentation

6.7.2.1 rapp::object::face::face (float top_left_x, float top_left_y, float top_left_z, float bottom_right_x, float bottom_right_z) float bottom_right_z)

Consruct using face coordinates (a rectangle)

Definition at line 23 of file face.hpp.

```
6.7.2.2 rapp::object::face::face( ) [default]6.7.2.3 rapp::object::face::face( const face & ) [default]Copy constructor.
```

6.7.3 Member Function Documentation

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

Assignment Constructor.

Equality operator

Definition at line 49 of file face.hpp.

6.7.4 Member Data Documentation

```
6.7.4.1 float rapp::object::face::bottom_right_x__ = -1. [private]
```

Definition at line 64 of file face.hpp.

```
6.7.4.2 float rapp::object::face::bottom_right_y__ = -1. [private]
```

Definition at line 65 of file face.hpp.

```
6.7.4.3 float rapp::object::face::bottom_right_z__ = -1. [private]
```

Definition at line 66 of file face.hpp.

```
6.7.4.4 float rapp::object::face::top_left_x__ = -1. [private]
```

Definition at line 61 of file face.hpp.

```
6.7.4.5 float rapp::object::face::top_left_y__ = -1. [private]
```

Definition at line 62 of file face.hpp.

```
6.7.4.6 float rapp::object::face::top_left_z__ = -1. [private]
```

Definition at line 63 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

6.8 face Class Reference

class which should somehow encapsulate a face

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

6.8.1 Detailed Description

class which should somehow encapsulate a face

Version

1

Date

13-Feburary-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

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

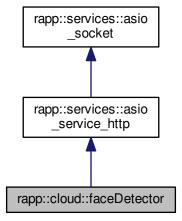
• /home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/face.hpp

6.9 rapp::cloud::faceDetector Class Reference

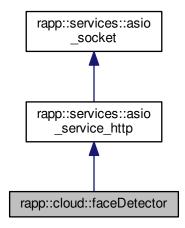
Asynchronous Service which will request the cloud to detect faces.

#include <faceDetector.hpp>

 $Inheritance\ diagram\ for\ rapp::cloud::face Detector:$



Collaboration diagram for rapp::cloud::faceDetector:



Public Member Functions

• faceDetector (const std::shared_ptr< rapp::object::picture > image, const std::string image_format, std:::function< void(std::vector< rapp::object::face >) > callback)

Constructor.

Private Member Functions

• void handle_reply (std::string json)

Private Attributes

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

The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.9.1 Detailed Description

Asynchronous Service which will request the cloud to detect faces.

Version

6

Date

26-April-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file faceDetector.hpp.

6.9.2 Constructor & Destructor Documentation

6.9.2.1 rapp::cloud::faceDetector::faceDetector (const std::shared_ptr< rapp::object::picture > image, const std::string image_format, std::function< void(std::vector< rapp::object::face >) > callback)

Constructor.

Parameters

_		
	image	is the input image

See Also

rapp::object::picture

Parameters

ſ	image_format	is the image format
	callback	is the function that will receive a vector of the detected face(s) coordinates

Definition at line 23 of file faceDetector.hpp.

6.9.3 Member Function Documentation

6.9.3.1 void rapp::cloud::faceDetector::handle_reply (std::string *json*) [private]

Definition at line 66 of file faceDetector.hpp.

6.9.4 Member Data Documentation

6.9.4.1 std::function< void (std::vector< rapp::object::face >) > rapp::cloud::faceDetector::delegate_ [private]

The callback called upon completion of receiving the detected faces.

Definition at line 131 of file faceDetector.hpp.

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

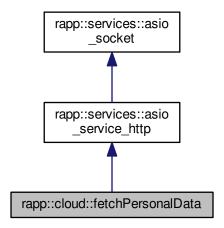
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/faceDetector/faceDetector.hpp

6.10 rapp::cloud::fetchPersonalData Class Reference

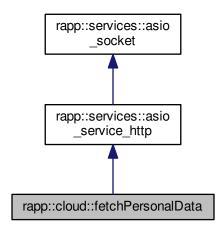
Get all personal data for a specific user.

#include <fetchPersonalData.hpp>

Inheritance diagram for rapp::cloud::fetchPersonalData:



Collaboration diagram for rapp::cloud::fetchPersonalData:



Public Member Functions

• fetchPersonalData (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.

Additional Inherited Members

6.10.1 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 14 of file fetchPersonalData.hpp.

6.10.2 Constructor & Destructor Documentation

6.10.2.1 rapp::cloud::fetchPersonalData::fetchPersonalData (const std::string *user*, std::function< void(const std::string) > callback)

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

Parameters

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

Note

this is asynchronous, not serial, execution time may vary

Definition at line 24 of file fetchPersonalData.hpp.

6.10.3 Member Function Documentation

 $\textbf{6.10.3.1} \quad \textbf{void rapp::cloud::fetchPersonalData::handle_reply (\ \textbf{std::string} \textit{\textit{json}} \ \textbf{)} \quad [\texttt{private}]$

Get reply and send it directly to delegate

Note

we do not do any parsing at all here

Definition at line 51 of file fetchPersonalData.hpp.

6.10.4 Member Data Documentation

6.10.4.1 std::function< void(const std::string) > rapp::cloud::fetchPersonalData::delegate_ [private]

The callback called upon completion of receiving the detected faces.

Definition at line 57 of file fetchPersonalData.hpp.

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

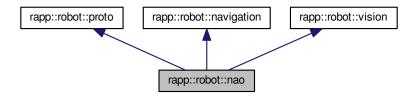
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetchPersonalData/fetchPersonalData.hpp

6.11 rapp::robot::nao Class Reference

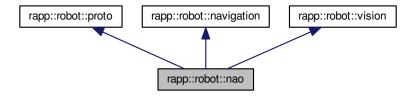
Implementation Class for Aldearan's NAO robot.

#include <nao.hpp>

Inheritance diagram for rapp::robot::nao:



Collaboration diagram for rapp::robot::nao:



Public Member Functions

• nao ()=default

Constructor?

• std::shared_pointr

< rapp::object::picture > captureImage (std::string camerald, int cameraResolution) const

NOTE: What about format?

- void move Head (float yaw, float pitch)
- void lookAtPoint (float x, float y, float z)

```
• std::string model () const
          Get Robot's Model.
    · void moveJoint (std::string joint, float angle)
    • void moveStop ()

    void moveTo (float x, float y, float z)

          TODO: Describe each parameter and explain what it is.
    • void moveVel (float x, float y, float z)

    void removeStiffness (std::string joint)

    • std::string ruid () const
          Get Robot's Unique ID.

    void takePredefinedPosture (std::string pose)

    · void visOdom ()
6.11.1 Detailed Description
Implementation Class for Aldearan's NAO robot.
Version
Date
      20-September-2015
Author
      Alex Gkiokas a.gkiokas@ortelio.co.uk
Definition at line 13 of file nao.hpp.
6.11.2 Constructor & Destructor Documentation
6.11.2.1 rapp::robot::nao::nao( ) [default]
Constructor?
6.11.3 Member Function Documentation
6.11.3.1 std::shared_pointr<rapp::object::picture> rapp::robot::nao::captureImage ( std::string camerald, int
         cameraResolution ) const [virtual]
NOTE: What about format?
Implements rapp::robot::vision.
6.11.3.2 void move rapp::robot::nao::Head ( float yaw, float pitch )
6.11.3.3 void rapp::robot::nao::lookAtPoint(float x, float y, float z) [virtual]
Implements rapp::robot::navigation.
```

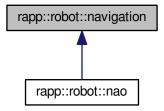
```
6.11.3.4 std::string rapp::robot::nao::model() const [virtual]
Get Robot's Model.
Implements rapp::robot::proto.
6.11.3.5 void rapp::robot::nao::moveJoint ( std::string joint, float angle ) [virtual]
Implements rapp::robot::navigation.
6.11.3.6 void rapp::robot::nao::moveStop( ) [virtual]
Implements rapp::robot::navigation.
6.11.3.7 void rapp::robot::nao::moveTo ( float x, float y, float theta ) [virtual]
TODO: Describe each parameter and explain what it is.
Implements rapp::robot::navigation.
6.11.3.8 void rapp::robot::nao::moveVel(float x, float y, float z) [virtual]
Implements rapp::robot::navigation.
6.11.3.9 void rapp::robot::nao::removeStiffness ( std::string joint )
6.11.3.10 std::string rapp::robot::nao::ruid() const [virtual]
Get Robot's Unique ID.
Implements rapp::robot::proto.
6.11.3.11 void rapp::robot::nao::takePredefinedPosture( std::string pose ) [virtual]
NOTE: parameter pose could be a class of its own, because it encapsulates some kind of Robot State.
Implements rapp::robot::navigation.
6.11.3.12 void rapp::robot::nao::visOdom( ) [virtual]
Implements rapp::robot::navigation.
The documentation for this class was generated from the following file:
    /home/travis/rapp_temp/rapp-api/cpp/includes/robot/nao/nao.hpp
```

6.12 rapp::robot::navigation Class Reference

Abstract Base Class (ABC) Interface for Navigation.

#include <navigation.hpp>

Inheritance diagram for rapp::robot::navigation:



Public Member Functions

- virtual void lookAtPoint (float x, float y, float z)=0
- virtual void moveHead (float yaw, float pitch)=0
- virtual void moveJoint (std::string joint, float angle)=0
- virtual void moveStop ()=0
- virtual void moveTo (float x, float y, float theta)=0

TODO: Describe each parameter and explain what it is.

- virtual void move Vel (float x, float y, float theta)=0
- virtual void removeStiffness (std::string joint) const =0
- virtual void takePredefinedPosture (std::string pose)=0
- virtual void visOdom ()=0

6.12.1 Detailed Description

Abstract Base Class (ABC) Interface for Navigation.

Version

1

Date

20-September-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file navigation.hpp.

6.12.2 Member Function Documentation

6.12.2.1 virtual void rapp::robot::navigation::lookAtPoint (float x, float y, float z) [pure virtual]

Implemented in rapp::robot::nao.

```
6.12.2.2 virtual void rapp::robot::navigation::moveHead (float yaw, float pitch) [pure virtual]
6.12.2.3 virtual void rapp::robot::navigation::moveJoint ( std::string joint, float angle ) [pure virtual]
Implemented in rapp::robot::nao.
6.12.2.4 virtual void rapp::robot::navigation::moveStop() [pure virtual]
Implemented in rapp::robot::nao.
6.12.2.5 virtual void rapp::robot::navigation::moveTo (float x, float y, float theta ) [pure virtual]
TODO: Describe each parameter and explain what it is.
Implemented in rapp::robot::nao.
6.12.2.6 virtual void rapp::robot::navigation::moveVel (float x, float y, float theta) [pure virtual]
Implemented in rapp::robot::nao.
6.12.2.7 virtual void rapp::robot::navigation::removeStiffness ( std::string joint ) const [pure virtual]
6.12.2.8 virtual void rapp::robot::navigation::takePredefinedPosture(std::string pose) [pure virtual]
NOTE: parameter pose could be a class of its own, because it encapsulates some kind of Robot State.
Implemented in rapp::robot::nao.
6.12.2.9 virtual void rapp::robot::navigation::visOdom() [pure virtual]
Implemented in rapp::robot::nao.
The documentation for this class was generated from the following file:
```

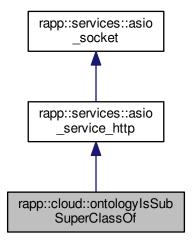
rapp::cloud::ontologyIsSubSuperClassOf Class Reference

/home/travis/rapp_temp/rapp-api/cpp/includes/robot/navigation/navigation.hpp

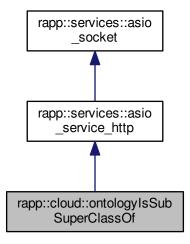
#include <ontologyIsSubSuperClassOf.hpp>

6.13

Inheritance diagram for rapp::cloud::ontologyIsSubSuperClassOf:



Collaboration diagram for rapp::cloud::ontologyIsSubSuperClassOf:



Public Member Functions

ontologyIsSubSuperClassOf (const std::string parent, const std::string child, bool recursive, std::function
 void(bool result) > callback)

Constructor for this handler.

Private Member Functions

• void handle_reply (std::string json)

Private Attributes

std::function< void(bool result) > delegate___

The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.13.1 Detailed Description

Definition at line 13 of file ontologyIsSubSuperClassOf.hpp.

6.13.2 Constructor & Destructor Documentation

6.13.2.1 rapp::cloud::ontologylsSubSuperClassOf::ontologylsSubSuperClassOf (const std::string *parent*, const std::string *child*, bool *recursive*, std::function< void(bool result) > *callback*)

Constructor for this handler.

Parameters

query	is the entity for which we will try to acquire its?
callback	is the functor that will receive the classes discovered

Definition at line 22 of file ontologyIsSubSuperClassOf.hpp.

6.13.3 Member Function Documentation

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

Definition at line 43 of file ontologyIsSubSuperClassOf.hpp.

6.13.4 Member Data Documentation

6.13.4.1 std::function< void(bool result) > rapp::cloud::ontologylsSubSuperClassOf::delegate_ [private]

The callback called upon completion of receiving the detected faces.

Definition at line 77 of file ontologyIsSubSuperClassOf.hpp.

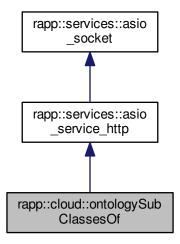
The documentation for this class was generated from the following file:

 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontologyIsSubSuperClassOf/ontologyIsSubSuper-ClassOf.hpp

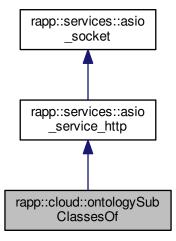
6.14 rapp::cloud::ontologySubClassesOf Class Reference

#include <ontologySubClassesOf.hpp>

Inheritance diagram for rapp::cloud::ontologySubClassesOf:



Collaboration diagram for rapp::cloud::ontologySubClassesOf:



Public Member Functions

ontologySubClassesOf (std::string query, std::function< void(std::vector< std::string >) > callback)
 Constructor for this handler.

Private Member Functions

void handle_reply (std::string json)

Private Attributes

```
std::function < void(std::vector</li>< std::string > classes) > delegate
```

The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.14.1 Detailed Description

Definition at line 15 of file ontologySubClassesOf.hpp.

6.14.2 Constructor & Destructor Documentation

6.14.2.1 rapp::cloud::ontologySubClassesOf::ontologySubClassesOf (std::string *query,* std::function< void(std::vector< std::string >) > callback)

Constructor for this handler.

Parameters

query	is the entity for which we will try to acquire its Super-Ordinates
callback	is the functor that will receive the classes discovered

Definition at line 25 of file ontologySubClassesOf.hpp.

6.14.3 Member Function Documentation

6.14.3.1 void rapp::cloud::ontologySubClassesOf::handle_reply(std::string *json*) [private]

Definition at line 44 of file ontologySubClassesOf.hpp.

6.14.4 Member Data Documentation

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

The callback called upon completion of receiving the detected faces.

Definition at line 76 of file ontologySubClassesOf.hpp.

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

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

6.15 ontologySubclassOf Class Reference

Asynchronous Service which will request the Ontology Subclass of/for an Input.

#include <ontologySubClassesOf.hpp>

6.15.1 Detailed Description

Asynchronous Service which will request the Ontology Subclass of/for an Input.

Version

3

Date

19-September-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk HTTP POST RFC: http://www.w3.org/Protocols/rfc2616/rfc.html HTTP Transfer requirements: http://www.w3.org/Protocols/rfc2616/rfc2616-sec8.-html

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

 $\bullet \ \ / home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontologySubClassesOf/ontologySubClassesOf.hpp$

6.16 ontologySubSuperclassOf Class Reference

```
#include <ontologyIsSubSuperClassOf.hpp>
```

6.16.1 Detailed Description

Version

Date

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

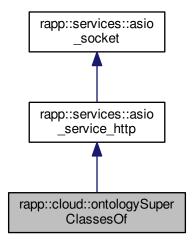
The documentation for this class was generated from the following file:

 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontologyIsSubSuperClassOf/ontologyIsSubSuper-ClassOf.hpp

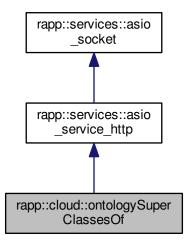
6.17 rapp::cloud::ontologySuperClassesOf Class Reference

#include <ontologySuperClassesOf.hpp>

Inheritance diagram for rapp::cloud::ontologySuperClassesOf:



Collaboration diagram for rapp::cloud::ontologySuperClassesOf:



Public Member Functions

ontologySuperClassesOf (const std::string query, std::function< void(std::vector< std::string >) > callback)
 Constructor for this handler.

Private Member Functions

void handle_reply (std::string json)

Private Attributes

```
    std::function< void(std::vector</li>
    std::string > classes) > delegate__
```

The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.17.1 Detailed Description

Definition at line 13 of file ontologySuperClassesOf.hpp.

6.17.2 Constructor & Destructor Documentation

6.17.2.1 rapp::cloud::ontologySuperClassesOf::ontologySuperClassesOf (const std::string *query,* std::function< void(std::vector< std::string >) > callback)

Constructor for this handler.

Parameters

query	is the entity for which we will try to acquire its Super-Ordinates
callback	is the functor that will receive the classes discovered

Definition at line 22 of file ontologySuperClassesOf.hpp.

6.17.3 Member Function Documentation

6.17.3.1 void rapp::cloud::ontologySuperClassesOf::handle reply (std::string json) [private]

Definition at line 40 of file ontologySuperClassesOf.hpp.

6.17.4 Member Data Documentation

```
6.17.4.1 std::function< void( std::vector<std::string> classes ) > rapp::cloud::ontologySuperClassesOf::delegate_ [private]
```

The callback called upon completion of receiving the detected faces.

Definition at line 73 of file ontologySuperClassesOf.hpp.

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

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

6.18 ontologySuperclassesOf Class Reference

#include <ontologySuperClassesOf.hpp>

6.18.1 Detailed Description

Version

Date

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/ontologySuperClassesOf/ontologySuperClassesOf.hpp

6.19 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

Are pictures same?

• bool save (const std::string filepath)

Save picture to filepath.

Private Member Functions

- picture ()=delete
- · void openCopy_ (std::ifstream &bytestream)

Private Attributes

std::vector< rapp::types::byte > bytearray_

6.19.1 Detailed Description

class which wraps around raw bytes of a picture

Version

2

Date

6-February-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file picture.hpp.

6.19.2 Constructor & Destructor Documentation

6.19.2.1 rapp::object::picture::picture (const std::string filepath)

Construct from a file-path.

Definition at line 18 of file picture.hpp.

6.19.2.2 rapp::object::picture::picture (std::ifstream & bytestream)

Construct using an open file stream.

Definition at line 29 of file picture.hpp.

6.19.2.3 rapp::object::picture:(const picture &) [default]

Copy constructor.

6.19.2.4 rapp::object::picture::picture() [private], [delete]

6.19.3 Member Function Documentation

 $6.19.3.1 \quad std::vector < rapp::types::byte > rapp::object::picture::bytearray (\quad) const$

Get picture as array of bytes.

Definition at line 38 of file picture.hpp.

6.19.3.2 void rapp::object::picture::openCopy_(std::ifstream & bytestream) [private]

Definition at line 73 of file picture.hpp.

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

Assignment operator.

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

Are pictures same?

Definition at line 44 of file picture.hpp.

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

Save picture to filepath.

Definition at line 53 of file picture.hpp.

6.19.4 Member Data Documentation

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

Definition at line 83 of file picture.hpp.

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

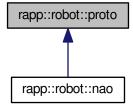
• /home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/picture.hpp

6.20 rapp::robot::proto Class Reference

Abstract Base Class (ABC) Interface Prototype for all Robots.

#include o.hpp>

Inheritance diagram for rapp::robot::proto:



Public Member Functions

• virtual std::string model () const =0

Get Robot's Model.

virtual std::string ruid () const =0

Get Robot's Unique ID.

6.20.1 Detailed Description

Abstract Base Class (ABC) Interface Prototype for all Robots.

```
Version
1
```

Date

20-September-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file proto.hpp.

6.20.2 Member Function Documentation

6.20.2.1 virtual std::string rapp::robot::proto::model() const [pure virtual]

Get Robot's Model.

Implemented in rapp::robot::nao.

6.20.2.2 virtual std::string rapp::robot::proto::ruid () const [pure virtual]

Get Robot's Unique ID.

Implemented in rapp::robot::nao.

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

/home/travis/rapp_temp/rapp-api/cpp/includes/robot/proto/proto.hpp

6.21 rapp::object::qrCode Class Reference

class which should encapsulate a QR code

```
#include <qrCode.hpp>
```

Public Member Functions

• qrCode (float centre_x, float centre_y, std::string label)

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

• qrCode ()=default

Allow Empty Consructor.

qrCode (const qrCode &)=default

Copy Conatructor.

• std::string label () const

Get the qr Label.

bool operator== (const qrCode &rhs) const

Assignment Constructor.

Private Attributes

- float centre_x__ = -1
- float centre_y__ = -1
- std::string message___

6.21.1 Detailed Description

class which should encapsulate a QR code

Version

1

Date

13-February-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 16 of file qrCode.hpp.

6.21.2 Constructor & Destructor Documentation

6.21.2.1 rapp::object::qrCode::qrCode (float centre_x, float centre_y, std::string label)

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

Parameters

centre_x	is coordinate
centre_y	is coordinate
label	is message embedded in QR

Definition at line 26 of file qrCode.hpp.

6.21.2.2 rapp::object::qrCode::qrCode() [default]

Allow Empty Consructor.

6.21.2.3 rapp::object::qrCode::qrCode (const qrCode &) [default]

Copy Conatructor.

6.21.3 Member Function Documentation

6.21.3.1 std::string rapp::object::qrCode::label () const

Get the qr Label.

Definition at line 57 of file qrCode.hpp.

6.21.3.2 bool rapp::object::qrCode::operator== (const qrCode & rhs) const

Assignment Constructor.

Equality operator

Note

only the message is compared (insensitive case), not the coordinates!

Definition at line 49 of file qrCode.hpp.

6.21.4 Member Data Documentation

6.21.4.1 float rapp::object::qrCode::centre_x__ = -1 [private]

Definition at line 64 of file qrCode.hpp.

6.21.4.2 float rapp::object::qrCode::centre_y_ = -1 [private]

Definition at line 66 of file qrCode.hpp.

6.21.4.3 std::string rapp::object::qrCode::message__ [private]

Definition at line 68 of file qrCode.hpp.

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

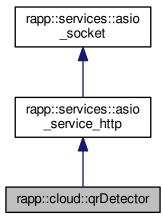
/home/travis/rapp_temp/rapp-api/cpp/includes/objects/qrCode/qrCode.hpp

6.22 rapp::cloud::qrDetector Class Reference

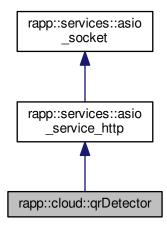
Asynchronous Service which will request the cloud to detect QR codes.

#include <qrDetector.hpp>

Inheritance diagram for rapp::cloud::qrDetector:



Collaboration diagram for rapp::cloud::qrDetector:



Public Member Functions

• qrDetector (const std::shared_ptr< rapp::object::picture > image, const std::string image_format, std:::function< void(std::vector< rapp::object::qrCode >) > callback)

Constructor.

Private Member Functions

• void handle_reply (std::string json)

Private Attributes

• std::function< void(std::vector

< rapp::object::qrCode >) > delegate__

The callback called upon completion of receiving the detected faces.

Additional Inherited Members

6.22.1 Detailed Description

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

Version

2

Date

26-April-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file grDetector.hpp.

6.22.2 Constructor & Destructor Documentation

6.22.2.1 rapp::cloud::qrDetector::qrDetector (const std::shared_ptr< rapp::object::picture > image, const std::string image format, std::function< void(std::vector< rapp::object::qrCode >) > callback)

Constructor.

Parameters

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

Definition at line 23 of file qrDetector.hpp.

6.22.3 Member Function Documentation

6.22.3.1 void rapp::cloud::qrDetector::handle_reply (std::string *json*) [private]

Definition at line 66 of file qrDetector.hpp.

6.22.4 Member Data Documentation

6.22.4.1 std::function< void (std::vector< rapp::object::qrCode>) > rapp::cloud::qrDetector::delegate_ [private]

The callback called upon completion of receiving the detected faces.

Definition at line 106 of file qrDetector.hpp.

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

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

6.23 RappCloud.RandStrGen.RandStrGen.RandStrGen Class Reference

Random String Generator class.

Static Public Member Functions

· def create

Generate a new random string.

Static Private Attributes

- string __charsArray = "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz"
- int defaultSize = 5

6.23.1 Detailed Description

Random String Generator class.

Generate random strings. Static class.

Definition at line 37 of file RandStrGen.py.

6.23.2 Member Function Documentation

6.23.2.1 def RappCloud.RandStrGen.RandStrGen.create (size) [static]

Generate a new random string.

Parameters

```
size String size.
```

Definition at line 49 of file RandStrGen.py.

6.23.3 Member Data Documentation

6.23.3.1 string RappCloud.RandStrGen.RandStrGen.RandStrGen._charsArray = "0123456789ABCDEFGHIJKLMNOPQRSTUVW-XYZabcdefghijkImnopqrstuvwxyz" [static], [private]

Definition at line 39 of file RandStrGen.py.

6.23.3.2 int RappCloud.RandStrGen.RandStrGen.RandStrGen.__defaultSize = 5 [static], [private]

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/RandStrGen/RandStrGen.py

6.24 RappCloud.RappCloud.RappCloud Class Reference

Rapp Platform API class.

Public Member Functions

def __init__

Default constructor.

• def available_services

API call for Ontology-Subsuperclass-Of RAPP Platform front-end service.

def call_service

Call different services throught a single method.

· def cognitive test chooser

API call for Cognitive-Test-Chooser RAPP Platform front-end service.

def detect_objects

NOT SUPPORTED.

· def face detection

API call for Face-Detection RAPP Platform front-end service.

def get_platform_services

Returns a list with the available RAPP Platform services.

· def ontology_is_subsuperclass_of

API call for Ontology-Subsuperclass-Of RAPP Platform front-end service.

· def ontology_subclasses_of

API call for Ontology-Subclasses-Of RAPP Platform front-end service.

· def ontology_superclasses_of

API call for Ontology-Superclasses-Of RAPP Platform front-end service.

· def gr detection

API call for Qr-Detection RAPP Platform front-end service.

• def record_cognitive_test_performance

API call for Record-Cognitive-Test-Performance RAPP Platform front-end service.

· def set_noise_profile

API call for Set-Noise-Profile RAPP Platform front-end service.

• def speech_detection_google

API call for Speech-Detection-Google RAPP Platform front-end service.

def speech_detection_sphinx4

API call for Speech-Detection-Sphinx4 RAPP Platform front-end service.

• def text_to_speech

API call for Text-To-Speech RAPP Platform front-end service.

Public Attributes

- auth
- · cfgFileDir_
- cfgParser
- platform_params_
- platformIP_

Catch exceptions on loading configuration file ## TODO Enhance Exception handling.

- servicePort
- services_
- serviceUrl_

Private Member Functions

• def __appendRandStr

Append a random string as a postFix to the input filePath.

def __parse_auth_cfg

Parse and load Rapp Platform authentication parameters.

def __parse_platform_cfg

Parse and load Rapp Platform parameters.

def __parse_services_cfg

Parse and load Rapp Platform Web Services info.

Private Attributes

randStrSize

6.24.1 Detailed Description

Rapp Platform API class.

API calls for Platform HOP Web Services.

Definition at line 46 of file RappCloud.py.

6.24.2 Constructor & Destructor Documentation

6.24.2.1 def RappCloud.RappCloud.__init__ (self)

Default constructor.

Definition at line 49 of file RappCloud.py.

6.24.3 Member Function Documentation

6.24.3.1 def RappCloud.RappCloud._appendRandStr(self, filePath) [private]

Append a random string as a postFix to the input filePath.

Parameters

self	The object pointer.
filePath	File's system path to append the random postfix string.

Returns

The new file name.

Definition at line 167 of file RappCloud.py.

6.24.3.2 def RappCloud.RappCloud._parse_auth_cfg(self) [private]

Parse and load Rapp Platform authentication parameters.

Parameters

self	The object pointer.

Definition at line 69 of file RappCloud.py.

6.24.3.3 def RappCloud.RappCloud._parse_platform_cfg(self) [private]

Parse and load Rapp Platform parameters.

Parameters

self	The object pointer.

Definition at line 122 of file RappCloud.py.

6.24.3.4 def RappCloud.RappCloud._parse_services_cfg(self) [private]

Parse and load Rapp Platform Web Services info.

Parameters

self	The object pointer.

Definition at line 101 of file RappCloud.py.

6.24.3.5 def RappCloud.RappCloud.available_services (self)

API call for Ontology-Subsuperclass-Of RAPP Platform front-end service.

Parameters

self	The object pointer.

Returns

Rapp Platform Service response object.

Definition at line 429 of file RappCloud.py.

6.24.3.6 def RappCloud.RappCloud.call_service (self, service_name, args)

Call different services throught a single method.

Not implemented yet! This method will be fully implemented on v0.6.0

Parameters

self	The object pointer.
service_name	The Rapp Platform Service to call.
args	

Definition at line 182 of file RappCloud.py.

6.24.3.7 def RappCloud.RappCloud.RappCloud.cognitive_test_chooser (self, user, testType)

API call for Cognitive-Test-Chooser RAPP Platform front-end service.

Parameters

self	The object pointer.
testType	Cognitive Test Type. ArithmeticCts, AwarenessCts, ReasoningCts.
user	User's name, a.k.a username.

Returns

Rapp Platform Service API call response object.

Definition at line 514 of file RappCloud.py.

6.24.3.8 def RappCloud.RappCloud.RappCloud.detect_objects (self, fileUri, limit)

NOT SUPPORTED.

DEPRECATED!!!

Definition at line 408 of file RappCloud.py.

6.24.3.9 def RappCloud.RappCloud.RappCloud.face_detection (self, file_uri)

API call for Face-Detection RAPP Platform front-end service.

Parameters

self	The object pointer.
file_uri	Path to the image file to be given as input to the face_detection Platform Service.

Returns

Rapp Platform Service response object.

Definition at line 332 of file RappCloud.py.

6.24.3.10 def RappCloud.RappCloud.RappCloud.get_platform_services (self)

Returns a list with the available RAPP Platform services.

Parameters

self	The object pointer

Returns

The Platform Services supported by the Rapp-API

Definition at line 198 of file RappCloud.py.

6.24.3.11 def RappCloud.RappCloud.ntology_is_subsuperclass_of (self, parent_class, child_class, recursive)

API call for Ontology-Subsuperclass-Of RAPP Platform front-end service.

Parameters

self	The object pointer.
parent_class	Ontology parent class name.
child_class	Ontology child calss name.
recursive	Defines if a recursive procedure will be used (bool).

Returns

Rapp Platform Service response object.

Definition at line 390 of file RappCloud.py.

 $6.24.3.12 \quad def \ Rapp Cloud. Rapp Cloud. onto logy_subclasses_of \left(\begin{array}{c} \textit{self, query} \end{array} \right)$

API call for Ontology-Subclasses-Of RAPP Platform front-end service.

Parameters

self	The object pointer.
query	Ontology query string.

Returns

Rapp Platform Service response object.

Definition at line 352 of file RappCloud.py.

6.24.3.13 def RappCloud.RappCloud.RappCloud.ontology_superclasses_of (self, query)

API call for Ontology-Superclasses-Of RAPP Platform front-end service.

Parameters

self	The object pointer.
query	Ontology query string.

Returns

Rapp Platform Service response object.

Definition at line 370 of file RappCloud.py.

6.24.3.14 def RappCloud.RappCloud.qr_detection (self, file_uri)

API call for Qr-Detection RAPP Platform front-end service.

Parameters

self	The object pointer.
file_uri	Path to the image file to be given as input to the qr_detection Platform Service.

Returns

Rapp Platform Service response object.

Definition at line 311 of file RappCloud.py.

6.24.3.15 def RappCloud.RappCloud.RappCloud.record_cognitive_test_performance (self, user, test, score)

API call for Record-Cognitive-Test-Performance RAPP Platform front-end service.

Parameters

self	The object pointer.
user	User's name, a.k.a username.
test	Test full name as obtained from a call to cognitive_test_chooser Platform service.
score	User's score for given test in range [0-100].

Returns

Rapp Platform Service API call response object.

Definition at line 537 of file RappCloud.py.

6.24.3.16 def RappCloud.RappCloud.RappCloud.set_noise_profile (self, file_uri, audio_source, user)

API call for Set-Noise-Profile RAPP Platform front-end service.

Parameters

self	The object pointer.
audio_source	A value that presents the information for the audio source data. e.g "nao_wav_1_ch".
file_uri	Path to the audio/speech file to be given as input to the speech_detection_google Platform
	Service.

user	User's name, a.k.a username.
------	------------------------------

Returns

Rapp Platform Service response object.

Definition at line 286 of file RappCloud.py.

6.24.3.17 def RappCloud.RappCloud.RappCloud.speech_detection_google (self, file_uri, audio_source, user, language)

API call for Speech-Detection-Google RAPP Platform front-end service.

Parameters

self	The object pointer.
language	Language to be used by the speech_detection_sphinx4 module. Currently valid language
	values are 'gr' for Greek and 'en' for English.
audio_source	A value that presents the information for the audio source data. e.g "nao_wav_1_ch".
file_uri	Path to the audio/speech file to be given as input to the speech_detection_google Platform
	Service.
user	User's name, a.k.a username.

Returns

Rapp Platform Service response object.

Definition at line 256 of file RappCloud.py.

6.24.3.18 def RappCloud.RappCloud.RappCloud.speech_detection_sphinx4 (self, language, audio_source, words, sentences, grammar, file_uri, user)

API call for Speech-Detection-Sphinx4 RAPP Platform front-end service.

Parameters

self	The object pointer.
language	Language to be used by the speech_detection_sphinx4 module. Currently valid language
	values are 'gr' for Greek and 'en' for English.
audio_source	A value that presents the information for the audio source data. e.g "nao_wav_1_ch".
words	A vector that carries the "under-detection" words.
sentences	The under consideration sentences.
grammar	Grammar to be used.
file_uri	Path to the audio/speech file to be given as input to the speech_detection_sphinx4 Platform
	Service.
user	User's name, a.k.a username.

Returns

Rapp Platform Service response object.

Definition at line 220 of file RappCloud.py.

6.24.3.19 def RappCloud.RappCloud.RappCloud.text_to_speech (self, text, language, dest)

API call for Text-To-Speech RAPP Platform front-end service.

Parameters

self	The object pointer.
text	String to perform TTS on.
language	Supported translation language. 'el' -> Greek, 'en' -> English.
dest	If provided the returned audio data will be stored in this destination file. Otherwise the audio
	data are returned as part of return object.

Returns

Rapp Platform Service API call response object.

Definition at line 457 of file RappCloud.py.

6.24.4 Member Data Documentation

6.24.4.1 RappCloud.RappCloud._randStrSize [private]

Definition at line 62 of file RappCloud.py.

6.24.4.2 RappCloud.RappCloud.RappCloud.auth_

Definition at line 58 of file RappCloud.py.

6.24.4.3 RappCloud.RappCloud.RappCloud.cfgFileDir_

Definition at line 51 of file RappCloud.py.

6.24.4.4 RappCloud.RappCloud.RappCloud.cfgParser_

Definition at line 52 of file RappCloud.py.

6.24.4.5 RappCloud.RappCloud.platform_params_

Definition at line 53 of file RappCloud.py.

6.24.4.6 RappCloud.RappCloud.platformIP_

Catch exceptions on loading configuration file ## TODO Enhance Exception handling.

Definition at line 54 of file RappCloud.py.

6.24.4.7 RappCloud.RappCloud.servicePort_

Definition at line 55 of file RappCloud.py.

6.24.4.8 RappCloud.RappCloud.RappCloud.services_

Definition at line 56 of file RappCloud.py.

6.24.4.9 RappCloud.RappCloud.RappCloud.serviceUrl_

Definition at line 57 of file RappCloud.py.

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

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

6.25 rapp::services::service_controller Class Reference

Main class that controllers RAPP Services.

```
#include <service_controller.hpp>
```

Public Member Functions

```
service_controller ()
```

• boost::asio::io_service & queue ()

The Service Queue.

void runJob (const std::shared_ptr< asio_socket > job)

Run one service job.

void runJobs (std::vector< std::shared_ptr< asio_socket >> jobs)

Run a group of jobs in a batch.

Private Attributes

- const std::string auth_base64_ = "cmFwcGRldjpyYXBwZGV2"
- boost::asio::io_service io_service_

IO service.

std::mutex mutex

Service Mutex.

const std::string password_

Authentication token.

boost::asio::ip::tcp::resolver::query query_

Endpoint Resolver.

• boost::asio::ip::tcp::resolver resolver_

Resolution for TCP.

· const std::string server_

Cloud Server Address.

const std::string username_

Username token.

· std::shared_ptr

< boost::asio::io_service::work > work_

Work queue.

6.25.1 Detailed Description

Main class that controllers RAPP Services.

Version

2

Date

20-April-2014

Author

Alex 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 clour or robot, as it essentially controlls 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.

Ideally, one should be used for accessing the cloud services, and another one for accessing the robot services.

Definition at line 26 of file service_controller.hpp.

6.25.2 Constructor & Destructor Documentation

6.25.2.1 rapp::services::service_controller::service_controller()

Definition at line 30 of file service_controller.hpp.

6.25.3 Member Function Documentation

6.25.3.1 boost::asio::io_service& rapp::services::service_controller::queue ()

The Service Queue.

Definition at line 35 of file service_controller.hpp.

6.25.3.2 void rapp::services::service_controller::runJob (const std::shared_ptr< asio_socket > job)

Run one service job.

Parameters

client is the actual object pointer that will be executed in a single operation

Note

upon completion, the object's handler will be invoked this method will block, until job is finished

Definition at line 46 of file service_controller.hpp.

6.25.3.3 void rapp::services::service_controller::runJobs (std::vector< std::shared_ptr< asio_socket >> jobs)

Run a group of jobs in a batch.

Parameters

jobs 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 61 of file service controller.hpp.

6.25.4 Member Data Documentation

6.25.4.1 const std::string rapp::services::service_controller::auth_base64_ = "cmFwcGRldjpyYXBwZGV2" [private]

Definition at line 87 of file service controller.hpp.

6.25.4.2 boost::asio::io_service rapp::services::service_controller::io_service_ [private]

IO service.

Definition at line 93 of file service_controller.hpp.

6.25.4.3 std::mutex rapp::services::service_controller::mutex_ [private]

Service Mutex.

Definition at line 105 of file service_controller.hpp.

6.25.4.4 const std::string rapp::services::service_controller::password_ [private]

Authentication token.

Definition at line 90 of file service_controller.hpp.

6.25.4.5 boost::asio::ip::tcp::resolver::query rapp::services::service_controller::query_ [private]

Endpoint Resolver.

Definition at line 96 of file service_controller.hpp.

6.25.4.6 boost::asio::ip::tcp::resolver rapp::services::service_controller::resolver_ [private]

Resolution for TCP.

Definition at line 99 of file service_controller.hpp.

6.25.4.7 const std::string rapp::services::service_controller::server_ [private]

Cloud Server Address.

Definition at line 81 of file service_controller.hpp.

6.25.4.8 const std::string rapp::services::service_controller::username_ [private]

Username token.

Definition at line 84 of file service_controller.hpp.

6.25.4.9 std::shared_ptr
boost::asio::io_service::work> rapp::services::service_controller::work_ [private]

Work queue.

Definition at line 102 of file service_controller.hpp.

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

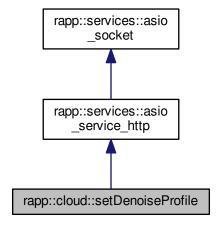
/home/travis/rapp_temp/rapp-api/cpp/includes/service_controller/service_controller.hpp

6.26 rapp::cloud::setDenoiseProfile Class Reference

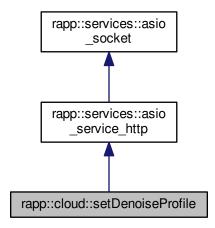
setting the denoising audio profile for speech recognition

#include <setDenoiseProfile.hpp>

 $Inheritance\ diagram\ for\ rapp::cloud::setDenoiseProfile:$



Collaboration diagram for rapp::cloud::setDenoiseProfile:



Public Member Functions

• setDenoiseProfile (const std::shared_ptr< rapp::object::audio > file, const std::string user, const std::string audio_source)

Private Member Functions

• void handle_reply (std::string json)

Additional Inherited Members

6.26.1 Detailed Description

setting the denoising audio profile for speech recognition

Version

2

Date

20-September-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file setDenoiseProfile.hpp.

6.26.2 Constructor & Destructor Documentation

6.26.2.1 rapp::cloud::setDenoiseProfile::setDenoiseProfile (const std::shared_ptr< rapp::object::audio > file, const std::string user, const std::string audio_source)

This class does not return something, it only captures an error

Definition at line 20 of file setDenoiseProfile.hpp.

6.26.3 Member Function Documentation

6.26.3.1 void rapp::cloud::setDenoiseProfile::handle_reply (std::string *json*) [private]

Definition at line 72 of file setDenoiseProfile.hpp.

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

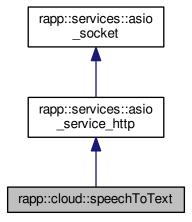
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/setDenoiseProfile/setDenoiseProfile.hpp

6.27 rapp::cloud::speechToText Class Reference

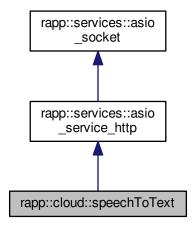
Asynchronous Service which will request the cloud to process speech-to-text.

#include <speechToText.hpp>

Inheritance diagram for rapp::cloud::speechToText:



Collaboration diagram for rapp::cloud::speechToText:



Public Member Functions

speechToText (const std::shared_ptr< rapp::object::audio > file, const std::string language, const std::string user, const std::string audio_source, 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)

Contrusct a speechToText handler.

Private Member Functions

• void handle_reply (std::string json)

Private Attributes

std::function< void(std::vector

< std::string > words) > delegate_

The callback called upon completion of receiving the detected words.

Additional Inherited Members

6.27.1 Detailed Description

Asynchronous Service which will request the cloud to process speech-to-text.

Version

1

Date

19-September-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file speechToText.hpp.

6.27.2 Constructor & Destructor Documentation

6.27.2.1 rapp::cloud::speechToText::speechToText (const std::shared_ptr< rapp::object::audio > file, const std::string language, const std::string user, const std::string audio_source, 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)

Contrusct a speechToText handler.

Parameters

audio	is the actual binary sound file
language	is the language used for speech to text
grammar	is the Grammars used in Spc2Txt
user	is the user token
words	will be searched for in the audio
sentences	will be under consideration
callback	will be executed once the rapp cloud has responded

Definition at line 27 of file speechToText.hpp.

6.27.3 Member Function Documentation

6.27.3.1 void rapp::cloud::speechToText::handle_reply(std::string *json*) [private]

Definition at line 117 of file speechToText.hpp.

6.27.4 Member Data Documentation

6.27.4.1 std::function < void(std::vector < std::string > words) > rapp::cloud::speechToText::delegate_ [private]

The callback called upon completion of receiving the detected words.

Definition at line 151 of file speechToText.hpp.

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

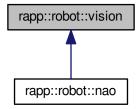
/home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speechToText/speechToText.hpp

6.28 rapp::robot::vision Class Reference

Abstract Base Class (ABC) Interface for Vision.

#include <vision.hpp>

Inheritance diagram for rapp::robot::vision:



Public Member Functions

• virtual std::shared_pointr

< rapp::object::picture > captureImage (std::string camerald, int cameraResolution) const =0

NOTE: What about format?

6.28.1 Detailed Description

Abstract Base Class (ABC) Interface for Vision.

Version

1

Date

20-September-2015

Author

Alex Gkiokas a.gkiokas@ortelio.co.uk

Definition at line 13 of file vision.hpp.

6.28.2 Member Function Documentation

6.28.2.1 virtual std::shared_pointr<rapp::object::picture> rapp::robot::vision::capturelmage (std::string camerald, int cameraResolution) const [pure virtual]

NOTE: What about format?

Implemented in rapp::robot::nao.

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

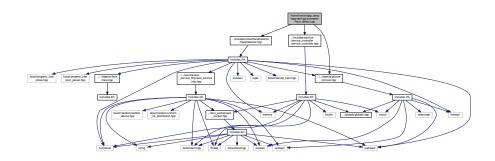
• /home/travis/rapp_temp/rapp-api/cpp/includes/robot/vision/vision.hpp

Chapter 7

File Documentation

7.1 /home/travis/rapp_temp/rapp-api/cpp/examples/face_detect.cpp File Reference

```
#include "../includes/service/service_controller/service_controller.hpp"
#include "../includes/cloud/faceDetector/faceDetector.hpp"
#include "../includes/objects/picture/picture.hpp"
Include dependency graph for face_detect.cpp:
```



Functions

• int main (int argc, char *argv[])

7.1.1 Function Documentation

7.1.1.1 int main (int argc, char * argv[])

Date

13-February-2015

Author

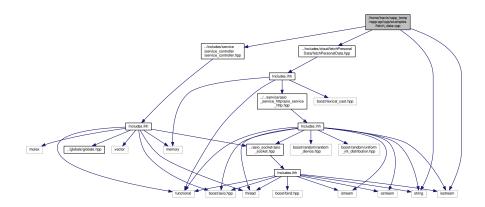
Alex Gkiokas This is now the default way of working with images

Definition at line 5 of file face_detect.cpp.

7.2 /home/travis/rapp_temp/rapp-api/cpp/examples/fetch_data.cpp File Reference

```
#include "../includes/service/service_controller/service_controller.hpp"
#include "../includes/cloud/fetchPersonalData/fetchPersonalData.hpp"
#include <iostream>
#include <string>
```

Include dependency graph for fetch_data.cpp:



Functions

• int main (int argc, char *argv[])

7.2.1 Function Documentation

7.2.1.1 int main (int argc, char * argv[])

Date

18-April-2015

Author

Alex Gkiokas

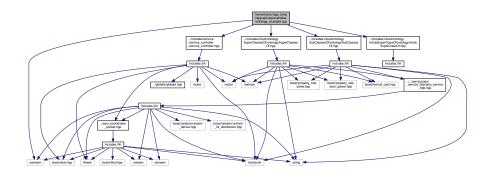
Example on how to fetch a user's personal data (a JSON string)

Definition at line 7 of file fetch_data.cpp.

7.3 /home/travis/rapp_temp/rapp-api/cpp/examples/ontology_example.cpp File Reference

```
#include "../includes/service/service_controller/service_controller.hpp"
#include "../includes/cloud/ontologySubClassesOf/ontologySubClassesOf.hpp"
#include "../includes/cloud/ontologySuperClassesOf/ontologySuperClassesOf.-hpp"
#include "../includes/cloud/ontologyIsSubSuperClassOf/ontologyIsSubSuper-
ClassOf.hpp"
#include <iostream>
```

Include dependency graph for ontology_example.cpp:



Functions

• int main (int argc, char *argv[])

7.3.1 Function Documentation

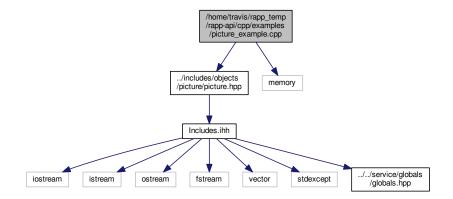
7.3.1.1 int main (int argc, char * argv[])

Definition at line 7 of file ontology_example.cpp.

7.4 /home/travis/rapp_temp/rapp-api/cpp/examples/picture_example.cpp File Reference

#include "../includes/objects/picture/picture.hpp"
#include <memory>

Include dependency graph for picture_example.cpp:



Functions

• int main (int argc, char *argv[])

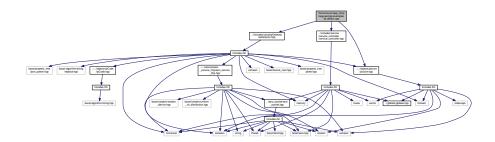
7.4.1 Function Documentation

```
7.4.1.1 int main ( int argc, char * argv[] )
```

Definition at line 4 of file picture_example.cpp.

7.5 /home/travis/rapp_temp/rapp-api/cpp/examples/qr_detect.cpp File Reference

```
#include "../includes/service/service_controller/service_controller.hpp"
#include "../includes/cloud/qrDetector/qrDetector.hpp"
#include "../includes/objects/picture/picture.hpp"
Include dependency graph for qr_detect.cpp:
```



Functions

• int main (int argc, char *argv[])

7.5.1 Function Documentation

7.5.1.1 int main (int argc, char * argv[])

Date

13-February-2015

Author

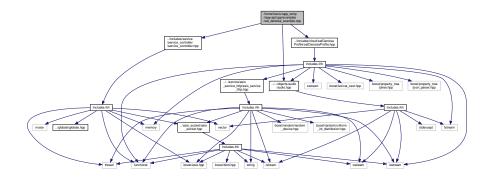
Alex Gkiokas This is now the default way of working with images

Definition at line 5 of file qr_detect.cpp.

7.6 /home/travis/rapp_temp/rapp-api/cpp/examples/set_denoise_example.cpp File Reference

```
#include "../includes/service/service_controller/service_controller.hpp"
#include "../includes/cloud/setDenoiseProfile/setDenoiseProfile.hpp"
#include "../includes/objects/audio/audio.hpp"
```

Include dependency graph for set_denoise_example.cpp:



Functions

• int main ()

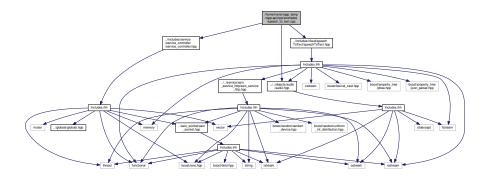
7.6.1 Function Documentation

7.6.1.1 int main ()

Definition at line 5 of file set_denoise_example.cpp.

7.7 /home/travis/rapp_temp/rapp-api/cpp/examples/speech_to_text.cpp File Reference

```
#include "../includes/service/service_controller/service_controller.hpp"
#include "../includes/cloud/speechToText/speechToText.hpp"
#include "../includes/objects/audio/audio.hpp"
Include dependency graph for speech_to_text.cpp:
```



Functions

• int main ()

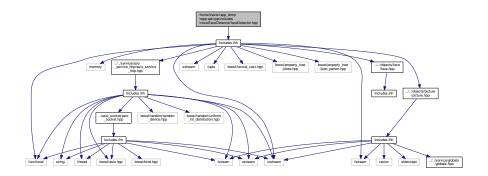
7.7.1 Function Documentation

7.7.1.1 int main ()

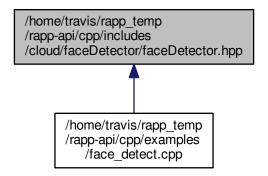
Definition at line 5 of file speech_to_text.cpp.

7.8 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/faceDetector/faceDetector.hpp File Reference

#include "Includes.ihh"
Include dependency graph for faceDetector.hpp:



This graph shows which files directly or indirectly include this file:



Classes

· class rapp::cloud::faceDetector

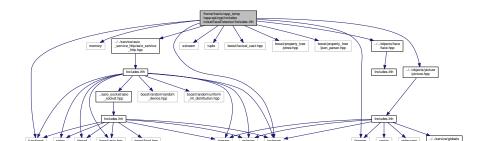
Asynchronous Service which will request the cloud to detect faces.

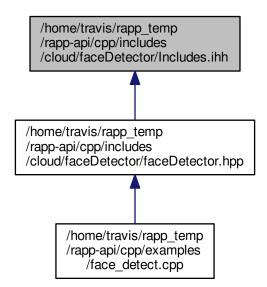
Namespaces

- rapp
- · rapp::cloud

7.9 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/faceDetector/Includes.ihh File Reference

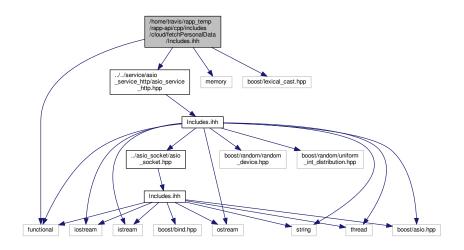
```
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <tuple>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "../../service/asio_service_http/asio_service_http.hpp"
#include "../../objects/face/face.hpp"
#include "../../objects/picture/picture.hpp"
Include dependency graph for Includes.ihh:
```

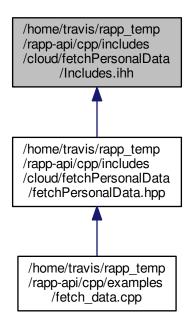




7.10 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetchPersonalData/Includes.ihh

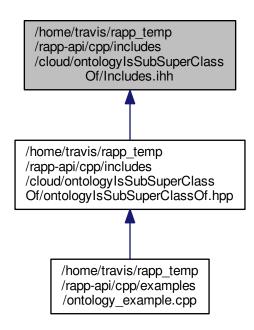
```
#include <functional>
#include <memory>
#include "../../service/asio_service_http/asio_service_http.hpp"
#include <boost/lexical_cast.hpp>
Include dependency graph for Includes.ihh:
```





7.11 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontologylsSubSuperClassOf/Includes.ihh File Reference

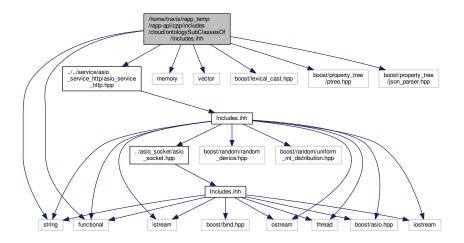
This graph shows which files directly or indirectly include this file:



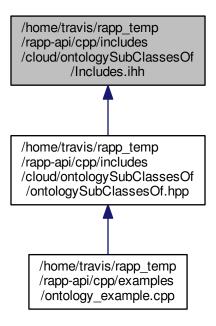
7.12 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontologySubClassesOf/Includes.ihh File Reference

```
#include <functional>
#include <memory>
#include <vector>
#include <string>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "../../service/asio_service_http/asio_service_http.hpp"
```

Include dependency graph for Includes.ihh:



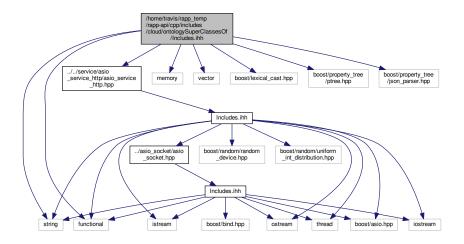
This graph shows which files directly or indirectly include this file:

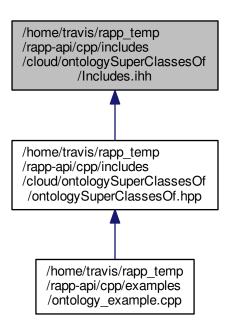


7.13 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontologySuperClassesOf/-Includes.ihh File Reference

#include <functional>

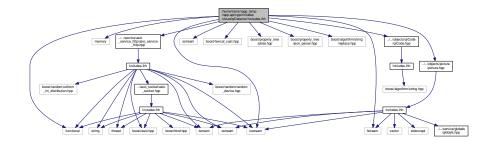
```
#include <memory>
#include <vector>
#include <string>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "../../service/asio_service_http/asio_service_http.hpp"
Include dependency graph for Includes.ihh:
```

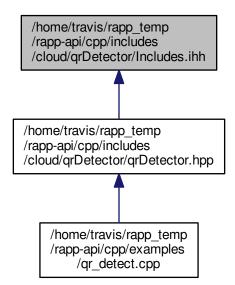




7.14 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/qrDetector/Includes.ihh File Reference

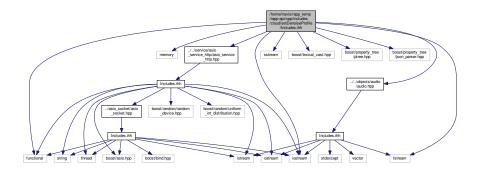
```
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include <boost/algorithm/string/replace.hpp>
#include "../../service/asio_service_http/asio_service_http.hpp"
#include "../../objects/qrCode/qrCode.hpp"
#include "../../objects/picture/picture.hpp"
Include dependency graph for Includes.ihh:
```

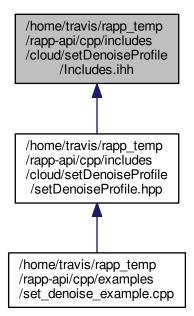




7.15 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/setDenoiseProfile/Includes.ihh

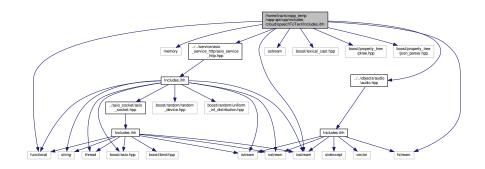
```
#include <functional>
#include <memory>
#include <iostream>
#include <fstream>
#include <sstream>
#include <boost/lexical_cast.hpp>
#include <boost/property_tree/ptree.hpp>
#include <boost/property_tree/json_parser.hpp>
#include "../../service/asio_service_http/asio_service_http.hpp"
#include "../../objects/audio/audio.hpp"
Include dependency graph for Includes.ihh:
```

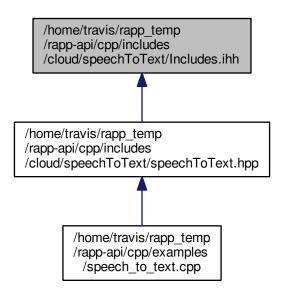




7.16 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speechToText/Includes.ihh File Reference

```
#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 "../../service/asio_service_http/asio_service_http.hpp"
#include "../../objects/audio/audio.hpp"
Include dependency graph for Includes.ihh:
```

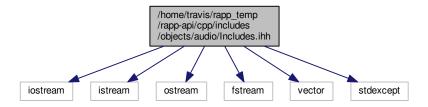


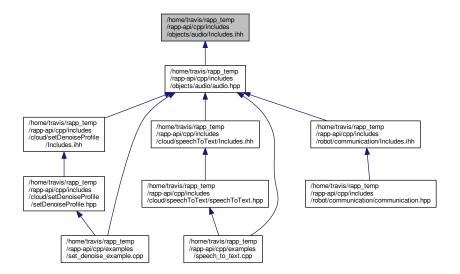


- 7.17 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/upServices/Includes.ihh File Reference
- 7.18 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/audio/Includes.ihh File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <fstream>
#include <vector>
#include <stdexcept>
```

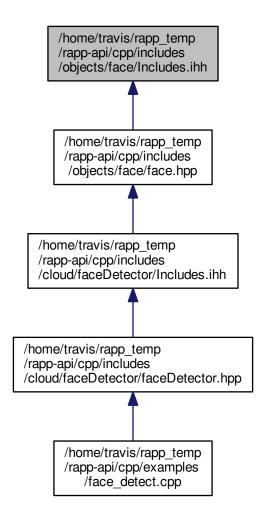
Include dependency graph for Includes.ihh:





7.19 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/face/Includes.ihh File Reference

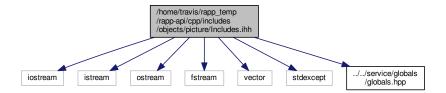
This graph shows which files directly or indirectly include this file:



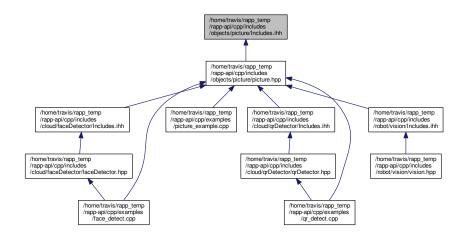
7.20 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/picture/Includes.ihh File Reference

```
#include <iostream>
#include <istream>
#include <ostream>
#include <fstream>
#include <vector>
#include <stdexcept>
#include "../../service/globals/globals.hpp"
```

Include dependency graph for Includes.ihh:

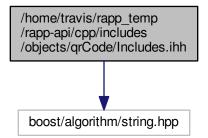


This graph shows which files directly or indirectly include this file:

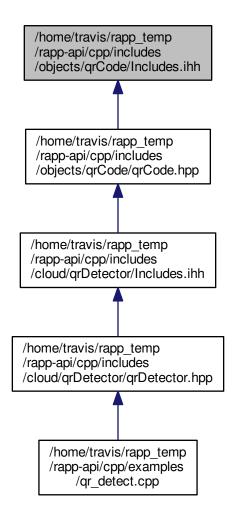


7.21 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/qrCode/Includes.ihh File Reference

#include <boost/algorithm/string.hpp>
Include dependency graph for Includes.ihh:



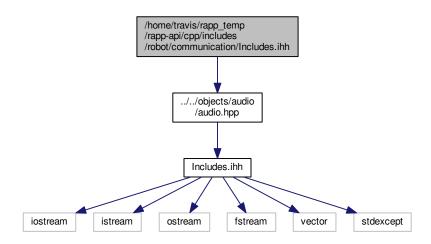
This graph shows which files directly or indirectly include this file:

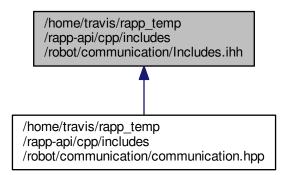


7.22 /home/travis/rapp_temp/rapp-api/cpp/includes/robot/communication/Includes.ihh File Reference

#include "../../objects/audio/audio.hpp"

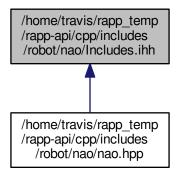
Include dependency graph for Includes.ihh:



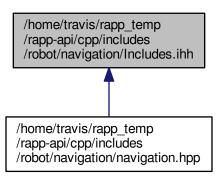


7.23 /home/travis/rapp_temp/rapp-api/cpp/includes/robot/nao/Includes.ihh File Reference

This graph shows which files directly or indirectly include this file:

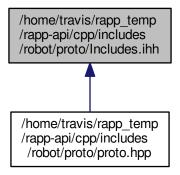


7.24 /home/travis/rapp_temp/rapp-api/cpp/includes/robot/navigation/Includes.ihh File Reference



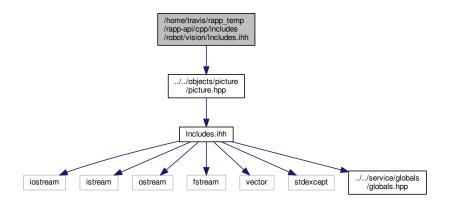
7.25 /home/travis/rapp_temp/rapp-api/cpp/includes/robot/proto/Includes.ihh File Reference

This graph shows which files directly or indirectly include this file:

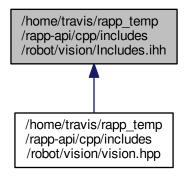


7.26 /home/travis/rapp_temp/rapp-api/cpp/includes/robot/vision/Includes.ihh File Reference

#include "../../objects/picture/picture.hpp"
Include dependency graph for Includes.ihh:

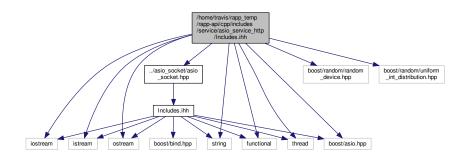


This graph shows which files directly or indirectly include this file:

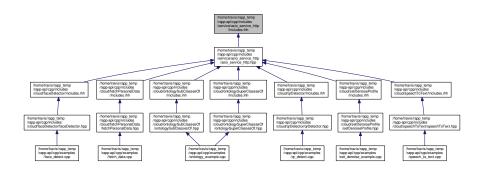


7.27 /home/travis/rapp_temp/rapp-api/cpp/includes/service/asio_service_http/Includes.ihh

```
#include <iostream>
#include <ostream>
#include <ostream>
#include <string>
#include <functional>
#include <thread>
#include <boost/asio.hpp>
#include <boost/random/random_device.hpp>
#include <boost/random/uniform_int_distribution.hpp>
#include "../asio_socket/asio_socket.hpp"
Include dependency graph for Includes.ihh:
```

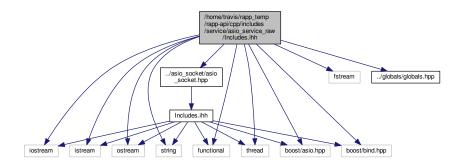


This graph shows which files directly or indirectly include this file:

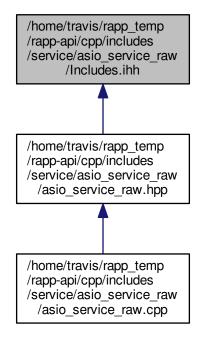


7.28 /home/travis/rapp_temp/rapp-api/cpp/includes/service/asio_service_raw/Includes.ihh

```
#include <iostream>
#include <istream>
#include <ostream>
#include <fstream>
#include <string>
#include <functional>
#include <thread>
#include <boost/asio.hpp>
#include <boost/bind.hpp>
#include "../asio_socket/asio_socket.hpp"
#include "../globals/globals.hpp"
Include dependency graph for Includes.ihh:
```

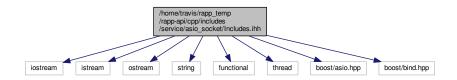


This graph shows which files directly or indirectly include this file:

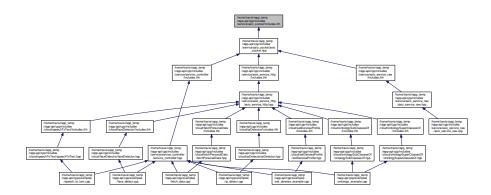


7.29 /home/travis/rapp_temp/rapp-api/cpp/includes/service/asio_socket/Includes.ihh File Reference

```
#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:
```

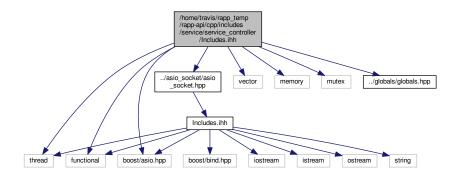


This graph shows which files directly or indirectly include this file:

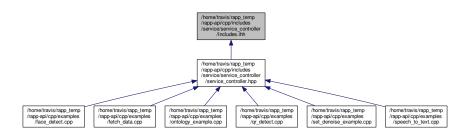


7.30 /home/travis/rapp_temp/rapp-api/cpp/includes/service/service_controller/Includes.ihh

```
#include <thread>
#include <functional>
#include <vector>
#include <memory>
#include <mutex>
#include <boost/asio.hpp>
#include "../asio_socket/asio_socket.hpp"
#include "../globals/globals.hpp"
Include dependency graph for Includes.ihh:
```

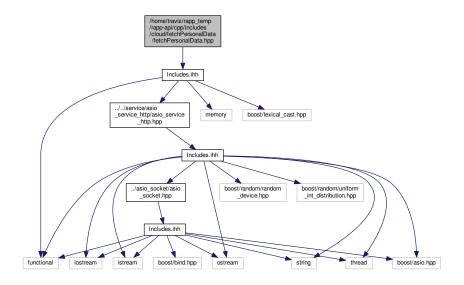


This graph shows which files directly or indirectly include this file:



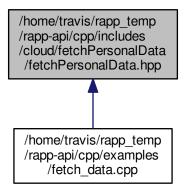
7.31 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/fetchPersonalData/fetchPersonal-Data.hpp File Reference

#include "Includes.ihh"
Include dependency graph for fetchPersonalData.hpp:



Reference 101

This graph shows which files directly or indirectly include this file:



Classes

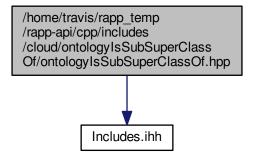
class rapp::cloud::fetchPersonalData
 Get all personal data for a specific user.

Namespaces

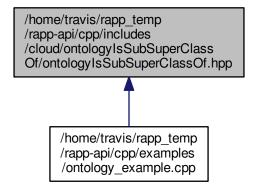
- rapp
- · rapp::cloud

7.32 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontologylsSubSuperClass-Of/ontologylsSubSuperClassOf.hpp File Reference

#include "Includes.ihh"
Include dependency graph for ontologyIsSubSuperClassOf.hpp:



This graph shows which files directly or indirectly include this file:



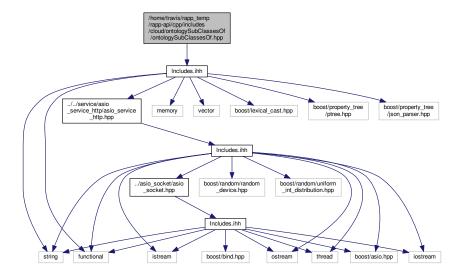
Classes

• class rapp::cloud::ontologyIsSubSuperClassOf

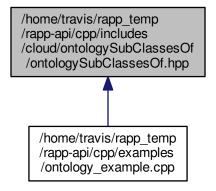
Namespaces

- rapp
- · rapp::cloud
- 7.33 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontologySubClassesOf/ontology-SubClassesOf.hpp File Reference

#include "Includes.ihh"



This graph shows which files directly or indirectly include this file:



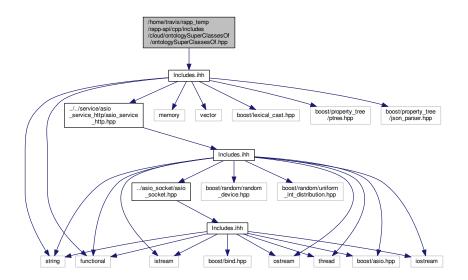
Classes

· class rapp::cloud::ontologySubClassesOf

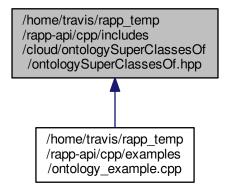
- rapp
- rapp::cloud

7.34 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/ontologySuperClassesOf/ontology-SuperClassesOf.hpp File Reference

#include "Includes.ihh"
Include dependency graph for ontologySuperClassesOf.hpp:



This graph shows which files directly or indirectly include this file:



Classes

• class rapp::cloud::ontologySuperClassesOf

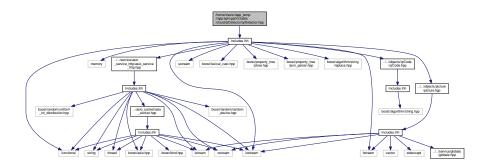
Namespaces

rapp

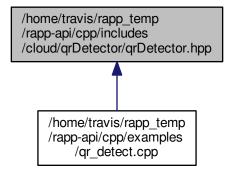
· rapp::cloud

7.35 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/qrDetector/qrDetector.hpp File Reference

#include "Includes.ihh"
Include dependency graph for qrDetector.hpp:



This graph shows which files directly or indirectly include this file:



Classes

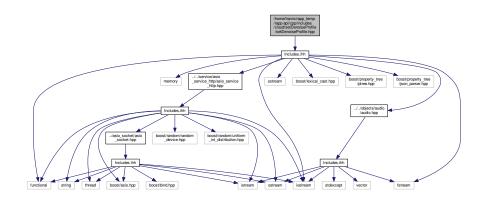
• class rapp::cloud::qrDetector

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

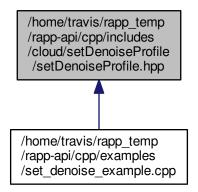
- rapp
- · rapp::cloud

7.36 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/setDenoiseProfile/setDenoiseProfile.hpp File Reference

#include "Includes.ihh"
Include dependency graph for setDenoiseProfile.hpp:



This graph shows which files directly or indirectly include this file:



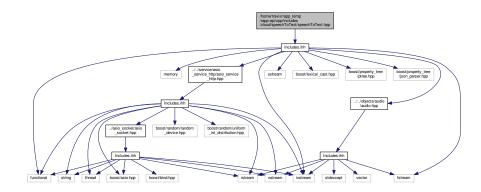
Classes

• class rapp::cloud::setDenoiseProfile
setting the denoising audio profile for speech recognition

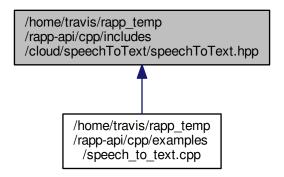
- rapp
- · rapp::cloud

7.37 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/speechToText/speechToText.hpp File Reference

#include "Includes.ihh"
Include dependency graph for speechToText.hpp:



This graph shows which files directly or indirectly include this file:



Classes

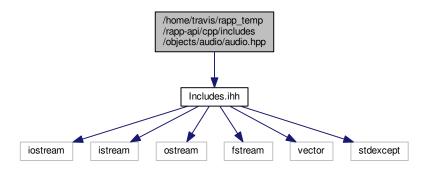
• class rapp::cloud::speechToText

Asynchronous Service which will request the cloud to process speech-to-text.

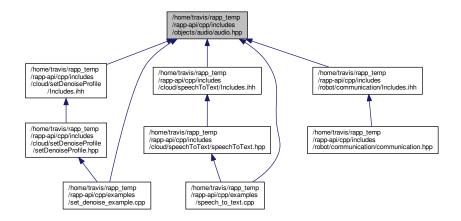
- rapp
- · rapp::cloud
- 7.38 /home/travis/rapp_temp/rapp-api/cpp/includes/cloud/upServices/upServices.hpp File Reference

7.39 /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

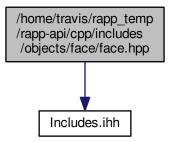
· class rapp::object::audio

class which wraps around raw bytes of an audiofile

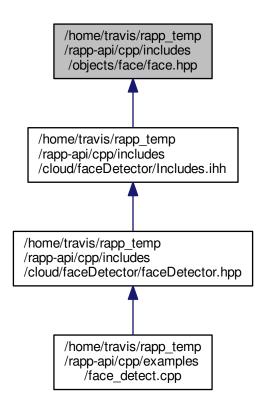
- rapp
- · rapp::object

7.40 /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

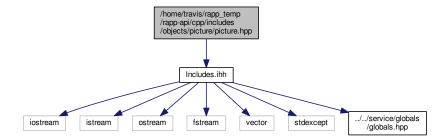
· class rapp::object::face

Namespaces

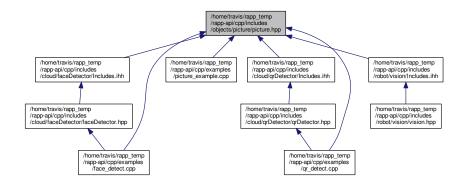
- rapp
- · rapp::object

7.41 /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

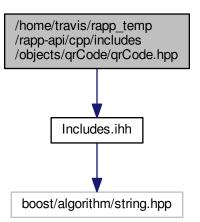
• class rapp::object::picture

class which wraps around raw bytes of a picture

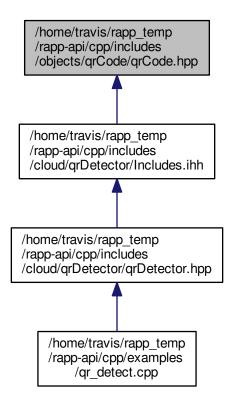
- rapp
- · rapp::object

7.42 /home/travis/rapp_temp/rapp-api/cpp/includes/objects/qrCode/qrCode.hpp File Reference

#include "Includes.ihh"
Include dependency graph for qrCode.hpp:



This graph shows which files directly or indirectly include this file:



Classes

· class rapp::object::qrCode

class which should encapsulate a QR code

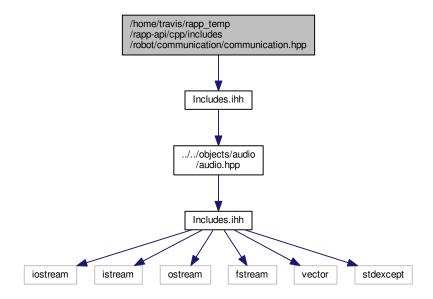
Namespaces

- rapp
- · rapp::object

7.43 /home/travis/rapp_temp/rapp-api/cpp/includes/robot/communication/communication.hpp File Reference

#include "Includes.ihh"

Include dependency graph for communication.hpp:



Classes

• class rapp::robot::communication

Abstract Base Class (ABC) Interface for Robot Communication.

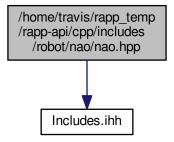
Namespaces

- rapp
- rapp::robot

7.44 /home/travis/rapp_temp/rapp-api/cpp/includes/robot/nao/nao.hpp File Reference

#include "Includes.ihh"

Include dependency graph for nao.hpp:



Classes

· class rapp::robot::nao

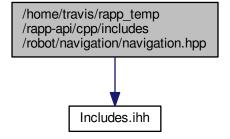
Implementation Class for Aldearan's NAO robot.

Namespaces

- rapp
- · rapp::robot

7.45 /home/travis/rapp_temp/rapp-api/cpp/includes/robot/navigation/navigation.hpp File Reference

#include "Includes.ihh"
Include dependency graph for navigation.hpp:



Classes

• class rapp::robot::navigation

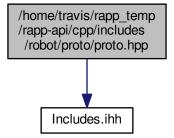
Abstract Base Class (ABC) Interface for Navigation.

Namespaces

- rapp
- · rapp::robot

7.46 /home/travis/rapp_temp/rapp-api/cpp/includes/robot/proto/proto.hpp File Reference

#include "Includes.ihh"
Include dependency graph for proto.hpp:



Classes

• class rapp::robot::proto

Abstract Base Class (ABC) Interface Prototype for all Robots.

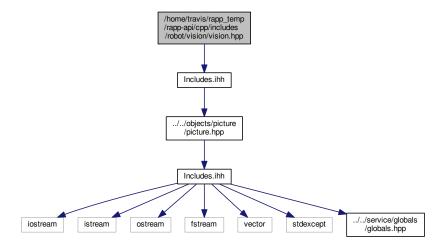
Namespaces

- rapp
- · rapp::robot

7.47 /home/travis/rapp_temp/rapp-api/cpp/includes/robot/vision/vision.hpp File Reference

#include "Includes.ihh"

Include dependency graph for vision.hpp:



Classes

• class rapp::robot::vision

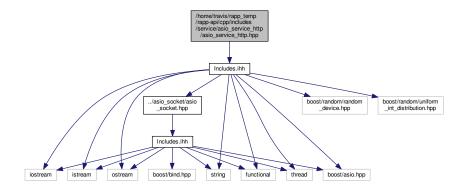
Abstract Base Class (ABC) Interface for Vision.

Namespaces

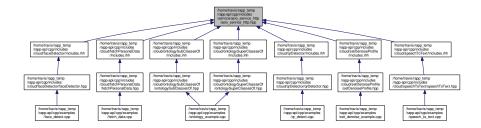
- rapp
- · rapp::robot

7.48 /home/travis/rapp_temp/rapp-api/cpp/includes/service/asio_service_http/asio_service_http.hpp File Reference

#include "Includes.ihh"
Include dependency graph for asio_service_http.hpp:



This graph shows which files directly or indirectly include this file:



Classes

class rapp::services::asio_service_http

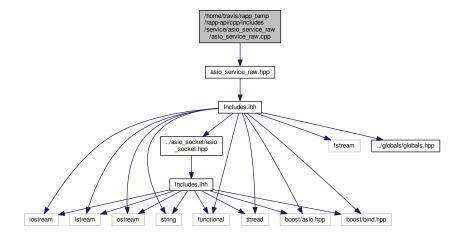
base class for asynchronous http websockets used for connecting to cloud services

Namespaces

- rapp
- rapp::services

7.49 /home/travis/rapp_temp/rapp-api/cpp/includes/service/asio_service_raw/asio_service_raw.cpp File Reference

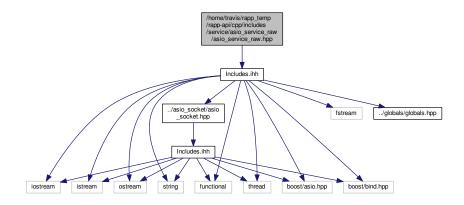
#include "asio_service_raw.hpp"
Include dependency graph for asio_service_raw.cpp:



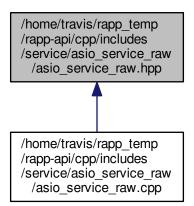
- rapp
- · rapp::services

7.50 /home/travis/rapp_temp/rapp-api/cpp/includes/service/asio_service_raw/asio_service_raw.hpp File Reference

#include "Includes.ihh"
Include dependency graph for asio_service_raw.hpp:



This graph shows which files directly or indirectly include this file:



Classes

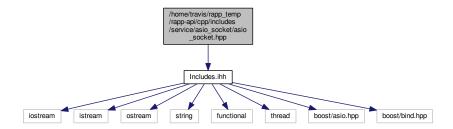
• class rapp::services::asio_service_raw

base class for asynchronous sockets used for connecting to cloud services

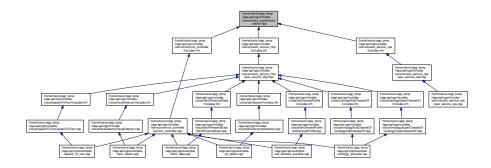
- rapp
- rapp::services

7.51 /home/travis/rapp_temp/rapp-api/cpp/includes/service/asio_socket/asio_socket.hpp File Reference

#include "Includes.ihh"
Include dependency graph for asio_socket.hpp:



This graph shows which files directly or indirectly include this file:



Classes

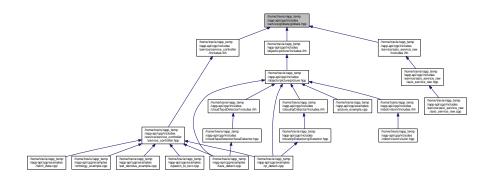
• class rapp::services::asio_socket

Abstract Base ASIO Socket class.

- rapp
- rapp::services

7.52 /home/travis/rapp_temp/rapp-api/cpp/includes/service/globals/globals.hpp File Reference

This graph shows which files directly or indirectly include this file:



Namespaces

- rapp
- · rapp::cloud
- rapp::types

Typedefs

• typedef char rapp::types::byte

Variables

- constexpr char rapp::cloud::address [] = "localhost"
 - api.rapp.cloud use deployment IP
- constexpr char rapp::cloud::auth_token [] = "cmFwcGRldjpyYXBwZGV2"

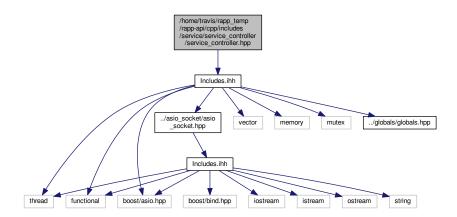
base64 encoded authentication token

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

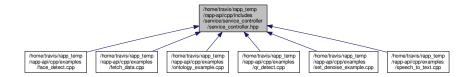
api.rapp.cloud - HOP server port

7.53 /home/travis/rapp_temp/rapp-api/cpp/includes/service/service_controller/service_controller.hpp File Reference

#include "Includes.ihh"
Include dependency graph for service_controller.hpp:



This graph shows which files directly or indirectly include this file:



Classes

• class rapp::services::service_controller

Main class that controllers RAPP Services.

Namespaces

- rapp
- · rapp::services

7.54 /home/travis/rapp_temp/rapp-api/python/RappCloud/__init__.py File Reference

Namespaces

RappCloud

7.55 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudInterface/__init__.py File Reference

Namespaces

- · RappCloud.CloudInterface
- 7.56 /home/travis/rapp_temp/rapp-api/python/RappCloud/RandStrGen/__init__.py File Reference

Namespaces

- RappCloud.RandStrGen
- 7.57 /home/travis/rapp_temp/rapp-api/python/RappCloud/CloudInterface/CloudInterface.py File Reference

Classes

class RappCloud.CloudInterface.CloudInterface.CloudInterface
 Cloud Interface class.

Namespaces

• RappCloud.CloudInterface.CloudInterface

7.57.1 Detailed Description

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Author

Konstantinos Panayiotou, [klpanagi@gmail.com]

Definition in file CloudInterface.py.

7.58 /home/travis/rapp_temp/rapp-api/python/RappCloud/RandStrGen/RandStrGen.py File Reference

Classes

• class RappCloud.RandStrGen.RandStrGen.RandStrGen

Random String Generator class.

Namespaces

• RappCloud.RandStrGen.RandStrGen

7.58.1 Detailed Description

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Author

Konstantinos Panayiotou, [klpanagi@gmail.com]

Definition in file RandStrGen.py.

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

Classes

class RappCloud.RappCloud.RappCloud
 Rapp Platform API class.

Namespaces

• RappCloud.RappCloud

Variables

• tuple RappCloud.RappCloud.__path__ = os.path.dirname(__file__)

7.59.1 Detailed Description

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