RAPP Platform v0.6.0

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rapp_email.email_sender
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rapp_geolocator.geolocator_factory
rapp_geolocator_geolocator_node
rapp_geolocator.ip_api_locator
rapp_news_explorer
rapp_news_explorer.engine_factory
rapp_news_explorer.event_registry_engine

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rapp_news_explorer.google_news_engine
rapp_news_explorer.news_engine_base
rapp_news_explorer.news_explorer_node
rapp_speech_detection_sphinx4
rapp_speech_detection_sphinx4.english_support
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speech_recognition_google
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src.rapp_html_parser
src.rapp_http_json_parser
src.rapp_http_request_handler
src.rapp_utilities
text_to_speech_espeak
userScoreHistoryForAllCategories
userScoresForAllCategories

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

rapp_application_authentication_manager.application_authentication_node.ApplicationAuthentication-
Manager
rapp_audio_processing.rapp_audio_processing
cognitive_exercise.CognitiveExercise
helper_functions.CognitiveExerciseHelperFunctions
CostmapLayer
costmap_2d::RappStaticLayer
rapp_audio_processing.rapp_detect_silence.DetectSilence
rapp_audio_processing.rapp_energy_denoise.EnergyDenoise
Exception
app_error_exception.AppError
app_error_exception.AppError
src.rapp_exceptions.RappError
FaceDetection
FaceDetector
rapp_speech_detection_sphinx4.global_parameters.GlobalParams
GreekSupport
HumanDetection
HumanDetector
image_classification.ImageClassification
image_registration_to_ontology.ImageRegistrationToOntology
IPLocatorFactory
KnowrobWrapper
KnowrobWrapperCommunications
rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator
MapGenerator
MapServer
mysql_wrapper_old.MySQLdbWrapper
mysql_wrapper.MySQLdbWrapper
object
rapp_application_authentication_manager.database_handler.DatabaseHandler
rapp_email.email_receiver.EmailReceiver
rapp_email.email_sender.EmailSender
rapp_geolocator.geolocator_base.GeolocatorBase
rapp_geolocator.ip_api_locator.lpAPILocator
rapp_geolocator.geolocator_factory.GeolocatorFactory
rapp_geolocator.geolocator_node.GeolocatorNode
rapp_news_explorer.engine_factory.EngineFactory

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rapp_news_explorer.news_engine_base.NewsEngineBase
rapp_news_explorer.event_registry_engine.EventRegistryEngine
rapp_news_explorer.google_news_engine.GoogleNewsEngine
rapp_news_explorer.news_explorer_node.NewsExplorerNode
rapp_speech_detection_sphinx4.language_support.LanguageSupport
rapp_speech_detection_sphinx4.english_support.EnglishSupport
rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport
rapp_speech_detection_sphinx4.greek_support.GreekSupport
rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport
rapp_weather_reporter.weather_reporter_base.WeatherReporterBase
rapp weather reporter.forecastio reporter.ForecastIOReporter
rapp_weather_reporter.yweather_reporter.YWeatherReporter
rapp_weather_reporter.weather_reporter_factory.WeatherReporterFactory
rapp_weather_reporter.weather_reporter_node.WeatherReporterNode
src.rapp_http_json_parser.RappHttpJSONParser
src.rapp_http_request_handler.RappHttpRequestHandler
src.rapp_utilities.RappUtilities
ontology_class_bridge.OntologyClassBridge
PathPlanner
PathPlanning
QrCode
QrDetection
QrDetector
caffe_wrapper.RappCaffeWrapper
rapp_audio_processing.rapp_set_noise_profile.SetNoiseProfile
rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4
rapp_speech_detection_sprimx4.speech_recognition_sprimx4.speechhecognitionSprimx4
Sphinx4HandlerNode
speech_recognition_google.SpeechToTextGoogle
Sphinx4
rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper
rapp speech detection sphinx4.sphinx4 configuration params.SphinxConfigurationParams 216
text_to_speech_espeak.TextToSpeechEspeak
rapp_audio_processing.rapp_transform_audio.TransformAudio
userScoreHistoryForAllCategories.UserScoreHistoryForAllCategories
userScoresForAllCategories.UserScoresForAllCategories
rapp_audio_processing.rapp_utilities.Utilities
HTMLParser
src.rapp_html_parser.RappHTMLParser

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

app_error_exception.App⊑rror	
Exception compliant with the ros error and trace srvs	29
rapp_application_authentication_manager.application_authentication_node.ApplicationAuthentication-	
Manager	
Provides user management features	31
rapp_audio_processing.rapp_audio_processing.AudioProcessing	
Provides audio processing utilities	35
cognitive_exercise.CognitiveExercise	
The Cognitive exercise ros node	38
helper_functions.CognitiveExerciseHelperFunctions	41
rapp_application_authentication_manager.database_handler.DatabaseHandler	
Handles database functions for authentication manager	44
rapp_audio_processing.rapp_detect_silence.DetectSilence	
Performs silence detection on an audio file	51
rapp_email.email_receiver.EmailReceiver	
Fetches emails from user's email account	52
rapp_email.email_sender.EmailSender	55
rapp_audio_processing.rapp_energy_denoise.EnergyDenoise	
Performs energy denoising on an audio file	57
rapp_news_explorer.engine_factory.EngineFactory	
Creates and returns the class of the news engine requested	58
rapp_speech_detection_sphinx4.english_support.EnglishSupport	
Allows the creation of configuration files for English Sphinx speech recognition	59
rapp_news_explorer.event_registry_engine.EventRegistryEngine	
EventRegistry news engine hndler	62
FaceDetection	
Class FaceDetection uptakes the task of handling the ROS service callbacks	64
FaceDetector	
Class that implements a face detection algorithm based on a Haar cascade classifier	66
rapp_weather_reporter.forecastio_reporter.ForecastIOReporter	
ForecastIO weather reporter	69
rapp_geolocator.geolocator_base.GeolocatorBase	
Base class for geolocators	72
rapp_geolocator.geolocator_factory.GeolocatorFactory	74
rapp_geolocator.geolocator_node.GeolocatorNode	
Calculates geolocation via IP	75
rapp_speech_detection_sphinx4.global_parameters.GlobalParams	
Contains global Sphinx parameters	77

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rapp_news_explorer.google_news_engine.GoogleNewsEngine	
Google news engine hndler	79
rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport	83
GreekSupport	
Allows the creation of configuration files for Greek Sphinx speech recognition	85
rapp_speech_detection_sphinx4.greek_support.GreekSupport	00
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Allows the creation of configuration files for Greek Sphinx speech recognition	86
HumanDetection	
Class HumanDetection uptakes the task of handling the ROS service callbacks	91
HumanDetector	
Class that implements a human detection algorithm based on a Haar cascade classifier	93
image classification.ImageClassification	
Contains the necessary functions for classifying an images and requesting registration to the	
ontology	96
image_registration_to_ontology.ImageRegistrationToOntology	50
	00
Contains the necessary functions for registering images to the ontology	99
rapp_geolocator.ip_api_locator.lpAPILocator	
IP-API locator	101
IPLocatorFactory	
Creates and returns the class of the geolocator requested	103
KnowrobWrapper	
Class KnowrobWrapperCommunications contains all the necessary knowrob wrapper functions	104
KnowrobWrapperCommunications	
Class KnowrobWrapperCommunications uptakes the task of handling the ROS service callbacks	116
	110
rapp_speech_detection_sphinx4.language_support.LanguageSupport	400
Allows the creation of configuration files for Sphinx speech recognition	128
rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator	
Creates temporary configuration files for the input limited vocabulary	131
MapGenerator	
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mysql_wrapper_old.MySQLdbWrapper	
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mysql wrapper.MySQLdbWrapper	100
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The mysql wrapper ros node	149
rapp_news_explorer.news_engine_base.NewsEngineBase	
Base class for news engines	166
rapp_news_explorer.news_explorer_node.NewsExplorerNode	
Fetches news from various News sites' APIs	169
ontology_class_bridge.OntologyClassBridge	
Contains the necessary functions for translating caffe classes to ontology classes	171
PathPlanner	
Class that implements a path planning algorithm based on global planner and map server ROS	
nodes	172
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QrCode	
Structure holding the essential info for a QR code	177
QrDetection	
Uptakes the task of setting up the ROS service callbacks towards qr detection	177
QrDetector	
Provides the QR detection functionality	179
caffe_wrapper.RappCaffeWrapper	
	181
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src.rapp_exceptions.RappError	101
'	184
src.rapp_html_parser.RappHTMLParser	
Strips html from imput string	185

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	187
src.rapp_http_request_handler.RappHttpRequestHandler	
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src.rapp_utilities.RappUtilities	
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rapp_audio_processing.rapp_set_noise_profile.SetNoiseProfile	
Evaluates the noise profile for an audio file	198
rapp_audio_processing.rapp_sox_denoise.SoxDenoise	
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rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4	
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rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognition-	
Sphinx4HandlerNode	
Maintains Sphinx instances to perform speech recognition	204
speech_recognition_google.SpeechToTextGoogle	
	207
Sphinx4 Sphinx4	
	209
rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper	
Contains the Sphinx subprocess and is responsible for configuring Sphinx and performing the	
recognition request	212
rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams	
Contains the parameters required for the Sphinx configuration	216
text_to_speech_espeak.TextToSpeechEspeak	219
rapp_audio_processing.rapp_transform_audio.TransformAudio	
Provides audio type tranformation functionalities	220
userScoreHistoryForAllCategories.UserScoreHistoryForAllCategories	
Provides the necessary functions for returning the history of user scores	223
userScoresForAllCategories.UserScoresForAllCategories	
Provides the necessary functions for returning the user scores	225
rapp_audio_processing.rapp_utilities.Utilities	
Provides audio processing utilities	226
rapp_weather_reporter.weather_reporter_base.WeatherReporterBase	
Base class for weather reporters	226
rapp_weather_reporter.weather_reporter_factory.WeatherReporterFactory	
Creates and returns the class of the weather reporter requested	229
rapp_weather_reporter.weather_reporter_node.WeatherReporterNode	
	231
rapp_weather_reporter.yweather_reporter.YWeatherReporter	
Yweather weather reporter	233

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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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	239
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/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_audio	
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/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_detect	
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11= 1 111 11= = 11	242
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11= 1 111 11= 0 = 1 17	243
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11= 1 111 11= 11= -17	237
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Chapter 5

Namespace Documentation

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Classes

class AppError

Exception compliant with the ros error and trace srvs.

5.2 caffe_wrapper Namespace Reference

Classes

class RappCaffeWrapper
 The RappCaffeWrapper ros node.

5.3 caffe_wrapper_main Namespace Reference

Variables

tuple RappCaffeWrapperNode = RappCaffeWrapper()
 The main function that initiates the rapp_caffe_wrapper ROS Node.

5.3.1 Variable Documentation

5.3.1.1 tuple caffe_wrapper_main.RappCaffeWrapperNode = RappCaffeWrapper()

The main function that initiates the rapp_caffe_wrapper ROS Node.

Definition at line 26 of file caffe_wrapper_main.py.

5.4 cognitive_exercise Namespace Reference

Classes

· class CognitiveExercise

The Cognitive exercise ros node.

5.5 cognitive_exercise_main Namespace Reference

Variables

tuple CognitiveExerciseNode = CognitiveExercise()

The main function that initiates the CognitiveExercise ROS Node.

5.5.1 Variable Documentation

5.5.1.1 tuple cognitive_exercise_main.CognitiveExerciseNode = CognitiveExercise()

The main function that initiates the CognitiveExercise ROS Node.

Definition at line 27 of file cognitive_exercise_main.py.

5.6 costmap_2d Namespace Reference

Classes

· class RappStaticLayer

5.7 crop_map Namespace Reference

Functions

- · def computed_cropped_origin
- def find_bounds

Variables

- tuple bounds = find_bounds(map_image)
- string crop_image = crop_name+".pgm"
- list crop_name = sys.argv[2]
- string crop_yaml = crop_name+".yaml"
- tuple cropped_image = map_image.crop((bounds[0], bounds[2], bounds[1] + 1, bounds[3] + 1))
- tuple map_data = yaml.safe_load(f)
- tuple map_image = Image.open(map_image_file)
- list map_image_file = map_data["image"]
- list origin = map_data["origin"]
- list resolution = map_data["resolution"]

5.7.1 Function Documentation

5.7.1.1 def crop_map.computed_cropped_origin (map_image, bounds, resolution, origin)

Compute the image for the cropped map when map_image is cropped by bounds and had origin before.

Definition at line 24 of file crop_map.py.

```
5.7.1.2 def crop_map.find_bounds ( map_image )
Definition at line 8 of file crop_map.py.
5.7.2 Variable Documentation
5.7.2.1 tuple crop_map.bounds = find_bounds(map_image)
Definition at line 66 of file crop_map.py.
5.7.2.2 string crop_map.crop_image = crop_name+".pgm"
Definition at line 55 of file crop map.py.
5.7.2.3 list crop_map.crop_name = sys.argv[2]
Definition at line 51 of file crop_map.py.
5.7.2.4 string crop_map.crop_yaml = crop_name+".yaml"
Definition at line 54 of file crop_map.py.
5.7.2.5 tuple crop_map.cropped_image = map_image.crop((bounds[0], bounds[2], bounds[1] + 1, bounds[3] + 1))
Definition at line 69 of file crop_map.py.
5.7.2.6 tuple crop_map.map_data = yaml.safe_load(f)
Definition at line 48 of file crop map.py.
5.7.2.7 tuple crop_map.map_image = Image.open(map_image_file)
Definition at line 64 of file crop_map.py.
5.7.2.8 list crop_map.map_image_file = map_data["image"]
Definition at line 60 of file crop map.py.
5.7.2.9 list crop_map.origin = map_data["origin"]
Definition at line 62 of file crop_map.py.
5.7.2.10 list crop_map.resolution = map_data["resolution"]
```

Definition at line 61 of file crop_map.py.

5.8 helper_functions Namespace Reference

Classes

• class CognitiveExerciseHelperFunctions

5.9 image_classification Namespace Reference

Classes

· class ImageClassification

Contains the necessary functions for classifying an images and requesting registration to the ontology.

5.10 image_registration_to_ontology Namespace Reference

Classes

· class ImageRegistrationToOntology

Contains the necessary functions for registering images to the ontology.

5.11 map_server Namespace Reference

Functions

• void loadMapFromFile (nav_msgs::GetMap::Response *resp, const char *fname, double res, bool negate, double occ_th, double free_th, double *origin, bool trinary=true)

5.11.1 Function Documentation

5.11.1.1 void map_server::loadMapFromFile (nav_msgs::GetMap::Response * resp, const char * fname, double res, bool negate, double occ_th, double free_th, double * origin, bool trinary = true)

Read the image from file and fill out the resp object, for later use when our services are requested.

Parameters

resp	The map wil be written into here
fname	The image file to read from
res	The resolution of the map (gets stored in resp)
negate	If true, then whiter pixels are occupied, and blacker pixels are free
occ_th	Threshold above which pixels are occupied
free_th	Threshold below which pixels are free
origin	Triple specifying 2-D pose of lower-left corner of image
trinary	If true, only outputs Occupied/Free/Unknown

Exceptions

std::runtime_error	If the image file can't be loaded

Definition at line 55 of file image_loader.cpp.

5.12 mysql_wrapper Namespace Reference

Classes

· class MySQLdbWrapper

The mysql wrapper ros node.

5.13 mysql_wrapper_main Namespace Reference

Variables

tuple MySQLWrapperNode = MySQLdbWrapper()

The main function that initiates the rapp mysql wrapper ROS Node.

5.13.1 Variable Documentation

5.13.1.1 tuple mysql_wrapper_main.MySQLWrapperNode = MySQLdbWrapper()

The main function that initiates the rapp mysql wrapper ROS Node.

Definition at line 26 of file mysql_wrapper_main.py.

5.14 mysql_wrapper_old Namespace Reference

Classes

class MySQLdbWrapper

The mysql wrapper ros node.

5.15 ontology_class_bridge Namespace Reference

Classes

· class OntologyClassBridge

Contains the necessary functions for translating caffe classes to ontology classes.

5.16 rapp_application_authentication_manager Namespace Reference

Namespaces

- · application_authentication_node
- · database_handler

5.17 rapp_application_authentication_manager.application_authentication_node Namespace Reference

Classes

· class ApplicationAuthenticationManager

Provides user management features.

Variables

• tuple application_authentication_ros_node = ApplicationAuthenticationManager()

5.17.1 Variable Documentation

5.17.1.1 tuple rapp_application_authentication_manager.application_authentication_node.application_authentication_ros_node = ApplicationAuthenticationManager()

Definition at line 365 of file application_authentication_node.py.

5.18 rapp_application_authentication_manager.database_handler Namespace Reference

Classes

· class DatabaseHandler

Handles database functions for authentication manager.

5.19 rapp_audio_processing Namespace Reference

Namespaces

- · rapp_audio_processing
- rapp_detect_silence
- rapp_energy_denoise
- · rapp_set_noise_profile
- rapp_sox_denoise
- · rapp_transform_audio
- rapp_utilities

5.20 rapp_audio_processing.rapp_audio_processing Namespace Reference

Classes

class AudioProcessing

Provides audio processing utilities.

Variables

tuple AudioProcessingNode = AudioProcessing()

5.20.1 Variable Documentation

5.20.1.1 tuple rapp_audio_processing.rapp_audio_processing.AudioProcessingNode = AudioProcessing()

Definition at line 217 of file rapp_audio_processing.py.

5.21 rapp_audio_processing.rapp_detect_silence Namespace Reference

Classes

· class DetectSilence

Performs silence detection on an audio file.

5.22 rapp_audio_processing.rapp_energy_denoise Namespace Reference

Classes

· class EnergyDenoise

Performs energy denoising on an audio file.

5.23 rapp_audio_processing.rapp_set_noise_profile Namespace Reference

Classes

· class SetNoiseProfile

Evaluates the noise profile for an audio file.

5.24 rapp_audio_processing.rapp_sox_denoise Namespace Reference

Classes

· class SoxDenoise

Performs denoising on an audio file employing Sox application.

5.25 rapp_audio_processing.rapp_transform_audio Namespace Reference

Classes

· class TransformAudio

Provides audio type tranformation functionalities.

5.26 rapp_audio_processing.rapp_utilities Namespace Reference

Classes

class Utilities

Provides audio processing utilities.

5.27 rapp_email Namespace Reference

Namespaces

- email_node
- · email_receiver
- · email sender

5.28 rapp_email.email_node Namespace Reference

Variables

- tuple emailReceiver = EmailReceiver()
- tuple emailSender = EmailSender()

5.28.1 Variable Documentation

5.28.1.1 tuple rapp_email.email_node.emailReceiver = EmailReceiver()

Definition at line 28 of file email_node.py.

5.28.1.2 tuple rapp_email.email_node.emailSender = EmailSender()

Definition at line 29 of file email_node.py.

5.29 rapp_email.email_receiver Namespace Reference

Classes

class EmailReceiver

Fetches emails from user's email account.

5.30 rapp_email.email_sender Namespace Reference

Classes

· class EmailSender

5.31 rapp_geolocator Namespace Reference

Namespaces

- geolocator_base
- geolocator_factory
- · geolocator_node
- · ip_api_locator

5.32 rapp_geolocator.geolocator_base Namespace Reference

Classes

· class GeolocatorBase

Base class for geolocators.

5.33 rapp_geolocator.geolocator_factory Namespace Reference

Classes

· class GeolocatorFactory

5.34 rapp_geolocator.geolocator_node Namespace Reference

Classes

· class GeolocatorNode

Calculates geolocation via IP.

Variables

• tuple geolocator_node = GeolocatorNode()

5.34.1 Variable Documentation

 $5.34.1.1 \quad tuple \ rapp_geolocator.geolocator_node.geolocator_node = \textbf{GeolocatorNode}()$

Definition at line 103 of file geolocator_node.py.

5.35 rapp_geolocator.ip_api_locator Namespace Reference

Classes

class IpAPILocator

IP-API locator.

5.36 rapp_news_explorer Namespace Reference

Namespaces

- engine_factory
- event_registry_engine
- google_news_engine
- news_engine_base
- · news_explorer_node

5.37 rapp_news_explorer.engine_factory Namespace Reference

Classes

· class EngineFactory

Creates and returns the class of the news engine requested.

5.38 rapp_news_explorer.event_registry_engine Namespace Reference

Classes

· class EventRegistryEngine

EventRegistry news engine hndler.

5.39 rapp_news_explorer.google_news_engine Namespace Reference

Classes

• class GoogleNewsEngine

Google news engine hndler.

5.40 rapp_news_explorer.news_engine_base Namespace Reference

Classes

class NewsEngineBase

Base class for news engines.

5.41 rapp_news_explorer.news_explorer_node Namespace Reference

Classes

• class NewsExplorerNode

Fetches news from various News sites' APIs.

Variables

• tuple news_explorer_node = NewsExplorerNode()

5.41.1 Variable Documentation

5.41.1.1 tuple rapp_news_explorer.news_explorer_node.news_explorer_node = NewsExplorerNode()

Definition at line 103 of file news_explorer_node.py.

5.42 rapp_speech_detection_sphinx4 Namespace Reference

Namespaces

- · english_support
- · global parameters
- greek_english_support
- greek_support
- · language_support
- · limited vocabulary creator
- speech recognition sphinx4
- speech_recognition_sphinx4_handler_node
- sphinx4_configuration_params
- sphinx4_wrapper

5.43 rapp_speech_detection_sphinx4.english_support Namespace Reference

Classes

· class EnglishSupport

Allows the creation of configuration files for English Sphinx speech recognition.

5.44 rapp_speech_detection_sphinx4.global_parameters Namespace Reference

Classes

· class GlobalParams

Contains global Sphinx parameters.

5.45 rapp speech detection sphinx4.greek english support Namespace Reference

Classes

· class GreekEnglishSupport

5.46 rapp_speech_detection_sphinx4.greek_support Namespace Reference

Classes

· class GreekSupport

Allows the creation of configuration files for Greek Sphinx speech recognition.

5.47 rapp_speech_detection_sphinx4.language_support Namespace Reference

Classes

• class LanguageSupport

Allows the creation of configuration files for Sphinx speech recognition.

5.48 rapp_speech_detection_sphinx4.limited_vocabulary_creator Namespace Reference

Classes

· class LimitedVocabularyCreator

Creates temporary configuration files for the input limited vocabulary.

5.49 rapp_speech_detection_sphinx4.speech_recognition_sphinx4 Namespace Reference

Classes

• class SpeechRecognitionSphinx4

Provides a complete Rapp Sphinx Entity.

Variables

• tuple SpeechRecognitionSphinx4Node = SpeechRecognitionSphinx4()

5.49.1 Variable Documentation

5.49.1.1 tuple rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4Node = SpeechRecognitionSphinx4()

Definition at line 261 of file speech_recognition_sphinx4.py.

5.50 rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node Names-pace Reference

Classes

· class SpeechRecognitionSphinx4HandlerNode

Maintains Sphinx instances to perform speech recognition.

Variables

- tuple rospack = rospkg.RosPack()
- tuple SpeechRecognitionSphinx4HandlerNode = SpeechRecognitionSphinx4HandlerNode()
- tuple sphinx_class = rospack.get_path('rapp_speech_detection_sphinx4')

5.50.1 Variable Documentation

5.50.1.1 tuple rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.rospack = rospkg.RosPack()

Definition at line 213 of file speech_recognition_sphinx4_handler_node.py.

5.50.1.2 tuple rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.Speech-RecognitionSphinx4HandlerNode = SpeechRecognitionSphinx4HandlerNode()

Definition at line 220 of file speech_recognition_sphinx4_handler_node.py.

5.50.1.3 tuple rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.sphinx_class = rospack.get_path('rapp_speech_detection_sphinx4')

Definition at line 214 of file speech_recognition_sphinx4_handler_node.py.

5.51 rapp_speech_detection_sphinx4.sphinx4_configuration_params Namespace Reference

Classes

· class SphinxConfigurationParams

Contains the parameters required for the Sphinx configuration.

5.52 rapp_speech_detection_sphinx4.sphinx4_wrapper Namespace Reference

Classes

· class Sphinx4Wrapper

Contains the Sphinx subprocess and is responsible for configuring Sphinx and performing the recognition request.

5.53 rapp_weather_reporter Namespace Reference

Namespaces

- forecastio_reporter
- weather_reporter_base
- · weather_reporter_factory
- weather_reporter_node
- yweather_reporter

5.54 rapp_weather_reporter.forecastio_reporter Namespace Reference

Classes

· class ForecastIOReporter

ForecastIO weather reporter.

5.55 rapp weather reporter.weather reporter base Namespace Reference

Classes

· class WeatherReporterBase

Base class for weather reporters.

5.56 rapp_weather_reporter.weather_reporter_factory Namespace Reference

Classes

· class WeatherReporterFactory

Creates and returns the class of the weather reporter requested.

5.57 rapp_weather_reporter.weather_reporter_node Namespace Reference

Classes

· class WeatherReporterNode

Evaluates weather conditions.

Variables

• tuple weather_reporter_node = WeatherReporterNode()

5.57.1 Variable Documentation

5.57.1.1 tuple rapp_weather_reporter.weather_reporter_node.weather_reporter_node = WeatherReporterNode()

Definition at line 158 of file weather reporter node.py.

5.58 rapp_weather_reporter.yweather_reporter Namespace Reference

Classes

· class YWeatherReporter

Yweather weather reporter.

5.59 speech_recognition_google Namespace Reference

Classes

class SpeechToTextGoogle

Implements calls the Google ASR API.

Variables

• tuple speech_to_text_node = SpeechToTextGoogle()

The main function.

5.59.1 Variable Documentation

5.59.1.1 tuple speech_recognition_google.speech_to_text_node = SpeechToTextGoogle()

The main function.

Creates a SpeechToTextGoogle object

Definition at line 272 of file speech_recognition_google.py.

5.60 src Namespace Reference

Namespaces

- · rapp_exceptions
- · rapp_html_parser
- · rapp_http_json_parser
- · rapp_http_request_handler
- · rapp_utilities

5.61 src.rapp_exceptions Namespace Reference

Classes

class RappError

Provides a RAPP specific exception.

5.62 src.rapp_html_parser Namespace Reference

Classes

• class RappHTMLParser

Strips html from imput string.

5.63 src.rapp_http_json_parser Namespace Reference

Classes

class RappHttpJSONParser

Retrieves key:value pairs from JSON responses.

5.64 src.rapp_http_request_handler Namespace Reference

Classes

· class RappHttpRequestHandler

Performs http requests.

5.65 src.rapp_utilities Namespace Reference

Classes

· class RappUtilities

Provides various utility functionalities.

5.66 text_to_speech_espeak Namespace Reference

Classes

• class TextToSpeechEspeak

Variables

tuple text_to_speech_espeak_ros_node = TextToSpeechEspeak()

5.66.1 Variable Documentation

5.66.1.1 tuple text_to_speech_espeak.text_to_speech_espeak_ros_node = TextToSpeechEspeak()

Definition at line 82 of file text_to_speech_espeak.py.

5.67 userScoreHistoryForAllCategories Namespace Reference

Classes

• class UserScoreHistoryForAllCategories

Provides the necessary functions for returning the history of user scores.

5.68 userScoresForAllCategories Namespace Reference

Classes

· class UserScoresForAllCategories

Provides the necessary functions for returning the user scores.

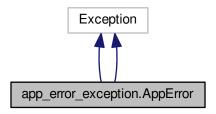
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Class Documentation

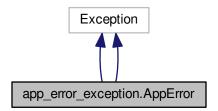
6.1 app_error_exception.AppError Class Reference

Exception compliant with the ros error and trace srvs.

Inheritance diagram for app_error_exception.AppError:



Collaboration diagram for app_error_exception.AppError:



Public Member Functions

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Default constructor for passing error parameters.

def __init__

Default constructor for passing error parameters.

Static Public Member Functions

· def passErrorToRosSrv

Validates the provided test type.

· def passErrorToRosSrv

Validates the provided test type.

Public Attributes

• args

6.1.1 Detailed Description

Exception compliant with the ros error and trace srvs.

Definition at line 3 of file app_error_exception.py.

6.1.2 Constructor & Destructor Documentation

```
6.1.2.1 def app_error_exception.AppError.__init__ ( self, args )
```

Default constructor for passing error parameters.

Definition at line 6 of file app error exception.py.

6.1.2.2 def app_error_exception.AppError.__init__ (self, args)

Default constructor for passing error parameters.

Definition at line 6 of file app_error_exception.py.

6.1.3 Member Function Documentation

6.1.3.1 def app_error_exception.AppError.passErrorToRosSrv(e, res) [static]

Validates the provided test type.

Parameters

е	[AppError] The provided error
trace	[Srv] Ros srv with error [string] and trace [string[]] arguments

Returns

trace [Srv] Ros srv with error [string] and trace [string[]] arguments

Definition at line 16 of file app_error_exception.py.

6.1.3.2 def app_error_exception.AppError.passErrorToRosSrv(e, res) [static]

Validates the provided test type.

6.2 rapp_application_authentication_manager.application_authentication_node.Application-AuthenticationManager Class

Reference 31 Parameters

е	[AppError] The provided error
trace	[Srv] Ros srv with error [string] and trace [string[]] arguments

Returns

trace [Srv] Ros srv with error [string] and trace [string[]] arguments

Definition at line 16 of file app_error_exception.py.

6.1.4 Member Data Documentation

6.1.4.1 app_error_exception.AppError.args

Definition at line 8 of file app_error_exception.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/app_error_exception.py

6.2 rapp_application_authentication_manager.application_authentication_node.Application-AuthenticationManager Class Reference

Provides user management features.

Public Member Functions

def init

ROS Service initializations.

def add_new_user_from_platform_callback

Add new platform user using platform credentials.

def add_new_user_from_store_callback

Add new platform user using rapp_store credentials.

def authenticate_token_callback

Authenticate token.

def login_callback

Login existing user using platform device token.

• def login_from_store_callback

Login existing user using store device token.

Private Member Functions

· def add new user to db

Create password hash and store to the databse.

def _validate_username_format

Verify that new username complies with a set of rules.

• def _verify_new_username_uniqueness

Verify that new username is unique.

def _verify_user_credentials

Verify username and password.

32 Class Documentation

Private Attributes

· db handler

Handles the database queries.

6.2.1 Detailed Description

Provides user management features.

Definition at line 49 of file application authentication node.py.

6.2.2 Constructor & Destructor Documentation

6.2.2.1 def rapp_application_authentication_manager.application_authentication_node.ApplicationAuthenticationManager.__init__(self)

ROS Service initializations.

Definition at line 52 of file application_authentication_node.py.

6.2.3 Member Function Documentation

6.2.3.1 def rapp_application_authentication_manager.application_authentication_node.ApplicationAuthenticationManager._ _add_new_user_to_db (self, new_user_username, new_user_password, creator_username, language) [private]

Create password hash and store to the databse.

Parameters

username	[string] The username
password	[string] The password

Definition at line 356 of file application_authentication_node.py.

Verify that new username complies with a set of rules.

Alphanumerics, dashes and underscores are allowed

Parameters

username	[string] The username

Exceptions

RappError	Username violates rules

Definition at line 346 of file application_authentication_node.py.

6.2.3.3 def rapp_application_authentication_manager.application_authentication_node.ApplicationAuthenticationManager._verify_new_username_uniqueness (self, username) [private]

Verify that new username is unique.

Reference 33 Parameters

username	[string] The username

Returns

suggestion [string] A suggested username if the provided already exists

Exceptions

RappError	Username exists and can not find a username suggestion

Definition at line 324 of file application authentication node.py.

6.2.3.4 def rapp_application_authentication_manager.application_authentication_node.ApplicationAuthenticationManager._verify_user_credentials (self, username, password) [private]

Verify username and password.

Parameters

username	[string] The username
password	[string] Password associated with username

Exceptions

RappError	Username does not exist or password does not match

Definition at line 312 of file application_authentication_node.py.

6.2.3.5 def rapp_application_authentication_manager.application_authentication_node.ApplicationAuthenticationManager.add-_new_user_from_platform_callback (*self, req*)

Add new platform user using platform credentials.

Parameters

req	[rapp_platform_ros_communications::ApplicationAuthentication::AddNewUserFromPlatform-
	SrvRequest] The service request

Returns

res [rapp_platform_ros_communications::ApplicationAuthentication::AddNewUserFromPlatformSrvResponse] The service response

Definition at line 120 of file application_authentication_node.py.

6.2.3.6 def rapp_application_authentication_manager.application_authentication_node.ApplicationAuthenticationManager.add-_new_user_from_store_callback (self, req)

Add new platform user using rapp store credentials.

Parameters

req	[rapp_platform_ros_communications::ApplicationAuthentication::AddNewUserFromStore-
	SrvRequest] The service request

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Returns

res [rapp_platform_ros_communications::ApplicationAuthentication::AddNewUserFromStoreSrvResponse] The service response

Definition at line 162 of file application_authentication_node.py.

6.2.3.7 def rapp_application_authentication_manager.application_authentication_node.ApplicationAuthenticationManager.authenticate_token_callback (self, req)

Authenticate token.

Parameters

req	[rapp_platform_ros_communications::ApplicationAuthentication::UserTokenAuthentication-
	SrvRequest] The service request

Returns

res [rapp_platform_ros_communications::ApplicationAuthentication::UserTokenAuthenticationSrvResponse] The service response

Definition at line 295 of file application_authentication_node.py.

6.2.3.8 def rapp_application_authentication_manager.application_authentication_node.ApplicationAuthenticationManager.-login_callback (self, req)

Login existing user using platform device token.

Parameters

req	[rapp_platform_ros_communications::ApplicationAuthentication::UserLoginSrvRequest] The
	service request

Returns

res [rapp_platform_ros_communications::ApplicationAuthentication::UserLoginSrvResponse] The service response

Definition at line 207 of file application authentication node.py.

6.2.3.9 def rapp_application_authentication_manager.application_authentication_node.ApplicationAuthenticationManager.login_from_store_callback (self, req)

Login existing user using store device token.

Parameters

req [rapp_platform_ros_communications::ApplicationAuthentication::UserLoginSrvRequest] Th	
	service request

Returns

res [rapp_platform_ros_communications::ApplicationAuthentication::UserLoginSrvResponse] The service response

Definition at line 248 of file application_authentication_node.py.

6.2.4 Member Data Documentation

6.2.4.1 rapp_application_authentication_manager.application_authentication_node.ApplicationAuthenticationManager._db_handler [private]

Handles the database queries.

(see database_handler.DatabaseHandler)

Definition at line 57 of file application_authentication_node.py.

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

 /home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp_application_authentication_manager/application_authentication_node.py

6.3 rapp_audio_processing.rapp_audio_processing.AudioProcessing Class Reference

Provides audio processing utilities.

Public Member Functions

def init

Constructor performing initializations.

· def denoiseCallback

Service callback for denoising.

• def detectSilenceCallback

Service callback for Detecting silence.

def energyDenoiseCallback

Service callback for Energy denoising.

· def setNoiseProfileCallback

Service callback for setting noise profile.

· def transformAudioCallback

Service callback for Audio transformation.

Private Attributes

• _detect_silence_module

Instantiates rapp_detect_silence.DetectSilence.

• _energy_denoise_module

Instantiates rapp_energy_denoise.EnergyDenoise.

_energy_denoising_debug

Energy denoising degug flag.

· set noise profile module

Instantiates rapp_set_noise_profile.SetNoiseProfile.

• _sox_denoise_module

Instantiates rapp_sox_denoise.SoxDenoise.

_transform_audio_module

Instantiates rapp_transform_audio.TransformAudio.

· utilities module

Instantiates rapp_utilities. Utilities.

36 Class Documentation

6.3.1 Detailed Description

Provides audio processing utilities.

Implements service servers to perform denoising, audio transformation etc.

Definition at line 61 of file rapp audio processing.py.

6.3.2 Constructor & Destructor Documentation

6.3.2.1 def rapp_audio_processing.rapp_audio_processing.AudioProcessing.__init__ (self)

Constructor performing initializations.

Definition at line 64 of file rapp_audio_processing.py.

6.3.3 Member Function Documentation

6.3.3.1 def rapp_audio_processing.rapp_audio_processing.AudioProcessing.denoiseCallback (self, req)

Service callback for denoising.

Parameters

req	[rapp_platform_ros_comminications::AudioProcessing::AudioProcessingDenoiseSrv]	The
	denoise request	

Returns

res [rapp_platform_ros_comminications::AudioProcessing::AudioProcessingDenoiseSrvResponse] The denoise response

Definition at line 158 of file rapp_audio_processing.py.

6.3.3.2 def rapp_audio_processing.rapp_audio_processing.AudioProcessing.detectSilenceCallback (self, req)

Service callback for Detecting silence.

Parameters

req	[rapp_platform_ros_comminications::AudioProcessing::AudioProcessingDetectSilence] The
	detect silence request

Returns

res [rapp_platform_ros_comminications::AudioProcessing::AudioProcessingDetectSilenceSrvResponse] The detect silence response

Definition at line 173 of file rapp_audio_processing.py.

6.3.3.3 def rapp_audio_processing.rapp_audio_processing.AudioProcessing.energyDenoiseCallback (self, reg)

Service callback for Energy denoising.

Parameters

req	[rapp_platform_ros_comminications::AudioProcessing::AudioProcessingDenoiseSrv]	The
	denoise request	

Returns

 $res\ [rapp_platform_ros_comminications::AudioProcessing::AudioProcessingDenoiseSrvResponse]\ The\ energy\ denoise\ response$

Definition at line 188 of file rapp_audio_processing.py.

6.3.3.4 def rapp_audio_processing.rapp_audio_processing.AudioProcessing.setNoiseProfileCallback (self, req)

Service callback for setting noise profile.

Parameters

req	[rapp_platform_ros_comminications::AudioProcessing::AudioProcessingSetNoiseProfileSrv]
	The set noise profile request

Returns

res [rapp_platform_ros_comminications::AudioProcessing::AudioProcessingSetNoiseProfileSrvResponse] The set noise profile response

Definition at line 137 of file rapp_audio_processing.py.

6.3.3.5 def rapp_audio_processing.rapp_audio_processing.AudioProcessing.transformAudioCallback (self, req)

Service callback for Audio transformation.

Parameters

req	[rapp_platform_ros_comminications::AudioProcessing::AudioProcessingTransformAudioSrv]
	The transform audio request

Returns

res [rapp_platform_ros_comminications::AudioProcessing::AudioProcessingTransformAudioSrvResponse] The transform audio response

Definition at line 204 of file rapp audio processing.py.

6.3.4 Member Data Documentation

6.3.4.1 rapp_audio_processing.rapp_audio_processing.AudioProcessing._detect_silence_module [private]

Instantiates rapp detect silence. Detect Silence.

Definition at line 67 of file rapp_audio_processing.py.

6.3.4.2 rapp_audio_processing.rapp_audio_processing.AudioProcessing._energy_denoise_module [private]

Instantiates rapp_energy_denoise.EnergyDenoise.

Definition at line 69 of file rapp_audio_processing.py.

38 Class Documentation

6.3.4.3 rapp_audio_processing.rapp_audio_processing.AudioProcessing.energy_denoising_debug [private]

Energy denoising degug flag.

Definition at line 104 of file rapp_audio_processing.py.

6.3.4.4 rapp audio processing.rapp audio processing.AudioProcessing. set noise profile module [private]

Instantiates rapp_set_noise_profile.SetNoiseProfile.

Definition at line 75 of file rapp_audio_processing.py.

6.3.4.5 rapp_audio_processing.rapp_audio_processing.AudioProcessing.sox_denoise_module [private]

Instantiates rapp sox denoise. Sox Denoise.

Definition at line 71 of file rapp_audio_processing.py.

6.3.4.6 rapp_audio_processing.rapp_audio_processing.AudioProcessing_transform_audio_module [private]

Instantiates rapp transform audio. Transform Audio.

Definition at line 77 of file rapp_audio_processing.py.

6.3.4.7 rapp_audio_processing.rapp_audio_processing.AudioProcessing._utilities_module [private]

Instantiates rapp utilities. Utilities.

Definition at line 73 of file rapp_audio_processing.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing.py

6.4 cognitive_exercise.CognitiveExercise Class Reference

The Cognitive exercise ros node.

Public Member Functions

def __init__

Default contructor.

• def chooserDataHandler

The cognitive exercise chooser service callback.

def cognitiveTestCreatorDataHandler

The cognitive test creator service callback.

def recordUserCognitiveTestPerformanceDataHandler

The record user cognitive test performance service callback.

• def returnTestsOfTypeSubtypeDifficultyDataHandler

The returnTestsOfTypeSubtypeDifficultyDataHandler service callback.

def userScoreHistoryForAllCategoriesDataHandler

The userScoreHistoryForAllCategories service callback.

def userScoresForAllCategoriesDataHandler

The userScoresForAllCategories service callback.

Public Attributes

- serv
- serv_topic

6.4.1 Detailed Description

The Cognitive exercise ros node.

Definition at line 49 of file cognitive_exercise.py.

6.4.2 Constructor & Destructor Documentation

6.4.2.1 def cognitive_exercise.CognitiveExercise.__init__ (self)

Default contructor.

Waits for services the node depends on and declares the callbacks of the node's services

Definition at line 54 of file cognitive_exercise.py.

6.4.3 Member Function Documentation

6.4.3.1 def cognitive_exercise.CognitiveExercise.chooserDataHandler (self, req)

The cognitive exercise chooser service callback.

Parameters

req	[rapp_platform_ros_communications::testSelectorSrvRequest::Request&] The ROS service
	request

Returns

res [rapp_platform_ros_communications::testSelectorSrvResponse::Response&] The ROS service response

Definition at line 123 of file cognitive_exercise.py.

6.4.3.2 def cognitive_exercise.CognitiveExercise.cognitiveTestCreatorDataHandler (self, req)

The cognitive test creator service callback.

Parameters

req	[rapp_platform_ros_communications::cognitiveTestCreatorSrvRequest::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::cognitiveTestCreatorSrvResponse::Response&] The ROS service response

Definition at line 141 of file cognitive_exercise.py.

6.4.3.3 def cognitive_exercise.CognitiveExercise.recordUserCognitiveTestPerformanceDataHandler (self, req)

The record user cognitive test performance service callback.

Parameters

req	[rapp_platform_ros_communications::recordUserCognitiveTestPerformanceSrvRequest::-
	Request&] The ROS service request

Returns

res [rapp_platform_ros_communications::recordUserCognitiveTestPerformanceSrvResponse::Response&] The ROS service response

Definition at line 132 of file cognitive exercise.py.

6.4.3.4 def cognitive_exercise.CognitiveExercise.returnTestsOfTypeSubtypeDifficultyDataHandler (self, req)

The returnTestsOfTypeSubtypeDifficultyDataHandler service callback.

Parameters

req	[rapp_platform_ros_communications::returnTestsOfTypeSubtypeDifficultyDataHandler::-
	Request&] The ROS service request

Returns

res [rapp_platform_ros_communications::returnTestsOfTypeSubtypeDifficultyDataHandler::Response&] The ROS service response

Definition at line 168 of file cognitive_exercise.py.

6.4.3.5 def cognitive_exercise.CognitiveExercise.userScoreHistoryForAllCategoriesDataHandler (self, req)

The userScoreHistoryForAllCategories service callback.

Parameters

req	[rapp_platform_ros_communications::userScoreHistoryForAllCategoriesSrv::Request&] The
	ROS service request

Returns

res [rapp_platform_ros_communications::userScoreHistoryForAllCategoriesSrv::Response&] The ROS service response

Definition at line 159 of file cognitive_exercise.py.

6.4.3.6 def cognitive_exercise.CognitiveExercise.userScoresForAllCategoriesDataHandler (self, req)

The userScoresForAllCategories service callback.

Parameters

req	[rapp_platform_ros_communications::userScoresForAllCategoriesSrvRequest::Request&]
	The ROS service request

Returns

res [rapp_platform_ros_communications::userScoresForAllCategoriesSrvResponse::Response&] The ROS service response

Definition at line 150 of file cognitive_exercise.py.

6.4.4 Member Data Documentation

6.4.4.1 cognitive_exercise.CognitiveExercise.serv

Definition at line 91 of file cognitive_exercise.py.

6.4.4.2 cognitive exercise.CognitiveExercise.serv topic

Definition at line 57 of file cognitive exercise.py.

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

• /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/cognitive_exercise.py

6.5 helper_functions.CognitiveExerciseHelperFunctions Class Reference

Static Public Member Functions

def determineTestTypeListForReturningScoresOrHistory

Validates the provided test type or selects all test types from ontology if non provided.

• def filterTestsbyDifficultyAndSubtype

Filters the tests by Difficulty and test subtype.

def getCognitiveTestsOfType

Gets the cognitive tests of the given type and difficulty available in the ontology.

def getTestLanguagesFromOntology

Queries the ontology and returns the cognitive test languages available.

def getTestTypesFromOntology

Queries the ontology and returns the cognitive test types available.

def getUserLanguage

Queries the MySQL database through the MySQL wrapper and returns the user's language.

def getUserOntologyAlias

Gets the users ontology alias and if it doesnt exist it creates it.

def getUserPerformanceRecordsForTestType

Gets the user cognitive test performance records for given test type.

def organizeUserPerformanceByTimestamp

Organizes the user's performance entries by timestamp.

def traceError

Traces and returns the code line where an error occured.

6.5.1 Detailed Description

Definition at line 34 of file helper_functions.py.

6.5.2 Member Function Documentation

Validates the provided test type or selects all test types from ontology if non provided.

Parameters

testType	[string] The provided test type
validtestTypes-	[list] The list of valid test types
List	

Returns

testTypesList [list] The list of testTypes returned

Exceptions

Exception	AppError

Definition at line 166 of file helper_functions.py.

6.5.2.2 def helper_functions.CognitiveExerciseHelperFunctions.filterTestsbyDifficultyAndSubtype (testsOfType, chosenDif, testSubType) [static]

Filters the tests by Difficulty and test subtype.

Parameters

	testsOfType	[dictionary] The dictionary containing all the tests
	chosenDif	[string] The test difficulty
ſ	testSubType	[string] The test sub type

Returns

d [dictionary] The selected cognitive tests after filtering was applied

Definition at line 132 of file helper_functions.py.

6.5.2.3 def helper_functions.CognitiveExerciseHelperFunctions.getCognitiveTestsOfType (*testType, userLanguage*) [static]

Gets the cognitive tests of the given type and difficulty available in the ontology.

Parameters

testType	[string] The test type (category)
userLanguage	[string] The user's language

Returns

cognitiveTestsOfTypeResponse [cognitiveTestsOfTypeResponse] The cognitive tests of type service response

Exceptions

|--|

Definition at line 113 of file helper_functions.py.

6.5.2.4 def helper_functions.CognitiveExerciseHelperFunctions.getTestLanguagesFromOntology() [static]

Queries the ontology and returns the cognitive test languages available.

Returns

languagesList [list] The list of the available cognitive test languages they were read from the ontology

Exceptions

Exception	AppError
-----------	----------

Definition at line 91 of file helper_functions.py.

6.5.2.5 def helper_functions.CognitiveExerciseHelperFunctions.getTestTypesFromOntology() [static]

Queries the ontology and returns the cognitive test types available.

Returns

testTypesList [list] The list of the available tests as they were read from the ontology

Exceptions

Exception	AppError

Definition at line 71 of file helper_functions.py.

6.5.2.6 def helper_functions.CognitiveExerciseHelperFunctions.getUserLanguage(username) [static]

Queries the MySQL database through the MySQL wrapper and returns the user's language.

Parameters

username	[string] The username of the user as is in the MySQL database
languageInSrv	[string] The user's language for assigning it to the srv response trace

Returns

userLanguage [string] The user's language

Exceptions

Exception	AppError
Excoption	Appendi

Definition at line 149 of file helper functions.py.

6.5.2.7 def helper_functions.CognitiveExerciseHelperFunctions.getUserOntologyAlias (username) [static]

Gets the users ontology alias and if it doesnt exist it creates it.

Parameters

username

Returns

ontologyAlias [string] The user's ontology alias

Exceptions

Exception Ap	AppError
--------------	----------

Definition at line 56 of file helper_functions.py.

6.5.2.8 def helper_functions.CognitiveExerciseHelperFunctions.getUserPerformanceRecordsForTestType (testType, userOntologyAlias) [static]

Gets the user cognitive test performance records for given test type.

Parameters

username	[string] The user's username
----------	------------------------------

Returns

userPerformanceReq [rapp_platform_ros_communications::userPerformanceCognitveTestsSrvRequest::-Request&] The user's performance records

Exceptions

Exception	AppError

Definition at line 42 of file helper_functions.py.

6.5.2.9 def helper_functions.CognitiveExerciseHelperFunctions.organizeUserPerformanceByTimestamp (*userPerf*) [static]

Organizes the user's performance entries by timestamp.

Parameters

userPerf [dict] The dictionary containing the user's performance entries	
--	--

Returns

userPerfOrganizedByTimestamp [OrderedDict] The dictionary containing the user's performance entries organized by timestamp

Definition at line 182 of file helper_functions.py.

6.5.2.10 def helper functions.CognitiveExerciseHelperFunctions.traceError (error, trace) [static]

Traces and returns the code line where an error occured.

Parameters

error	[String] the error occured
trace	[list] the execution messages trace list
trace	[list] the execution messages trace list

Definition at line 196 of file helper_functions.py.

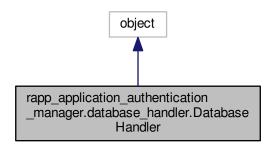
The documentation for this class was generated from the following file:

• /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/helper_functions.py

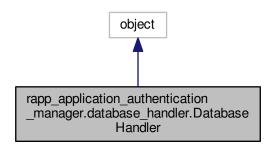
6.6 rapp_application_authentication_manager.database_handler.DatabaseHandler Class Reference

Handles database functions for authentication manager.

Inheritance diagram for rapp_application_authentication_manager.database_handler.DatabaseHandler:



 $Collaboration\ diagram\ for\ rapp_application_authentication_manager. database_handler. Database Handler:$



Public Member Functions

def __init__

ROS Service initializations.

• def add_new_user

Write new user to the platform database.

def add_store_token_to_device

Write store token the device table.

def get_token_user

Retrieve username associated with application_token from platform database.

def get_user_password

Retrieve user's password from platform database.

def username_exists

Verify that username exists in platform database.

• def validate_user_role

Check if user has an admin/root role.

• def verify_active_application_token

Check if the application_token is active/valid.

def verify_active_robot_session

Check if there is an active session (token) for the specified user and store_token (device_token)

· def verify platform device token

Verify that the device token exists in platform database.

def verify_store_device_token

Verify that the device token exists in store database.

def write_new_application_token

Write new token to the platform database.

Private Attributes

add new user proxy

Service proxy to add new user to the database.

_add_store_token_to_device_proxy

Service proxy to add new device token from store to the database.

_create_new_app_token_proxy

Service proxy to add new application token to the database.

· _get_token_user_proxy

Service proxy to query database for the user associated with a token.

_get_user_passwd_proxy

Service proxy to query database for user password.

· username exists proxy

Service proxy to query database for user existance.

· _validate_existing_device_token_proxy

Service proxy to query the database for a device token.

_validate_user_role_proxy

Service proxy to query the database for the user's role.

_verify_appl_token_proxy

Service proxy to query database for application token validity.

_verify_robot_session_proxy

Service proxy to query database for active user session.

6.6.1 Detailed Description

Handles database functions for authentication manager.

Definition at line 58 of file database handler.py.

6.6.2 Constructor & Destructor Documentation

6.6.2.1 def rapp_application_authentication_manager.database_handler.DatabaseHandler.__init__(self)

ROS Service initializations.

Definition at line 61 of file database_handler.py.

6.6.3 Member Function Documentation

6.6.3.1 def rapp_application_authentication_manager.database_handler.DatabaseHandler.add_new_user (self, username, password, creator, language)

Write new user to the platform database.

Parameters

username	[string] The username
password	[string] The user's password
store_token	[string] The user's store token
language	[string] The user's language

Returns

status [bool] True if token exists, false otherwise

Exceptions

Dam Francis	Tailed to greate the year year
Rapp⊑rror	Falled to create the new user

Definition at line 316 of file database handler.py.

6.6.3.2 def rapp_application_authentication_manager.database_handler.DatabaseHandler.add_store_token_to_device (self, store_token)

Write store token the device table.

Parameters

store token	[string] The device_token of the application token
	[[

Exceptions

RappError	Failed to write token

Definition at line 358 of file database_handler.py.

6.6.3.3 def rapp_application_authentication_manager.database_handler.DatabaseHandler.get_token_user (self, app_token)

Retrieve username associated with application_token from platform database.

Parameters

token	[string] The user's application token

Returns

username [string] The username

Definition at line 281 of file database_handler.py.

6.6.3.4 def rapp_application_authentication_manager.database_handler.DatabaseHandler.get_user_password (self, username)

Retrieve user's password from platform database.

Parameters

username	[string] The username

Returns

password [string] Password associated with username

Exceptions

RappError	Username does not exist
-----------	-------------------------

Definition at line 250 of file database_handler.py.

6.6.3.5 def rapp_application_authentication_manager.database_handler.DatabaseHandler.username_exists (self, username)

Verify that username exists in platform database.

Parameters

username [string] The username

Returns

status [bool] True if username exists, false otherwise

Definition at line 233 of file database_handler.py.

6.6.3.6 def rapp_application_authentication_manager.database_handler.DatabaseHandler.validate_user_role (self, username)

Check if user has an admin/root role.

Parameters

username	[string] The user's username

Exceptions

RappError	Invalid user role

Definition at line 376 of file database handler.py.

Check if the application_token is active/valid.

Parameters

token	[string] The user's application token

Returns

status [bool] True if it is valid, flase otherwise

Definition at line 265 of file database_handler.py.

6.6.3.8 def rapp_application_authentication_manager.database_handler.DatabaseHandler.verify_active_robot_session (self, username, store_token)

Check if there is an active session (token) for the specified user and store_token (device_token)

Parameters

username	[string] The username
store_token	[string] The device_token associated with the appl_token

Returns

status [bool] True if token exists, false otherwise

Definition at line 295 of file database_handler.py.

6.6.3.9 def rapp_application_authentication_manager.database_handler.DatabaseHandler.verify_platform_device_token (self, device_token)

Verify that the device token exists in platform database.

Parameters

device_token	[string] The token

Returns

status [bool] True if token exists, false otherwise

Definition at line 221 of file database handler.py.

6.6.3.10 def rapp_application_authentication_manager.database_handler.DatabaseHandler.verify_store_device_token (self, device_token)

Verify that the device token exists in store database.

Parameters

device_token	[string] The token

Returns

status [bool] True if token exists, false otherwise

Definition at line 211 of file database_handler.py.

Write new token to the platform database.

Parameters

username	[string] The user issuing the token
store_token	[string] The device_token of the application token
app_token	[string] The user's application token

Exceptions

RappError | Failed to write token

Definition at line 339 of file database handler.py.

6.6.4 Member Data Documentation

6.6.4.1 rapp_application_authentication_manager.database_handler.DatabaseHandler._add_new_user_proxy [private]

Service proxy to add new user to the database.

(see database_handler.add_new_user)

Definition at line 145 of file database handler.py.

6.6.4.2 rapp_application_authentication_manager.database_handler.DatabaseHandler._add_store_token_to_device_proxy [private]

Service proxy to add new device token from store to the database.

(see database_handler.add_store_token_to_device)

Definition at line 173 of file database_handler.py.

6.6.4.3 rapp_application_authentication_manager.database_handler.DatabaseHandler._create_new_app_token_proxy [private]

Service proxy to add new application token to the database.

(see database_handler.write_new_application_token)

Definition at line 159 of file database handler.py.

6.6.4.4 rapp_application_authentication_manager.database_handler.DatabaseHandler._get_token_user_proxy [private]

Service proxy to query database for the user associated with a token.

(see database_handler.get_token_user)

Definition at line 116 of file database handler.py.

 ${\it 6.6.4.5} \quad {\it rapp_application_authentication_manager.database_handler.DatabaseHandler._get_user_passwd_proxy\\ [private]$

Service proxy to query database for user password.

(see database_handler.get_user_password)

Definition at line 86 of file database_handler.py.

6.6.4.6 rapp_application_authentication_manager.database_handler.DatabaseHandler._username_exists_proxy [private]

Service proxy to query database for user existance.

(see database_handler.username_exists)

Definition at line 72 of file database_handler.py.

6.6.4.7 rapp_application_authentication_manager.database_handler.DatabaseHandler._validate_existing_device_token_proxy [private]

Service proxy to query the database for a device token.

(see database_handler.verify_platform_device_token)

Definition at line 202 of file database handler.py.

6.6.4.8 rapp_application_authentication_manager.database_handler.DatabaseHandler._validate_user_role_proxy [private]

Service proxy to query the database for the user's role.

(see database_handler.validate_user_role)

Definition at line 187 of file database_handler.py.

6.6.4.9 rapp_application_authentication_manager.database_handler.DatabaseHandler._verify_appl_token_proxy [private]

Service proxy to query database for application token validity.

(see database_handler.verify_active_application_token)

Definition at line 101 of file database handler.py.

Service proxy to query database for active user session.

(see database_handler.verify_active_robot_session)

Definition at line 131 of file database handler.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp_application_authentication_manager/database_handler.py

6.7 rapp_audio_processing.rapp_detect_silence.DetectSilence Class Reference

Performs silence detection on an audio file.

Public Member Functions

· def detectSilence

Detects silence.

6.7.1 Detailed Description

Performs silence detection on an audio file.

Definition at line 29 of file rapp_detect_silence.py.

6.7.2 Member Function Documentation

6.7.2.1 def rapp_audio_processing.rapp_detect_silence.DetectSilence.detectSilence (self, audio_file, threshold)

Detects silence.

Handles service callback rapp_audio_processing.AudioProcessing::detectSilenceCallback

Parameters

audio_file	[string] Audio file path
threshold	[float] Silence threshold

Returns

rsd_sq [float] Noise relative standard deviation has_silence [bool] Indicates the existence of silence

Definition at line 41 of file rapp_detect_silence.py.

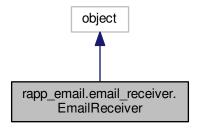
The documentation for this class was generated from the following file:

 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_detect_silence.py

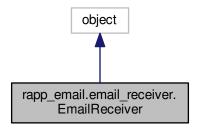
6.8 rapp_email.email_receiver.EmailReceiver Class Reference

Fetches emails from user's email account.

Inheritance diagram for rapp_email.email_receiver.EmailReceiver:



Collaboration diagram for rapp_email.email_receiver.EmailReceiver:



Public Member Functions

• def __init__

Constructor.

· def receiveEmailSrvCallback

The callback to receive specified mails from users email account.

Private Member Functions

def connectImap

Create an IMAP connection to the server.

def fetchEmail

Fetch specified email's data.

· def _initializePath

Create a temporary path for the user emails.

· def _selectEmails

Fetch the emails that match the requests criteria.

6.8.1 Detailed Description

Fetches emails from user's email account.

Definition at line 46 of file email_receiver.py.

6.8.2 Constructor & Destructor Documentation

6.8.2.1 def rapp_email.email_receiver.EmailReceiver.__init__ (self)

Constructor.

Definition at line 49 of file email_receiver.py.

6.8.3 Member Function Documentation

6.8.3.1 def rapp_email.email_receiver.EmailReceiver._connectImap (self, email, password, server, port) [private]

Create an IMAP connection to the server.

Initiates an IMAP connection according to the user's email and logins to the server using user's credentials

Parameters

email	[string] The user's email
password	[string] The user's password
server	[string] The email server
port	[string] The email server's port

Returns

imap [imaplib::IMAP4_SSL] The connection

Definition at line 264 of file email_receiver.py.

6.8.3.2 def rapp_email.email_receiver.EmailReceiver._fetchEmail (*self, imap, emailID, receivePath, emailCounter*) [private]

Fetch specified email's data.

Parameters

imap	[imaplib::IMAP4_SSL] The connection
emailID	[int] The emails UID
receivePath	[string] The absolute path where the contents of the email should be written.
emailCounter	[int] The number of emails processed

return mailMsg [rapp_platform_ros_communications::MailMsg] The mail msg to be appended in the service response

Definition at line 113 of file email receiver.py.

6.8.3.3 def rapp_email.email_receiver.EmailReceiver._initializePath (self, email) [private]

Create a temporary path for the user emails.

The path will be placed in ~/rapp_platform_files/emails/{username}{random_string}

Parameters

email	[string] The rapp user's email

Definition at line 188 of file email_receiver.py.

6.8.3.4 def rapp email.email receiver.EmailReceiver. selectEmails (self, req, imap) [private]

Fetch the emails that match the requests criteria.

req [rapp platform ros communications::Email::ReceiveEmailSrvRequest] The receive email request

Returns

emails [list<int>] The UIDs of the selected emails

imaplib.IMAP4.error General imaplib error

Definition at line 215 of file email_receiver.py.

6.8.3.5 def rapp_email.email_receiver.EmailReceiver.receiveEmailSrvCallback (self, req)

The callback to receive specified mails from users email account.

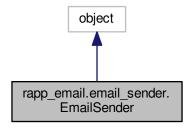
req [rapp_platform_ros_communications::Email::ReceiveEmailSrvRequest] The receive email request res [rapp_platform_ros_communications::Email::ReceiveEmailSrvResponse] The receive email response Definition at line 59 of file email_receiver.py.

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

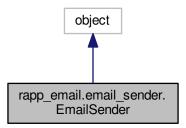
/home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_receiver.py

6.9 rapp_email.email_sender.EmailSender Class Reference

Inheritance diagram for rapp_email.email_sender.EmailSender:



 $Collaboration\ diagram\ for\ rapp_email.email_sender. Email Sender:$



Public Member Functions

- def __init__
- def sendEmailSrvCallback

The callback to send specified mails from users email account.

Private Member Functions

• def _connectAndSend

Connect to the requested SMTP server and send email.

· def createEmailBody

Creates the emails main body.

· def _handleAttachment

Add attachment to the email.

6.9.1 Detailed Description

Definition at line 41 of file email_sender.py.

6.9.2 Constructor & Destructor Documentation

6.9.2.1 def rapp_email.email_sender.EmailSender.__init__ (self)

Definition at line 43 of file email_sender.py.

6.9.3 Member Function Documentation

6.9.3.1 def rapp_email.email_sender.EmailSender._connectAndSend (self, userEmail, userPassword, recipients, server, port, msg) [private]

Connect to the requested SMTP server and send email.

Parameters

userEmail	[string] The sender's email
userPassword	[string] The sender's password
recipients	[list <string>] The recipients' emails</string>
server	[string] The SMTP server's address
port	[string] The SMTP server's port

Exceptions

smtplib.SMTPException	Base SMTP exception class
socket.error	Socket class exception (connection problem)

Definition at line 100 of file email_sender.py.

6.9.3.2 def rapp_email.email_sender.EmailSender._createEmailBody (self, recipients, userEmail, body, subject) [private]

Creates the emails main body.

Parameters

recipients	[list <string>] The recipients' emails</string>
userEmail	[string] The sender's email
subject	[string] The email's subject

bodv	[string] The email's body text

Returns

msg [MimeMultipart] The email's main body to be sent via SMTP

Definition at line 137 of file email_sender.py.

6.9.3.3 def rapp_email.email_sender.EmailSender._handleAttachment (self, filename) [private]

Add attachment to the email.

Parameters

filename	[string] The absolute path of the requested file

Returns

attachment [mimeobject] The attachment format of the file to be appended to the email

Exceptions

IOError	General IO error
EnvironmentError	General IO error

Definition at line 158 of file email_sender.py.

6.9.3.4 def rapp_email.email_sender.EmailSender.sendEmailSrvCallback (self, req)

The callback to send specified mails from users email account.

req [rapp_platform_ros_communications::Email::SendEmailSrvRequest] The send email request res [rapp_platform_ros_communications::Email::SendEmailSrvResponse] The send email response Definition at line 53 of file email_sender.py.

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

• /home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_sender.py

6.10 rapp_audio_processing.rapp_energy_denoise.EnergyDenoise Class Reference

Performs energy denoising on an audio file.

Public Member Functions

• def energyDenoise

Performs energy-based denoising.

6.10.1 Detailed Description

Performs energy denoising on an audio file.

Definition at line 29 of file rapp_energy_denoise.py.

6.10.2 Member Function Documentation

6.10.2.1 def rapp_audio_processing.rapp_energy_denoise.EnergyDenoise.energyDenoise (self, audio_file, scale, denoised_audio_file, energy_denoising_debug)

Performs energy-based denoising.

 $Handles\ service\ callback\ rapp_audio_processing. Audio Processing::energy Denoise Callback\ rapp_audio_processing. Audio Processing. Audio Processing. Audio Processing. Audio Processing. Audio P$

Parameters

audio_file	[string] Audio file path
scale	[float] Energy denoise scale
denoised_audio-	[string] Path to write denoised audio file
_file	

Definition at line 39 of file rapp_energy_denoise.py.

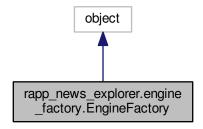
The documentation for this class was generated from the following file:

/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_energy_denoise.py

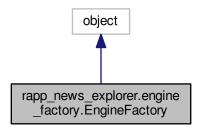
6.11 rapp_news_explorer.engine_factory.EngineFactory Class Reference

Creates and returns the class of the news engine requested.

Inheritance diagram for rapp news explorer.engine factory.EngineFactory:



Collaboration diagram for rapp_news_explorer.engine_factory.EngineFactory:



Public Member Functions

def select_news_engine
 Select proper news engine according to request.

6.11.1 Detailed Description

Creates and returns the class of the news engine requested.

Implements a factory pattern.

Definition at line 31 of file engine_factory.py.

6.11.2 Member Function Documentation

6.11.2.1 def rapp_news_explorer.engine_factory.EngineFactory.select_news_engine (self, engine)

Select proper news engine according to request.

Parameters

engine	[string] The name of the news engine
--------	--------------------------------------

Returns

res [rapp_news_explorer.rapp_news_explorer.NewsEngine] The news engine

RappError Wrong news engine provided by user

Definition at line 42 of file engine_factory.py.

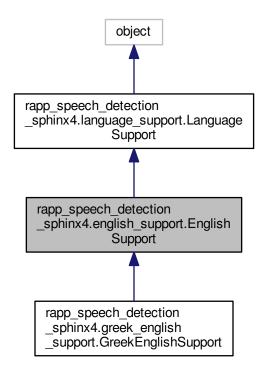
The documentation for this class was generated from the following file:

• /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/engine_factory.py

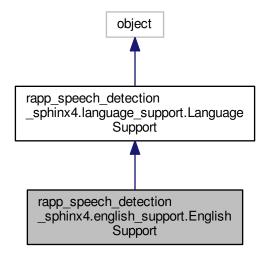
6.12 rapp_speech_detection_sphinx4.english_support.EnglishSupport Class Reference

Allows the creation of configuration files for English Sphinx speech recognition.

Inheritance diagram for rapp_speech_detection_sphinx4.english_support.EnglishSupport:



Collaboration diagram for rapp_speech_detection_sphinx4.english_support.EnglishSupport:



Public Member Functions

def init

Performs initializations.

• def getLimitedVocebularyConfiguration

Computes the Limited English Configuration.

def getWordPhonemes

Compute the English word phonemes.

Private Attributes

· _english_dict_file

The English dictionary file.

_english_dict_mapping

The mmap of the English dictionary file contents.

6.12.1 Detailed Description

Allows the creation of configuration files for English Sphinx speech recognition.

Definition at line 27 of file english_support.py.

6.12.2 Constructor & Destructor Documentation

6.12.2.1 def rapp_speech_detection_sphinx4.english_support.EnglishSupport.__init__ (self)

Performs initializations.

Definition at line 30 of file english_support.py.

6.12.3 Member Function Documentation

6.12.3.1 def rapp_speech_detection_sphinx4.english_support.EnglishSupport.getLimitedVocebularyConfiguration (self, words, grammar, sentences)

Computes the Limited English Configuration.

Parameters

words	[list::string] The set of words to be identified
grammar	[list::string] The Sphinx grammar parameter
sentences	[list::string] The Sphinx sentences parameter

Returns

limited_sphinx_configuration [dictionary] The Limited English configuration engEngDict [dictionary] Introduced for code interface compliance

Definition at line 105 of file english_support.py.

6.12.3.2 def rapp_speech_detection_sphinx4.english_support.EnglishSupport.getWordPhonemes (self, words)

Compute the English word phonemes.

Parameters

words	[list::string] The set of English words

Returns

enhanced_words [dictionary] The English word->phonemes mapping

Definition at line 60 of file english_support.py.

6.12.4 Member Data Documentation

6.12.4.1 rapp_speech_detection_sphinx4.english_support.EnglishSupport._english_dict_file [private]

The English dictionary file.

Located in path global_parameters.GlobalParams::_language_models_url + "/englishPack/cmudict-en-us.dict"

Definition at line 39 of file english support.py.

6.12.4.2 rapp_speech_detection_sphinx4.english_support.EnglishSupport._english_dict_mapping [private]

The mmap of the English dictionary file contents.

Definition at line 41 of file english_support.py.

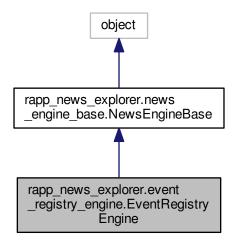
The documentation for this class was generated from the following file:

/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/english_support.py

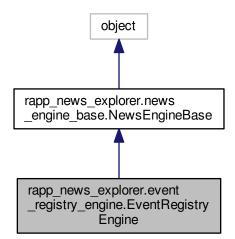
6.13 rapp_news_explorer.event_registry_engine.EventRegistryEngine Class Reference

EventRegistry news engine hndler.

Inheritance diagram for rapp_news_explorer.event_registry_engine.EventRegistryEngine:



Collaboration diagram for rapp_news_explorer.event_registry_engine.EventRegistryEngine:



Public Member Functions

def __init__

Constructor.

· def fetch news

Fetch the news.

Private Attributes

- _event_handler
- _max_requests
- _max_stories
- _password
- _username

Additional Inherited Members

6.13.1 Detailed Description

EventRegistry news engine hndler.

Definition at line 32 of file event_registry_engine.py.

6.13.2 Constructor & Destructor Documentation

6.13.2.1 def rapp_news_explorer.event_registry_engine.EventRegistryEngine.__init__ (self)

Constructor.

Definition at line 35 of file event_registry_engine.py.

6.13.3 Member Function Documentation

6.13.3.1 def rapp_news_explorer.event_registry_engine.EventRegistryEngine.fetch_news (self, req)

Fetch the news.

Parameters

req [rapp_platform_ros_communications::NewsExplorer::NewsExplorerSrv] The service request

Returns

[list<dict>] The server results containing the stories

Definition at line 62 of file event_registry_engine.py.

6.13.4 Member Data Documentation

6.13.4.1 rapp_news_explorer.event_registry_engine.EventRegistryEngine._event_handler [private]

Definition at line 37 of file event_registry_engine.py.

6.13.4.2 rapp_news_explorer.event_registry_engine.EventRegistryEngine._max_requests [private]

Definition at line 52 of file event_registry_engine.py.

6.13.4.3 rapp_news_explorer.event_registry_engine.EventRegistryEngine._max_stories [private]

Definition at line 53 of file event registry engine.py.

6.13.4.4 rapp_news_explorer.event_registry_engine.EventRegistryEngine._password [private]

Definition at line 45 of file event_registry_engine.py.

6.13.4.5 rapp_news_explorer.event_registry_engine.EventRegistryEngine._username [private]

Definition at line 44 of file event_registry_engine.py.

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

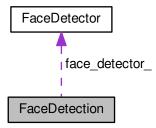
/home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/event_registry_engine.py

6.14 FaceDetection Class Reference

Class FaceDetection uptakes the task of handling the ROS service callbacks.

#include <face_detection.h>

Collaboration diagram for FaceDetection:



Public Member Functions

• FaceDetection (void)

Default constructor.

• bool faceDetectionCallback (rapp_platform_ros_communications::FaceDetectionRosSrv::Request &req, rapp_platform_ros_communications::FaceDetectionRosSrv::Response &res)

Serves the face detection ROS service callback.

Private Attributes

- FaceDetector face detector
- ros::ServiceServer faceDetectionService_
- std::string faceDetectionTopic_
- ros::NodeHandle nh_

6.14.1 Detailed Description

Class FaceDetection uptakes the task of handling the ROS service callbacks.

Definition at line 31 of file face detection.h.

6.14.2 Constructor & Destructor Documentation

6.14.2.1 FaceDetection::FaceDetection (void)

Default constructor.

Default constructor. Performs initializations.

Definition at line 24 of file face_detection.cpp.

6.14.3 Member Function Documentation

6.14.3.1 bool FaceDetection::faceDetectionCallback (rapp_platform_ros_communications::FaceDetectionRosSrv::Request & req, rapp_platform_ros_communications::FaceDetectionRosSrv::Response & res)

Serves the face detection ROS service callback.

Parameters

req	[rapp_platform_ros_communications::FaceDetectionRosSrv::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::FaceDetectionRosSrv::Response&] The ROS service
	response

Returns

bool - The success status of the call

Definition at line 42 of file face_detection.cpp.

6.14.4 Member Data Documentation

6.14.4.1 FaceDetector FaceDetection::face_detector_ [private]

Definition at line 62 of file face detection.h.

6.14.4.2 ros::ServiceServer FaceDetection::faceDetectionService_ [private]

Member variable holding the face detection ROS service topic

Definition at line 56 of file face detection.h.

6.14.4.3 std::string FaceDetection::faceDetectionTopic [private]

Object of type FaceDetector

Definition at line 59 of file face detection.h.

6.14.4.4 ros::NodeHandle FaceDetection::nh [private]

< The ROS node handle The face detection service server

Definition at line 53 of file face_detection.h.

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

- /home/travis/rapp_temp/rapp-platform/rapp_face_detection/include/face_detection/face_detection.h
- /home/travis/rapp_temp/rapp-platform/rapp_face_detection/src/face_detection.cpp

6.15 FaceDetector Class Reference

Class that implements a face detection algorithm based on a Haar cascade classifier.

```
#include <face_detector.h>
```

Public Member Functions

· FaceDetector (void)

Default constructor.

std::vector < cv::Rect > detectFaces (const cv::Mat &input_img, bool fast=false)

Detects faces from a cv::Mat.

std::vector< cv::Rect > findFaces (std::string file_name, bool fast=false)

Finds faces in an image retrieved from a file URL.

cv::Mat loadImage (std::string file_name)

Loads an image from a file URL.

Private Member Functions

- std::vector < cv::Rect > detectFaces (const cv::Mat &input_img, const std::string &haar_path)
 Detects faces from a cv::Mat.
- std::vector< cv::Rect > identifyUniqueFaces (const std::vector< cv::Rect > firstFaceVector, const std::vector< cv::Rect > secondFaceVector)

Identify unique faces from two sets of faces.

6.15.1 Detailed Description

Class that implements a face detection algorithm based on a Haar cascade classifier.

Definition at line 33 of file face_detector.h.

6.15.2 Constructor & Destructor Documentation

6.15.2.1 FaceDetector::FaceDetector (void)

Default constructor.

Definition at line 26 of file face_detector.cpp.

6.15.3 Member Function Documentation

6.15.3.1 std::vector < cv::Rect > FaceDetector::detectFaces (const cv::Mat & input_img, bool fast = false)

Detects faces from a cv::Mat.

Parameters

input_img	[const cv::Mat&] The input image
fast	[bool] True for fast detection – frontal only

Returns

[std::vector<cv::Rect>] A vector containing the detected faces. Each face is represented by a rectangle.

Definition at line 50 of file face detector.cpp.

6.15.3.2 std::vector < cv::Rect > FaceDetector::detectFaces (const cv::Mat & input_img, const std::string & haar_path)

[private]

Detects faces from a cv::Mat.

Parameters

input_img	[const cv::Mat&] The input image
haar_path	[const std::string] The Haar training model path

Returns

[std::vector<cv::Rect>] A vector containing the detected faces. Each face is represented by a rectangle.

Definition at line 89 of file face_detector.cpp.

6.15.3.3 std::vector < cv::Rect > FaceDetector::findFaces (std::string file_name, bool fast = false)

Finds faces in an image retrieved from a file URL.

Parameters

file_name	[std::string] The image file's URL
fast	[bool] True for fast detection – frontal only

Returns

[std::vector<cv::Rect>] A vector containing the detected faces. Each face is represented by a rectangle.

Definition at line 168 of file face_detector.cpp.

6.15.3.4 std::vector < cv::Rect > FaceDetector::identifyUniqueFaces (const std::vector < cv::Rect > firstFaceVector, const std::vector < cv::Rect > secondFaceVector) [private]

Identify unique faces from two sets of faces.

Parameters

frontFaceVector	[const std::vector <cv::rect>&] The first set of faces</cv::rect>
secondFace-	[const std::vector <cv::rect>&] The second set of faces</cv::rect>
Vector	

Returns

[std::vector<cv::Rect>] A vector containing the unique faces. Each face is represented by a rectangle.

Definition at line 140 of file face_detector.cpp.

6.15.3.5 cv::Mat FaceDetector::loadImage (std::string file_name)

Loads an image from a file URL.

Parameters

file_name	[std::string] The image's file URL

Returns

[cv::Mat] The image in OpenCV representation

Definition at line 35 of file face_detector.cpp.

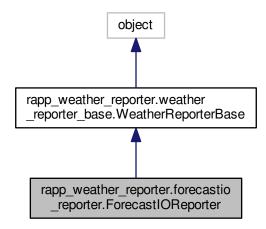
The documentation for this class was generated from the following files:

- /home/travis/rapp_temp/rapp-platform/rapp_face_detection/include/face_detection/face_detector.h
- /home/travis/rapp_temp/rapp-platform/rapp_face_detection/src/face_detector.cpp

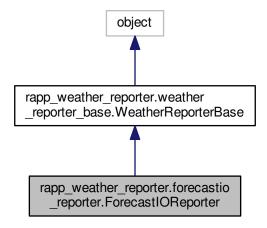
6.16 rapp_weather_reporter.forecastio_reporter.ForecastIOReporter Class Reference

ForecastIO weather reporter.

 $Inheritance\ diagram\ for\ rapp_weather_reporter. for ecastio_reporter. For ecast IOR eporter:$



Collaboration diagram for rapp_weather_reporter.forecastio_reporter.ForecastIOReporter:



Public Member Functions

def __init__

Constructor.

def fetch_current_weather

Fetch the current weather.

def fetch_weather_forecast

Fetch the current weather.

Private Member Functions

· def _get_fio_object

Perfom request for weather data.

• def _handle_current_weather_report

Handles the server's response.

· def _handle_weather_forecast_report

Private Attributes

_api_key

Additional Inherited Members

6.16.1 Detailed Description

ForecastIO weather reporter.

Definition at line 34 of file forecastio_reporter.py.

6.16.2 Constructor & Destructor Documentation

6.16.2.1 def rapp_weather_reporter.forecastio_reporter.ForecastIOReporter.__init__ (self)

Constructor.

Definition at line 37 of file forecastio_reporter.py.

6.16.3 Member Function Documentation

```
6.16.3.1 def rapp_weather_reporter.forecastio_reporter.ForecastlOReporter._get_fio_object ( self, city, metric ) [private]
```

Perfom request for weather data.

Parameters

city	[string] The city name

Returns

fio [object] The weather report object

Definition at line 49 of file forecastio_reporter.py.

6.16.3.2 def rapp_weather_reporter.forecastio_reporter.ForecastIOReporter._handle_current_weather_report (*self, report*) [private]

Handles the server's response.

Parameters

response	[] The server's response to the request module.

Returns

values [dict] The final values

Definition at line 100 of file forecastio_reporter.py.

6.16.3.3 def rapp_weather_reporter.forecastio_reporter.ForecastIOReporter._handle_weather_forecast_report (*self, report*) [private]

Definition at line 115 of file forecastio_reporter.py.

6.16.3.4 def rapp_weather_reporter.forecastio_reporter.ForecastIOReporter.fetch_current_weather (self, req)

Fetch the current weather.

Parameters

req	[rapp_platform_ros_communications::WeatherReporter::WeatherReporterCurrentSrv]	The
	service request	

Returns

[dict] The server results

Definition at line 72 of file forecastio reporter.py.

6.16.3.5 def rapp_weather_reporter.forecastio_reporter.ForecastIOReporter.fetch_weather_forecast (self, req)

Fetch the current weather.

Parameters

req	[rapp_platform_ros_communications::WeatherReporter::WeatherReporterCurrentSrv]	The
	service request	

Returns

[dict] The server results

Definition at line 87 of file forecastio_reporter.py.

6.16.4 Member Data Documentation

6.16.4.1 rapp_weather_reporter.forecastio_reporter.ForecastlOReporter._api_key [private]

Definition at line 42 of file forecastio_reporter.py.

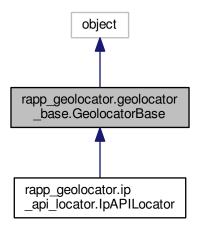
The documentation for this class was generated from the following file:

 /home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/forecastio_reporter.py

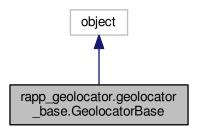
6.17 rapp_geolocator.geolocator_base.GeolocatorBase Class Reference

Base class for geolocators.

Inheritance diagram for rapp_geolocator.geolocator_base.GeolocatorBase:



Collaboration diagram for rapp_geolocator.geolocator_base.GeolocatorBase:



Public Member Functions

• def __init_

Constructor.

def fetch_geolocation

Abstract method to fetch geolocation.

Public Attributes

• rapp_http_json_parser

Strips html tags from strings.

Private Attributes

_accepted_status

The value of valid response status code.

_http_request

Perform http requests to servers.

url

The base geolocator url.

Static Private Attributes

• __metaclass__ = abc.ABCMeta

6.17.1 Detailed Description

Base class for geolocators.

Definition at line 32 of file geolocator_base.py.

6.17.2 Constructor & Destructor Documentation

6.17.2.1 def rapp_geolocator.geolocator_base.GeolocatorBase.__init__ (self)

Constructor.

Definition at line 37 of file geolocator base.py.

6.17.3 Member Function Documentation

6.17.3.1 def rapp_geolocator.geolocator_base.GeolocatorBase.fetch_geolocation (self, req)

Abstract method to fetch geolocation.

Definition at line 52 of file geolocator_base.py.

6.17.4 Member Data Documentation

6.17.4.1 rapp_geolocator.geolocator_base.GeolocatorBase.__metaclass__ = abc.ABCMeta [static], [private]

Definition at line 34 of file geolocator_base.py.

6.17.4.2 rapp_geolocator.geolocator_base.GeolocatorBase._accepted_status [private]

The value of valid response status code.

Definition at line 42 of file geolocator_base.py.

6.17.4.3 rapp_geolocator.geolocator_base.GeolocatorBase._http_request [private]

Perform http requests to servers.

Definition at line 45 of file geolocator_base.py.

6.17.4.4 rapp_geolocator.geolocator_base.GeolocatorBase._url [private]

The base geolocator url.

Definition at line 39 of file geolocator_base.py.

6.17.4.5 rapp_geolocator.geolocator_base.GeolocatorBase.rapp_http_json_parser

Strips html tags from strings.

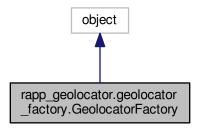
Definition at line 48 of file geolocator_base.py.

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

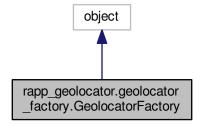
• /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator_base.py

6.18 rapp_geolocator.geolocator_factory.GeolocatorFactory Class Reference

Inheritance diagram for rapp_geolocator.geolocator_factory.GeolocatorFactory:



Collaboration diagram for rapp_geolocator.geolocator_factory.GeolocatorFactory:



Public Member Functions

def select_geolocator

Select proper geolocator according to request.

6.18.1 Detailed Description

Definition at line 30 of file geolocator_factory.py.

6.18.2 Member Function Documentation

6.18.2.1 def rapp_geolocator.geolocator_factory.GeolocatorFactory.select_geolocator (self, geolocator = ")

Select proper geolocator according to request.

Parameters

geolocator	[string] The name of the geolocator

Returns

res [rapp_geolocator.rapp_geolocator.GeolocatorBase] The geolocator

RappError Wrong geolocator provided by user

Definition at line 41 of file geolocator_factory.py.

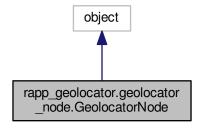
The documentation for this class was generated from the following file:

• /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator_factory.py

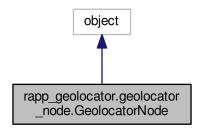
6.19 rapp_geolocator.geolocator_node.GeolocatorNode Class Reference

Calculates geolocation via IP.

Inheritance diagram for rapp_geolocator.geolocator_node.GeolocatorNode:



Collaboration diagram for rapp_geolocator.geolocator_node.GeolocatorNode:



Public Member Functions

def __init__

Constructor.

· def fetch_location_srv_callback

The callback to calculate geolocation.

Private Member Functions

def _create_service_response
 The callback to geolocalize.

Private Attributes

_geolocator_factory

Factory that returns proper geolocator.

6.19.1 Detailed Description

Calculates geolocation via IP.

Definition at line 36 of file geolocator_node.py.

6.19.2 Constructor & Destructor Documentation

6.19.2.1 def rapp_geolocator.geolocator_node.GeolocatorNode.__init__ (self)

Constructor.

Definition at line 39 of file geolocator_node.py.

6.19.3 Member Function Documentation

6.19.3.1 def rapp_geolocator.geolocator_node.GeolocatorNode._create_service_response(self, result) [private]

The callback to geolocalize.

Parameters

results [dict] The server results containing the location information

Returns

res [rapp_platform_ros_communications::Geolocator::GeolocatorSrvResponse] The service response

Definition at line 88 of file geolocator_node.py.

6.19.3.2 def rapp_geolocator.geolocator_node.GeolocatorNode.fetch_location_srv_callback (self, req)

The callback to calculate geolocation.

Parameters

req	[rapp_platform_ros_communications::Geolocator::GeolocatorSrv] The service request
-----	---

Returns

res [rapp_platform_ros_communications::Geolocator::GeolocatorSrvResponse] The service response

Definition at line 63 of file geolocator_node.py.

6.19.4 Member Data Documentation

6.19.4.1 rapp_geolocator.geolocator_node.GeolocatorNode._geolocator_factory [private]

Factory that returns proper geolocator.

Definition at line 41 of file geolocator_node.py.

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

• /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator_node.py

6.20 rapp_speech_detection_sphinx4.global_parameters.GlobalParams Class Reference

Contains global Sphinx parameters.

Public Member Functions

def __init__

Public Attributes

· rospack

Private Attributes

_acoustic_models_url

Acoustic models path.

• _allow_sphinx_output

True if Sphinx is allowed output on STDIN, STDERR.

_language_models_url

Language models path.

_noise_profiles_url

Noise profiles path.

_socket_host

IPC socket HOST parameter.

_sphinx_jar_file

Sphinx jar file path.

· _sphinx_jar_files_url

Java libraries path.

• _sphinx_package_url

Sphinx package path.

_sphinx_preconf

Sphinx preconfigurations yaml.

• _tmp_language_models_url

Temporary language models path.

6.20.1 Detailed Description

Contains global Sphinx parameters.

Definition at line 22 of file global parameters.py.

6.20.2 Constructor & Destructor Documentation

6.20.2.1 def rapp_speech_detection_sphinx4.global_parameters.GlobalParams.__init__(self)

Definition at line 23 of file global_parameters.py.

6.20.3 Member Data Documentation

6.20.3.1 rapp_speech_detection_sphinx4.global_parameters.GlobalParams._acoustic_models_url [private]

Acoustic models path.

Definition at line 38 of file global parameters.py.

6.20.3.2 rapp_speech_detection_sphinx4.global_parameters.GlobalParams._allow_sphinx_output [private]

True if Sphinx is allowed output on STDIN, STDERR.

Definition at line 43 of file global_parameters.py.

6.20.3.3 rapp_speech_detection_sphinx4.global_parameters.GlobalParams._language_models_url [private]

Language models path.

Definition at line 31 of file global_parameters.py.

6.20.3.4 rapp_speech_detection_sphinx4.global_parameters.GlobalParams._noise_profiles_url [private]

Noise profiles path.

Definition at line 36 of file global_parameters.py.

6.20.3.5 rapp_speech_detection_sphinx4.global_parameters.GlobalParams._socket_host [private]

IPC socket HOST parameter.

Definition at line 45 of file global_parameters.py.

6.20.3.6 rapp_speech_detection_sphinx4.global_parameters.GlobalParams._sphinx_jar_file [private]

Sphinx jar file path.

Definition at line 41 of file global_parameters.py.

6.20.3.7 rapp_speech_detection_sphinx4.global_parameters.GlobalParams._sphinx_jar_files_url [private]

Java libraries path.

Definition at line 27 of file global_parameters.py.

6.20.3.8 rapp_speech_detection_sphinx4.global_parameters.GlobalParams._sphinx_package_url [private]

Sphinx package path.

Definition at line 29 of file global_parameters.py.

6.20.3.9 rapp_speech_detection_sphinx4.global_parameters.GlobalParams._sphinx_preconf [private]

Sphinx preconfigurations yaml.

Definition at line 47 of file global parameters.py.

 $\textbf{6.20.3.10} \quad \textbf{rapp_speech_detection_sphinx4.global_parameters.GlobalParams_tmp_language_models_url} \quad \texttt{[private]}$

Temporary language models path.

Definition at line 33 of file global_parameters.py.

6.20.3.11 rapp_speech_detection_sphinx4.global_parameters.GlobalParams.rospack

Definition at line 24 of file global_parameters.py.

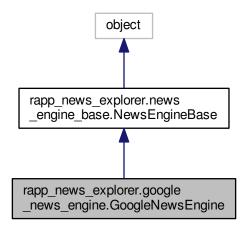
The documentation for this class was generated from the following file:

/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/global_parameters.py

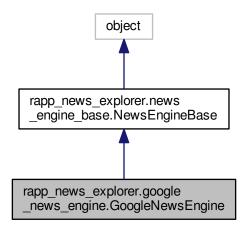
6.21 rapp_news_explorer.google_news_engine.GoogleNewsEngine Class Reference

Google news engine hndler.

Inheritance diagram for rapp_news_explorer.google_news_engine.GoogleNewsEngine:



Collaboration diagram for rapp_news_explorer.google_news_engine.GoogleNewsEngine:



Public Member Functions

• def __init__

Constructor.

· def fetch_news

Fetch the news.

Private Member Functions

· def handle params

Create parameter dictionary for request module.

· def handle server response

Handles the server's response.

Private Attributes

- _max_requests
- _max_stories
- _params
- _url

Additional Inherited Members

6.21.1 Detailed Description

Google news engine hndler.

Definition at line 30 of file google_news_engine.py.

6.21.2 Constructor & Destructor Documentation

6.21.2.1 def rapp_news_explorer.google_news_engine.GoogleNewsEngine.__init__ (self)

Constructor.

Definition at line 33 of file google_news_engine.py.

6.21.3 Member Function Documentation

 $\textbf{6.21.3.1} \quad \textbf{def rapp_news_explorer.google_news_engine.GoogleNewsEngine_handle_params (} \quad \textbf{\textit{self, req, iters}}) \\ \quad [\texttt{private}]$

Create parameter dictionary for request module.

Parameters

req [rapp platform ros communications::NewsExplorer::NewsExplorerSrv] The service request

Returns

params [dict] The parameters

Definition at line 144 of file google_news_engine.py.

6.21.3.2 def rapp_news_explorer.google_news_engine.GoogleNewsEngine._handle_server_response (self, response, story_list, exclude_list) [private]

Handles the server's response.

Parameters

response	[] The server's response to the request module.
story_list	[string] The current list of stories
exclude_list	[string] The list of titles to be excluded from the results

Definition at line 115 of file google_news_engine.py.

6.21.3.3 def rapp_news_explorer.google_news_engine.GoogleNewsEngine.fetch_news (self, req)

Fetch the news.

Parameters

req	[rapp_platform_ros_communications::NewsExplorer::NewsExplorerSrv] The service request
-----	---

Returns

[list<dict>] The server results containing the stories

Definition at line 52 of file google_news_engine.py.

6.21.4 Member Data Documentation

6.21.4.1 rapp_news_explorer.google_news_engine.GoogleNewsEngine._max_requests [private]

Definition at line 42 of file google_news_engine.py.

6.21.4.2 rapp_news_explorer.google_news_engine.GoogleNewsEngine._max_stories [private]

Definition at line 43 of file google_news_engine.py.

6.21.4.3 rapp_news_explorer.google_news_engine.GoogleNewsEngine._params [private]

Definition at line 38 of file google_news_engine.py.

6.21.4.4 rapp_news_explorer.google_news_engine.GoogleNewsEngine._url [private]

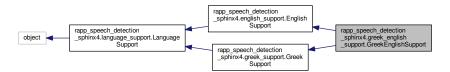
Definition at line 35 of file google_news_engine.py.

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

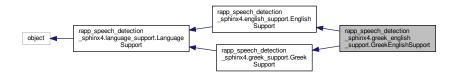
/home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/google_news_engine.py

6.22 rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport Class Reference

 $Inheritance\ diagram\ for\ rapp_speech_detection_sphinx 4. greek_english_support. Greek English Support and the support of t$



Collaboration diagram for rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport:



Public Member Functions

def init

Performs initializations.

• def getLimitedVocebularyConfiguration

Computes the Limited Greek/English Configuration.

Private Member Functions

• def _separateEngGrWords

Separates English from Greek words.

6.22.1 Detailed Description

Definition at line 32 of file greek_english_support.py.

6.22.2 Constructor & Destructor Documentation

6.22.2.1 def rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport.__init__ (self)

Performs initializations.

Definition at line 35 of file greek_english_support.py.

6.22.3 Member Function Documentation

6.22.3.1 def rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport._separateEngGrWords (self, words, grammar, sentences) [private]

Separates English from Greek words.

Parameters

words	[list::string] The set of words to be identified
grammar	[list::string] The Sphinx grammar parameter
sentences	[list::string] The Sphinx sentences parameter

Returns

english_words [list::string] The set of English words english_grammar [list::string] The set of English grammar english_sentences [list::string] The set of English sentences greek_words [list::string] The set of Greek words greek_grammar [list::string] The set of Greek words greek_sentences [list::string] The set of Greek words

Definition at line 59 of file greek_english_support.py.

6.22.3.2 def rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport.getLimitedVocebularyConfiguration (self, words, grammar, sentences)

Computes the Limited Greek/English Configuration.

Parameters

words	[list::string] The set of words to be identified
grammar	[list::string] The Sphinx grammar parameter
sentences	[list::string] The Sphinx sentences parameter

Returns

limited_sphinx_configuration [dictionary] The Limited Greek/English configuration englified_to_greek_dict [dictionary] A dictionary to transform the englified greek words to actual greek words

Definition at line 103 of file greek_english_support.py.

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

 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/greek-_english_support.py

6.23 GreekSupport Class Reference

Allows the creation of configuration files for Greek Sphinx speech recognition.

6.23.1 Detailed Description

Allows the creation of configuration files for Greek Sphinx speech recognition.

Also supports multilanguage words (English/Greek) by utilizing english_support.EnglishSupport

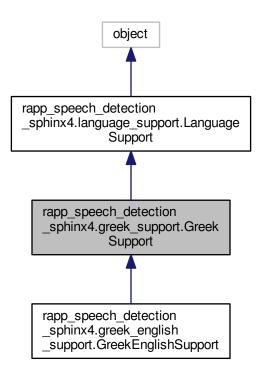
The documentation for this class was generated from the following file:

 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/greek-_english_support.py

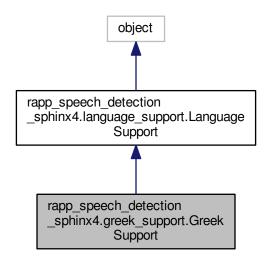
6.24 rapp_speech_detection_sphinx4.greek_support.GreekSupport Class Reference

Allows the creation of configuration files for Greek Sphinx speech recognition.

Inheritance diagram for rapp_speech_detection_sphinx4.greek_support.GreekSupport:



Collaboration diagram for rapp_speech_detection_sphinx4.greek_support.GreekSupport:



Public Member Functions

def init

Performs initializations.

• def getLimitedVocebularyConfiguration

Computes the Limited Greek Configuration.

Private Member Functions

• def _configureLetters

Creates the basic Greek letter to English configuration.

· def _englify_words

Englify Greek words.

• def _transformWords

Transforms the Greek words into phonemes for the Sphinx configuration.

Private Attributes

• _all_special_two_digit_letters

All special two digit Greek letter-> English phonemes mapping.

• _capital_letters

Greek uppercase to lowercase mapping.

· _english_support

Allows the creation of configuration files for English words.

_letters

Standard Greek letter-> English phonemes mapping.

• _literal_letters

Greek letters->English letters mapping.

_phonemes

Greek words-> English standard phonemes mapping.

_s_specific_rules

Special Greek words -> English phonemes mapping.

_special_two_digit_letters

Special two digit Greek letter-> English phonemes mapping.

· _two_digit_letters

Two digit Greek letters->English phonemes mapping.

6.24.1 Detailed Description

Allows the creation of configuration files for Greek Sphinx speech recognition.

Also supports multilanguage words (English/Greek) by utilizing english_support.EnglishSupport

Definition at line 30 of file greek_support.py.

6.24.2 Constructor & Destructor Documentation

6.24.2.1 def rapp_speech_detection_sphinx4.greek_support.GreekSupport.__init__ (self)

Performs initializations.

Definition at line 33 of file greek_support.py.

6.24.3 Member Function Documentation

6.24.3.1 def rapp_speech_detection_sphinx4.greek_support.GreekSupport._configureLetters(self) [private]

Creates the basic Greek letter to English configuration.

Definition at line 69 of file greek_support.py.

6.24.3.2 def rapp_speech_detection_sphinx4.greek_support.GreekSupport.englify_words(self, words) [private]

Englify Greek words.

Parameters

words [list::string] The set of Greek words

Definition at line 308 of file greek_support.py.

6.24.3.3 def rapp_speech_detection_sphinx4.greek_support.GreekSupport.transformWords (self, words) [private]

Transforms the Greek words into phonemes for the Sphinx configuration.

Parameters

words [list::string] The set of Greek words

Returns

enhanced_words [dictionary] The Greek word->phonemes mapping englified_words [dictionary] The Greek word->Englified Greek word mapping

Definition at line 259 of file greek_support.py.

6.24.3.4 def rapp_speech_detection_sphinx4.greek_support.GreekSupport.getLimitedVocebularyConfiguration (self, words, grammar, sentences)

Computes the Limited Greek Configuration.

Parameters

words	[list::string] The set of words to be identified
grammar	[list::string] The Sphinx grammar parameter
sentences	[list::string] The Sphinx sentences parameter

Returns

limited_sphinx_configuration [dictionary] The Limited Greek configuration englified_to_greek_dict [dictionary] A dictionary to transform the englified greek words to actual greek words

Definition at line 329 of file greek support.py.

6.24.4 Member Data Documentation

6.24.4.1 rapp_speech_detection_sphinx4.greek_support.GreekSupport._all_special_two_digit_letters [private]

All special two digit Greek letter->English phonemes mapping.

Definition at line 58 of file greek support.py.

6.24.4.2 rapp_speech_detection_sphinx4.greek_support.GreekSupport._capital_letters [private]

Greek uppercase to lowercase mapping.

Definition at line 50 of file greek_support.py.

6.24.4.3 rapp_speech_detection_sphinx4.greek_support.GreekSupport.english_support [private]

Allows the creation of configuration files for English words.

Instantiates english_support.EnglishSupport to identify english words

Definition at line 47 of file greek_support.py.

6.24.4.4 rapp_speech_detection_sphinx4.greek_support.GreekSupport._letters [private]

Standard Greek letter->English phonemes mapping.

Definition at line 62 of file greek_support.py.

6.24.4.5 rapp_speech_detection_sphinx4.greek_support.GreekSupport._literal_letters [private]

Greek letters->English letters mapping.

Definition at line 64 of file greek support.py.

6.24.4.6 rapp_speech_detection_sphinx4.greek_support.GreekSupport.phonemes [private]

Greek words->English standard phonemes mapping.

Definition at line 52 of file greek_support.py.

6.24.4.7 rapp_speech_detection_sphinx4.greek_support.GreekSupport._s_specific_rules [private]

Special Greek words -> English phonemes mapping.

Definition at line 60 of file greek_support.py.

6.24.4.8 rapp_speech_detection_sphinx4.greek_support.GreekSupport._special_two_digit_letters [private]

Special two digit Greek letter->English phonemes mapping.

Definition at line 56 of file greek support.py.

6.24.4.9 rapp_speech_detection_sphinx4.greek_support.GreekSupport._two_digit_letters [private]

Two digit Greek letters->English phonemes mapping.

Definition at line 54 of file greek_support.py.

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

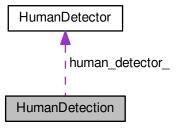
 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/greek-_support.py

6.25 Human Detection Class Reference

Class HumanDetection uptakes the task of handling the ROS service callbacks.

#include <human_detection.h>

Collaboration diagram for HumanDetection:



Public Member Functions

• HumanDetection (void)

Default constructor.

• bool humanDetectionCallback (rapp_platform_ros_communications::HumanDetectionRosSrv::Request &req, rapp_platform_ros_communications::HumanDetectionRosSrv::Response &res)

Serves the human detection ROS service callback.

Private Attributes

- HumanDetector human_detector_
- ros::ServiceServer humanDetectionService_
- std::string humanDetectionTopic_
- ros::NodeHandle nh

6.25.1 Detailed Description

Class HumanDetection uptakes the task of handling the ROS service callbacks.

Definition at line 31 of file human_detection.h.

6.25.2 Constructor & Destructor Documentation

```
6.25.2.1 HumanDetection::HumanDetection (void)
```

Default constructor.

Default constructor. Performs initializations.

Definition at line 24 of file human detection.cpp.

6.25.3 Member Function Documentation

6.25.3.1 bool HumanDetection::humanDetectionCallback (rapp_platform_ros_communications::HumanDetectionRosSrv::Response & res)

Serves the human detection ROS service callback.

Parameters

req	[rapp_platform_ros_communications::HumanDetectionRosSrv::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::HumanDetectionRosSrv::Response&] The ROS ser-
	vice response

Returns

bool - The success status of the call

Definition at line 42 of file human_detection.cpp.

6.25.4 Member Data Documentation

6.25.4.1 HumanDetector HumanDetection::human_detector_ [private]

Definition at line 62 of file human_detection.h.

6.25.4.2 ros::ServiceServer HumanDetection::humanDetectionService_ [private]

Member variable holding the human detection ROS service topic

Definition at line 56 of file human_detection.h.

6.25.4.3 std::string HumanDetection::humanDetectionTopic_ [private]

Object of type HumanDetector

Definition at line 59 of file human_detection.h.

6.25.4.4 ros::NodeHandle HumanDetection::nh_ [private]

< The ROS node handle The human detection service server

Definition at line 53 of file human detection.h.

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

- /home/travis/rapp_temp/rapp-platform/rapp_human_detection/include/human_detection/human_detection.h
- /home/travis/rapp temp/rapp-platform/rapp human detection/src/human detection.cpp

6.26 HumanDetector Class Reference

Class that implements a human detection algorithm based on a Haar cascade classifier.

```
#include <human_detector.h>
```

Public Member Functions

• HumanDetector (void)

Default constructor.

std::vector < cv::Rect > detectHuman2D (const cv::Mat &input_img)

Detects humans from a cv::Mat.

std::vector< cv::Rect > findHuman2D (std::string file_name)

Finds humans in an image retrieved from a file URL.

cv::Mat loadImage (std::string file_name)

Loads an image from a file URL.

Private Member Functions

- std::vector < cv::Rect > detectHuman2D (const cv::Mat &input_img, const std::string &haar_path)
 Detects humans from a cv::Mat.
- std::vector< cv::Rect > identifyUniqueHumans (const std::vector< cv::Rect > pedestrianVector, const std::vector< cv::Rect > upperbodyVector)

Identify unique humans from two sets of humans.

6.26.1 Detailed Description

Class that implements a human detection algorithm based on a Haar cascade classifier.

Definition at line 35 of file human_detector.h.

6.26.2 Constructor & Destructor Documentation

6.26.2.1 HumanDetector::HumanDetector (void)

Default constructor.

Definition at line 23 of file human_detector.cpp.

6.26.3 Member Function Documentation

 $6.26.3.1 \quad std:: vector < cv:: Rect > HumanDetector:: detectHuman2D \ (\ const \ cv:: Mat \ \& \ input_img \)$

Detects humans from a cv::Mat.

Parameters

input_img	[const cv::Mat&] The input image
-----------	----------------------------------

Returns

[std::vector<cv::Rect>] A vector containing the detected humans. Each human is represented by a rectangle.

Definition at line 46 of file human_detector.cpp.

6.26.3.2 std::vector < cv::Rect > HumanDetector::detectHuman2D (const cv::Mat & input_img, const std::string & haar_path) [private]

Detects humans from a cv::Mat.

Parameters

input_img	[const cv::Mat&] The input image
haar_path	[const std::string] The Haar training model path

Returns

[std::vector<cv::Rect>] A vector containing the detected humans. Each human is represented by a rectangle.

Definition at line 80 of file human_detector.cpp.

6.26.3.3 std::vector < cv::Rect > HumanDetector::findHuman2D (std::string file_name)

Finds humans in an image retrieved from a file URL.

Parameters

file_name	[std::string] The image file's URL

Returns

[std::vector<cv::Rect>] A vector containing the detected humans. Each human is represented by a rectangle.

Definition at line 166 of file human_detector.cpp.

6.26.3.4 std::vector< cv::Rect > HumanDetector::identifyUniqueHumans (const std::vector< cv::Rect > pedestrianVector, const std::vector< cv::Rect > upperbodyVector) [private]

Identify unique humans from two sets of humans.

Parameters

pedestrianVector	[const std::vector <cv::rect>&] The first set of humans</cv::rect>
upperbodyVector	[const std::vector <cv::rect>&] The second set of humans</cv::rect>

Returns

[std::vector<cv::Rect>] A vector containing the unique humans. Each human is represented by a rectangle.

Definition at line 139 of file human_detector.cpp.

6.26.3.5 cv::Mat HumanDetector::loadImage (std::string file_name)

Loads an image from a file URL.

Parameters

file_name	[std::string] The image's file URL

Returns

[cv::Mat] The image in OpenCV representation

Definition at line 32 of file human_detector.cpp.

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

- /home/travis/rapp_temp/rapp-platform/rapp_human_detection/include/human_detection/human_detector.h
- /home/travis/rapp_temp/rapp-platform/rapp_human_detection/src/human_detector.cpp

6.27 image_classification.lmageClassification Class Reference

Contains the necessary functions for classifying an images and requesting registration to the ontology.

Public Member Functions

def init

Initializes Caffe.

· def classifyImage

Implements the imageClassificationSrv service main function.

def getImageClass

Obtains the name of the class of the image from the caffe image classes file.

· def getOntologyClass

Calls the caffe wrapper service that registers the image to the ontology.

def registerToOntology

Calls the caffe wrapper service that registers the image to the ontology.

Public Attributes

- · caffe root
- · labels
- net
- transformer

6.27.1 Detailed Description

Contains the necessary functions for classifying an images and requesting registration to the ontology. Definition at line 46 of file image_classification.py.

6.27.2 Constructor & Destructor Documentation

6.27.2.1 def image_classification.lmageClassification.__init__ (self)

Initializes Caffe.

Definition at line 49 of file image_classification.py.

6.27.3 Member Function Documentation

 $6.27.3.1 \quad def \ image_classification. ImageClassification. classify Image \left(\ \textit{self, req} \ \right)$

 $Implements\ the\ image Classification Srv\ service\ main\ function.$

Parameters

req	[rapp_platform_ros_communications::imageClassificationSrvRequest::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::imageClassificationSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	AppError
Exception	KeyError

Definition at line 86 of file image_classification.py.

6.27.3.2 def image_classification.lmageClassification.getImageClass (self, req)

Obtains the name of the class of the image from the caffe image classes file.

Parameters

req	[rapp_platform_ros_communications::ontologyClassBridgeSrvRequest::Request&] The ROS
	service request

Returns

res [string] The class of the image

Definition at line 163 of file image_classification.py.

6.27.3.3 def image_classification.lmageClassification.getOntologyClass (self, caffeObjectClass)

Calls the caffe wrapper service that registers the image to the ontology.

Parameters

caffeObjectClass	[string] The caffe object class

Returns

ontologyClassBridgeResponse.ontologyClass [string] The ontology class of the image

Exceptions

Exception	AppError

Definition at line 124 of file image_classification.py.

6.27.3.4 def image_classification.lmageClassification.registerToOntology (self, req, caffeObjectClass, ontologyClass, currentImagePath)

Calls the caffe wrapper service that registers the image to the ontology.

Parameters

req	[rapp_platform_ros_communications::ontologyClassBridgeSrvRequest::Request&] The ROS
	service request
caffeObjectClass	[string] The caffe object class
ontologyClass	[string] The ontology object class
currentImage-	[string] The path of the image file
Path	

Returns

registerImageToOntologyResponse.object_entry [string] The ontology entry of the image

Exceptions

Exception	AppError

Definition at line 145 of file image classification.py.

6.27.4 Member Data Documentation

6.27.4.1 image_classification.lmageClassification.caffe_root

Definition at line 50 of file image_classification.py.

 $6.27.4.2 \quad image_classification.lmageClassification.labels$

Definition at line 76 of file image_classification.py.

6.27.4.3 image_classification.lmageClassification.net

Definition at line 60 of file image_classification.py.

6.27.4.4 image_classification.lmageClassification.transformer

Definition at line 66 of file image_classification.py.

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

• /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/image_classification.py

6.28 image_registration_to_ontology.lmageRegistrationToOntology Class Reference

Contains the necessary functions for registering images to the ontology.

Public Member Functions

• def getUserOntologyAlias

Gets the users ontology alias and if it doesnt exist it creates it.

· def registerImage

 ${\it Implements the getCloudAgentServiceTypeAndHostPort service \ main \ function}.$

def registerImageToOntology

Calls the knowrob_wrapper service that registers the image to the ontology.

6.28.1 Detailed Description

Contains the necessary functions for registering images to the ontology.

Definition at line 44 of file image_registration_to_ontology.py.

6.28.2 Member Function Documentation

6.28.2.1 def image_registration_to_ontology.ImageRegistrationToOntology.getUserOntologyAlias (self, username)

Gets the users ontology alias and if it doesnt exist it creates it.

Parameters

username	[string] The user's username

Returns

ontologyAlias [string] The user's ontology alias

Exceptions

Exception	AnnError
Exception	Appendi

Definition at line 93 of file image_registration_to_ontology.py.

6.28.2.2 def image_registration_to_ontology.ImageRegistrationToOntology.registerImage (self, reg)

Implements the getCloudAgentServiceTypeAndHostPort service main function.

Parameters

req	[rapp_platform_ros_communications::registerImageToOntologySrvRequest::Request&] The	1
	ROS service request	

Returns

res [rapp_platform_ros_communications::registerImageToOntologySrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	AppError
Exception	KeyError

Definition at line 54 of file image_registration_to_ontology.py.

6.28.2.3 def image_registration_to_ontology.lmageRegistrationToOntology.registerImageToOntology (self, req, baseDestinationFolder)

Calls the knowrob wrapper service that registers the image to the ontology.

Parameters

req	[rapp_platform_ros_communications::registerImageToOntologySrvRequest::Request&] The
	ROS service request
baseDestination-	[string] The path to the image
Folder	

Returns

registerImageObjectToOntologyResponse.object_entry [string] The ontology alias image entry

Exceptions

Exception	AppError

Definition at line 109 of file image_registration_to_ontology.py.

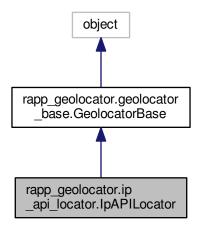
The documentation for this class was generated from the following file:

/home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/image_registration_to_ontology.py

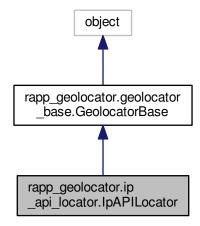
6.29 rapp_geolocator.ip_api_locator.lpAPILocator Class Reference

IP-API locator.

Inheritance diagram for rapp_geolocator.ip_api_locator.lpAPILocator:



Collaboration diagram for rapp_geolocator.ip_api_locator.lpAPILocator:



Public Member Functions

def __init__

Constructor.

def fetch_geolocation

Fetch the location.

Private Member Functions

• def _handle_server_response Handles the server's response.

Private Attributes

• _url

Additional Inherited Members

6.29.1 Detailed Description

IP-API locator.

Definition at line 30 of file ip_api_locator.py.

6.29.2 Constructor & Destructor Documentation

6.29.2.1 def rapp_geolocator.ip_api_locator.lpAPILocator.__init__ (self)

Constructor.

Definition at line 33 of file ip_api_locator.py.

6.29.3 Member Function Documentation

6.29.3.1 def rapp_geolocator.ip_api_locator.lpAPILocator._handle_server_response (self, response) [private]

Handles the server's response.

Parameters

response [] The server's response to the request module.

Returns

values [dict] The final values

Definition at line 74 of file ip_api_locator.py.

6.29.3.2 def rapp_geolocator.ip_api_locator.lpAPILocator.fetch_geolocation (self, req)

Fetch the location.

Parameters

req | [rapp_platform_ros_communications::Geolocator::GeolocatorSrv] The service request

Returns

[dict] The server results

Definition at line 44 of file ip_api_locator.py.

6.29.4 Member Data Documentation

6.29.4.1 rapp_geolocator.ip_api_locator.lpAPILocator._url [private]

Definition at line 35 of file ip_api_locator.py.

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

/home/travis/rapp temp/rapp-platform/rapp geolocator/src/rapp geolocator/ip api locator.py

6.30 IPLocatorFactory Class Reference

Creates and returns the class of the geolocator requested.

6.30.1 Detailed Description

Creates and returns the class of the geolocator requested.

Implements a factory pattern.

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

/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator_factory.py

6.31 KnowrobWrapper Class Reference

Class KnowrobWrapperCommunications contains all the necessary knowrob wrapper functions.

#include <knowrob_wrapper.h>

Public Member Functions

KnowrobWrapper (ros::NodeHandle nh)

Default constructor.

rapp_platform_ros_communications::assertRetractAttributeSrv::Response assertAttributeValue (rapp_platform_ros_communications::assertRetractAttributeSrv::Request req)

Implements the assertRetractAttribute ROS service.

rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Response clear_user_cognitive_tests_performance_records (rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Request req)

Implements the clear_user_cognitive_tests_performance_records ROS service.

rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Response cognitive_tests_of_type (rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Request req)

Implements the cognitive tests of type ROS service.

rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Response create_cognitve_tests
 (rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Request req)

Implements the create_cognitve_tests ROS service.

rapp_platform_ros_communications::createOntologyAliasSrv::Response create_ontology_alias (rapp_platform_ros_communications::createOntologyAliasSrv::Request req)

Implements the create_ontology_alias ROS service.

std::string create_ontology_alias_for_new_user (std::string user_id)

Creates a new ontology alias for a user.

rapp_platform_ros_communications::createInstanceSrv::Response createInstanceQuery (rapp_platform_-ros_communications::createInstanceSrv::Request req)

Implements the createInstance ROS service.

• void dump_ontology_now ()

Dumps the ontology to default path.

rapp_platform_ros_communications::ontologyLoadDumpSrv::Response dumpOntologyQuery (rapp_platform_ros_communications::ontologyLoadDumpSrv::Request req)

Implements the dumpOntology ROS service.

• std::string get_ontology_alias (std::string user_id)

Returns the ontology alias of the user.

 rapp_platform_ros_communications::ontologylsSubSuperClassOfSrv::Response isSubSuperclassOfQuery (rapp_platform_ros_communications::ontologylsSubSuperClassOfSrv::Request req)

Implements the isSubSuperclass ROS service.

rapp_platform_ros_communications::ontologyLoadDumpSrv::Response loadOntologyQuery (rapp_platform_ros_communications::ontologyLoadDumpSrv::Request req)

Implements the loadOntology ROS service.

rapp_platform_ros_communications::recordUserPerformanceCognitiveTestsSrv::Response record_user_cognitive_tests_performance (rapp_platform_ros_communications::recordUserPerformanceCognitiveTests-Srv::Request req)

Implements the record_user_cognitive_tests_performance ROS service.

rapp_platform_ros_communications::registerImageObjectToOntologySrv::Response register_image_object_to_ontology (rapp_platform_ros_communications::registerImageObjectToOntologySrv::Request req)

Implements the register_image_object_to_ontology ROS service.

rapp_platform_ros_communications::retractUserOntologyAliasSrv::Response retract_user_ontology_alias
 (rapp_platform_ros_communications::retractUserOntologyAliasSrv::Request req)

Implements the retract_user_ontology_alias ROS service.

rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response subclassesOfQuery (rapp-platform ros communications::ontologySubSuperClassesOfSrv::Request req)

Implements the subclassesOf ROS service.

 rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response superclassesOfQuery (rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Request req)

Implements the superclassesOf ROS service.

 rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Response user_instances_of_class (rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Request req)

Implements the returnUserInstancesOfClass ROS service.

rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Response user_performance_cognitve_tests (rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Request req)

Implements the user_performance_cognitve_tests ROS service.

Private Attributes

- ros::ServiceClient mysql_get_user_ontology_alias_client
- ros::ServiceClient mysql_register_user_ontology_alias_client
- ros::NodeHandle nh
- json_prolog::Prolog pl

6.31.1 Detailed Description

Class KnowrobWrapperCommunications contains all the necessary knowrob wrapper functions.

Definition at line 49 of file knowrob_wrapper.h.

6.31.2 Constructor & Destructor Documentation

6.31.2.1 KnowrobWrapper::KnowrobWrapper (ros::NodeHandle nh)

Default constructor.

Definition at line 30 of file knowrob_wrapper.cpp.

6.31.3 Member Function Documentation

6.31.3.1 rapp_platform_ros_communications::assertRetractAttributeSrv::Response KnowrobWrapper::assertAttributeValue (rapp_platform_ros_communications::assertRetractAttributeSrv::Request req)

Implements the assertRetractAttribute ROS service.

Parameters

req	[rapp_platform_ros_communications::assertRetractAttributeSrv::Request&] The ROS ser-
	vice request

Returns

res [rapp_platform_ros_communications::assertRetractAttributeSrv::Response&] The ROS service response

6.31.3.2 rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Response
 KnowrobWrapper::clear_user_cognitive_tests_performance_records (rapp_platform_ros_communications::clearUser-PerformanceCognitveTestsSrv::Request req)

Implements the clear_user_cognitive_tests_performance_records ROS service.

Parameters

req	[rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Request&]
	The ROS service request

Returns

res [rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Response&] The ROS service response

Parameters

req	[rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Request&]
	The ROS service request

Returns

res [rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Response&] The ROS service response

Exceptions

AppFrror	
- 1-1-	

Definition at line 444 of file knowrob_wrapper.cpp.

6.31.3.3 rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Response KnowrobWrapper::cognitive_tests_of_type (rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Request req)

Implements the cognitive_tests_of_type ROS service.

Parameters

req	[rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Request&] The ROS service
	request

Returns

res [rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Response&] The ROS service response

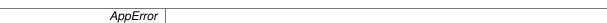
Parameters

req	[rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Request&] The ROS service
	request

Returns

res [rapp platform ros communications::cognitiveTestsOfTypeSrv::Response&] The ROS service response

Exceptions



Definition at line 329 of file knowrob wrapper.cpp.

6.31.3.4 rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Response KnowrobWrapper::create_cognitve_tests (rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Request req)

Implements the create_cognitve_tests ROS service.

Parameters

req	[rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Response&] The ROS service response

Parameters

req	[rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Response&] The ROS service response

Exceptions

AppError	

Definition at line 271 of file knowrob_wrapper.cpp.

6.31.3.5 rapp_platform_ros_communications::createOntologyAliasSrv::Response KnowrobWrapper::create_ontology_alias (rapp_platform_ros_communications::createOntologyAliasSrv::Request req)

Implements the create_ontology_alias ROS service.

Parameters

req	[rapp_platform_ros_communications::createOntologyAliasSrv::Request&] The ROS service
	request

Returns

res [rapp_platform_ros_communications::createOntologyAliasSrv::Response&] The ROS service response

Parameters

req	[rapp_platform_ros_communications::createOntologyAliasSrv::Request&] The ROS service
	request

Returns

res [rapp_platform_ros_communications::createOntologyAliasSrv::Response&] The ROS service response

Exceptions

AppError	

Definition at line 132 of file knowrob_wrapper.cpp.

6.31.3.6 std::string KnowrobWrapper::create_ontology_alias_for_new_user (std::string username)

Creates a new ontology alias for a user.

Parameters

user_id	[string] The username of the user
---------	-----------------------------------

Returns

ontology_alias [string] The ontology_alias of the user or possible error

Parameters

username	[string] The username of the user

Returns

ontology_alias [string] The ontology_alias of the user or possible error

Exceptions

AppError

Definition at line 183 of file knowrob_wrapper.cpp.

6.31.3.7 rapp_platform_ros_communications::createInstanceSrv::Response KnowrobWrapper::createInstanceQuery (rapp_platform_ros_communications::createInstanceSrv::Request req)

Implements the createInstance ROS service.

Parameters

req	[rapp_platform_ros_communications::createInstanceSrv::Request&] The ROS service re-	
	quest	

Returns

res [rapp_platform_ros_communications::createInstanceSrv::Response&] The ROS service response

Parameters

req	[rapp_platform_ros_communications::createInstanceSrv::Request&] The ROS service re-
	quest

Returns

res [rapp_platform_ros_communications::createInstanceSrv::Response&] The ROS service response

Exceptions

AppError |

Definition at line 633 of file knowrob wrapper.cpp.

6.31.3.8 void KnowrobWrapper::dump_ontology_now()

Dumps the ontology to default path.

Definition at line 39 of file knowrob_wrapper.cpp.

6.31.3.9 rapp_platform_ros_communications::ontologyLoadDumpSrv::Response KnowrobWrapper::dumpOntologyQuery (rapp_platform_ros_communications::ontologyLoadDumpSrv::Request req)

Implements the dumpOntology ROS service.

Parameters

req	[rapp_platform_ros_communications::ontologyLoadDumpSrv::Request&] The ROS service
	request

Returns

res [rapp_platform_ros_communications::ontologyLoadDumpSrv::Response&] The ROS service response

Parameters

req	[rapp_platform_ros_communications::ontologyLoadDumpSrv::Request&] The ROS service
	request

Returns

res [rapp_platform_ros_communications::ontologyLoadDumpSrv::Response&] The ROS service response

Exceptions

AppError

Definition at line 682 of file knowrob_wrapper.cpp.

6.31.3.10 std::string KnowrobWrapper::get_ontology_alias (std::string username)

Returns the ontology alias of the user.

Parameters

user_id [string] The username of the user

Returns

ontology_alias [string] The ontology_alias of the user or possible error

Parameters

username	[string] The username of the user

Returns

ontology_alias [string] The ontology_alias of the user or possible error

Exceptions

AppError

Definition at line 161 of file knowrob_wrapper.cpp.

6.31.3.11 rapp_platform_ros_communications::ontologylsSubSuperClassOfSrv::Response KnowrobWrapper::isSub-SuperclassOfQuery (rapp_platform_ros_communications::ontologylsSubSuperClassOfSrv::Request req

Implements the isSubSuperclass ROS service.

req	[rapp_platform_ros_communications::ontologyIsSubSuperClassOfSrv::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::ontologylsSubSuperClassOfSrv::Response&] The ROS service response

Parameters

req	[rapp_platform_ros_communications::ontologyIsSubSuperClassOfSrv::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::ontologyIsSubSuperClassOfSrv::Response&] The ROS service response

Exceptions

AppError	

Definition at line 580 of file knowrob_wrapper.cpp.

6.31.3.12 rapp_platform_ros_communications::ontologyLoadDumpSrv::Response KnowrobWrapper::loadOntologyQuery (rapp_platform_ros_communications::ontologyLoadDumpSrv::Request req)

Implements the loadOntology ROS service.

Parameters

req	[rapp_platform_ros_communications::ontologyLoadDumpSrv::Request&] The ROS service
	request

Returns

res [rapp_platform_ros_communications::ontologyLoadDumpSrv::Response&] The ROS service response

Parameters

req	[rapp_platform_ros_communications::ontologyLoadDumpSrv::Request&] The ROS service
	request

Returns

res [rapp platform ros communications::ontologyLoadDumpSrv::Response&] The ROS service response

Exceptions

AppError	

Definition at line 723 of file knowrob wrapper.cpp.

6.31.3.13 rapp_platform_ros_communications::recordUserPerformanceCognitiveTestsSrv::Response
KnowrobWrapper::record_user_cognitive_tests_performance (rapp_platform_ros_communications::recordUserPerformanceCognitiveTestsSrv::Request req)

Implements the record_user_cognitive_tests_performance ROS service.

Parameters

req	[rapp_platform_ros_communications::recordUserPerformanceCognitiveTestsSrv::Request&]
	The ROS service request

Returns

res [rapp_platform_ros_communications::recordUserPerformanceCognitiveTestsSrv::Response&] The ROS service response

Definition at line 226 of file knowrob wrapper.cpp.

6.31.3.14 rapp_platform_ros_communications::registerImageObjectToOntologySrv::Response KnowrobWrapper::register_-image_object_to_ontology (rapp_platform_ros_communications::registerImageObjectToOntologySrv::Request req

Implements the register_image_object_to_ontology ROS service.

Parameters

req	[rapp_platform_ros_communications::registerImageObjectToOntologySrv::Request&] The R-
	OS service request

Returns

res [rapp_platform_ros_communications::registerImageObjectToOntologySrv::Response&] The ROS service response

Definition at line 804 of file knowrob_wrapper.cpp.

6.31.3.15 rapp_platform_ros_communications::retractUserOntologyAliasSrv::Response KnowrobWrapper::retract-_user_ontology_alias (rapp_platform_ros_communications::retractUserOntologyAliasSrv::Request req

Implements the retract_user_ontology_alias ROS service.

Parameters

req	[rapp_platform_ros_communications::retractUserOntologyAliasSrv::Request&]	The	ROS
	service request		

Returns

res [rapp_platform_ros_communications::retractUserOntologyAliasSrv::Response&] The ROS service response

Definition at line 853 of file knowrob_wrapper.cpp.

6.31.3.16 rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response KnowrobWrapper::subclassesOfQuery (rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Request req
)

Implements the subclassesOf ROS service.

req	[rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response&] The ROS service response

Parameters

req	[rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response&] The ROS service response

Exceptions

```
AppError |
```

Definition at line 486 of file knowrob_wrapper.cpp.

6.31.3.17 rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response KnowrobWrapper::superclassesOfQuery (rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Request req
)

Implements the superclassesOf ROS service.

Parameters

req	[rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response&] The ROS service response

Parameters

req	[rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Request&] The ROS
	service request

Returns

 $res\ [rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response\&]\ The\ ROS\ service\ response$

Exceptions

AppError	

Definition at line 533 of file knowrob_wrapper.cpp.

6.31.3.18 rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Response KnowrobWrapper::user_instances_of_class (rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Request req)

Implements the returnUserInstancesOfClass ROS service.

req	[rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Response&] The ROS service response

Parameters

req	[rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Response&] The ROS service response

Exceptions

AppError	

Definition at line 759 of file knowrob_wrapper.cpp.

6.31.3.19 rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Response KnowrobWrapper::user_performance_cognitve_tests (rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Request req

Implements the user_performance_cognitve_tests ROS service.

Parameters

req	[rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Request&] The R-
	OS service request

Returns

res [rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Response&] The ROS service response

Parameters

req	[rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Request&] The R-
	OS service request

Returns

res [rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Response&] The ROS service response

Exceptions

AppError	

Definition at line 387 of file knowrob_wrapper.cpp.

6.31.4 Member Data Documentation

6.31.4.1 ros::ServiceClient KnowrobWrapper::mysql_get_user_ontology_alias_client [private]

The mysql update tblUser client server

Definition at line 62 of file knowrob_wrapper.h.

6.31.4.2 ros::ServiceClient KnowrobWrapper::mysql_register_user_ontology_alias_client [private]

The mysql fetch from tblUser client server

Definition at line 59 of file knowrob wrapper.h.

6.31.4.3 ros::NodeHandle KnowrobWrapper::nh_ [private]

< The ROS node handle The json prolog handle

Definition at line 53 of file knowrob_wrapper.h.

6.31.4.4 ison_prolog::Prolog KnowrobWrapper::pl [private]

The mysql write to tblUser client server

Definition at line 56 of file knowrob_wrapper.h.

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

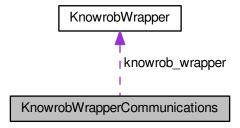
- /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper.-
- /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper.cpp

6.32 KnowrobWrapperCommunications Class Reference

Class KnowrobWrapperCommunications uptakes the task of handling the ROS service callbacks.

#include <knowrob_wrapper_communications.h>

 $Collaboration\ diagram\ for\ KnowrobWrapperCommunications:$



Public Member Functions

KnowrobWrapperCommunications ()

Default constructor.

bool clear_user_cognitive_tests_performance_records_callback (rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Request &req, rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Response &res)

Serves the clear_user_cognitive_tests_performance_records ROS service callback.

• bool cognitive_tests_of_type_callback (rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Request &req, rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Response &res)

Serves the cognitive_tests_of_type ROS service callback.

• bool create_cognitve_tests_callback (rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Request &req, rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Response &res)

Serves the create_cognitve_tests ROS service callback.

• bool create_ontology_alias_callback (rapp_platform_ros_communications::createOntologyAliasSrv::Request &req, rapp_platform_ros_communications::createOntologyAliasSrv::Response &res)

Serves the create_ontology_alias ROS service callback.

• bool createInstanceCallback (rapp_platform_ros_communications::createInstanceSrv::Request &req, rapp_platform_ros_communications::createInstanceSrv::Response &res)

Serves the createInstance ROS service callback.

 bool dumpOntologyCallback (rapp_platform_ros_communications::ontologyLoadDumpSrv::Request &req, rapp_platform_ros_communications::ontologyLoadDumpSrv::Response &res)

Serves the dumpOntology ROS service callback.

• bool isSubSuperclassOfCallback (rapp_platform_ros_communications::ontologyIsSubSuperClassOfSrv::-Request &req, rapp_platform_ros_communications::ontologyIsSubSuperClassOfSrv::Response &res)

Serves the isSubSuperclassOf ROS service callback.

• bool loadOntologyCallback (rapp_platform_ros_communications::ontologyLoadDumpSrv::Request &req, rapp_platform_ros_communications::ontologyLoadDumpSrv::Response &res)

Serves the loadOntology ROS service callback.

• bool record_user_cognitive_tests_performance_callback (rapp_platform_ros_communications::record-UserPerformanceCognitiveTestsSrv::Request &req, rapp_platform_ros_communications::recordUser-PerformanceCognitiveTestsSrv::Response &res)

 $Serves\ the\ record_user_cognitive_tests_performance\ ROS\ service\ callback.$

 bool register_image_object_to_ontology_callback (rapp_platform_ros_communications::registerImage-ObjectToOntologySrv::Request &req, rapp_platform_ros_communications::registerImageObjectToOntology-Srv::Response &res)

Serves the register_image_object_to_ontology ROS service callback.

 bool retract_user_ontology_alias_callback (rapp_platform_ros_communications::retractUserOntologyAlias-Srv::Request &req, rapp_platform_ros_communications::retractUserOntologyAliasSrv::Response &res)

Serves the retract_user_ontology_alias ROS service callback.

• bool subclassesOfCallback (rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Request &req, rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response &res)

Serves the subclassesOf ROS service callback.

• bool superclassesOfCallback (rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::-Request &req, rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response &res)

Serves the superlassesOf ROS service callback.

bool user_instances_of_class_callback (rapp_platform_ros_communications::returnUserInstancesOfClass-Srv::Request &req, rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Response &res)

Serves the user_instances_of_class ROS service callback.

 bool user_performance_cognitve_tests_callback (rapp_platform_ros_communications::userPerformance-CognitveTestsSrv::Request &req, rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::-Response &res)

Serves the user_performance_cognitve_tests ROS service callback.

Private Attributes

- ros::ServiceServer clear_user_cognitive_tests_performance_records_service_
- std::string clear_user_cognitive_tests_performance_records_topic_
- ros::ServiceServer cognitive_tests_of_type_service_
- std::string cognitive_tests_of_type_topic_
- ros::ServiceServer create_cognitve_tests_service_
- std::string create_cognitve_tests_topic_
- ros::ServiceServer create_ontology_alias_service_
- std::string create_ontology_alias_topic_
- ros::ServiceServer createInstanceService_
- std::string createInstanceServiceTopic
- ros::ServiceServer dumpOntologyService
- std::string dumpOntologyServiceTopic_
- ros::ServiceServer is subsuperclass of service
- std::string is subsuperclass of service topic
- KnowrobWrapper knowrob_wrapper
- ros::ServiceServer loadOntologyService_
- std::string loadOntologyServiceTopic
- ros::NodeHandle nh
- ros::ServiceServer record_user_cognitive_tests_performance_service_
- std::string record_user_cognitive_tests_performance_topic_
- ros::ServiceServer register image object to ontology service
- std::string register_image_object_to_ontology_topic_
- ros::ServiceServer retract_user_ontology_alias_service_
- std::string retract_user_ontology_alias_topic_
- ros::ServiceServer subclasses of service
- std::string subclasses of service topic
- ros::ServiceServer superclasses_of_service_
- std::string superclasses_of_service_topic_
- ros::ServiceServer user_instances_of_class_service_
- std::string user instances of class topic
- ros::ServiceServer user_performance_cognitve_tests_service_
- std::string user_performance_cognitve_tests_topic_

6.32.1 Detailed Description

Class KnowrobWrapperCommunications uptakes the task of handling the ROS service callbacks.

Definition at line 28 of file knowrob wrapper communications.h.

6.32.2 Constructor & Destructor Documentation

6.32.2.1 KnowrobWrapperCommunications::KnowrobWrapperCommunications ()

Default constructor.

Default constructor Waits for services it depends on and declares the knowrob wrapper services callbacks.

Definition at line 28 of file knowrob_wrapper_communications.cpp.

- 6.32.3 Member Function Documentation
- 6.32.3.1 bool KnowrobWrapperCommunications::clear_user_cognitive_tests_performance_records_callback (rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Request & req, rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Response & res)

Serves the clear_user_cognitive_tests_performance_records ROS service callback.

Parameters

req	[rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Request&] The ROS service request
	The NOS service request
res	[rapp_platform_ros_communications::clearUserPerformanceCognitveTestsSrv::Response&]
	The ROS service response

Returns

bool - The success status of the call

Definition at line 331 of file knowrob_wrapper_communications.cpp.

6.32.3.2 bool KnowrobWrapperCommunications::cognitive_tests_of_type_callback (rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Request & req, rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Response & res)

Serves the cognitive_tests_of_type ROS service callback.

Parameters

req	[rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::cognitiveTestsOfTypeSrv::Response&] The ROS ser-
	vice response

Returns

bool - The success status of the call

Definition at line 303 of file knowrob_wrapper_communications.cpp.

6.32.3.3 bool KnowrobWrapperCommunications::create_cognitve_tests_callback (rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Request & req, rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Response & res)

Serves the create_cognitve_tests ROS service callback.

Parameters

req	[rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Request&] The ROS
	service request
res	[rapp_platform_ros_communications::createCognitiveExerciseTestSrv::Response&] The R-
	OS service response

Returns

bool - The success status of the call

Definition at line 289 of file knowrob_wrapper_communications.cpp.

6.32.3.4 bool KnowrobWrapperCommunications::create_ontology_alias_callback (rapp_platform_ros_communications::create-OntologyAliasSrv::Request & req, rapp_platform_ros_communications::createOntologyAliasSrv::Response & res

Serves the create ontology alias ROS service callback.

req	[rapp_platform_ros_communications::createOntologyAliasSrv::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::createOntologyAliasSrv::Response&] The ROS ser-
	vice response

Returns

bool - The success status of the call

Definition at line 247 of file knowrob_wrapper_communications.cpp.

6.32.3.5 bool KnowrobWrapperCommunications::createInstanceCallback (rapp_platform_ros_communications::createInstanceSrv::Request & req, rapp_platform_ros_communications::createInstanceSrv::Response & res)

Serves the createInstance ROS service callback.

Parameters

req	[rapp_platform_ros_communications::createInstanceSrv::Request&] The ROS service request
res	[rapp_platform_ros_communications::createInstanceSrv::Response&] The ROS service response

Returns

bool - The success status of the call

Definition at line 205 of file knowrob wrapper communications.cpp.

6.32.3.6 bool KnowrobWrapperCommunications::dumpOntologyCallback (rapp_platform_ros_communications::ontologyLoadDumpSrv::Request & req, rapp_platform_ros_communications::ontologyLoadDumpSrv::Response & res

Serves the dumpOntology ROS service callback.

Parameters

req	[rapp_platform_ros_communications::ontologyLoadDumpSrv::Request&] The ROS service request
res	[rapp_platform_ros_communications::ontologyLoadDumpSrv::Response&] The ROS service
	response

Returns

bool - The success status of the call

Definition at line 219 of file knowrob_wrapper_communications.cpp.

6.32.3.7 bool KnowrobWrapperCommunications::isSubSuperclassOfCallback (rapp_platform_ros_communications::ontology-lsSubSuperClassOfSrv::Request & req, rapp_platform_ros_communications::ontologylsSubSuperClassOfSrv::-Response & res)

Serves the isSubSuperclassOf ROS service callback.

Parameters

req	[rapp_platform_ros_communications::ontologyIsSubSuperClassOfSrv::Request&] The ROS service request
res	[rapp_platform_ros_communications::ontologyIsSubSuperClassOfSrv::Response&] The R-OS service response

Returns

bool - The success status of the call

Definition at line 191 of file knowrob_wrapper_communications.cpp.

6.32.3.8 bool KnowrobWrapperCommunications::loadOntologyCallback (rapp_platform_ros_communications::ontology-LoadDumpSrv::Request & req, rapp_platform_ros_communications::ontologyLoadDumpSrv::Response & res)

Serves the loadOntology ROS service callback.

Parameters

req	[rapp_platform_ros_communications::ontologyLoadDumpSrv::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::ontologyLoadDumpSrv::Response&] The ROS service
	response

Returns

bool - The success status of the call

Definition at line 233 of file knowrob_wrapper_communications.cpp.

6.32.3.9 bool KnowrobWrapperCommunications::record_user_cognitive_tests_performance_callback (
rapp_platform_ros_communications::recordUserPerformanceCognitiveTestsSrv::Request & req,
rapp_platform_ros_communications::recordUserPerformanceCognitiveTestsSrv::Response & res)

Serves the record_user_cognitive_tests_performance ROS service callback.

Parameters

req	[rapp_platform_ros_communications::recordUserPerformanceCognitiveTestsSrv::Request&] The ROS service request
res	[rapp_platform_ros_communications::recordUserPerformanceCognitiveTestsSrv::- Response&] The ROS service response

Returns

bool - The success status of the call

Definition at line 317 of file knowrob_wrapper_communications.cpp.

6.32.3.10 bool KnowrobWrapperCommunications::register_image_object_to_ontology_callback (
rapp_platform_ros_communications::registerImageObjectToOntologySrv::Request & req,
rapp_platform_ros_communications::registerImageObjectToOntologySrv::Response & res)

Serves the register image object to ontology ROS service callback.

req	[rapp_platform_ros_communications::registerImageToOntologySrv::Request&]	The	ROS
	service request		
res	[rapp_platform_ros_communications::registerImageToOntologySrv::Response&]	The	ROS
	service response		

Returns

bool - The success status of the call

Definition at line 359 of file knowrob_wrapper_communications.cpp.

6.32.3.11 bool KnowrobWrapperCommunications::retract_user_ontology_alias_callback (
rapp_platform_ros_communications::retractUserOntologyAliasSrv::Request & req,
rapp_platform_ros_communications::retractUserOntologyAliasSrv::Response & res)

Serves the retract_user_ontology_alias ROS service callback.

Parameters

req	[rapp_platform_ros_communications::retractUserOntologyAliasSrv::Request&]	The	ROS
	service request		
res	[rapp_platform_ros_communications::retractUserOntologyAliasSrv::Response&]	The	ROS
	service response		

Returns

bool - The success status of the call

Definition at line 345 of file knowrob_wrapper_communications.cpp.

6.32.3.12 bool KnowrobWrapperCommunications::subclassesOfCallback (rapp_platform_ros_communications::ontologySub-SuperClassesOfSrv::Request & req, rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response & res)

Serves the subclassesOf ROS service callback.

Parameters

req	[rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Request&] The ROS
	service request
res	[rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response&] The R-
	OS service response

Returns

bool - The success status of the call

Definition at line 163 of file knowrob_wrapper_communications.cpp.

6.32.3.13 bool KnowrobWrapperCommunications::superclassesOfCallback (rapp_platform_ros_communications::ontology-SubSuperClassesOfSrv::Request & req, rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::-Response & res)

Serves the superlassesOf ROS service callback.

Parameters

req	[rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Request&] The ROS
	service request
res	[rapp_platform_ros_communications::ontologySubSuperClassesOfSrv::Response&] The R-
	OS service response

Returns

bool - The success status of the call

Definition at line 177 of file knowrob_wrapper_communications.cpp.

6.32.3.14 bool KnowrobWrapperCommunications::user_instances_of_class_callback (rapp-_platform_ros_communications::returnUserInstancesOfClassSrv::Request & req, rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Response & res)

Serves the user_instances_of_class ROS service callback.

Parameters

req	[rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Request&] The ROS
	service request
res	[rapp_platform_ros_communications::returnUserInstancesOfClassSrv::Response&] The R-
	OS service response

Returns

bool - The success status of the call

Definition at line 261 of file knowrob_wrapper_communications.cpp.

6.32.3.15 bool KnowrobWrapperCommunications::user_performance_cognitve_tests_callback (
rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Request & req,
rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Response & res)

Serves the user_performance_cognitve_tests ROS service callback.

Parameters

req	[rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Request&] The R-
	OS service request
res	[rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Response&] The
	ROS service response

Returns

bool - The success status of the call

Definition at line 275 of file knowrob_wrapper_communications.cpp.

6.32.4 Member Data Documentation

6.32.4.1 ros::ServiceServer KnowrobWrapperCommunications::clear_user_cognitive_tests_performance_records_service_
[private]

Member variable holding the clear_user_cognitive_tests_performance_records ROS service topic Definition at line 99 of file knowrob_wrapper_communications.h.

6.32.4.2 std::string KnowrobWrapperCommunications::clear_user_cognitive_tests_performance_records_topic_ [private]

The retract_user_ontology_alias service server

Definition at line 101 of file knowrob_wrapper_communications.h.

6.32.4.3 ros::ServiceServer KnowrobWrapperCommunications::cognitive_tests_of_type_service_ [private]

Member variable holding the cognitive_tests_of_type ROS service topic

Definition at line 89 of file knowrob_wrapper_communications.h.

6.32.4.4 std::string KnowrobWrapperCommunications::cognitive_tests_of_type_topic_ [private]

The record_user_cognitive_tests_performance service server

Definition at line 91 of file knowrob wrapper communications.h.

6.32.4.5 ros::ServiceServer KnowrobWrapperCommunications::create_cognitve_tests_service_ [private]

Member variable holding the create_cognitve_tests ROS service topic

Definition at line 84 of file knowrob_wrapper_communications.h.

6.32.4.6 std::string KnowrobWrapperCommunications::create_cognitve_tests_topic_ [private]

The cognitive_tests_of_type service server

Definition at line 86 of file knowrob_wrapper_communications.h.

6.32.4.7 ros::ServiceServer KnowrobWrapperCommunications::create_ontology_alias_service_ [private]

Member variable holding the create_ontology_alias ROS service topic

Definition at line 74 of file knowrob_wrapper_communications.h.

6.32.4.8 std::string KnowrobWrapperCommunications::create_ontology_alias_topic_ [private]

The user_performance_cognitve_tests service server

Definition at line 76 of file knowrob wrapper communications.h.

 $\textbf{6.32.4.9} \quad \textbf{ros::ServiceServer KnowrobWrapperCommunications::createInstanceService} \\ \quad \texttt{[private]}$

Member variable holding the createInstanceServiceTopic ROS service topic

Definition at line 54 of file knowrob_wrapper_communications.h.

6.32.4.10 std::string KnowrobWrapperCommunications::createInstanceServiceTopic_ [private]

The dumpOntologyService service server

Definition at line 56 of file knowrob_wrapper_communications.h.

6.32.4.11 ros::ServiceServer KnowrobWrapperCommunications::dumpOntologyService_ [private] Member variable holding the dumpOntologyServiceTopic ROS service topic Definition at line 59 of file knowrob_wrapper_communications.h. **6.32.4.12** std::string KnowrobWrapperCommunications::dumpOntologyServiceTopic_ [private] The loadOntologyService service server Definition at line 61 of file knowrob_wrapper_communications.h. **6.32.4.13** ros::ServiceServer KnowrobWrapperCommunications::is_subsuperclass_of_service_ [private] Member variable holding the is_subsuperclass ROS service topic Definition at line 49 of file knowrob_wrapper_communications.h. **6.32.4.14** std::string KnowrobWrapperCommunications::is_subsuperclass_of_service_topic_ [private] The createInstanceService service server Definition at line 51 of file knowrob wrapper communications.h. **6.32.4.15** KnowrobWrapper KnowrobWrapperCommunications::knowrob_wrapper [private] The subclasses of service server Definition at line 35 of file knowrob_wrapper_communications.h. **6.32.4.16** ros::ServiceServer KnowrobWrapperCommunications::loadOntologyService_ [private] Member variable holding the loadOntologyServiceTopic ROS service topic Definition at line 64 of file knowrob_wrapper_communications.h. **6.32.4.17** std::string KnowrobWrapperCommunications::loadOntologyServiceTopic_ [private] The user_instances_of_class service server Definition at line 66 of file knowrob wrapper communications.h. **6.32.4.18** ros::NodeHandle KnowrobWrapperCommunications::nh_ [private] < The ROS node handle Object of type knowrob_wrapper Definition at line 32 of file knowrob wrapper communications.h.

6.32.4.19 ros::ServiceServer KnowrobWrapperCommunications::record_user_cognitive_tests_performance_service_
[private]

Member variable holding the record_user_cognitive_tests_performance ROS service topic Definition at line 94 of file knowrob_wrapper_communications.h.

6.32.4.20 std::string KnowrobWrapperCommunications::record_user_cognitive_tests_performance_topic_ [private] The clear_user_cognitive_tests_performance_records service server Definition at line 96 of file knowrob_wrapper_communications.h. **6.32.4.21** ros::ServiceServer KnowrobWrapperCommunications::register_image_object_to_ontology_service_ [private] Member variable holding the register_image_object_to_ontology ROS service topic Definition at line 109 of file knowrob wrapper communications.h. **6.32.4.22** std::string KnowrobWrapperCommunications::register_image_object_to_ontology_topic_ [private] Definition at line 111 of file knowrob wrapper communications.h. **6.32.4.23** ros::ServiceServer KnowrobWrapperCommunications::retract_user_ontology_alias_service_ [private] Member variable holding the retract_user_ontology_alias ROS service topic Definition at line 104 of file knowrob_wrapper_communications.h. **6.32.4.24** std::string KnowrobWrapperCommunications::retract_user_ontology_alias_topic_ [private] The register_image_object_to_ontology service server Definition at line 106 of file knowrob_wrapper_communications.h. **6.32.4.25** ros::ServiceServer KnowrobWrapperCommunications::subclasses_of_service_ [private] Member variable holding the subclasses of ROS service topic Definition at line 38 of file knowrob_wrapper_communications.h. **6.32.4.26** std::string KnowrobWrapperCommunications::subclasses_of_service_topic_ [private] The superclasses_of service server Definition at line 41 of file knowrob_wrapper_communications.h. **6.32.4.27** ros::ServiceServer KnowrobWrapperCommunications::superclasses_of_service_ [private] Member variable holding the superclasses_of ROS service topic Definition at line 44 of file knowrob wrapper communications.h. **6.32.4.28** std::string KnowrobWrapperCommunications::superclasses_of_service_topic_ [private]

Generated on Fri Jul 29 2016 18:43:44 for RAPP Platform by Doxygen

Definition at line 46 of file knowrob_wrapper_communications.h.

The is_subsuperclass service server

6.32.4.29 ros::ServiceServer KnowrobWrapperCommunications::user_instances_of_class_service [private]

Member variable holding the user instances of class ROS service topic

Definition at line 69 of file knowrob_wrapper_communications.h.

6.32.4.30 std::string KnowrobWrapperCommunications::user_instances_of_class_topic_ [private]

The create_ontology_alias service server

Definition at line 71 of file knowrob_wrapper_communications.h.

6.32.4.31 ros::ServiceServer KnowrobWrapperCommunications::user performance cognitive tests service [private]

Member variable holding the user_performance_cognitve_tests ROS service topic

Definition at line 79 of file knowrob_wrapper_communications.h.

6.32.4.32 std::string KnowrobWrapperCommunications::user performance cognitive tests topic [private]

The create cognitve tests service server

Definition at line 81 of file knowrob wrapper communications.h.

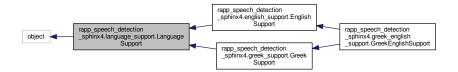
The documentation for this class was generated from the following files:

- /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper-communications.h
- /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper_communications.cpp

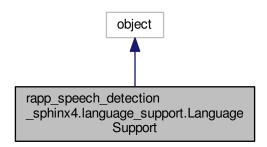
6.33 rapp_speech_detection_sphinx4.language_support.LanguageSupport Class Reference

Allows the creation of configuration files for Sphinx speech recognition.

 $Inheritance\ diagram\ for\ rapp_speech_detection_sphinx 4. language_support. Language Support:$



Collaboration diagram for rapp_speech_detection_sphinx4.language_support.LanguageSupport:



Public Member Functions

def init

Performs initializations.

• def getGenericConfiguration

Returns the Generic English Configuration.

• def getLimitedVocebularyConfiguration

Computes the Limited English Configuration.

Private Attributes

• _generic_sphinx_configuration

The generic Sphinx configuration.

• _globalParams

Contains global Sphinx parameters.

_vocabulary

The limited vocabulary creator.

6.33.1 Detailed Description

Allows the creation of configuration files for Sphinx speech recognition.

Definition at line 32 of file language_support.py.

6.33.2 Constructor & Destructor Documentation

6.33.2.1 def rapp_speech_detection_sphinx4.language_support.LanguageSupport.__init__ (self)

Performs initializations.

Definition at line 35 of file language_support.py.

6.33.3 Member Function Documentation

6.33.3.1 def rapp_speech_detection_sphinx4.language_support.LanguageSupport.getGenericConfiguration (self)

Returns the Generic English Configuration.

Returns

_generic_sphinx_configuration [dictionary] The Generic English configuration

Definition at line 84 of file language_support.py.

6.33.3.2 def rapp_speech_detection_sphinx4.language_support.LanguageSupport.getLimitedVocebularyConfiguration (self, words, grammar, sentences)

Computes the Limited English Configuration.

Parameters

	words	[list::string] The set of words to be identified
g	grammar	[list::string] The Sphinx grammar parameter
se	entences	[list::string] The Sphinx sentences parameter

Returns

limited_sphinx_configuration [dictionary] The Limited configuration englified_to_lang_dict [dictionary] A dictionary to transform the englified words to the words in the proper language

Definition at line 78 of file language_support.py.

6.33.4 Member Data Documentation

6.33.4.1 rapp_speech_detection_sphinx4.language_support.LanguageSupport._generic_sphinx_configuration [private]

The generic Sphinx configuration.

Note

Check acoustic model!!

Definition at line 54 of file language_support.py.

6.33.4.2 rapp_speech_detection_sphinx4.language_support.LanguageSupport._globalParams [private]

Contains global Sphinx parameters.

(see global_parameters.GlobalParams)

Definition at line 39 of file language_support.py.

6.33.4.3 rapp_speech_detection_sphinx4.language_support.LanguageSupport._vocabulary [private]

The limited vocabulary creator.

Instantiates limited_vocabulary_creator.LimitedVocabularyCreator

Definition at line 44 of file language_support.py.

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

 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/language-_support.py

6.34 rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabulary-Creator Class Reference

Creates temporary configuration files for the input limited vocabulary.

Public Member Functions

def __init__

Performs initializations.

def createConfigurationFiles

Creates temporary configuration files for the input limited vocabulary.

Private Attributes

• _globalParams

Contains global Sphinx parameters.

_languages_package

The temporary directory containing the configurations.

• _sphinx_configuration

The default configuration.

6.34.1 Detailed Description

Creates temporary configuration files for the input limited vocabulary.

Definition at line 35 of file limited_vocabulary_creator.py.

6.34.2 Constructor & Destructor Documentation

6.34.2.1 def rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator.__init__ (self)

Performs initializations.

Definition at line 38 of file limited_vocabulary_creator.py.

6.34.3 Member Function Documentation

6.34.3.1 def rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator.createConfigurationFiles (self, words, grammar, sentences)

Creates temporary configuration files for the input limited vocabulary.

The 'words' input argument is of the form: words = { 'word1_en_chars': [phonem1, phonem2,...], 'word2_en_chars': [phonem1, phonem2,...] ... }

Parameters

words	[list::string] The set of words to be identified
grammar	[list::string] The Sphinx grammar parameter
sentences	[list::string] The Sphinx sentences parameter

Returns

```
conf [dictionary] The final configuration status [string] Either the error (string) or True (bool)
```

Definition at line 88 of file limited_vocabulary_creator.py.

6.34.4 Member Data Documentation

6.34.4.1 rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator._globalParams [private]

Contains global Sphinx parameters.

(see global_parameters.GlobalParams)

Definition at line 42 of file limited_vocabulary_creator.py.

6.34.4.2 rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator._languages_package [private]

The temporary directory containing the configurations.

Definition at line 50 of file limited_vocabulary_creator.py.

6.34.4.3 rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator._sphinx_configuration [private]

The default configuration.

Definition at line 58 of file limited_vocabulary_creator.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/limited_vocabulary_creator.py

6.35 MapGenerator Class Reference

Map generation node.

Public Member Functions

- MapGenerator (const std::string &mapname)
- void mapCallback (const nav_msgs::OccupancyGridConstPtr &map)

Public Attributes

• ros::Subscriber map_sub_

- std::string mapname_
- · bool saved_map_

6.35.1 Detailed Description

Map generation node.

Definition at line 43 of file map_saver.cpp.

6.35.2 Constructor & Destructor Documentation

6.35.2.1 MapGenerator::MapGenerator (const std::string & mapname) [inline]

Definition at line 47 of file map saver.cpp.

6.35.3 Member Function Documentation

6.35.3.1 void MapGenerator::mapCallback (const nav_msgs::OccupancyGridConstPtr & map) [inline]

Definition at line 54 of file map_saver.cpp.

6.35.4 Member Data Documentation

6.35.4.1 ros::Subscriber MapGenerator::map_sub_

Definition at line 119 of file map_saver.cpp.

6.35.4.2 std::string MapGenerator::mapname_

Definition at line 118 of file map_saver.cpp.

6.35.4.3 bool MapGenerator::saved_map_

Definition at line 120 of file map_saver.cpp.

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

/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/src/map_saver.cpp

6.36 MapServer Class Reference

Public Member Functions

MapServer (std::string fname)

Private Member Functions

- bool mapCallback (rapp_platform_ros_communications::MapServerGetMapRosSrv::Request &req, rapp_platform ros communications::MapServerGetMapRosSrv::Response &res)
- bool mapUploadCallback (rapp_platform_ros_communications::MapServerUploadMapRosSrv::Request &req, rapp_platform_ros_communications::MapServerUploadMapRosSrv::Response &res)
- bool updateMap (const std::string fname, double res)

Private Attributes

- bool deprecated
- · std::string fname
- ros::ServiceServer get service
- const char * homedir
- ros::Publisher map pub
- nav_msgs::GetMap::Response map_resp_
- nav msgs::MapMetaData meta data message
- ros::Publisher metadata_pub
- ros::NodeHandle n
- ros::ServiceServer test_service
- bool upload_map_trigger
- std::string upload_map_trigger_name
- ros::ServiceServer upload_service

6.36.1 Detailed Description

Definition at line 74 of file main.cpp.

6.36.2 Constructor & Destructor Documentation

6.36.2.1 MapServer::MapServer (std::string *fname*) [inline]

Trivial constructor

Definition at line 78 of file main.cpp.

6.36.3 Member Function Documentation

6.36.3.1 bool MapServer::mapCallback (rapp_platform_ros_communications::MapServerGetMapRosSrv::Request & req, rapp_platform_ros_communications::MapServerGetMapRosSrv::Response & res) [inline], [private]

Callback invoked when someone requests our service

Definition at line 162 of file main.cpp.

6.36.3.2 bool MapServer::mapUploadCallback (rapp_platform_ros_communications::MapServerUploadMapRosSrv::Request
 & req, rapp_platform_ros_communications::MapServerUploadMapRosSrv::Response & res) [inline],
 [private]

Definition at line 121 of file main.cpp.

6.36.3.3 bool MapServer::updateMap (const std::string fname, double res) [inline], [private]

Definition at line 178 of file main.cpp.

6.36.4 Member Data Documentation

6.36.4.1 bool MapServer::deprecated [private]

Definition at line 119 of file main.cpp.

```
6.36.4.2 std::string MapServer::fname [private]
Definition at line 118 of file main.cpp.
6.36.4.3 ros::ServiceServer MapServer::get_service [private]
Definition at line 117 of file main.cpp.
6.36.4.4 const char* MapServer::homedir [private]
Definition at line 111 of file main.cpp.
6.36.4.5 ros::Publisher MapServer::map_pub [private]
Definition at line 115 of file main.cpp.
6.36.4.6 nav_msgs::GetMap::Response MapServer::map_resp_ [private]
Definition at line 285 of file main.cpp.
6.36.4.7 nav_msgs::MapMetaData MapServer::meta_data_message_ [private]
The map data is cached here, to be sent out to service callers
Definition at line 284 of file main.cpp.
6.36.4.8 ros::Publisher MapServer::metadata_pub [private]
Definition at line 116 of file main.cpp.
6.36.4.9 ros::NodeHandle MapServer::n [private]
Definition at line 114 of file main.cpp.
6.36.4.10 ros::ServiceServer MapServer::test_service [private]
Definition at line 117 of file main.cpp.
6.36.4.11 bool MapServer::upload_map_trigger [private]
Definition at line 113 of file main.cpp.
6.36.4.12 std::string MapServer::upload_map_trigger_name [private]
Definition at line 112 of file main.cpp.
```

6.36.4.13 ros::ServiceServer MapServer::upload_service [private]

Definition at line 117 of file main.cpp.

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

/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/src/main.cpp

6.37 mysql_wrapper_old.MySQLdbWrapper Class Reference

The mysql wrapper ros node.

Public Member Functions

def init

Default contructor.

- · def authTokenByService
- · def authTokenByServiceDataHandler

The authTokenByService service callback.

· def checkConnection

Checks connectivity to the DB.

def constructAndQuery

Construcs the where= ... and where=...

• def constructCommaColumns

Places commas between columns and constructs a string.

· def deleteData

Implements the general delete data from table function.

def fetchData

Implements the general fetch data from table function.

def getLogin

Loads login details from file.

def getTableColumnNames

Gets the columns of the table.

def tblAppsRobotsDeleteDataHandler

The tbl appsRobots delete data service callback.

· def tblAppsRobotsFetchDataHandler

The tbl appsRobots fetch data service callback.

• def tblAppsRobotsUpdateDataHandler

The tbl appsRobots update data service callback.

def tblAppsRobotsWriteDataHandler

The tbl appsRobots write data service callback.

· def tblCloudAgentDeleteDataHandler

The tbl cloud_agent delete data service callback.

def tblCloudAgentFetchDataHandler

The tbl cloud agent fetch data service callback.

· def tblCloudAgentServiceArgumentsDeleteDataHandler

The tbl cloud_agent_service_arguments delete data service callback.

def tblCloudAgentServiceArgumentsFetchDataHandler

The tbl cloud_agent_service_arguments fetch data service callback.

· def tblCloudAgentServiceArgumentsUpdateDataHandler

The tbl cloud_agent_service_arguments update data service callback.

· def tblCloudAgentServiceArgumentsWriteDataHandler

The tbl cloud_agent_service_arguments write data service callback.

def tblCloudAgentServiceDeleteDataHandler

The tbl cloud_agent_service delete data service callback.

def tblCloudAgentServiceFetchDataHandler

The tbl cloud_agent_service fetch data service callback.

· def tblCloudAgentServiceUpdateDataHandler

The tbl cloud_agent_service update data service callback.

• def tblCloudAgentServiceWriteDataHandler

The tbl cloud_agent_service write data service callback.

def tblCloudAgentUpdateDataHandler

The tbl cloud_agent update data service callback.

def tblCloudAgentWriteDataHandler

The tbl cloud_agent write data service callback.

· def tblModelDeleteDataHandler

The tbl model delete data service callback.

· def tblModelFetchDataHandler

The tbl model fetch data service callback.

def tblModelUpdateDataHandler

The tbl model update data service callback.

· def tblModelWriteDataHandler

The tbl model write data service callback.

def tblRappDeleteDataHandler

The tbl rapp delete data service callback.

def tblRappFetchDataHandler

The tbl rapp fetch data service callback.

def tblRappUpdateDataHandler

The tbl rapp update data service callback.

· def tblRappWriteDataHandler

The tbl rapp write data service callback.

def tblRobotDeleteDataHandler

The tbl robot delete data service callback.

· def tblRobotFetchDataHandler

The tbl robot fetch data service callback.

def tblRobotUpdateDataHandler

The tbl robot update data service callback.

def tblRobotWriteDataHandler

The tbl robot write data service callback.

· def tblUserDeleteDataHandler

The tbl user delete data service callback.

· def tblUserFetchDataHandler

The tbl user fetch data service callback.

· def tblUsersOntologyInstancesDeleteDataHandler

The tbl usersOntologyInstances delete data service callback.

def tblUsersOntologyInstancesFetchDataHandler

The tbl usersOntologyInstances fetch data service callback.

• def tblUsersOntologyInstancesUpdateDataHandler

The tbl usersOntologyInstances update data service callback.

def tblUsersOntologyInstancesWriteDataHandler

The tbl usersOntologyInstances write data service callback.

· def tblUserUpdateDataHandler

The tbl user update data service callback.

· def tblUserWriteDataHandler

The tbl user write data service callback.

· def updateData

Implements the general update data from table function.

def viewUsersRobotsAppsFetchDataHandler

The view usersRobotsApps fetch data service callback.

def whatRappsCanRun

Implements the whatRappsCanRun service.

• def whatRappsCanRunDataHandler

The what rappRappCanRun service callback.

· def writeData

Implements the general write data to table function.

Public Attributes

- serv
- serv_topic

6.37.1 Detailed Description

The mysql wrapper ros node.

Definition at line 49 of file mysql_wrapper_old.py.

6.37.2 Constructor & Destructor Documentation

6.37.2.1 def mysql_wrapper_old.MySQLdbWrapper.__init__ (self)

Default contructor.

Declares the callbacks of the node's services

Definition at line 54 of file mysql_wrapper_old.py.

6.37.3 Member Function Documentation

6.37.3.1 def mysql_wrapper_old.MySQLdbWrapper.authTokenByService (self, req)

Definition at line 418 of file mysql_wrapper_old.py.

6.37.3.2 def mysql_wrapper_old.MySQLdbWrapper.authTokenByServiceDataHandler (self, req)

The authTokenByService service callback.

Parameters

req	[rapp_platform_ros_communications::authTokenByServiceSrvResponse::Request&] The R-
	OS service request

res [rapp_platform_ros_communications::authTokenByServiceSrvRequest::Response&] The R-OS service response

Definition at line 738 of file mysql_wrapper_old.py.

6.37.3.3 def mysql_wrapper_old.MySQLdbWrapper.checkConnection (self)

Checks connectivity to the DB.

Returns

[void] Connection performed successfully

Definition at line 515 of file mysql_wrapper_old.py.

6.37.3.4 def mysql_wrapper_old.MySQLdbWrapper.constructAndQuery (self, cols)

Construcs the where= ... and where=...

clause

Parameters

cols	[list] the columns needed to construct the clause

Returns

returnquery [string] the And clause

Definition at line 474 of file mysql_wrapper_old.py.

6.37.3.5 def mysql_wrapper_old.MySQLdbWrapper.constructCommaColumns (self, cols)

Places commas between columns and constructs a string.

Parameters

cols	[list] the input columns

Returns

returncols [string] the output string

Definition at line 456 of file mysql_wrapper_old.py.

6.37.3.6 def mysql_wrapper_old.MySQLdbWrapper.deleteData (self, req, tblName)

Implements the general delete data from table function.

Parameters

req	[rapp_platform_ros_communications::deleteDataSrvRequest::Request&] The ROS service
	request
tblName	[string] the table name
res	[rapp_platform_ros_communications::deleteDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 276 of file mysql_wrapper_old.py.

6.37.3.7 def mysql_wrapper_old.MySQLdbWrapper.fetchData (self, req, tblName)

Implements the general fetch data from table function.

req	[rapp_platform_ros_communications::fetchDataSrvRequest::Request&] The ROS service re-
	quest
tblName	[string] the table name
res	[rapp_platform_ros_communications::fetchDataSrvResponse::Response&] The ROS service
	response

Definition at line 342 of file mysql_wrapper_old.py.

6.37.3.8 def mysql_wrapper_old.MySQLdbWrapper.getLogin (self)

Loads login details from file.

Returns

[void] Login details loaded successfully

Definition at line 505 of file mysql_wrapper_old.py.

6.37.3.9 def mysql_wrapper_old.MySQLdbWrapper.getTableColumnNames (self, tblName)

Gets the columns of the table.

Returns

Columns [list] the columns of the table

Definition at line 489 of file mysql_wrapper_old.py.

6.37.3.10 def mysql_wrapper_old.MySQLdbWrapper.tblAppsRobotsDeleteDataHandler (self, req)

The tbl appsRobots delete data service callback.

Parameters

req	[rapp_platform_ros_communications::deleteDataSrvRequest::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::deleteDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 674 of file mysql_wrapper_old.py.

 $6.37.3.11 \quad def \ mysql_wrapper_old.MySQLdbWrapper.tblAppsRobotsFetchDataHandler (\ \textit{self}, \ \textit{req} \)$

The tbl appsRobots fetch data service callback.

Parameters

req	[rapp_platform_ros_communications::fetchDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::fetchDataSrvResponse::Response&] The ROS service
	response

Definition at line 658 of file mysql_wrapper_old.py.

6.37.3.12 def mysql_wrapper_old.MySQLdbWrapper.tblAppsRobotsUpdateDataHandler (self, req)

The tbl appsRobots update data service callback.

Parameters

req	[rapp_platform_ros_communications::updateDataSrvRequest::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::updateDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 682 of file mysql_wrapper_old.py.

6.37.3.13 def mysql_wrapper_old.MySQLdbWrapper.tblAppsRobotsWriteDataHandler (self, req)

The tbl appsRobots write data service callback.

Parameters

req	[rapp_platform_ros_communications::writeDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service re-
	sponse

Definition at line 666 of file mysql_wrapper_old.py.

6.37.3.14 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentDeleteDataHandler (self, req)

The tbl cloud_agent delete data service callback.

Parameters

req	[rapp_platform_ros_communications::deleteDataSrvRequest::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::deleteDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 764 of file mysql_wrapper_old.py.

6.37.3.15 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentFetchDataHandler (self, req)

The tbl cloud_agent fetch data service callback.

Parameters

req	[rapp_platform_ros_communications::fetchDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::fetchDataSrvResponse::Response&] The ROS service
	response

Definition at line 748 of file mysql_wrapper_old.py.

6.37.3.16 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentServiceArgumentsDeleteDataHandler (self, req)

The tbl cloud_agent_service_arguments delete data service callback.

Parameters

req	[rapp_platform_ros_communications::deleteDataSrvRequest::Request&] The ROS service
	request

res	[rapp_platform_ros_communications::deleteDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 828 of file mysql_wrapper_old.py.

6.37.3.17 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentServiceArgumentsFetchDataHandler (self, req)

The tbl cloud_agent_service_arguments fetch data service callback.

Parameters

req	[rapp_platform_ros_communications::fetchDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::fetchDataSrvResponse::Response&] The ROS service
	response

Definition at line 812 of file mysql_wrapper_old.py.

6.37.3.18 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentServiceArgumentsUpdateDataHandler (self, req)

The tbl cloud_agent_service_arguments update data service callback.

Parameters

req	[rapp_platform_ros_communications::updateDataSrvRequest::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::updateDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 836 of file mysql_wrapper_old.py.

 $6.37.3.19 \quad def \ mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentServiceArgumentsWriteDataHandler (\ \textit{self, req} \)$

The tbl cloud_agent_service_arguments write data service callback.

Parameters

req	[rapp_platform_ros_communications::writeDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service re-
	sponse

Definition at line 820 of file mysql_wrapper_old.py.

6.37.3.20 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentServiceDeleteDataHandler (self, req)

The tbl cloud_agent_service delete data service callback.

Parameters

req	[rapp_platform_ros_communications::deleteDataSrvRequest::Request&] The ROS service
·	request
res	[rapp_platform_ros_communications::deleteDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 796 of file mysql_wrapper_old.py.

6.37.3.21 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentServiceFetchDataHandler (self, req)

The tbl cloud_agent_service fetch data service callback.

req	[rapp_platform_ros_communications::fetchDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::fetchDataSrvResponse::Response&] The ROS service
	response

Definition at line 780 of file mysql_wrapper_old.py.

6.37.3.22 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentServiceUpdateDataHandler (self, req)

The tbl cloud_agent_service update data service callback.

Parameters

req	[rapp_platform_ros_communications::updateDataSrvRequest::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::updateDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 804 of file mysql_wrapper_old.py.

6.37.3.23 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentServiceWriteDataHandler (self, req)

The tbl cloud_agent_service write data service callback.

Parameters

req	[rapp_platform_ros_communications::writeDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service re-
	sponse

Definition at line 788 of file mysql_wrapper_old.py.

6.37.3.24 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentUpdateDataHandler (self, req)

The tbl cloud_agent update data service callback.

Parameters

req	[rapp_platform_ros_communications::updateDataSrvRequest::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::updateDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 772 of file mysql_wrapper_old.py.

6.37.3.25 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentWriteDataHandler (self, req)

The tbl cloud_agent write data service callback.

Parameters

req	[rapp_platform_ros_communications::writeDataSrvRequest::Request&] The ROS service re-
	quest

res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service re-
	sponse

Definition at line 756 of file mysql_wrapper_old.py.

6.37.3.26 def mysql_wrapper_old.MySQLdbWrapper.tblModelDeleteDataHandler (self, req)

The tbl model delete data service callback.

Parameters

req	[rapp_platform_ros_communications::deleteDataSrvRequest::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::deleteDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 578 of file mysql_wrapper_old.py.

6.37.3.27 def mysql_wrapper_old.MySQLdbWrapper.tblModelFetchDataHandler (self, req)

The tbl model fetch data service callback.

Parameters

req	[rapp_platform_ros_communications::fetchDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::fetchDataSrvResponse::Response&] The ROS service
	response

Definition at line 562 of file mysql_wrapper_old.py.

6.37.3.28 def mysql_wrapper_old.MySQLdbWrapper.tblModelUpdateDataHandler (self, req)

The tbl model update data service callback.

Parameters

	req	[rapp_platform_ros_communications::updateDataSrvRequest::Request&] The ROS service
		request
Ī	res	[rapp_platform_ros_communications::updateDataSrvResponse::Response&] The ROS ser-
		vice response

Definition at line 586 of file mysql_wrapper_old.py.

6.37.3.29 def mysql_wrapper_old.MySQLdbWrapper.tblModelWriteDataHandler (self, req)

The tbl model write data service callback.

Parameters

req	[rapp_platform_ros_communications::writeDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::writeDataSrvResponse::Response&] The ROS service
	response

Definition at line 570 of file mysql_wrapper_old.py.

6.37.3.30 def mysql_wrapper_old.MySQLdbWrapper.tblRappDeleteDataHandler (self, req)

The tbl rapp delete data service callback.

re	q [rapp_platform_ros_communications::deleteDataSrvRequest::Request&] The ROS service
	request
re	[rapp_platform_ros_communications::deleteDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 610 of file mysql_wrapper_old.py.

6.37.3.31 def mysql_wrapper_old.MySQLdbWrapper.tblRappFetchDataHandler (self, req)

The tbl rapp fetch data service callback.

Parameters

req	[rapp_platform_ros_communications::fetchDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::fetchDataSrvResponse::Response&] The ROS service
	response

Definition at line 594 of file mysql_wrapper_old.py.

6.37.3.32 def mysql_wrapper_old.MySQLdbWrapper.tblRappUpdateDataHandler (self, req)

The tbl rapp update data service callback.

Parameters

req	[rapp_platform_ros_communications::updateDataSrvRequest::Request&] The ROS service request
res	[rapp_platform_ros_communications::updateDataSrvResponse::Response&] The ROS service response

Definition at line 618 of file mysql_wrapper_old.py.

 $6.37.3.33 \quad def \ mysql_wrapper_old.MySQLdbWrapper.tblRappWriteDataHandler (\ \textit{self, req} \)$

The tbl rapp write data service callback.

Parameters

req	[rapp_platform_ros_communications::writeDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service re-
	sponse

Definition at line 602 of file mysql_wrapper_old.py.

 $6.37.3.34 \quad def \ mysql_wrapper_old.MySQLdbWrapper.tblRobotDeleteDataHandler (\ \textit{self, req} \)$

The tbl robot delete data service callback.

Parameters

req	[rapp_platform_ros_communications::deleteDataSrvRequest::Request&] The ROS service
	request

res	[rapp_platform_ros_communications::deleteDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 642 of file mysql_wrapper_old.py.

6.37.3.35 def mysql_wrapper_old.MySQLdbWrapper.tblRobotFetchDataHandler (self, req)

The tbl robot fetch data service callback.

Parameters

	req	[rapp_platform_ros_communications::fetchDataSrvRequest::Request&] The ROS service re-
		quest
Ī	res	[rapp_platform_ros_communications::fetchDataSrvResponse::Response&] The ROS service
		response

Definition at line 626 of file mysql_wrapper_old.py.

6.37.3.36 def mysql_wrapper_old.MySQLdbWrapper.tblRobotUpdateDataHandler (self, req)

The tbl robot update data service callback.

Parameters

req	[rapp_platform_ros_communications::updateDataSrvRequest::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::updateDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 650 of file mysql_wrapper_old.py.

6.37.3.37 def mysql_wrapper_old.MySQLdbWrapper.tblRobotWriteDataHandler (self, req)

The tbl robot write data service callback.

Parameters

req	[rapp_platform_ros_communications::writeDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service re-
	sponse

Definition at line 634 of file mysql_wrapper_old.py.

 $6.37.3.38 \quad def \ mysql_wrapper_old.MySQLdbWrapper.tblUserDeleteDataHandler (\ \textit{self, req} \)$

The tbl user delete data service callback.

Parameters

req	[rapp_platform_ros_communications::deleteDataSrvRequest::Request&] The ROS service request
res	[rapp_platform_ros_communications::deleteDataSrvResponse::Response&] The ROS service response

Definition at line 546 of file mysql_wrapper_old.py.

6.37.3.39 def mysql_wrapper_old.MySQLdbWrapper.tblUserFetchDataHandler (self, req)

The tbl user fetch data service callback.

req	[rapp_platform_ros_communications::fetchDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::fetchDataSrvResponse::Response&] The ROS service
	response

Definition at line 530 of file mysql_wrapper_old.py.

6.37.3.40 def mysql_wrapper_old.MySQLdbWrapper.tblUsersOntologyInstancesDeleteDataHandler (self, req)

The tbl usersOntologyInstances delete data service callback.

Parameters

req	[rapp_platform_ros_communications::deleteDataSrvRequest::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::deleteDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 706 of file mysql_wrapper_old.py.

6.37.3.41 def mysql_wrapper_old.MySQLdbWrapper.tblUsersOntologyInstancesFetchDataHandler (self, req)

The tbl usersOntologyInstances fetch data service callback.

Parameters

req	[rapp_platform_ros_communications::fetchDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::fetchDataSrvResponse::Response&] The ROS service
	response

Definition at line 690 of file mysql_wrapper_old.py.

6.37.3.42 def mysql_wrapper_old.MySQLdbWrapper.tblUsersOntologyInstancesUpdateDataHandler (self, req)

The tbl usersOntologyInstances update data service callback.

Parameters

req	[rapp_platform_ros_communications::updateDataSrvRequest::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::updateDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 714 of file mysql_wrapper_old.py.

6.37.3.43 def mysql_wrapper_old.MySQLdbWrapper.tblUsersOntologyInstancesWriteDataHandler (self, req)

The tbl usersOntologyInstances write data service callback.

Parameters

req	[rapp_platform_ros_communications::writeDataSrvRequest::Request&] The ROS service re-
	quest

res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service re-
	sponse

Definition at line 698 of file mysql_wrapper_old.py.

6.37.3.44 def mysql_wrapper_old.MySQLdbWrapper.tblUserUpdateDataHandler (self, req)

The tbl user update data service callback.

Parameters

req	[rapp_platform_ros_communications::updateDataSrvRequest::Request&] The ROS service
	request
res	[rapp_platform_ros_communications::updateDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 554 of file mysql_wrapper_old.py.

6.37.3.45 def mysql_wrapper_old.MySQLdbWrapper.tblUserWriteDataHandler (self, req)

The tbl user write data service callback.

Parameters

req	[rapp_platform_ros_communications::writeDataSrvRequest::Request&] The ROS service re-
	quest
res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service re-
	sponse

Definition at line 538 of file mysql_wrapper_old.py.

6.37.3.46 def mysql_wrapper_old.MySQLdbWrapper.updateData (self, req, tblName)

Implements the general update data from table function.

Parameters

req	[rapp_platform_ros_communications::updateDataSrvRequest::Request&] The ROS service
	request
tblName	[string] the table name
res	[rapp_platform_ros_communications::updateDataSrvResponse::Response&] The ROS ser-
	vice response

Definition at line 308 of file mysql_wrapper_old.py.

6.37.3.47 def mysql_wrapper_old.MySQLdbWrapper.viewUsersRobotsAppsFetchDataHandler (self, req)

The view usersRobotsApps fetch data service callback.

Parameters

req	[rapp_platform_ros_communications::fetchDataSrvRequest::Request&] The ROS service request
res	[rapp_platform_ros_communications::fetchDataSrvResponse::Response&] The ROS service
	response

Definition at line 722 of file mysql_wrapper_old.py.

6.37.3.48 def mysql_wrapper_old.MySQLdbWrapper.whatRappsCanRun (self, req, tblName)

Implements the whatRappsCanRun service.

Parameters

req	[rapp_platform_ros_communications::whatRappsCanRunSrvResponse::Request&] The RO-
	S service request
tblName	[string] the table name
res	[rapp_platform_ros_communications::whatRappsCanRunSrvResponse::Response&] The R-
	OS service response

Definition at line 386 of file mysql_wrapper_old.py.

6.37.3.49 def mysql_wrapper_old.MySQLdbWrapper.whatRappsCanRunDataHandler (self, req)

The what rappRappCanRun service callback.

Parameters

req	[rapp_platform_ros_communications::whatRappsCanRunSrvResponse::Request&] The ROS service request
res	[rapp_platform_ros_communications::whatRappsCanRunSrvRequest::Response&] The ROS service response

Definition at line 730 of file mysql_wrapper_old.py.

6.37.3.50 def mysql_wrapper_old.MySQLdbWrapper.writeData (self, req, tblName)

Implements the general write data to table function.

Parameters

req	[rapp_platform_ros_communications::writeDataSrvRequest::Request&] The ROS service request
tblName	[string] the table name
res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service re-
	sponse

Definition at line 233 of file mysql_wrapper_old.py.

6.37.4 Member Data Documentation

6.37.4.1 mysql_wrapper_old.MySQLdbWrapper.serv

Definition at line 59 of file mysql_wrapper_old.py.

6.37.4.2 mysql_wrapper_old.MySQLdbWrapper.serv_topic

Definition at line 56 of file mysql_wrapper_old.py.

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

• /home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper_old.py

6.38 mysql_wrapper.MySQLdbWrapper Class Reference

The mysql wrapper ros node.

Public Member Functions

def init

Default contructor.

def addStoreTokenToDevice

Implements the addStoreTokenToDevice service main function.

def addStoreTokenToDeviceDataHandler

The addStoreTokenToDeviceSrv service callback.

def checkActiveApplicationToken

Implements the checkActiveRobotSession service main function.

· def checkActiveApplicationTokenDataHandler

The checkActiveApplicationTokenSrv service callback.

· def checkActiveRobotSession

Implements the checkActiveRobotSession service main function.

· def checkActiveRobotSessionDataHandler

The checkActiveRobotSessionSrv service callback.

def checkConnection

Checks connectivity to the DB.

· def checkIfUserExists

Implements the checkIfUserExists service main function.

· def checkIfUserExistsDataHandler

The checkIfUserExistsSrv service callback.

• def createNewApplicationToken

Implements the createNewApplicationToken service main function.

def createNewApplicationTokenDataHandler

The createNewApplicationTokenSrv service callback.

def createNewCloudAgent

 ${\it Implements the create New Cloud Agent service \ main \ function}.$

def createNewCloudAgentDataHandler

The createNewCloudAgentSrv service callback.

def createNewCloudAgentService

Implements the createNewCloudAgentService service main function.

· def createNewCloudAgentServiceDataHandler

The createNewCloudAgentServiceSrv service callback.

· def createNewPlatformUser

Implements the createNewPlatformUser service main function.

• def createNewPlatformUserDataHandler

The createNewPlatformUserSrv service callback.

def getCloudAgentServiceTypeAndHostPort

Implements the getCloudAgentServiceTypeAndHostPort service main function.

def getCloudAgentServiceTypeAndHostPortDataHandler

The getCloudAgentServiceTypeAndHostPortSrv service callback.

def getLogin

Loads login details from file.

def getTableColumnNames

Gets the columns of the table.

def getUserLanguage

Implements the getUserLanguage service main function.

· def getUserLanguageDataHandler

The getUserLanguage service callback.

• def getUsernameAssociatedWithApplicationToken

Implements the getUsernameAssociatedWithApplicationToken service main function.

def getUsernameAssociatedWithApplicationTokenDataHandler

The getUsernameAssociatedWithApplicationTokenSrv service callback.

def getUserOntologyAlias

Implements the getUserOntologyAlias service main function.

• def getUserOntologyAliasDataHandler

The getUserOntologyAlias service callback.

· def getUserPassword

Implements the getUserPassword service main function.

· def getUserPasswordDataHandler

 ${\it The getUserPasswordSrv service callback}.$

· def registerNewTokenDataHandler

The registerNewTokenSrv service callback.

· def registerUserOntologyAlias

Implements the registerUserOntologyAlias service main function.

def registerUserOntologyAliasDataHandler

The registerUserOntologyAliasSrv service callback.

def removePlatformUser

Implements the removePlatformUser service main function.

def removePlatformUserDataHandler

The removePlatformUserSrv service callback.

• def validateExistingPlatformDeviceToken

Implements the validateExistingPlatformDeviceToken service main function.

def validateExistingPlatformDeviceTokenDataHandler

 $The\ validate Existing \textit{PlatformDeviceTokenSrv}\ service\ callback.$

· def validateUserRole

Implements the validateUserRole service main function.

• def validateUserRoleDataHandler

The validateUserRoleSrv service callback.

Public Attributes

- serv
- · serv topic

6.38.1 Detailed Description

The mysql wrapper ros node.

Definition at line 79 of file mysql_wrapper.py.

6.38.2 Constructor & Destructor Documentation

6.38.2.1 def mysql_wrapper.MySQLdbWrapper.__init__ (self)

Default contructor.

Declares the callbacks of the node's services

Definition at line 84 of file mysql_wrapper.py.

- 6.38.3 Member Function Documentation
- $6.38.3.1 \quad def \ mysql_wrapper. MySQL dbWrapper. addStoreTokenToDevice \left(\ \textit{self, req} \ \right)$

 $Implements\ the\ add Store Token To Device\ service\ main\ function.$

Parameters

req	[rapp_platform_ros_communications::addStoreTokenToDeviceSrvRequest::Request&]	The
	ROS service request	

Returns

res [rapp_platform_ros_communications::addStoreTokenToDeviceSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 507 of file mysql_wrapper.py.

6.38.3.2 def mysql_wrapper.MySQLdbWrapper.addStoreTokenToDeviceDataHandler (self, req)

The addStoreTokenToDeviceSrv service callback.

Parameters

req	[rapp_platform_ros_communications::addStoreTokenToDeviceSrvRequest::Request&]	The
	ROS service request	

Returns

res [rapp_platform_ros_communications::addStoreTokenToDeviceSrvResponse::Response&] The ROS service response

Definition at line 924 of file mysql_wrapper.py.

6.38.3.3 def mysql_wrapper.MySQLdbWrapper.checkActiveApplicationToken (self, req)

Implements the checkActiveRobotSession service main function.

Parameters

req	[rapp_platform_ros_communications::checkActiveRobotSessionSrvRequest::Request&] The
	ROS service request

Returns

res [rapp_platform_ros_communications::checkActiveRobotSessionSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 613 of file mysql_wrapper.py.

6.38.3.4 def mysql_wrapper.MySQLdbWrapper.checkActiveApplicationTokenDataHandler (self, req)

The checkActiveApplicationTokenSrv service callback.

req	[rapp_platform_ros_communications::checkActiveApplicationTokenSrvResponse::-
	Request&] The ROS service request

Returns

res [rapp_platform_ros_communications::checkActiveApplicationTokenSrvRequest::Response&] The ROS service response

Definition at line 908 of file mysql_wrapper.py.

6.38.3.5 def mysql_wrapper.MySQLdbWrapper.checkActiveRobotSession (self, req)

Implements the checkActiveRobotSession service main function.

Parameters

req	[rapp_platform_ros_communications::checkActiveRobotSessionSrvRequest::Request&] The
	ROS service request

Returns

res [rapp_platform_ros_communications::checkActiveRobotSessionSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 576 of file mysql_wrapper.py.

6.38.3.6 def mysql_wrapper.MySQLdbWrapper.checkActiveRobotSessionDataHandler (self, req)

The checkActiveRobotSessionSrv service callback.

Parameters

req	[rapp_platform_ros_communications::checkActiveRobotSessionSrvRequest::Request&] The
	ROS service request

Returns

res [rapp_platform_ros_communications::checkActiveRobotSessionSrvResponse::Response&] The ROS service response

Definition at line 916 of file mysql wrapper.py.

6.38.3.7 def mysql_wrapper.MySQLdbWrapper.checkConnection (self)

Checks connectivity to the DB.

Returns

[void] Connection performed successfully

Definition at line 821 of file mysql_wrapper.py.

6.38.3.8 def mysql_wrapper.MySQLdbWrapper.checklfUserExists (self, req)

Implements the checkIfUserExists service main function.

req	[rapp_platform_ros_communications::checkIfUserExistsSrvRequest::Request&] The Re	os
	service request	

Returns

res [rapp_platform_ros_communications::checklfUserExistsSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 291 of file mysql_wrapper.py.

6.38.3.9 def mysql_wrapper.MySQLdbWrapper.checklfUserExistsDataHandler (self, req)

The checkIfUserExistsSrv service callback.

Parameters

req	[rapp_platform_ros_communications::checklfUserExistsSrvResponse::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::checklfUserExistsSrvRequest::Response&] The ROS service response

Definition at line 868 of file mysql_wrapper.py.

6.38.3.10 def mysql_wrapper.MySQLdbWrapper.createNewApplicationToken (self, req)

Implements the createNewApplicationToken service main function.

Parameters

req	[rapp_platform_ros_communications::createNewApplicationTokenSrvRequest::Request&]
	The ROS service request

Returns

res [rapp_platform_ros_communications::createNewApplicationTokenSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 472 of file mysql_wrapper.py.

6.38.3.11 def mysql_wrapper.MySQLdbWrapper.createNewApplicationTokenDataHandler (self, req)

The createNewApplicationTokenSrv service callback.

Parameters

req	[rapp_platform_ros_communications::createNewApplicationTokenSrvResponse::Request&]
	The ROS service request

Returns

res [rapp_platform_ros_communications::createNewApplicationTokenSrvRequest::Response&] The ROS service response

Definition at line 900 of file mysql wrapper.py.

6.38.3.12 def mysql_wrapper.MySQLdbWrapper.createNewCloudAgent (self, req)

Implements the createNewCloudAgent service main function.

Parameters

req	[rapp_platform_ros_communications::createNewCloudAgentSrvRequest::Request&] The R-
	OS service request

Returns

res [rapp_platform_ros_communications::createNewCloudAgentSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 688 of file mysql_wrapper.py.

6.38.3.13 def mysql_wrapper.MySQLdbWrapper.createNewCloudAgentDataHandler (self, req)

The createNewCloudAgentSrv service callback.

Parameters

req	[rapp_platform_ros_communications::createNewCloudAgentSrvRequest::Request&] The R-
	OS service request

Returns

res [rapp_platform_ros_communications::createNewCloudAgentSrvResponse::Response&] The ROS service response

Definition at line 956 of file mysql_wrapper.py.

6.38.3.14 def mysql_wrapper.MySQLdbWrapper.createNewCloudAgentService (self, req)

Implements the createNewCloudAgentService service main function.

req	[rapp_platform_ros_communications::createNewCloudAgentServiceSrvRequest::Request&]
	The ROS service request

Returns

res [rapp_platform_ros_communications::createNewCloudAgentServiceSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 723 of file mysql_wrapper.py.

6.38.3.15 def mysql_wrapper.MySQLdbWrapper.createNewCloudAgentServiceDataHandler (self, req)

The createNewCloudAgentServiceSrv service callback.

Parameters

req	[rapp_platform_ros_communications::createNewCloudAgentServiceSrvRequest::Request&]
	The ROS service request

Returns

res [rapp_platform_ros_communications::createNewCloudAgentServiceSrvResponse::Response&] The ROS service response

Definition at line 964 of file mysql_wrapper.py.

6.38.3.16 def mysql_wrapper.MySQLdbWrapper.createNewPlatformUser (self, req)

Implements the createNewPlatformUser service main function.

Parameters

req	[rapp_platform_ros_communications::createNewPlatformUserSrvRequest::Request&]	The
	ROS service request	

Returns

res [rapp_platform_ros_communications::createNewPlatformUserSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 402 of file mysql_wrapper.py.

6.38.3.17 def mysql_wrapper.MySQLdbWrapper.createNewPlatformUserDataHandler (self, reg)

The createNewPlatformUserSrv service callback.

Parameters

req	[rapp_platform_ros_communications::createNewPlatformUserSrvResponse::Request&] The
	ROS service request

Returns

res [rapp_platform_ros_communications::createNewPlatformUserSrvRequest::Response&] The ROS service response

Definition at line 892 of file mysql_wrapper.py.

 $6.38.3.18 \quad def \ mysql_wrapper. MySQL dbWrapper. getCloudAgentServiceTypeAndHostPort (\ \textit{self, req} \)$

Implements the getCloudAgentServiceTypeAndHostPort service main function.

Parameters

req	[rapp_platform_ros_communications::getCloudAgentServiceTypeAndHostPortSrvRequest::-
	Request&] The ROS service request

Returns

res [rapp_platform_ros_communications::getCloudAgentServiceTypeAndHostPortSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 759 of file mysql_wrapper.py.

6.38.3.19 def mysql_wrapper.MySQLdbWrapper.getCloudAgentServiceTypeAndHostPortDataHandler (self, req)

The getCloudAgentServiceTypeAndHostPortSrv service callback.

Parameters

req	[rapp_platform_ros_communications::getCloudAgentServiceTypeAndHostPortSrvRequest::-
	Request&] The ROS service request

Returns

res [rapp_platform_ros_communications::getCloudAgentServiceTypeAndHostPortSrvResponse::Response&] The ROS service response

Definition at line 972 of file mysql_wrapper.py.

 $6.38.3.20 \quad def \ mysql_wrapper. MySQLdbWrapper. getLogin \left(\ \ \textit{self} \ \right)$

Loads login details from file.

Returns

db_username [string] the login username db_password [string] the login password

Definition at line 811 of file mysql_wrapper.py.

 $6.38.3.21 \quad def \ mysql_wrapper.MySQLdbWrapper.getTableColumnNames (\ \textit{self, tblName} \)$

Gets the columns of the table.

Parameters

tblName	[string] the name of the table

Returns

Columns [list] the columns of the table

Definition at line 794 of file mysql_wrapper.py.

6.38.3.22 def mysql_wrapper.MySQLdbWrapper.getUserLanguage (self, req)

Implements the getUserLanguage service main function.

Parameters

req	[rapp_platform_ros_communications::getUserLanguageSrvRequest::Request&]	The	ROS
	service request		

Returns

res [rapp_platform_ros_communications::getUserLanguageSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 252 of file mysql_wrapper.py.

6.38.3.23 def mysql_wrapper.MySQLdbWrapper.getUserLanguageDataHandler (self, req)

The getUserLanguage service callback.

Parameters

req	[rapp_platform_ros_communications::getUserLanguageSrvResponse::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::getUserLanguageSrvRequest::Response&] The ROS service response

Definition at line 852 of file mysql_wrapper.py.

6.38.3.24 def mysql_wrapper.MySQLdbWrapper.getUsernameAssociatedWithApplicationToken (self, req)

Implements the getUsernameAssociatedWithApplicationToken service main function.

Parameters

req	[rapp_platform_ros_communications::getUsernameAssociatedWithApplicationTokenSrv-
	Request::Request&] The ROS service request

Returns

res [rapp_platform_ros_communications::getUsernameAssociatedWithApplicationTokenSrvResponse::-Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 365 of file mysql_wrapper.py.

6.38.3.25 def mysql_wrapper.MySQLdbWrapper.getUsernameAssociatedWithApplicationTokenDataHandler (self, req)

The getUsernameAssociatedWithApplicationTokenSrv service callback.

Parameters

req	[rapp_platform_ros_communications::getUsernameAssociatedWithApplicationTokenSrv-
	Response::Request&] The ROS service request

Returns

res [rapp_platform_ros_communications::getUsernameAssociatedWithApplicationTokenSrvRequest::-Response&] The ROS service response

Definition at line 884 of file mysql_wrapper.py.

6.38.3.26 def mysql_wrapper.MySQLdbWrapper.getUserOntologyAlias (self, req)

Implements the getUserOntologyAlias service main function.

Parameters

req	[rapp_platform_ros_communications::getUserOntologyAliasSrvRequest::Request&] The R-
	OS service request

Returns

res [rapp_platform_ros_communications::getUserOntologyAliasSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 179 of file mysql_wrapper.py.

 $6.38.3.27 \quad def \ mysql_wrapper. \\ MySQL dbWrapper. \\ get User Ontology Alias Data Handler \left(\begin{array}{c} \textit{self, req} \end{array} \right)$

The getUserOntologyAlias service callback.

Parameters

req	[rapp_platform_ros_communications::getUserOntologyAliasSrvResponse::Request&]	The
	ROS service request	

Returns

res [rapp_platform_ros_communications::getUserOntologyAliasSrvRequest::Response&] The ROS service response

Definition at line 836 of file mysql_wrapper.py.

6.38.3.28 def mysql_wrapper.MySQLdbWrapper.getUserPassword (self, req)

Implements the getUserPassword service main function.

Parameters

req	[rapp_platform_ros_communications::getUserPasswordSrvRequest::Request&]	The	ROS
	service request		

Returns

res [rapp_platform_ros_communications::getUserPasswordSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 328 of file mysql_wrapper.py.

6.38.3.29 def mysql_wrapper.MySQLdbWrapper.getUserPasswordDataHandler (self, req)

The getUserPasswordSrv service callback.

Parameters

req	[rapp_platform_ros_communications::getUserPasswordSrvResponse::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::getUserPasswordSrvRequest::Response&] The ROS service response

Definition at line 876 of file mysql_wrapper.py.

6.38.3.30 def mysql_wrapper.MySQLdbWrapper.registerNewTokenDataHandler (self, req)

The registerNewTokenSrv service callback.

Parameters

req	[rapp_platform_ros_communications::registerNewTokenSrvResponse::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::registerNewTokenSrvRequest::Response&] The ROS service response

Definition at line 860 of file mysql_wrapper.py.

6.38.3.31 def mysql_wrapper.MySQLdbWrapper.registerUserOntologyAlias (self, req)

Implements the registerUserOntologyAlias service main function.

req	[rapp_platform_ros_communications::registerUserOntologyAliasSrvRequest::Request&]	
	The ROS service request	

Returns

res [rapp_platform_ros_communications::registerUserOntologyAliasSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 216 of file mysql_wrapper.py.

6.38.3.32 def mysql_wrapper.MySQLdbWrapper.registerUserOntologyAliasDataHandler (self, req)

The registerUserOntologyAliasSrv service callback.

Parameters

req	[rapp_platform_ros_communications::registerUserOntologyAliasSrvResponse::Request&]
	The ROS service request

Returns

res [rapp_platform_ros_communications::registerUserOntologyAliasSrvRequest::Response&] The ROS service response

Definition at line 844 of file mysql_wrapper.py.

6.38.3.33 def mysql_wrapper.MySQLdbWrapper.removePlatformUser (self, req)

Implements the removePlatformUser service main function.

Parameters

req	[rapp_platform_ros_communications::removePlatformUserSrvRequest::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::removePlatformUserSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 437 of file mysql_wrapper.py.

6.38.3.34 def mysql_wrapper.MySQLdbWrapper.removePlatformUserDataHandler (self, req)

The removePlatformUserSrv service callback.

Parameters

req	[rapp_platform_ros_communications::removePlatformUserSrvRequest::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::removePlatformUserSrvResponse::Response&] The ROS service response

Definition at line 948 of file mysql wrapper.py.

6.38.3.35 def mysql_wrapper.MySQLdbWrapper.validateExistingPlatformDeviceToken (self, req)

Implements the validateExistingPlatformDeviceToken service main function.

Parameters

req	[rapp_platform_ros_communications::validateExistingPlatformDeviceTokenSrvRequest::-
	Request&] The ROS service request

Returns

res [rapp_platform_ros_communications::validateExistingPlatformDeviceTokenSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 650 of file mysql_wrapper.py.

6.38.3.36 def mysql_wrapper.MySQLdbWrapper.validateExistingPlatformDeviceTokenDataHandler (self, reg)

The validateExistingPlatformDeviceTokenSrv service callback.

Parameters

req	[rapp_platform_ros_communications::validateExistingPlatformDeviceTokenSrvRequest::-
	Request&] The ROS service request

Returns

res [rapp_platform_ros_communications::validateExistingPlatformDeviceTokenSrvResponse::Response&] The ROS service response

Definition at line 940 of file mysql_wrapper.py.

6.38.3.37 def mysql_wrapper.MySQLdbWrapper.validateUserRole (self, req)

Implements the validateUserRole service main function.

req	[rapp_platform_ros_communications::validateUserRoleSrvRequest::Request&]	The	ROS
	service request		

Returns

res [rapp_platform_ros_communications::validateUserRoleSrvResponse::Response&] The ROS service response

Exceptions

Exception	IndexError
Exception	IOError
Exception	mdbError

Definition at line 543 of file mysql_wrapper.py.

6.38.3.38 def mysql_wrapper.MySQLdbWrapper.validateUserRoleDataHandler (self, req)

The validateUserRoleSrv service callback.

Parameters

req	[rapp_platform_ros_communications::validateUserRoleSrvRequest::Request&]	The	ROS
	service request		

Returns

res [rapp_platform_ros_communications::validateUserRoleSrvResponse::Response&] The ROS service response

Definition at line 932 of file mysql_wrapper.py.

6.38.4 Member Data Documentation

6.38.4.1 mysql_wrapper.MySQLdbWrapper.serv

Definition at line 89 of file mysql_wrapper.py.

6.38.4.2 mysql_wrapper.MySQLdbWrapper.serv_topic

Definition at line 86 of file mysql_wrapper.py.

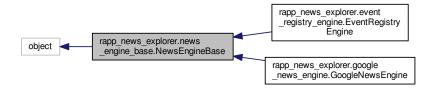
The documentation for this class was generated from the following file:

/home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper.py

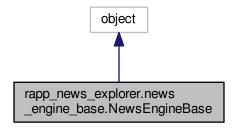
6.39 rapp_news_explorer.news_engine_base.NewsEngineBase Class Reference

Base class for news engines.

Inheritance diagram for rapp_news_explorer.news_engine_base.NewsEngineBase:



Collaboration diagram for rapp_news_explorer.news_engine_base.NewsEngineBase:



Public Member Functions

• def __init__

Constructor.

· def fetch_news

Abstract method to fetch news from news engine.

Public Attributes

• rapp_http_json_parser

Strips html tags from strings.

Private Attributes

· _accepted_status

The value of valid response status code.

• _http_request

Perform http requests to servers.

• _url

The base news engine url.

Static Private Attributes

• __metaclass__ = abc.ABCMeta

6.39.1 Detailed Description

Base class for news engines.

Definition at line 32 of file news_engine_base.py.

6.39.2 Constructor & Destructor Documentation

6.39.2.1 def rapp_news_explorer.news_engine_base.NewsEngineBase.__init__ (self)

Constructor.

Definition at line 37 of file news_engine_base.py.

6.39.3 Member Function Documentation

6.39.3.1 def rapp_news_explorer.news_engine_base.NewsEngineBase.fetch_news (self, req)

Abstract method to fetch news from news engine.

Definition at line 52 of file news_engine_base.py.

6.39.4 Member Data Documentation

6.39.4.1 rapp_news_explorer.news_engine_base.NewsEngineBase.__metaclass__ = abc.ABCMeta [static], [private]

Definition at line 34 of file news_engine_base.py.

6.39.4.2 rapp_news_explorer.news_engine_base.NewsEngineBase._accepted_status [private]

The value of valid response status code.

Definition at line 42 of file news_engine_base.py.

6.39.4.3 rapp_news_explorer.news_engine_base.NewsEngineBase._http_request [private]

Perform http requests to servers.

Definition at line 45 of file news engine base.py.

6.39.4.4 rapp_news_explorer.news_engine_base.NewsEngineBase._url [private]

The base news engine url.

Definition at line 39 of file news_engine_base.py.

6.39.4.5 rapp_news_explorer.news_engine_base.NewsEngineBase.rapp_http_json_parser

Strips html tags from strings.

Definition at line 48 of file news engine base.py.

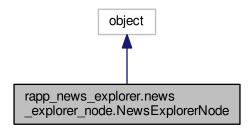
The documentation for this class was generated from the following file:

/home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/news_engine_base.py

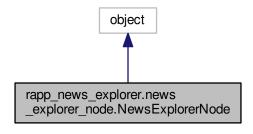
6.40 rapp_news_explorer.news_explorer_node.NewsExplorerNode Class Reference

Fetches news from various News sites' APIs.

Inheritance diagram for rapp_news_explorer.news_explorer_node.NewsExplorerNode:



 $Collaboration\ diagram\ for\ rapp_news_explorer.news_explorer_node. News Explorer Node:$



Public Member Functions

def __init__

Constructor.

· def fetch_news_srv_callback

The callback to fetch news.

Private Member Functions

· def _create_service_response

The callback to fetch news.

Private Attributes

• _engine_factory

Factory that returns proper news engine.

6.40.1 Detailed Description

Fetches news from various News sites' APIs.

Definition at line 38 of file news_explorer_node.py.

6.40.2 Constructor & Destructor Documentation

6.40.2.1 def rapp_news_explorer.news_explorer_node.NewsExplorerNode.__init__ (self)

Constructor.

Definition at line 41 of file news_explorer_node.py.

6.40.3 Member Function Documentation

6.40.3.1 def rapp_news_explorer.news_explorer_node.NewsExplorerNode._create_service_response (*self, results*) [private]

The callback to fetch news.

Parameters

results	[list <dict>] The server results containing the stories</dict>
---------	--

Returns

res [rapp_platform_ros_communications::NewsExplorer::NewsExplorerSrvResponse] The service response

Definition at line 88 of file news_explorer_node.py.

6.40.3.2 def rapp_news_explorer.news_explorer_node.NewsExplorerNode.fetch_news_srv_callback (self, req)

The callback to fetch news.

Parameters

r	LIC CONTRACTOR NOTE IN CONTRACTOR OF THE CONTRAC
rea ⊢ ira	rapp platform ros communications::NewsExplorer::NewsExplorerSrv] The service request

Returns

res [rapp_platform_ros_communications::NewsExplorer::NewsExplorerSrvResponse] The service response

Definition at line 65 of file news_explorer_node.py.

6.40.4 Member Data Documentation

6.40.4.1 rapp_news_explorer.news_explorer_node.NewsExplorerNode._engine_factory [private]

Factory that returns proper news engine.

Definition at line 43 of file news_explorer_node.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/news_explorer_node.py

6.41 ontology_class_bridge.OntologyClassBridge Class Reference

Contains the necessary functions for translating caffe classes to ontology classes.

Public Member Functions

- def getOntologyClassEquivalent
 Implements the getOntologyClassEquivalent service main function.
- def loadMappingIntoDictionary

Loads the caffeToOntologyClasses file into a dictionary.

6.41.1 Detailed Description

Contains the necessary functions for translating caffe classes to ontology classes.

Definition at line 31 of file ontology_class_bridge.py.

6.41.2 Member Function Documentation

6.41.2.1 def ontology_class_bridge.OntologyClassBridge.getOntologyClassEquivalent (self, req)

Implements the getOntologyClassEquivalent service main function.

Parameters

req	[rapp_platform_ros_communications::ontologyClassBridgeSrvRequest::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::ontologyClassBridgeSrvResponse::Response&] The ROS service response

Exceptions

Exception	KeyError

Definition at line 38 of file ontology class bridge.py.

6.41.2.2 def ontology_class_bridge.OntologyClassBridge.loadMappingIntoDictionary (self, mapFilePath)

Loads the caffeToOntologyClasses file into a dictionary.

mapFilePath [string] The path to the file containing the caffe to ontology classes equivalencies

Returns

caffeToOntologyClassesDict [dictionary] The dictionary containing the caffe to ontology classes

Definition at line 61 of file ontology_class_bridge.py.

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

/home/travis/rapp temp/rapp-platform/rapp caffe wrapper/src/ontology class bridge.py

6.42 PathPlanner Class Reference

Class that implements a path planning algorithm based on global_planner and map_server ROS nodes.

```
#include <path_planner.h>
```

Public Member Functions

PathPlanner (void)

Default constructor.

bool configureSequence (std::string seq_nr, std::string map_path, std::string robot_type, std::string algorithm, ros::NodeHandle &nh)

Configures sequence. Sets map, approprate costmap parameters for specified robot type, sets global_planner to use determined algorithm.

std::string setSequenceNR (ros::NodeHandle &nh_, int pathPlanningThreads_)

Determines next planning sequence (which global_planner and map_server should be used)

navfn::MakeNavPlanResponse startSequence (std::string seq_nr, geometry_msgs::PoseStamped request_start, geometry_msgs::PoseStamped request_goal, ros::NodeHandle &nh_)

Starts planning service of determined planning sequence.

6.42.1 Detailed Description

Class that implements a path planning algorithm based on global planner and map server ROS nodes.

Definition at line 12 of file path_planner.h.

6.42.2 Constructor & Destructor Documentation

6.42.2.1 PathPlanner::PathPlanner (void)

Default constructor.

Definition at line 4 of file path_planner.cpp.

6.42.3 Member Function Documentation

6.42.3.1 bool PathPlanner::configureSequence (std::string seq_nr, std::string map_path, std::string robot_type, std::string algorithm, ros::NodeHandle & nh_)

Configures sequence. Sets map, approprate costmap parameters for specified robot type, sets global_planner to use determined algorithm.

Parameters

seq_nr	[std::string] ID of current sequence,
map_path	[std::string] Path to the map that should be passed to global_planner,
robot_type	[std::string] Name of robot_type. It is used to configure costmap,
algorithm	[std::string] Name of algorithm that should be used by global_planner,
&nh_	[ros::NodeHandle] node handler for getParam() method,

Returns

[bool] Returns if sequence was configured correctly. Returns false if PathPlanner could not configure sequence in 5 sec.

Definition at line 26 of file path_planner.cpp.

6.42.3.2 std::string PathPlanner::setSequenceNR (ros::NodeHandle & nh_, int pathPlanningThreads_)

Determines next planning sequence (which global_planner and map_server should be used)

Parameters

&nh_	[ros::NodeHandle] node handler for getParam() method,
pathPlanning-	[int] Number of planning sequences,
Threads_	

Returns

[std::string] Next sequence nr.

Definition at line 9 of file path planner.cpp.

6.42.3.3 navfn::MakeNavPlanResponse PathPlanner::startSequence (std::string seq_nr, geometry_msgs::PoseStamped request_goal, ros::NodeHandle & nh_)

Starts planning service of determined planning sequence.

Parameters

start	[geometry_msgs::PoseStamped] Robot start pose,
finish	[geometry_msgs::PoseStamped] Robot goal pose.

Returns

[navfn::MakeNavPlanResponse]: -> plan_found: 0 : path cannot be planned. 1 : path found 2 : wrong map name 3 : wrong robot type 4 : wrong algorithm -> error_message : error explenation -> path : if plan_found is true, this is an array of waypoints from start to goal, where the first one equals start and the last one equals goal vector of PoseStamped objects

Definition at line 137 of file path_planner.cpp.

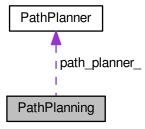
The documentation for this class was generated from the following files:

- /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/include/path_planning/path-planner.h
- /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/src/path_planner.cpp

6.43 PathPlanning Class Reference

#include <path_planning.h>

Collaboration diagram for PathPlanning:



Public Member Functions

- PathPlanning (void)
 - Default constructor.
- ∼PathPlanning (void)
- bool pathPlanningCallback (rapp_platform_ros_communications::PathPlanningRosSrv::Request &req, rapp-_platform_ros_communications::PathPlanningRosSrv::Response &res)

Determines next planning sequence (which global_planner and map_server should be used)

• bool uploadMapCallback (rapp_platform_ros_communications::MapServerUploadMapRosSrv::Request &req, rapp_platform_ros_communications::MapServerUploadMapRosSrv::Response &res)

Upload map to RAPP Platform.

Private Attributes

- std::vector< pid_t > GP_pIDs
- const char * homedir
- std::vector< pid_t > MS_pIDs
- std::vector
 - < geometry_msgs::PoseStamped > new_path
- ros::NodeHandle nh_
- PathPlanner path planner
- ros::ServiceServer pathPlanningService_
- int pathPlanningThreads_
- std::vector< ros::ServiceServer > pathPlanningThreadServices_
- std::string pathPlanningTopic_
- · double pose_dist_
- pid_t TP_pID
- ros::ServiceServer uploadMapService_
- std::string uploadMapTopic_

6.43.1 Detailed Description

Definition at line 23 of file path_planning.h.

6.43.2 Constructor & Destructor Documentation

6.43.2.1 PathPlanning::PathPlanning (void)

Default constructor.

Definition at line 181 of file path_planning.cpp.

6.43.2.2 PathPlanning::~PathPlanning (void)

Definition at line 31 of file path_planning.cpp.

6.43.3 Member Function Documentation

6.43.3.1 bool PathPlanning::pathPlanningCallback (rapp_platform_ros_communications::PathPlanningRosSrv::Request & req, rapp_platform_ros_communications::PathPlanningRosSrv::Response & res)

Determines next planning sequence (which global_planner and map_server should be used)

Parameters

[navfn::Make-	&req: [std::string] req.user_name - Determine user name - owner of the environment map
NavPlan-	[std::string] req.map_name - Contains path to the desired map [std::string] req.robot_type
Request]	- Contains type of the robot. It is required to determine it's parameters (footprint etc.)
	[std::string] req.algorithm - Contains path planning algorithm name [geometry_msgs/Pose-
	Stamped] req.start - Contains start pose of the robot [geometry_msgs/PoseStamped] req
	goal - Contains goal pose of the robot
[navfn::Make-	&res: [uint8] res.plan_found: 0 : path cannot be planned. 1 : path found 2 : wrong map name
NavPlan-	3: wrong robot type 4: wrong algorithm [std::string] res.error_message: error explenation
Response]	[geometry_msgs/PoseStamped[]] res.path: if plan_found is true, this is an array of waypoints
	from start to goal, where the first one equals start and the last one equals goal vector of
	PoseStamped objects

Definition at line 302 of file path_planning.cpp.

6.43.3.2 bool PathPlanning::uploadMapCallback (rapp_platform_ros_communications::MapServerUploadMapRosSrv::Request & req, rapp_platform_ros_communications::MapServerUploadMapRosSrv::Response & res)

Upload map to RAPP Platform.

Parameters

&req	[std::string] user_name, [std::string] map_name, [float32] resolution, [float32[]] origin, int16 negate, [float32] occupied_thresh, [float32] free_thresh, [uint32] file_size, [char[]] data,
&res	[byte] status,

Returns

[bool] true-> success, false-> failure.

Definition at line 242 of file path_planning.cpp.

6.43.4 Member Data Documentation

6.43.4.1 std::vector<pid_t> PathPlanning::GP_plDs [private]

Definition at line 74 of file path_planning.h.

```
6.43.4.2 const char* PathPlanning::homedir [private]
Definition at line 69 of file path_planning.h.
6.43.4.3 std::vector<pid_t> PathPlanning::MS_plDs [private]
Definition at line 75 of file path_planning.h.
6.43.4.4 std::vector<geometry_msgs::PoseStamped> PathPlanning::new_path [private]
Definition at line 82 of file path_planning.h.
6.43.4.5 ros::NodeHandle PathPlanning::nh_ [private]
Definition at line 67 of file path_planning.h.
6.43.4.6 PathPlanner PathPlanning::path_planner_ [private]
Definition at line 83 of file path_planning.h.
6.43.4.7 ros::ServiceServer PathPlanning::pathPlanningService_ [private]
Definition at line 71 of file path_planning.h.
6.43.4.8 int PathPlanning::pathPlanningThreads_ [private]
Definition at line 80 of file path_planning.h.
6.43.4.9 std::vector<ros::ServiceServer> PathPlanning::pathPlanningThreadServices_ [private]
Definition at line 73 of file path_planning.h.
6.43.4.10 std::string PathPlanning::pathPlanningTopic_ [private]
Definition at line 78 of file path planning.h.
6.43.4.11 double PathPlanning::pose_dist_ [private]
Definition at line 81 of file path_planning.h.
6.43.4.12 pid_t PathPlanning::TP_plD [private]
Definition at line 76 of file path_planning.h.
6.43.4.13 ros::ServiceServer PathPlanning::uploadMapService_ [private]
Definition at line 72 of file path_planning.h.
```

```
6.43.4.14 std::string PathPlanning::uploadMapTopic_ [private]
```

Definition at line 79 of file path_planning.h.

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

/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/include/path_planning/path_planning.h

/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/src/path_planning.cpp

6.44 QrCode Class Reference

Structure holding the essential info for a QR code.

```
#include <qr_detector.h>
```

Public Attributes

· cv::Point center

· std::string message

6.44.1 Detailed Description

Structure holding the essential info for a QR code.

Definition at line 35 of file qr_detector.h.

6.44.2 Member Data Documentation

```
6.44.2.1 cv::Point QrCode::center
```

Definition at line 37 of file qr_detector.h.

6.44.2.2 std::string QrCode::message

Definition at line 38 of file qr_detector.h.

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

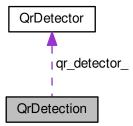
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detector.h

6.45 QrDetection Class Reference

Uptakes the task of setting up the ROS service callbacks towards qr detection.

```
#include <qr_detection.h>
```

Collaboration diagram for QrDetection:



Public Member Functions

· QrDetection (void)

Default constructor.

bool qrDetectionCallback (rapp_platform_ros_communications::QrDetectionRosSrv::Request &req, rapp_platform_ros_communications::QrDetectionRosSrv::Response &res)

The qr detection ROS service callback.

Private Attributes

- ros::NodeHandle nh_
- QrDetector qr_detector_
- ros::ServiceServer qrDetectionService_
- std::string qrDetectionTopic_

6.45.1 Detailed Description

Uptakes the task of setting up the ROS service callbacks towards qr detection.

Definition at line 31 of file qr_detection.h.

6.45.2 Constructor & Destructor Documentation

6.45.2.1 QrDetection::QrDetection (void)

Default constructor.

Definition at line 23 of file qr_detection.cpp.

6.45.3 Member Function Documentation

6.45.3.1 bool QrDetection::qrDetectionCallback (rapp_platform_ros_communications::QrDetectionRosSrv::Request & req, rapp_platform_ros_communications::QrDetectionRosSrv::Response & res)

The gr detection ROS service callback.

Parameters

req	[rapp_platform_ros_communications::QrDetectionRosSrv::Request&] The service request
res	[rapp_platform_ros_communications::QrDetectionRosSrv::Response&] The service re-
	sponse

Returns

bool - The success status of the call

Definition at line 40 of file qr_detection.cpp.

6.45.4 Member Data Documentation

6.45.4.1 ros::NodeHandle QrDetection::nh_ [private]

< The ROS node handle The service server

Definition at line 53 of file qr_detection.h.

6.45.4.2 QrDetector QrDetection::qr_detector_ [private]

Definition at line 62 of file qr_detection.h.

6.45.4.3 ros::ServiceServer QrDetection::qrDetectionService_ [private]

Topic nomeclarure. Holds the qr detection ROS service topic URI

Definition at line 56 of file qr_detection.h.

6.45.4.4 std::string QrDetection::qrDetectionTopic_ [private]

Object of **QrDetection** type

Definition at line 59 of file qr_detection.h.

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

- /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detection.h
- /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_detection.cpp

6.46 QrDetector Class Reference

Provides the QR detection functionality.

```
#include <qr_detector.h>
```

Public Member Functions

· QrDetector (void)

Default constructor.

std::vector< QrCode > detectQrs (const cv::Mat &img)

Detects QRs in a cv::Mat.

std::vector< QrCode > findQrs (std::string file_name)

Detects QRs in an image file.

Private Member Functions

cv::Mat loadImage (std::string file_name)
 Loads an image into a cv::Mat structure.

6.46.1 Detailed Description

Provides the QR detection functionality.

Definition at line 45 of file qr detector.h.

6.46.2 Constructor & Destructor Documentation

6.46.2.1 QrDetector::QrDetector (void)

Default constructor.

Definition at line 23 of file qr_detector.cpp.

6.46.3 Member Function Documentation

6.46.3.1 std::vector < QrCode > QrDetector::detectQrs (const cv::Mat & input_frame)

Detects QRs in a cv::Mat.

Parameters

img [const cv::Mat&] The input image in cv::Mat form

Returns

std::vector<QrCode> The detected QR codes

< QrCode scanner

Definition at line 43 of file qr_detector.cpp.

6.46.3.2 std::vector < QrCode > QrDetector::findQrs (std::string file_name)

Detects QRs in an image file.

Parameters

file_name [std::string] The input image URI

Returns

std::vector<QrCode> The detected QR codes

Definition at line 101 of file qr_detector.cpp.

6.46.3.3 cv::Mat QrDetector::loadImage (std::string file_name) [private]

Loads an image into a cv::Mat structure.

Parameters

file_name	[std::string] The file URI

Returns

cv::Mat

Definition at line 32 of file qr_detector.cpp.

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

- /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detector.h
- /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_detector.cpp

6.47 caffe_wrapper.RappCaffeWrapper Class Reference

The RappCaffeWrapper ros node.

Public Member Functions

def init

Default contructor.

· def imageClassificationDataHandler

The imageClassificationSrv service callback.

• def ontologyClassBridgeDataHandler

 $The\ ontology {\it ClassBridgeSrv}\ service\ callback.$

• def registerImageToOntologyDataHandler

The registerImageToOntologySrv service callback.

Public Attributes

- serv
- · serv_topic

6.47.1 Detailed Description

The RappCaffeWrapper ros node.

Definition at line 47 of file caffe_wrapper.py.

6.47.2 Constructor & Destructor Documentation

6.47.2.1 def caffe_wrapper.RappCaffeWrapper.__init__ (self)

Default contructor.

Waits for services the node depends on and declares the callbacks of the node's services

Definition at line 52 of file caffe_wrapper.py.

- 6.47.3 Member Function Documentation
- $6.47.3.1 \quad def\ caffe_wrapper. Rapp Caffe Wrapper. image Classification Data Handler (\ \textit{self, req}\)$

The imageClassificationSrv service callback.

Parameters

req	[rapp_platform_ros_communications::imageClassificationSrvRequest::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::imageClassificationSrvResponse::Response&] The ROS service response

Definition at line 84 of file caffe_wrapper.py.

6.47.3.2 def caffe_wrapper.RappCaffeWrapper.ontologyClassBridgeDataHandler (self, req)

The ontologyClassBridgeSrv service callback.

Parameters

req	[rapp_platform_ros_communications::ontologyClassBridgeSrvRequest::Request&] The ROS
	service request

Returns

res [rapp_platform_ros_communications::ontologyClassBridgeSrvResponse::Response&] The ROS service response

Definition at line 93 of file caffe_wrapper.py.

6.47.3.3 def caffe_wrapper.RappCaffeWrapper.registerImageToOntologyDataHandler (self, req)

The registerImageToOntologySrv service callback.

Parameters

req	[rapp_platform_ros_communications::registerImageToOntologySrvRequest::Request&] The
	ROS service request

Returns

res [rapp_platform_ros_communications::registerImageToOntologySrvResponse::Response&] The ROS service response

Definition at line 102 of file caffe_wrapper.py.

6.47.4 Member Data Documentation

6.47.4.1 caffe_wrapper.RappCaffeWrapper.serv

Definition at line 69 of file caffe_wrapper.py.

6.47.4.2 caffe_wrapper.RappCaffeWrapper.serv_topic

Definition at line 55 of file caffe_wrapper.py.

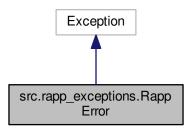
The documentation for this class was generated from the following file:

/home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/caffe_wrapper.py

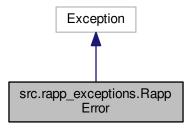
6.48 src.rapp_exceptions.RappError Class Reference

Provides a RAPP specific exception.

Inheritance diagram for src.rapp_exceptions.RappError:



Collaboration diagram for src.rapp_exceptions.RappError:



Public Member Functions

- def __init__
- def __str__

Public Attributes

value

6.48.1 Detailed Description

Provides a RAPP specific exception.

Error handling in RAPP

Definition at line 19 of file rapp_exceptions.py.

6.48.2 Constructor & Destructor Documentation

6.48.2.1 def src.rapp_exceptions.RappError.__init__ (self, value)

Definition at line 22 of file rapp_exceptions.py.

6.48.3 Member Function Documentation

6.48.3.1 def src.rapp_exceptions.RappError.__str__ (self)

Definition at line 25 of file rapp_exceptions.py.

6.48.4 Member Data Documentation

6.48.4.1 src.rapp_exceptions.RappError.value

Definition at line 23 of file rapp_exceptions.py.

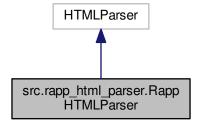
The documentation for this class was generated from the following file:

/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_exceptions.py

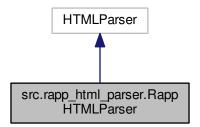
6.49 src.rapp_html_parser.RappHTMLParser Class Reference

Strips html from imput string.

Inheritance diagram for src.rapp_html_parser.RappHTMLParser:



Collaboration diagram for src.rapp_html_parser.RappHTMLParser:



Public Member Functions

def init

Constructor.

· def get_data

Returns the processed string.

· def handle_data

Handles the provided string.

Public Attributes

fed

6.49.1 Detailed Description

Strips html from imput string.

Definition at line 27 of file rapp_html_parser.py.

6.49.2 Constructor & Destructor Documentation

6.49.2.1 def src.rapp_html_parser.RappHTMLParser.__init__ (self)

Constructor.

Definition at line 30 of file rapp_html_parser.py.

6.49.3 Member Function Documentation

6.49.3.1 def src.rapp_html_parser.RappHTMLParser.get_data (self)

Returns the processed string.

Returns

final_str [string] The string without the html tags

Definition at line 44 of file rapp_html_parser.py.

6.49.3.2 def src.rapp_html_parser.RappHTMLParser.handle_data (self, input_str)

Handles the provided string.

Parameters

input str	[string] The string containing html tags

Definition at line 38 of file rapp html parser.py.

6.49.4 Member Data Documentation

6.49.4.1 src.rapp_html_parser.RappHTMLParser.fed

Definition at line 33 of file rapp_html_parser.py.

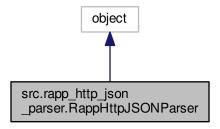
The documentation for this class was generated from the following file:

/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_html_parser.py

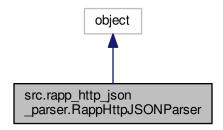
6.50 src.rapp_http_json_parser.RappHttpJSONParser Class Reference

Retrieves key:value pairs from JSON responses.

Inheritance diagram for src.rapp_http_json_parser.RappHttpJSONParser:



Collaboration diagram for src.rapp_http_json_parser.RappHttpJSONParser:



Public Member Functions

def init

Constructor.

• def find_values

Creates key:value pairs from JSON responses.

Private Attributes

• _html_parser

6.50.1 Detailed Description

Retrieves key:value pairs from JSON responses.

Definition at line 26 of file rapp_http_json_parser.py.

6.50.2 Constructor & Destructor Documentation

6.50.2.1 def src.rapp_http_json_parser.RappHttpJSONParser.__init__ (self)

Constructor.

Definition at line 29 of file rapp_http_json_parser.py.

6.50.3 Member Function Documentation

6.50.3.1 def src.rapp_http_json_parser.RappHttpJSONParser.find_values (self, key_dict, json_data)

Creates key:value pairs from JSON responses.

Accepts a json_key:final_key dictionary and returns a dictionary with values final_key[i]:value[i] where json_key[i]:final_key[i] and json_key[i]:value[i]

Parameters

key_dict	[dictionary] The keys dictionary
json_data	[dictionary] The JSON data dictionary

Returns

result [dictionary] The final dictionary

Definition at line 42 of file rapp_http_json_parser.py.

6.50.4 Member Data Documentation

6.50.4.1 src.rapp_http_json_parser.RappHttpJSONParser._html_parser [private]

Definition at line 30 of file rapp_http_json_parser.py.

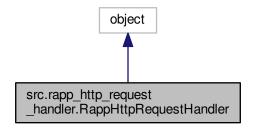
The documentation for this class was generated from the following file:

• /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_http_json_parser.py

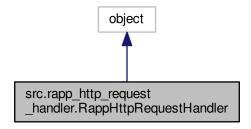
6.51 src.rapp_http_request_handler.RappHttpRequestHandler Class Reference

Performs http requests.

 $Inheritance\ diagram\ for\ src.rapp_http_request_handler. RappHttpRequestHandler:$



Collaboration diagram for src.rapp_http_request_handler.RappHttpRequestHandler:



Public Member Functions

- def init
- def perform_request

Execute the request and verify response.

Private Member Functions

• def _modify_response

Return the proper response format.

Private Attributes

· _accepted_status

The value of valid response status code.

headers

The request additional headers.

• _params

The request parameters.

• _response_format

The required response format.

_server_timeout

Seconds to wait for any server response.

• _url

The server url.

6.51.1 Detailed Description

Performs http requests.

Definition at line 30 of file rapp_http_request_handler.py.

6.51.2 Constructor & Destructor Documentation

6.51.2.1 def src.rapp_http_request_handler.RappHttpRequestHandler.__init__ (self)

Definition at line 32 of file rapp_http_request_handler.py.

6.51.3 Member Function Documentation

6.51.3.1 def src.rapp_http_request_handler.RappHttpRequestHandler._modify_response (self, response, form = None) [private]

Return the proper response format.

Parameters

response	[request module response] The servers response
form	[string] The required response format

RappError Format transformation error

Definition at line 97 of file rapp_http_request_handler.py.

6.51.3.2 def src.rapp_http_request_handler.RappHttpRequestHandler.perform_request (self, url_add = None, params_dict = None, headers_dict = None)

Execute the request and verify response.

Parameters

url_add	[string] The server url
params_dict	[dict] The request's parameters
headers_dict	[dict] The request's additional headers dictionary

Returns

response [request module response] The servers response

RappError Request error

Definition at line 60 of file rapp_http_request_handler.py.

6.51.4 Member Data Documentation

6.51.4.1 src.rapp_http_request_handler.RappHttpRequestHandler._accepted_status [private]

The value of valid response status code.

Definition at line 46 of file rapp http request handler.py.

6.51.4.2 src.rapp_http_request_handler.RappHttpRequestHandler._headers [private]

The request additional headers.

Definition at line 38 of file rapp_http_request_handler.py.

6.51.4.3 src.rapp_http_request_handler.RappHttpRequestHandler._params [private]

The request parameters.

Definition at line 36 of file rapp_http_request_handler.py.

6.51.4.4 src.rapp_http_request_handler.RappHttpRequestHandler._response_format [private]

The required response format.

Definition at line 41 of file rapp_http_request_handler.py.

6.51.4.5 src.rapp_http_request_handler.RappHttpRequestHandler._server_timeout [private]

Seconds to wait for any server response.

Definition at line 44 of file rapp_http_request_handler.py.

6.51.4.6 src.rapp_http_request_handler.RappHttpRequestHandler._url [private]

The server url.

Definition at line 34 of file rapp_http_request_handler.py.

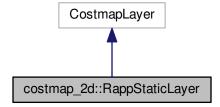
The documentation for this class was generated from the following file:

• /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_http_request_handler.py

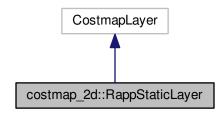
6.52 costmap_2d::RappStaticLayer Class Reference

#include <rapp_static_layer.h>

Inheritance diagram for costmap_2d::RappStaticLayer:



Collaboration diagram for costmap_2d::RappStaticLayer:



Public Member Functions

- RappStaticLayer ()
- virtual ∼RappStaticLayer ()
- virtual void activate ()
- virtual void deactivate ()
- virtual void matchSize ()
- virtual void onInitialize ()
- virtual void reset ()
- virtual void updateBounds (double robot_x, double robot_y, double robot_yaw, double *min_x, double *min_y, double *max_x, double *max_y)
- virtual void updateCosts (costmap_2d::Costmap2D &master_grid, int min_i, int min_j, int max_i, int max_j)

Private Member Functions

- void incomingMap (const nav_msgs::OccupancyGridConstPtr &new_map)

 Callback to update the costmap's map from the map_server.
- void incomingUpdate (const map_msgs::OccupancyGridUpdateConstPtr &update)
- bool incomingUpdateService (rapp_platform_ros_communications::Costmap2dRosSrvRequest &req, rapp_platform_ros_communications::Costmap2dRosSrvResponse &res)
- unsigned char interpretValue (unsigned char value)
- void reconfigureCB (costmap 2d::GenericPluginConfig &config, uint32 t level)

Private Attributes

- ros::ServiceServer costmap_update_service
- dynamic_reconfigure::Server
 costmap_2d::GenericPluginConfig > * dsrv_
- std::string global_frame_

The global frame for the costmap.

- bool has_updated_data_
- unsigned int height_
- unsigned char lethal_threshold_
- boost::recursive_mutex lock_
- · bool map_received_
- ros::Subscriber map sub
- ros::Subscriber map_update_sub_

- · bool subscribe_to_updates_
- bool track_unknown_space_
- · bool trinary_costmap_
- · unsigned char unknown_cost_value_
- bool use_maximum_
- unsigned int width
- unsigned int x_
- unsigned int y_

6.52.1 Detailed Description

Definition at line 57 of file rapp_static_layer.h.

6.52.2 Constructor & Destructor Documentation

6.52.2.1 costmap_2d::RappStaticLayer::RappStaticLayer()

Definition at line 50 of file rapp_static_layer.cpp.

6.52.2.2 costmap_2d::RappStaticLayer::~RappStaticLayer() [virtual]

Definition at line 52 of file rapp_static_layer.cpp.

6.52.3 Member Function Documentation

6.52.3.1 void costmap_2d::RappStaticLayer::activate() [virtual]

Definition at line 257 of file rapp_static_layer.cpp.

6.52.3.2 void costmap_2d::RappStaticLayer::deactivate() [virtual]

Definition at line 262 of file rapp static layer.cpp.

6.52.3.3 void costmap_2d::RappStaticLayer::incomingMap (const nav_msgs::OccupancyGridConstPtr & new_map)

[private]

Callback to update the costmap's map from the map_server.

Parameters

new_map	The map to put into the costmap. The origin of the new map along with its size will determine
	what parts of the costmap's static map are overwritten.

Definition at line 194 of file rapp_static_layer.cpp.

6.52.3.4 void costmap_2d::RappStaticLayer::incomingUpdate (const map_msgs::OccupancyGridUpdateConstPtr & *update*) [private]

Definition at line 238 of file rapp_static_layer.cpp.

```
6.52.3.5 bool costmap_2d::RappStaticLayer::incomingUpdateService ( rapp_platform_ros_communications::-
         Costmap2dRosSrvRequest & req, rapp_platform_ros_communications::Costmap2dRosSrvResponse & res )
         [private]
Definition at line 148 of file rapp_static_layer.cpp.
6.52.3.6 unsigned char costmap_2d::RappStaticLayer::interpretValue ( unsigned char value ) [private]
Definition at line 180 of file rapp_static_layer.cpp.
6.52.3.7 void costmap_2d::RappStaticLayer::matchSize() [virtual]
Definition at line 173 of file rapp_static_layer.cpp.
6.52.3.8 void costmap_2d::RappStaticLayer::onInitialize() [virtual]
Definition at line 58 of file rapp_static_layer.cpp.
6.52.3.9 void costmap_2d::RappStaticLayer::reconfigureCB ( costmap_2d::GenericPluginConfig & config, uint32_t level )
         [private]
Definition at line 161 of file rapp_static_layer.cpp.
6.52.3.10 void costmap_2d::RappStaticLayer::reset() [virtual]
Definition at line 269 of file rapp_static_layer.cpp.
6.52.3.11 void costmap_2d::RappStaticLayer::updateBounds ( double robot_x, double robot_y, double robot_yaw, double *
          min_x, double * min_y, double * max_x, double * max_y ) [virtual]
Definition at line 275 of file rapp_static_layer.cpp.
6.52.3.12 void costmap_2d::RappStaticLayer::updateCosts ( costmap_2d::Costmap2D & master_grid, int min_i, int min_i, int
          max_i, int max_j ) [virtual]
Definition at line 296 of file rapp_static_layer.cpp.
6.52.4 Member Data Documentation
6.52.4.1 ros::ServiceServer costmap_2d::RappStaticLayer::costmap_update_service [private]
Definition at line 96 of file rapp_static_layer.h.
6.52.4.2 dynamic_reconfigure::Server < costmap_2d::GenericPluginConfig>* costmap_2d::RappStaticLayer::dsrv_
         [private]
```

Definition at line 100 of file rapp_static_layer.h.

```
6.52.4.3 std::string costmap_2d::RappStaticLayer::global_frame_ [private]
The global frame for the costmap.
Definition at line 87 of file rapp static layer.h.
6.52.4.4 bool costmap_2d::RappStaticLayer::has_updated_data_ [private]
Definition at line 90 of file rapp_static_layer.h.
6.52.4.5 unsigned int costmap_2d::RappStaticLayer::height_ [private]
Definition at line 91 of file rapp static layer.h.
6.52.4.6 unsigned char costmap 2d::RappStaticLayer::lethal_threshold_ [private]
Definition at line 97 of file rapp_static_layer.h.
6.52.4.7 boost::recursive_mutex costmap_2d::RappStaticLayer::lock_ [mutable], [private]
Definition at line 99 of file rapp_static_layer.h.
6.52.4.8 bool costmap_2d::RappStaticLayer::map_received_ [private]
Definition at line 89 of file rapp_static_layer.h.
6.52.4.9 ros::Subscriber costmap_2d::RappStaticLayer::map_sub_ [private]
Definition at line 95 of file rapp_static_layer.h.
6.52.4.10 ros::Subscriber costmap_2d::RappStaticLayer::map_update_sub_ [private]
Definition at line 95 of file rapp static layer.h.
6.52.4.11 bool costmap_2d::RappStaticLayer::subscribe_to_updates_ [private]
Definition at line 88 of file rapp_static_layer.h.
6.52.4.12 bool costmap_2d::RappStaticLayer::track_unknown_space_ [private]
Definition at line 92 of file rapp_static_layer.h.
6.52.4.13 bool costmap_2d::RappStaticLayer::trinary_costmap_ [private]
Definition at line 94 of file rapp_static_layer.h.
6.52.4.14 unsigned char costmap_2d::RappStaticLayer::unknown_cost_value_ [private]
Definition at line 97 of file rapp_static_layer.h.
```

6.52.4.15 bool costmap_2d::RappStaticLayer::use_maximum_ [private]

Definition at line 93 of file rapp_static_layer.h.

6.52.4.16 unsigned int costmap_2d::RappStaticLayer::width_ [private]

Definition at line 91 of file rapp_static_layer.h.

6.52.4.17 unsigned int costmap_2d::RappStaticLayer::x_ [private]

Definition at line 91 of file rapp_static_layer.h.

6.52.4.18 unsigned int costmap_2d::RappStaticLayer::y_ [private]

Definition at line 91 of file rapp_static_layer.h.

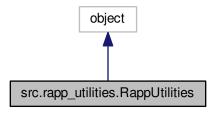
The documentation for this class was generated from the following files:

- /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_costmap2d/include/rapp_costmap_2d/rapp_static_layer.h
- /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_costmap2d/plugins/rapp_static_layer.cpp

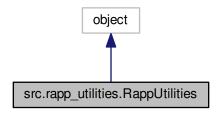
6.53 src.rapp_utilities.RappUtilities Class Reference

Provides various utility functionalities.

Inheritance diagram for src.rapp_utilities.RappUtilities:



Collaboration diagram for src.rapp_utilities.RappUtilities:



Public Member Functions

def init

Static Public Member Functions

def rapp_print

Prints ROS log messages with the specified verbosity.

6.53.1 Detailed Description

Provides various utility functionalities.

Definition at line 26 of file rapp utilities.py.

6.53.2 Constructor & Destructor Documentation

6.53.2.1 def src.rapp_utilities.RappUtilities.__init__ (self)

Definition at line 28 of file rapp utilities.py.

6.53.3 Member Function Documentation

6.53.3.1 def src.rapp_utilities.RappUtilities.rapp_print(var, verbosity = 'DEBUG') [static]

Prints ROS log messages with the specified verbosity.

Definition at line 33 of file rapp_utilities.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_utilities.py

6.54 rapp_audio_processing.rapp_set_noise_profile.SetNoiseProfile Class Reference

Evaluates the noise profile for an audio file.

Public Member Functions

def __init__

Performs initializations.

· def setNoise_profile

Evaluates the audio profile.

Public Attributes

· utilities

6.54.1 Detailed Description

Evaluates the noise profile for an audio file.

Definition at line 31 of file rapp_set_noise_profile.py.

6.54.2 Constructor & Destructor Documentation

6.54.2.1 def rapp_audio_processing.rapp_set_noise_profile.SetNoiseProfile.__init__ (self)

Performs initializations.

Definition at line 34 of file rapp_set_noise_profile.py.

6.54.3 Member Function Documentation

6.54.3.1 def rapp_audio_processing.rapp_set_noise_profile.SetNoiseProfile.setNoise_profile (self, user, noise_audio_file, audio_file_type)

Evaluates the audio profile.

Handles service callback rapp_audio_processing.AudioProcessing::setNoiseProfileCallback

Parameters

user	[string] The system user, for environmental variable access
noise_audio_file	[string] Noise audio file path
audio_type	[string] Noise audio file's type

Definition at line 45 of file rapp_set_noise_profile.py.

6.54.4 Member Data Documentation

 $6.54.4.1 \quad rapp_audio_processing.rapp_set_noise_profile.SetNoiseProfile.utilities$

Definition at line 35 of file rapp_set_noise_profile.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_set_noise_profile.py

6.55 rapp_audio_processing.rapp_sox_denoise.SoxDenoise Class Reference

Performs denoising on an audio file employing Sox application.

Public Member Functions

· def soxDenoise

Performs denoising employing Sox apllication.

6.55.1 Detailed Description

Performs denoising on an audio file employing Sox application.

Definition at line 29 of file rapp_sox_denoise.py.

6.55.2 Member Function Documentation

6.55.2.1 def rapp_audio_processing.rapp_sox_denoise.SoxDenoise.soxDenoise (self, user, audio_type, audio_file, denoised_audio_file, scale)

Performs denoising employing Sox apllication.

Handles service callback rapp_audio_processing.AudioProcessing::denoiseCallback

Parameters

user	[string] The system user, for environmental variable access
audio_file	[string] Audio file path
audio_type	[string] Audio file's type
denoised_audio-	[string] Path to write denoised audio file
_file	
scale	[float] Energy denoise scale

Definition at line 41 of file rapp_sox_denoise.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_sox_denoise.py

6.56 rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognition-Sphinx4 Class Reference

Provides a complete Rapp Sphinx Entity.

Public Member Functions

def __init__

Constructor performing initializations.

def getConfigurationHash

Requests the configuration's sha1 hash.

· def speechRecognitionBatch

Performs Sphinx4 configuration and speech recognition.

Private Member Functions

def configureSpeechRecognition

Performs Sphinx4 configuration.

def _createPreconfiguration

Create the requested preconfiguration.

def _createSupportConfiguration

Get Sphinx configuration paths from Language Support.

def _selectLanguageSupport

Choose the language support based on the request language.

• def _speechRecognition

Performs Sphinx4 speech recognition.

Private Attributes

• _configuration_params

The Sphinx configuration parameters.

· english support

English creates necessary files for english speech recognition.

_globalParams

Contains global Sphinx parameters.

• _greek_support

Greek_support creates necessary files for Greek speech recognition.

• _sphinx4

The sphinx wrapper communicates with the actual Sphinx.java process.

_word_mapping

A dictionary to transform the englified greek words to actual greek words.

6.56.1 Detailed Description

Provides a complete Rapp Sphinx Entity.

Maintains a complete Rapp Sphinx Entity for the speech_recognition_sphinx4_handler_node.SpeechRecognition-Sphinx4HandlerNode to perform the speech recognition.

Definition at line 61 of file speech_recognition_sphinx4.py.

6.56.2 Constructor & Destructor Documentation

6.56.2.1 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4.__init__ (self, configurationName = None)

Constructor performing initializations.

Definition at line 64 of file speech_recognition_sphinx4.py.

6.56.3 Member Function Documentation

Performs Sphinx4 configuration.

Parameters

req	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::Speech-
	RecognitionSphinx4ConfigureSrvRequest] The sphinx configuration request

Returns

res [rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::SpeechRecognitionSphinx4-ConfigureSrvRequest] The sphinx configuration response

Definition at line 189 of file speech_recognition_sphinx4.py.

6.56.3.2 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._createPreconfiguration (self, configurationName) [private]

Create the requested preconfiguration.

Creates the configuration via the name requested from rapp_speech_detection_sphinx4::cfg::sphinx4_wrapper_params.yaml

Parameters

configuration-	[string] The preconfiguration name
Name	

Definition at line 112 of file speech_recognition_sphinx4.py.

6.56.3.3 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._createSupport-Configuration(self, support, res) [private]

Get Sphinx configuration paths from Language Support.

Parameters

	support	[language_support::LanguageSupport] A child class of the LanguageSupport depending on the requested language
Ì	req	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::Speech-
		RecognitionSphinx4ConfigureSrvRequest] The sphinx configuration request

Returns

conf [dictionary] The Sphinx configuration files' paths

Definition at line 229 of file speech_recognition_sphinx4.py.

6.56.3.4 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._selectLanguage-Support(self, req) [private]

Choose the language support based on the request language.

Parameters

req	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::Speech-
	RecognitionSphinx4ConfigureSrvRequest] The sphinx configuration request

Returns

support [language_support::LanguageSupport] A child class of the LanguageSupport depending on the requested language

Definition at line 175 of file speech_recognition_sphinx4.py.

Performs Sphinx4 speech recognition.

Parameters

req	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::Speech-
	RecognitionSphinx4SrvRequest] The speech recognition request

Returns

res [rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::SpeechRecognitionSphinx4Srv-Response] The speech recognition response

Definition at line 152 of file speech_recognition_sphinx4.py.

6.56.3.6 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4.getConfigurationHash (self)

Requests the configuration's sha1 hash.

Hash is used to identify common request configurations for proper subprocess selection. (Requests with common requests do not require reconfiguration reducing computation time)

Returns

hexdigest [string] The hash digest containing only hexadecimal digits

Definition at line 103 of file speech_recognition_sphinx4.py.

6.56.3.7 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4.speechRecognitionBatch (self, req)

Performs Sphinx4 configuration and speech recognition.

Parameters

req	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::Speech-
	RecognitionSphinx4TotalSrvRequest] The speech recognition request

Returns

res [rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::SpeechRecognitionSphinx4-TotalSrvResponse] The speech recognition response

Definition at line 128 of file speech_recognition_sphinx4.py.

6.56.4 Member Data Documentation

6.56.4.1 rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._configuration_params [private]

The Sphinx configuration parameters.

(see sphinx4_configuration_params.SphinxConfigurationParams)

Definition at line 86 of file speech_recognition_sphinx4.py.

6.57 rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognition-Sphinx4HandlerNode Class

Reference 207

6.56.4.2 rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._english_support [private]

English creates necessary files for english speech recognition.

(see english_support.EnglishSupport)

Definition at line 82 of file speech_recognition_sphinx4.py.

6.56.4.3 rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._globalParams

[private]

Contains global Sphinx parameters.

(see global_parameters.GlobalParams)

Definition at line 69 of file speech_recognition_sphinx4.py.

6.56.4.4 rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._greek_support [private]

Greek support creates necessary files for Greek speech recognition.

(see greek_support.GreekSupport)

Definition at line 78 of file speech_recognition_sphinx4.py.

6.56.4.5 rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._sphinx4 [private]

The sphinx wrapper communicates with the actual Sphinx.java process.

(see sphinx4 wrapper.Sphinx4Wrapper)

Definition at line 74 of file speech_recognition_sphinx4.py.

6.56.4.6 rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._word_mapping [private]

A dictionary to transform the englified greek words to actual greek words.

Definition at line 89 of file speech_recognition_sphinx4.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/speech_recognition_sphinx4.py

6.57 rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.-SpeechRecognitionSphinx4HandlerNode Class Reference

Maintains Sphinx instances to perform speech recognition.

Public Member Functions

def __init__

Initializes the subprocesses and the services (constructor)

def handleSpeechRecognitionCallback

The callback to perform speech recognition.

Private Member Functions

• def _calculateRequestHash

Calculates the service request sha1 hash for process handling purposes.

def _getPreconfigurationNames

Specifies the requested preconfiguration names.

Private Attributes

· availableProcesses

The subprocesses structure that contains information used for the subprocess handling.

lock

Thread conditional variable used for the subprocess scheduling.

• _speech_recognition_batch_service

Ros service server for sphinx speech recognition.

threadCounter

Total service callback threads waiting to execute.

· threads

The number of child subprocesses.

6.57.1 Detailed Description

Maintains Sphinx instances to perform speech recognition.

Maintains a number of child processes to perform speech recognition utilizing Sphinx4 (rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4). Provides ros services and handles the requests according to the child processes' status.

Definition at line 47 of file speech_recognition_sphinx4_handler_node.py.

6.57.2 Constructor & Destructor Documentation

6.57.2.1 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognitionSphinx4Handler-Node.__init__(self)

Initializes the subprocesses and the services (constructor)

Definition at line 50 of file speech_recognition_sphinx4_handler_node.py.

6.57.3 Member Function Documentation

6.57.3.1 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognitionSphinx4Handler_Node._calculateRequestHash (*self, req*) [private]

Calculates the service request sha1 hash for process handling purposes.

Hash is used to identify common request configurations for proper subprocess selection. (Requests with common requests do not require reconfiguration reducing computation time)

6.57 rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognition-Sphinx4HandlerNode Class

Reference 209 Parameters

req	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::Speech-
	RecognitionSphinx4TotalSrvRequest] The service request

Returns

hexdigest [string] The hash digest containing only hexadecimal digits

Definition at line 198 of file speech recognition sphinx4 handler node.py.

6.57.3.2 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognitionSphinx4Handler_Node._getPreconfigurationNames (*self*) [private]

Specifies the requested preconfiguration names.

Reads and creates a matrix with the configuration name requested from rapp_speech_detection_sphinx4::cfg-::sphinx4_wrapper_params.yaml

Returns

preconf [list<string>] The preconfiguration names for all subprocesses

Definition at line 96 of file speech recognition sphinx4 handler node.py.

6.57.3.3 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognitionSphinx4Handler_Node.handleSpeechRecognitionCallback (self, req)

The callback to perform speech recognition.

Parameters

req	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::Speech-
	RecognitionSphinx4TotalSrvRequest] The service request

Returns

res [rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::SpeechRecognitionSphinx4-TotalSrvResponse] The service response

Definition at line 138 of file speech_recognition_sphinx4_handler_node.py.

6.57.4 Member Data Documentation

6.57.4.1 rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognitionSphinx4Handler-Node._availableProcesses [private]

The subprocesses structure that contains information used for the subprocess handling.

Definition at line 60 of file speech_recognition_sphinx4_handler_node.py.

6.57.4.2 rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognitionSphinx4Handler-Node._lock [private]

Thread conditional variable used for the subprocess scheduling.

Definition at line 75 of file speech_recognition_sphinx4_handler_node.py.

6.57.4.3 rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognitionSphinx4Handler_Node._speech_recognition_batch_service [private]

Ros service server for sphinx speech recognition.

Definition at line 85 of file speech_recognition_sphinx4_handler_node.py.

6.57.4.4 rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognitionSphinx4Handler-Node._threadCounter [private]

Total service callback threads waiting to execute.

Definition at line 77 of file speech recognition sphinx4 handler node.py.

6.57.4.5 rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognitionSphinx4Handler_Node._threads [private]

The number of child subprocesses.

Definition at line 53 of file speech_recognition_sphinx4_handler_node.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/speech_recognition_sphinx4_handler_node.py

6.58 speech_recognition_google.SpeechToTextGoogle Class Reference

Implements calls the Google ASR API.

Public Member Functions

def __init__

Default contructor.

· def speech_to_text

Performs the call to Google API.

• def speech_to_text_callback

The service callback.

Public Attributes

- serv
- · serv topic

6.58.1 Detailed Description

Implements calls the Google ASR API.

Definition at line 52 of file speech_recognition_google.py.

6.58.2 Constructor & Destructor Documentation

6.58.2.1 def speech_recognition_google.SpeechToTextGoogle.__init__ (self)

Default contructor.

Declares the service callback

Definition at line 55 of file speech_recognition_google.py.

6.58.3 Member Function Documentation

6.58.3.1 def speech_recognition_google.SpeechToTextGoogle.speech_to_text (self, file_path, user, audio_file_type, language)

Performs the call to Google API.

Parameters

file_path	[string] The audio file
user	[string] The username
audio_type	[string] Used to check if denoising is needed. Can be one of headset, nao_ogg, nao_wav_1-ch, nao_wav_4_ch
language	[string] The language in which the ASR will be performed

Returns

The transcript from Google

Definition at line 122 of file speech_recognition_google.py.

6.58.3.2 def speech_recognition_google.SpeechToTextGoogle.speech_to_text_callback (self, req)

The service callback.

Parameters

req	[SpeechToTextSrvRequest] The ROS service request

Definition at line 66 of file speech_recognition_google.py.

6.58.4 Member Data Documentation

6.58.4.1 speech_recognition_google.SpeechToTextGoogle.serv

Definition at line 61 of file speech_recognition_google.py.

 $6.58.4.2 \quad speech_recognition_google.SpeechToTextGoogle.serv_topic$

Definition at line 57 of file speech_recognition_google.py.

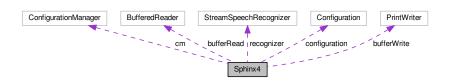
The documentation for this class was generated from the following file:

/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_google/src/speech_recognition_google.py

6.59 Sphinx4 Class Reference

Performs speech recognition employing Sphinx.

Collaboration diagram for Sphinx4:



Static Public Member Functions

static void main (String[] args) throws IOException
 The main function.

· static void updateConfiguration () throws IOException

Updates the Sphinx configuration.

Static Public Attributes

- static String acoustic_model_path = ""
- static String acoustic model path prev = ""
- static BufferedReader bufferRead
- static PrintWriter bufferWrite
- static ConfigurationManager cm
- static Configuration configuration = new Configuration()
- static String configuration_model_path = ""
- static String configuration model path prev = ""
- static String dictionary_path = ""
- static String dictionary_path_prev = ""
- static boolean grammar_enabled = false
- static boolean grammar_enabled_prev = false
- static String grammar_model_file_path = ""
- static String grammar_model_file_path_prev = ""
- static String grammar_model_folder_path = ""
- static String grammar_model_folder_path_prev = ""
- static String language path = ""
- static String language_path_prev = ""
- static StreamSpeechRecognizer recognizer

6.59.1 Detailed Description

Performs speech recognition employing Sphinx.

Communicates with rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper via socket to configure Sphinx and perform the speech recognition and returns the result.

Definition at line 49 of file Sphinx4.java.

6.59.2 Member Function Documentation

6.59.2.1 static void Sphinx4.main (String[] args) throws IOException [inline], [static]

The main function.

Creates the Sphinx process and awaits commands from rapp_speech_detection_sphinx4.sphinx4_wrapper.-Sphinx4Wrapper to update the cconfiguration or perform the recognition.

Definition at line 134 of file Sphinx4.java.

6.59.2.2 static void Sphinx4.updateConfiguration () throws IOException [inline], [static]

Updates the Sphinx configuration.

Definition at line 79 of file Sphinx4.java.

6.59.3 Member Data Documentation

6.59.3.1 String Sphinx4.acoustic_model_path = "" [static]

Definition at line 57 of file Sphinx4.java.

6.59.3.2 String Sphinx4.acoustic_model_path_prev = "" [static]

Definition at line 58 of file Sphinx4.java.

6.59.3.3 BufferedReader Sphinx4.bufferRead [static]

Definition at line 72 of file Sphinx4.java.

6.59.3.4 PrintWriter Sphinx4.bufferWrite [static]

Definition at line 73 of file Sphinx4.java.

6.59.3.5 ConfigurationManager Sphinx4.cm [static]

Definition at line 69 of file Sphinx4.java.

6.59.3.6 Configuration Sphinx4.configuration = new Configuration() [static]

Definition at line 68 of file Sphinx4.java.

6.59.3.7 String Sphinx4.configuration_model_path = "" [static]

Definition at line 65 of file Sphinx4.java.

6.59.3.8 String Sphinx4.configuration_model_path_prev = "" [static]

Definition at line 66 of file Sphinx4.java.

```
6.59.3.9 String Sphinx4.dictionary_path = "" [static]
Definition at line 51 of file Sphinx4.java.
6.59.3.10 String Sphinx4.dictionary_path_prev = "" [static]
Definition at line 52 of file Sphinx4.java.
6.59.3.11 boolean Sphinx4.grammar_enabled = false [static]
Definition at line 75 of file Sphinx4.java.
6.59.3.12 boolean Sphinx4.grammar_enabled_prev = false [static]
Definition at line 76 of file Sphinx4.java.
6.59.3.13 String Sphinx4.grammar_model_file_path = "" [static]
Definition at line 60 of file Sphinx4.java.
6.59.3.14 String Sphinx4.grammar_model_file_path_prev = "" [static]
Definition at line 61 of file Sphinx4.java.
6.59.3.15 String Sphinx4.grammar_model_folder_path = "" [static]
Definition at line 62 of file Sphinx4.java.
6.59.3.16 String Sphinx4.grammar_model_folder_path_prev = "" [static]
Definition at line 63 of file Sphinx4.java.
6.59.3.17 String Sphinx4.language_path = "" [static]
Definition at line 54 of file Sphinx4.java.
6.59.3.18 String Sphinx4.language_path_prev = "" [static]
Definition at line 55 of file Sphinx4.java.
6.59.3.19 StreamSpeechRecognizer Sphinx4.recognizer [static]
Definition at line 70 of file Sphinx4.java.
The documentation for this class was generated from the following file:
```

• /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/Sphinx4.java

6.60 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper Class Reference

Contains the Sphinx subprocess and is responsible for configuring Sphinx and performing the recognition request.

Public Member Functions

def init

Constructor Initiates service clients.

def configureSphinx

Perform Sphinx4 configuration.

def performSpeechRecognition

Performs the speech recognition and returns a list of words.

Private Member Functions

· def callSphinxJava

Communicate with Sphinx subprocess to initiate recognition and fetch results.

· def createProcessingProfile

Creates audio profile based on the audio type for processing purposes.

· def createSocket

Creates socket IPC between self and Sphinx subprocess Creates the socket server with a system provided port, which is pass as an argument to the created subprocess.

def _initializeSphinxProcess

Perform Sphinx4 initialization Initiates Sphinx subprocess, sets up socket IPC and configures Sphinx subprocess.

· def _performEnergyDenoising

Perform energy denoise.

• def readLine

Helper function for getting input from IPC with Sphinx subprocess.

· def _respawnSphinx

Respawns Sphinx subprocess, if it terminates abruptly.

Private Attributes

· _audio_transform_srv

Transform audio service client.

conf

Sphinx configuration.

· _denoise_service

Denoise service client.

· detect silence service

Detect silence service client.

_energy_denoise_service

Energy denoise service client.

globalParams

Contains global Sphinx parameters.

_jar_path

Contains the absolute path for the Sphinx jar file.

_sphinx_socket

The IPC socket.

· _sphinx_socket_PORT

The IPC socket port.

sphinxDied

Sphinx status flag.

_sphinxSubprocess

The Sphinx subprocess.

6.60.1 Detailed Description

Contains the Sphinx subprocess and is responsible for configuring Sphinx and performing the recognition request.

Initializes a Sphinx.java subprocess and creates an IPC using sockets. It is responsible for interacting with Sphinx via the socket to send configuration params/instructions and initialize a recognition procedure.

Definition at line 48 of file sphinx4_wrapper.py.

6.60.2 Constructor & Destructor Documentation

6.60.2.1 def rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper.__init__ (self)

Constructor Initiates service clients.

Definition at line 52 of file sphinx4_wrapper.py.

6.60.3 Member Function Documentation

6.60.3.1 def rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._callSphinxJava (self, audio_file)
[private]

Communicate with Sphinx subprocess to initiate recognition and fetch results.

Parameters

```
audio_file | [string] The audio file path
```

Returns

words [list::string] The Sphinx result

Definition at line 410 of file sphinx4_wrapper.py.

6.60.3.2 def rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._createProcessingProfile(self, audio_type)

[private]

Creates audio profile based on the audio type for processing purposes.

Defines a set of audio processing procedures (i.e. denoising) to be performed on the audio file and the parameters of the procedures. Aims to improve to audio file quality to improve speech recognition results.

Parameters

audio_	_type [s	string] The audio type

Returns

processingProfile [dictionary] The profile attributes

Definition at line 211 of file sphinx4_wrapper.py.

6.60.3.3 def rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._createSocket(self) [private]

Creates socket IPC between self and Sphinx subprocess Creates the socket server with a system provided port, which is pass as an argument to the created subprocess.

Definition at line 169 of file sphinx4_wrapper.py.

6.60.3.4 def rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._initializeSphinxProcess (self, conf = None) [private]

Perform Sphinx4 initialization Initiates Sphinx subprocess, sets up socket IPC and configures Sphinx subprocess.

Parameters

conf	[dictionary] Contains the configuration parameters

Definition at line 136 of file sphinx4_wrapper.py.

6.60.3.5 def rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._performEnergyDenoising (self, next_audio_file, audio_file, scale) [private]

Perform energy denoise.

Calls energy denoise service rapp_audio_processing.rapp_audio_processing.AudioProcessing::energy_denoise (see also rapp_audio_processing.rapp_energy_denoise.EnergyDenoise::energyDenoise)

Parameters

audio_file	[string] The audio file path
scale	[float] The scale parameter for the denoising procedure

Returns

file_path [string] THe path of the denoised file

Definition at line 397 of file sphinx4_wrapper.py.

6.60.3.6 def rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._readLine(self) [private]

Helper function for getting input from IPC with Sphinx subprocess.

Returns

line [string] A buffer read from socket

Definition at line 126 of file sphinx4 wrapper.py.

6.60.3.7 def rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._respawnSphinx (self) [private]

Respawns Sphinx subprocess, if it terminates abruptly.

Definition at line 437 of file sphinx4_wrapper.py.

6.60.3.8 def rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper.configureSphinx (self, conf)

Perform Sphinx4 configuration.

Parameters

conf	[dictionary] Contains the configuration parameters

Definition at line 182 of file sphinx4_wrapper.py.

6.60.3.9 def rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper.performSpeechRecognition (self, audio_file, audio_type, user)

Performs the speech recognition and returns a list of words.

Parameters

audio_file	[string] The audio file's name
audio_type	[string] The audio file's type

Returns

words [list::string] The result words

Exceptions

RappError	Audio transformation error

Definition at line 271 of file sphinx4_wrapper.py.

6.60.4 Member Data Documentation

6.60.4.1 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._audio_transform_srv [private]

Transform audio service client.

rapp_audio_processing.rapp_audio_processing.AudioProcessing::transform_audio

Definition at line 113 of file sphinx4_wrapper.py.

6.60.4.2 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._conf [private]

Sphinx configuration.

Definition at line 59 of file sphinx4_wrapper.py.

6.60.4.3 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._denoise_service [private]

Denoise service client.

rapp_audio_processing.rapp_audio_processing.AudioProcessing::denoise

Definition at line 95 of file sphinx4_wrapper.py.

6.60.4.4 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._detect_silence_service [private]

Detect silence service client.

rapp_audio_processing.rapp_audio_processing.AudioProcessing::detect_silence

Definition at line 107 of file sphinx4_wrapper.py.

6.60.4.5 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._energy_denoise_service [private]

Energy denoise service client.

rapp_audio_processing.rapp_audio_processing.AudioProcessing::energy_denoise

Definition at line 101 of file sphinx4 wrapper.py.

6.60.4.6 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._globalParams [private]

Contains global Sphinx parameters.

(see global parameters.GlobalParams)

Definition at line 56 of file sphinx4_wrapper.py.

6.60.4.7 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._jar_path [private]

Contains the absolute path for the Sphinx jar file.

Definition at line 117 of file sphinx4_wrapper.py.

6.60.4.8 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._sphinx_socket [private]

The IPC socket.

Definition at line 64 of file sphinx4 wrapper.py.

6.60.4.9 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._sphinx_socket_PORT [private]

The IPC socket port.

Definition at line 66 of file sphinx4_wrapper.py.

6.60.4.10 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._sphinxDied [private]

Sphinx status flag.

Definition at line 61 of file sphinx4_wrapper.py.

 $\textbf{6.60.4.11} \quad \textbf{rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._sphinxSubprocess} \quad \texttt{[private]}$

The Sphinx subprocess.

Definition at line 69 of file sphinx4 wrapper.py.

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

 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/sphinx4-_wrapper.py

6.61 rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfiguration-Params Class Reference

Contains the parameters required for the Sphinx configuration.

Public Member Functions

def __init__

Initializes an empty configuration (constructor)

· def equalsRequest

Checks if a SphinxConfigurationParams instance equals self.

· def getHash

Calculates the configuration's sha1 hash.

• def makeEqualToInstance

Change attributes to those specified by the Class instance.

· def makeEqualToRequest

Change attributes to those specified by the request.

Private Member Functions

· def _readConfigurationYaml

Read the configuration from configuration yaml.

Private Attributes

• _globalParams

Contains global Sphinx parameters.

• _grammar

Sphinx grammar attribute.

• _language

The language of the request.

· sentences

Sphinx sentence attribute.

• _words

The words to be identified.

6.61.1 Detailed Description

Contains the parameters required for the Sphinx configuration.

Definition at line 30 of file sphinx4_configuration_params.py.

6.61.2 Constructor & Destructor Documentation

6.61.2.1 def rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams.__init__ (self, configuration = None)

Initializes an empty configuration (constructor)

Definition at line 33 of file sphinx4_configuration_params.py.

6.61.3 Member Function Documentation

6.61.3.1 def rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams._readConfiguration-Yaml (self, confName) [private]

Read the configuration from configuration yaml.

6.61 rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams Class Reference

Parameters

confName	[string] The name of the requested configuration	

Definition at line 73 of file sphinx4_configuration_params.py.

6.61.3.2 def rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams.equalsRequest (self, params)

Checks if a SphinxConfigurationParams instance equals self.

Parameters

params	[SphinxConfigurationParams] The class instance
status	[bool] True if configurations match

Definition at line 134 of file sphinx4_configuration_params.py.

6.61.3.3 def rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams.getHash (self)

Calculates the configuration's sha1 hash.

Hash is used to identify common request configurations for proper subprocess selection. (Requests with common requests do not require reconfiguration reducing computation time)

Returns

hexdigest [string] The hash digest containing only hexadecimal digits

Definition at line 152 of file sphinx4_configuration_params.py.

6.61.3.4 def rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams.makeEqualToInstance (self, instance)

Change attributes to those specified by the Class instance.

Parameters

params	[SphinxConfigurationParams] The class instance

Definition at line 64 of file sphinx4 configuration params.py.

6.61.3.5 def rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams.makeEqualToRequest (self, params)

Change attributes to those specified by the request.

Parameters

params	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::Speech-
	RecognitionSphinx4TotalSrvRequest] The service request

Definition at line 55 of file sphinx4_configuration_params.py.

6.61.4 Member Data Documentation

6.61.4.1 rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams_globalParams [private]

Contains global Sphinx parameters.

(see global_parameters.GlobalParams)

Definition at line 38 of file sphinx4 configuration params.py.

6.61.4.2 rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams_grammar [private]

Sphinx grammar attribute.

Definition at line 45 of file sphinx4_configuration_params.py.

The language of the request.

Definition at line 41 of file sphinx4_configuration_params.py.

6.61.4.4 rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams._sentences [private]

Sphinx sentence attribute.

Definition at line 47 of file sphinx4_configuration_params.py.

6.61.4.5 rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams._words [private]

The words to be identified.

Definition at line 43 of file sphinx4_configuration_params.py.

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

 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/sphinx4-_configuration_params.py

6.62 text_to_speech_espeak.TextToSpeechEspeak Class Reference

Public Member Functions

- def init
- def text_to_speech_callback

Public Attributes

- serv
- · serv_topic

6.62.1 Detailed Description

Definition at line 33 of file text_to_speech_espeak.py.

6.62.2 Constructor & Destructor Documentation

6.62.2.1 def text_to_speech_espeak.TextToSpeechEspeak.__init__ (self)

Definition at line 35 of file text to speech espeak.py.

6.62.3 Member Function Documentation

6.62.3.1 def text_to_speech_espeak.TextToSpeechEspeak.text_to_speech_callback(self, req)

Definition at line 45 of file text_to_speech_espeak.py.

6.62.4 Member Data Documentation

6.62.4.1 text_to_speech_espeak.TextToSpeechEspeak.serv

Definition at line 41 of file text_to_speech_espeak.py.

6.62.4.2 text_to_speech_espeak.TextToSpeechEspeak.serv_topic

Definition at line 37 of file text to speech espeak.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_text_to_speech_espeak/src/text_to_speech_espeak.py

6.63 rapp_audio_processing.rapp_transform_audio.TransformAudio Class Reference

Provides audio type tranformation functionalities.

Public Member Functions

· def transform audio

Performs the audio transformation.

Private Member Functions

def _assertArgs

Verifies the existence of the required arguments.

def _convertType

Performs audio conversion.

• def _validateSourceType

Validates that the provided audio type match the file extension.

6.63.1 Detailed Description

Provides audio type tranformation functionalities.

Allows the transformation of an audio file to a different format. Supports the alteration of the type (i.e. headset, nao—wav_1_ch etc.), the sample rate, the audio channel number, the audio format and the audio name. Handles transform audio service callback (rapp_audio_processing.rapp_audio_processing.AudioProcessing:transform_audio)

Definition at line 32 of file rapp_transform_audio.py.

6.63.2 Member Function Documentation

6.63.2.1 def rapp_audio_processing.rapp_transform_audio.TransformAudio._assertArgs (self, source_type, source_name, target_type, target_name, target_channels, target_rate) [private]

Verifies the existence of the required arguments.

Parameters

source_type	[string] The source audio file's type
source_name	[string] The source audio file's name
target_type	[string] The target audio file's type
target_name	[string] The target audio file's name
target_channels	[string] The target audio's channel number
target_rate	[string] The target audio's sample rate

Exceptions

Exception	Arguments are invalid

Definition at line 76 of file rapp_transform_audio.py.

6.63.2.2 def rapp_audio_processing.rapp_transform_audio.TransformAudio._convertType(self, source_type, source_name, target_type, target_name, target_channels, target_rate) [private]

Performs audio conversion.

Parameters

source_type	[string] The source audio file's type
source_name	[string] The source audio file's name
target_type	[string] The target audio file's type
target_name	[string] The target audio file's name
target_channels	[string] The target audio's channel number
target_rate	[string] The target audio's sample rate

Exceptions

Exception	Conversion malfunction

Definition at line 101 of file rapp_transform_audio.py.

6.63.2.3 def rapp_audio_processing.rapp_transform_audio.TransformAudio._validateSourceType (self, source_type, name)
[private]

Validates that the provided audio type match the file extension.

Parameters

source_type	[string] The source audio file's type
name	[string] The source audio file's name

Exceptions

Exception	Audio type/file type mismatch

Definition at line 139 of file rapp_transform_audio.py.

6.63.2.4 def rapp_audio_processing.rapp_transform_audio.TransformAudio.transform_audio (self, source_type, source_name, target_type, target_name, target_channels, target_rate)

Performs the audio transformation.

Parameters

source_type	[string] The source audio file's type
source_name	[string] The source audio file's name
target_type	[string] The target audio file's type
target_name	[string] The target audio file's name
target_channels	[string] The target audio's channel number
target_rate	[string] The target audio's sample rate

Returns

status [string] The status of the transformation prcedure filename [string] The name of the produced file

Definition at line 45 of file rapp_transform_audio.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_transform_-audio.py

6.64 userScoreHistoryForAllCategories.UserScoreHistoryForAllCategories Class Reference

Provides the necessary functions for returning the history of user scores.

Public Member Functions

- def assignTestHistoryForTestCategoriesToSrv
 - Retrieves the test history of the user for the provided test categories.
- · def returnUserHistory

The callback function of the cognitive exercise user score history for all categories service.

• def validateTimeRange

Validates the from Time and to Time variables.

6.64.1 Detailed Description

Provides the necessary functions for returning the history of user scores.

It implements the cognitive exercise return user score history for all categories service

Definition at line 39 of file userScoreHistoryForAllCategories.py.

6.64.2 Member Function Documentation

6.64.2.1 def userScoreHistoryForAllCategories.UserScoreHistoryForAllCategories.assignTestHistoryForTestCategoriesToSrv (
self, testTypesList, userOntologyAlias, fromTime, toTime, res)

Retrieves the test history of the user for the provided test categories.

Parameters

testTypesList	[list] The list of the available tests as they were read from the ontology
userOntology-	[string] The user's ontology alias
Alias	
fromTime	[long] The time from which the user's performance records are taken into account
toTime	[long] The time up to which the user's performance records are taken into account

Returns

res [rapp_platform_ros_communications::userScoreHistoryForAllCategoriesSrvResponse::Response&] The output arguments of the service as defined in the userScoreHistoryForAllCategoriesSrv

Definition at line 84 of file userScoreHistoryForAllCategories.py.

6.64.2.2 def userScoreHistoryForAllCategories.UserScoreHistoryForAllCategories.returnUserHistory (self, req)

The callback function of the cognitive exercise user score history for all categories service.

Parameters

req	[rapp_platform_ros_communications::userScoreHistoryForAllCategoriesSrvRequest::- Request&] The ROS service request
res	[rapp_platform_ros_communications::userScoreHistoryForAllCategoriesSrvResponse::- Response&] The ROS service response

Exceptions

Exception	ValueError
Exception	IndexError
Exception	AppError

Definition at line 47 of file userScoreHistoryForAllCategories.py.

6.64.2.3 def userScoreHistoryForAllCategories.UserScoreHistoryForAllCategories.validateTimeRange (self, fromTime, toTime)

Validates the fromTime and toTime variables.

Parameters

fromTime	[long] The time from which the performance records are evaluated
toTime	[long] The time up to which the performance records are evaluated

Returns

from Time [long] The time from which the performance records are evaluated to Time [long] The time up to which the performance records are evaluated

Exceptions

Exception	AppError

Definition at line 123 of file userScoreHistoryForAllCategories.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/userScoreHistoryForAllCategories.py

6.65 userScoresForAllCategories.UserScoresForAllCategories Class Reference

Provides the necessary functions for returning the user scores.

Public Member Functions

• def calculateUserScoresForCategories

Calculates and returns the user's scores for the provided test types.

• def returnUserScores

The callback function of the cognitive exercise user scores for all categories service.

6.65.1 Detailed Description

Provides the necessary functions for returning the user scores.

It implements the user scores for all categories service

Definition at line 33 of file userScoresForAllCategories.py.

6.65.2 Member Function Documentation

6.65.2.1 def userScoresForAllCategories.UserScoresForAllCategories.calculateUserScoresForCategories (self, testTypesList, userOntologyAlias, upToTime)

Calculates and returns the user's scores for the provided test types.

Parameters

testTypesList	[list] The list of the available tests as they were read from the ontology
userOntology-	[string] The user's ontology alias
Alias	
upToTime	[long] The time up to which the user's performance records are taken into account

Returns

testScores [list] The test scores for each category

Definition at line 74 of file userScoresForAllCategories.py.

6.65.2.2 def userScoresForAllCategories.UserScoresForAllCategories.returnUserScores (self, req)

The callback function of the cognitive exercise user scores for all categories service.

Parameters

req	[rapp_platform_ros_communications::userScoresForAllCategoriesSrvRequest::Request&]
	The ROS service request
res	[rapp_platform_ros_communications::userScoresForAllCategoriesSrvResponse::-
	Response&] The ROS service response

Exceptions

Exception	ValueError
Exception	IndexError
Exception	AppError

Definition at line 41 of file userScoresForAllCategories.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/userScoresForAllCategories.py

6.66 rapp_audio_processing.rapp_utilities.Utilities Class Reference

Provides audio processing utilities.

Public Member Functions

• def cleanup

Removes a number of files.

6.66.1 Detailed Description

Provides audio processing utilities.

Definition at line 27 of file rapp_utilities.py.

6.66.2 Member Function Documentation

6.66.2.1 def rapp_audio_processing.rapp_utilities.Utilities.cleanup (self, files)

Removes a number of files.

Parameters

files	[list::string] The to be deleted files' paths
-------	---

Definition at line 32 of file rapp_utilities.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_utilities.py

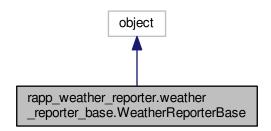
6.67 rapp_weather_reporter.weather_reporter_base.WeatherReporterBase Class Reference

Base class for weather reporters.

Inheritance diagram for rapp_weather_reporter.weather_reporter_base.WeatherReporterBase:



Collaboration diagram for rapp_weather_reporter.weather_reporter_base.WeatherReporterBase:



Public Member Functions

def init

Constructor.

· def fetch_current_weather

Abstract method to fetch weather report.

• def fetch_weather_forecast

Abstract method to fetch weather forecast.

Public Attributes

rapp_http_json_parser

Strips html tags from strings.

Private Attributes

• _accepted_status

The value of valid response status code.

• _http_request

Perform http requests to servers.

_url

The base weather reporter url.

Static Private Attributes

• __metaclass__ = abc.ABCMeta

6.67.1 Detailed Description

Base class for weather reporters.

Definition at line 32 of file weather_reporter_base.py.

6.67.2 Constructor & Destructor Documentation

6.67.2.1 def rapp_weather_reporter.weather_reporter_base.WeatherReporterBase.__init__ (self)

Constructor.

Definition at line 37 of file weather_reporter_base.py.

6.67.3 Member Function Documentation

6.67.3.1 def rapp_weather_reporter_weather_reporter_base.WeatherReporterBase.fetch_current_weather(self, req)

Abstract method to fetch weather report.

Definition at line 52 of file weather reporter base.py.

6.67.3.2 def rapp_weather_reporter.weather_reporter_base.WeatherReporterBase.fetch_weather_forecast (self, req)

Abstract method to fetch weather forecast.

Definition at line 58 of file weather_reporter_base.py.

6.67.4 Member Data Documentation

6.67.4.1 rapp_weather_reporter_weather_reporter_base.WeatherReporterBase.__metaclass__ = abc.ABCMeta [static], [private]

Definition at line 34 of file weather_reporter_base.py.

6.67.4.2 rapp_weather_reporter_weather_reporter_base.WeatherReporterBase._accepted_status [private]

The value of valid response status code.

Definition at line 42 of file weather reporter base.py.

6.67.4.3 rapp_weather_reporter_weather_reporter_base.WeatherReporterBase._http_request [private]

Perform http requests to servers.

Definition at line 45 of file weather_reporter_base.py.

6.67.4.4 rapp_weather_reporter_weather_reporter_base.WeatherReporterBase._url [private]

The base weather reporter url.

Definition at line 39 of file weather_reporter_base.py.

6.67.4.5 rapp_weather_reporter.weather_reporter_base.WeatherReporterBase.rapp_http_json_parser

Strips html tags from strings.

Definition at line 48 of file weather_reporter_base.py.

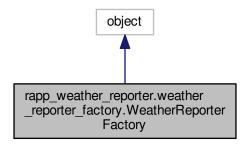
The documentation for this class was generated from the following file:

 /home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/weather_reporter-_base.py

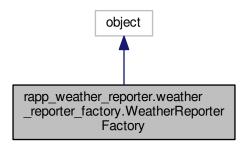
6.68 rapp_weather_reporter.weather_reporter_factory.WeatherReporterFactory Class Reference

Creates and returns the class of the weather reporter requested.

Inheritance diagram for rapp_weather_reporter.weather_reporter_factory.WeatherReporterFactory:



Collaboration diagram for rapp_weather_reporter.weather_reporter_factory.WeatherReporterFactory:



Public Member Functions

· def select weather reporter

Select proper weather reporter according to request.

6.68.1 Detailed Description

Creates and returns the class of the weather reporter requested.

Implements a factory pattern.

Definition at line 31 of file weather_reporter_factory.py.

6.68.2 Member Function Documentation

6.68.2.1 def rapp_weather_reporter.weather_reporter_factory.WeatherReporterFactory.select_weather_reporter (self, weather_reporter = ")

Select proper weather reporter according to request.

Parameters

weather	[string] The name of the weather reporter
reporter	

Returns

res [rapp_weather_reporter.rapp_weather_reporter.WeatherReporterBase] The weather reporter

RappError Wrong weather reporter provided by user

Definition at line 42 of file weather_reporter_factory.py.

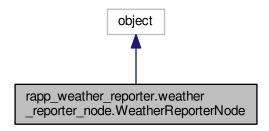
The documentation for this class was generated from the following file:

 /home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/weather_reporter-_factory.py

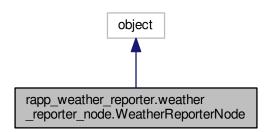
6.69 rapp_weather_reporter.weather_reporter_node.WeatherReporterNode Class Reference

Evaluates weather conditions.

 $Inheritance\ diagram\ for\ rapp_weather_reporter.weather_reporter_node. WeatherReporterNode:$



Collaboration diagram for rapp_weather_reporter.weather_reporter_node.WeatherReporterNode:



Public Member Functions

def __init__

Constructor.

• def fetch_current_weather_srv_callback

The callback to fetch current weather.

def fetch_forecast_srv_callback

The callback to fetch weather forecast.

Private Member Functions

- def _create_current_service_response Creates proper response.
- def _create_forecast_service_response

Private Attributes

· _weather_reporter_factory

Factory that returns proper weather_reporter.

6.69.1 Detailed Description

Evaluates weather conditions.

Definition at line 40 of file weather_reporter_node.py.

6.69.2 Constructor & Destructor Documentation

6.69.2.1 def rapp_weather_reporter.weather_reporter_node.WeatherReporterNode.__init__ (self)

Constructor.

Definition at line 43 of file weather reporter node.py.

6.69.3 Member Function Documentation

6.69.3.1 def rapp_weather_reporter_node.WeatherReporterNode._create_current_service_response (self, result) [private]

Creates proper response.

Parameters

results	[dict] The server results containing the weather information
---------	--

Returns

res [rapp_platform_ros_communications::WeatherReporter::WeatherReporterCurrentSrvResponse] The service response

Definition at line 129 of file weather_reporter_node.py.

6.69.3.2 def rapp_weather_reporter.weather_reporter_node.WeatherReporterNode._create_forecast_service_response (self, result) [private]

Definition at line 144 of file weather reporter node.py.

6.69.3.3 def rapp_weather_reporter.weather_reporter_node.WeatherReporterNode.fetch_current_weather_srv_callback (self, req)

The callback to fetch current weather.

Parameters

req	[rapp_platform_ros_communications::WeatherReporter::WeatherReporterCurrentSrv]	The
	service request	

Returns

res [rapp_platform_ros_communications::WeatherReporter::WeatherReporterCurrentSrvResponse] The service response

Definition at line 78 of file weather_reporter_node.py.

6.69.3.4 def rapp_weather_reporter.weather_reporter_node.WeatherReporterNode.fetch_forecast_srv_callback (self, req)

The callback to fetch weather forecast.

Parameters

req	[rapp_platform_ros_communications::WeatherReporter::WeatherReporterForecastSrv] The]
	service request	

Returns

res [rapp_platform_ros_communications::WeatherReporter::WeatherReporterCurrentSrvResponse] The service response

Definition at line 104 of file weather_reporter_node.py.

6.69.4 Member Data Documentation

6.69.4.1 rapp_weather_reporter_weather_reporter_node.WeatherReporterNode._weather_reporter_factory [private]

Factory that returns proper weather_reporter.

Definition at line 45 of file weather_reporter_node.py.

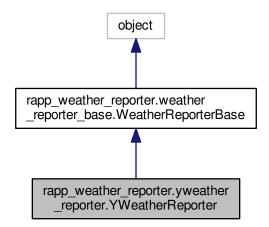
The documentation for this class was generated from the following file:

/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/weather_reporter-_node.py

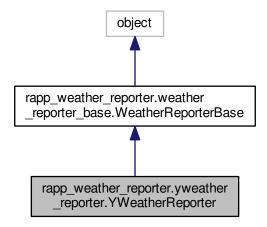
6.70 rapp_weather_reporter.yweather_reporter.YWeatherReporter Class Reference

Yweather weather reporter.

Inheritance diagram for rapp_weather_reporter.yweather_reporter.YWeatherReporter:



Collaboration diagram for rapp_weather_reporter.yweather_reporter.YWeatherReporter:



Public Member Functions

def init

Constructor.

· def fetch_current_weather

Fetch the current weather.

• def fetch_weather_forecast

Fetch the current weather.

Private Member Functions

- def _fetch_city_id
- def _fetch_yweather_report
- def _handle_current_weather_report

Handles the server's response.

• def _handle_weather_forecast_report

Private Attributes

• _client

Additional Inherited Members

6.70.1 Detailed Description

Yweather weather reporter.

Definition at line 34 of file yweather_reporter.py.

6.70.2 Constructor & Destructor Documentation

6.70.2.1 def rapp_weather_reporter.yweather_reporter.YWeatherReporter.__init__ (self)

Constructor.

Definition at line 37 of file yweather_reporter.py.

6.70.3 Member Function Documentation

6.70.3.1 def rapp_weather_reporter.yweather_reporter.YWeatherReporter_fetch_city_id (self, city_str) [private]

Definition at line 42 of file yweather_reporter.py.

6.70.3.2 def rapp_weather_reporter.yweather_reporter.YWeatherReporter._fetch_yweather_report (self, city_id, param_metric = ' True') [private]

Definition at line 67 of file yweather_reporter.py.

6.70.3.3 def rapp_weather_reporter.yweather_reporter.YWeatherReporter._handle_current_weather_report (self, report) [private]

Handles the server's response.

Parameters

response	[] The server's response to the request module.
----------	---

Returns

values [dict] The final values

Definition at line 104 of file yweather_reporter.py.

Definition at line 119 of file yweather_reporter.py.

6.70.3.5 def rapp_weather_reporter.yweather_reporter.YWeatherReporter.fetch_current_weather (self, req)

Fetch the current weather.

Parameters

req	[rapp_platform_ros_communications::WeatherReporter::WeatherReporterCurrentSrv]	The
	service request	

Returns

[dict] The server results

Definition at line 81 of file yweather_reporter.py.

6.70.3.6 def rapp_weather_reporter.yweather_reporter.YWeatherReporter.fetch_weather_forecast (self, reg)

Fetch the current weather.

Parameters

req	[rapp_platform_ros_communications::WeatherReporter::WeatherReporterCurrentSrv]	The
	service request	

Returns

[dict] The server results

Definition at line 94 of file yweather_reporter.py.

6.70.4 Member Data Documentation

6.70.4.1 rapp_weather_reporter.yweather_reporter.YWeatherReporter._client [private]

Definition at line 39 of file yweather_reporter.py.

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

/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/yweather_reporter.

Chapter 7

File Documentation

__init__.py File Reference

7.1	/home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp-application_authentication_manager/initpy File Reference
Name	espaces
•	rapp_application_authentication_manager
7.2	/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio processing/initpy File Reference
Name	espaces
•	rapp_audio_processing
7.3	/home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/initpy File Reference
Name	espaces
•	rapp_email
7.4	/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/init py File Reference
Name	espaces
•	rapp_geolocator
7.5	/home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/-

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Namespaces

- · rapp_news_explorer
- 7.6 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/__init__.py File Reference

Namespaces

- · rapp speech detection sphinx4
- 7.7 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/__init__.py File Reference

Namespaces

- src
- 7.8 /home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/__init__.py File Reference

Namespaces

- · rapp_weather_reporter
- 7.9 /home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp-_application_authentication_manager/application_authentication_node.py File Reference

Classes

 class rapp_application_authentication_manager.application_authentication_node.ApplicationAuthentication_ Manager

Provides user management features.

Namespaces

• rapp_application_authentication_manager.application_authentication_node

Variables

 tuple rapp_application_authentication_manager.application_authentication_node.application_authentication-_ros_node = ApplicationAuthenticationManager() 7.10 /home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp_application_authentication_manager/database_handler.py File

Reference 7.10 /home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp-application_authentication_manager/database_handler.py File Reference

Classes

• class rapp_application_authentication_manager.database_handler.DatabaseHandler Handles database functions for authentication manager.

Namespaces

- · rapp_application_authentication_manager.database_handler
- 7.11 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_audio_processing.py File Reference

Classes

class rapp_audio_processing.rapp_audio_processing.AudioProcessing
 Provides audio processing utilities.

Namespaces

• rapp_audio_processing.rapp_audio_processing

Variables

- tuple rapp_audio_processing.rapp_audio_processing.AudioProcessingNode = AudioProcessing()
- 7.12 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_detect_silence.py File Reference

Classes

• class rapp_audio_processing.rapp_detect_silence.DetectSilence Performs silence detection on an audio file.

Namespaces

- · rapp audio processing.rapp detect silence
- 7.13 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_energy_denoise.py File Reference

Classes

class rapp_audio_processing.rapp_energy_denoise.EnergyDenoise
 Performs energy denoising on an audio file.

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Namespaces

- · rapp_audio_processing.rapp_energy_denoise
- 7.14 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_set_noise_profile.py File Reference

Classes

• class rapp_audio_processing.rapp_set_noise_profile.SetNoiseProfile Evaluates the noise profile for an audio file.

Namespaces

- rapp_audio_processing.rapp_set_noise_profile
- 7.15 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_sox_denoise.py File Reference

Classes

class rapp_audio_processing.rapp_sox_denoise.SoxDenoise
 Performs denoising on an audio file employing Sox application.

Namespaces

- rapp_audio_processing.rapp_sox_denoise
- 7.16 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_transform_audio.py File Reference

Classes

Namespaces

- · rapp audio processing.rapp transform audio
- 7.17 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_utilities.py File Reference

Classes

class rapp_audio_processing.rapp_utilities.Utilities
 Provides audio processing utilities.

Namespaces

- · rapp_audio_processing.rapp_utilities
- 7.18 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_utilities.py File Reference

Classes

class src.rapp_utilities.RappUtilities
 Provides various utility functionalities.

Namespaces

- · src.rapp_utilities
- 7.19 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/app_error_exception.py File Reference

Classes

class app_error_exception.AppError
 Exception compliant with the ros error and trace srvs.

Namespaces

- · app_error_exception
- 7.20 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/app_error_exception.py File Reference

Classes

class app_error_exception.AppError
 Exception compliant with the ros error and trace srvs.

Namespaces

- · app error exception
- 7.21 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/caffe_wrapper.py File Reference

Classes

class caffe_wrapper.RappCaffeWrapper
 The RappCaffeWrapper ros node.

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Namespaces

· caffe_wrapper

7.22 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/caffe_wrapper_main.py File Reference

Namespaces

· caffe_wrapper_main

Variables

tuple caffe_wrapper_main.RappCaffeWrapperNode = RappCaffeWrapper()
 The main function that initiates the rapp_caffe_wrapper ROS Node.

7.23 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/image_classification.py File Reference

Classes

• class image_classification.ImageClassification

Contains the necessary functions for classifying an images and requesting registration to the ontology.

Namespaces

- · image_classification
- 7.24 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/image_registration_to_ontology.py File Reference

Classes

class image_registration_to_ontology.ImageRegistrationToOntology
 Contains the necessary functions for registering images to the ontology.

Namespaces

- · image registration to ontology
- 7.25 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/ontology_class_bridge.py File Reference

Classes

• class ontology_class_bridge.OntologyClassBridge

Contains the necessary functions for translating caffe classes to ontology classes.

Namespaces

- ontology_class_bridge
- 7.26 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/cognitive_exercise.py File Reference

Classes

• class cognitive_exercise.CognitiveExercise

The Cognitive exercise ros node.

Namespaces

- · cognitive_exercise
- 7.27 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/cognitive_exercise_main.py File Reference

Namespaces

• cognitive_exercise_main

Variables

• tuple cognitive_exercise_main.CognitiveExerciseNode = CognitiveExercise()

The main function that initiates the CognitiveExercise ROS Node.

7.28 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/helper_functions.py File Reference

Classes

• class helper_functions.CognitiveExerciseHelperFunctions

Namespaces

- helper_functions
- 7.29 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/userScore-HistoryForAllCategories.py File Reference

Classes

• class userScoreHistoryForAllCategories.UserScoreHistoryForAllCategories

Provides the necessary functions for returning the history of user scores.

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Namespaces

• userScoreHistoryForAllCategories

7.30 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/userScoresFor-AllCategories.py File Reference

Classes

· class userScoresForAllCategories.UserScoresForAllCategories

Provides the necessary functions for returning the user scores.

Namespaces

• userScoresForAllCategories

7.31 /home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_node.py File Reference

Namespaces

rapp_email.email_node

Variables

- tuple rapp_email.email_node.emailReceiver = EmailReceiver()
- tuple rapp_email.email_node.emailSender = EmailSender()
- 7.32 /home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_receiver.py File Reference

Classes

· class rapp_email.email_receiver.EmailReceiver

Fetches emails from user's email account.

Namespaces

· rapp_email.email_receiver

7.33 /home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_sender.py File Reference

Classes

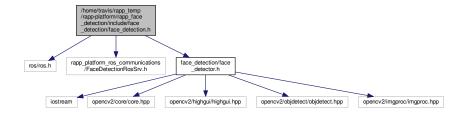
· class rapp_email.email_sender.EmailSender

Namespaces

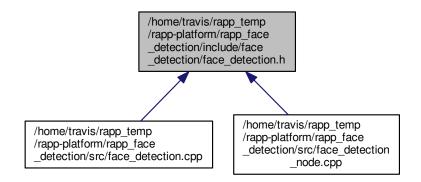
· rapp_email.email_sender

7.34 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/include/face_detection/face_detection.h File Reference

```
#include "ros/ros.h"
#include <rapp_platform_ros_communications/FaceDetectionRosSrv.h>
#include <face_detection/face_detector.h>
Include dependency graph for face_detection.h:
```



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



Classes

class FaceDetection

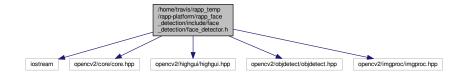
Class FaceDetection uptakes the task of handling the ROS service callbacks.

7.35 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/include/face_detection/face-_detector.h File Reference

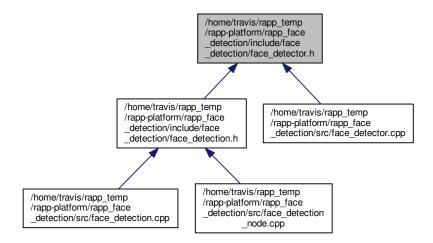
#include <iostream>

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```
#include <opencv2/core/core.hpp>
#include <opencv2/highgui/highgui.hpp>
#include <opencv2/objdetect/objdetect.hpp>
#include <opencv2/imgproc/imgproc.hpp>
Include dependency graph for face_detector.h:
```



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



Classes

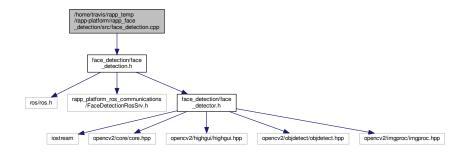
class FaceDetector

Class that implements a face detection algorithm based on a Haar cascade classifier.

7.36 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/src/face_detection.cpp File Reference

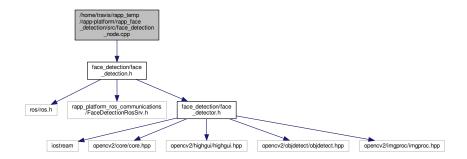
#include <face_detection/face_detection.h>

Include dependency graph for face_detection.cpp:



7.37 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/src/face_detection_node.cpp File Reference

#include <face_detection/face_detection.h>
Include dependency graph for face_detection_node.cpp:



Functions

• int main (int argc, char **argv)

The executable's main function. Creates a ROS multispinner to enable concurrent requests and declares a Face-Detection object.

7.37.1 Function Documentation

7.37.1.1 int main (int argc, char ** argv)

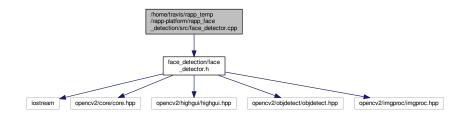
The executable's main function. Creates a ROS multispinner to enable concurrent requests and declares a Face-Detection object.

Definition at line 24 of file face_detection_node.cpp.

252 File Documentation

7.38 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/src/face_detector.cpp File Reference

#include <face_detection/face_detector.h>
Include dependency graph for face_detector.cpp:



7.39 /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator-_base.py File Reference

Classes

class rapp_geolocator.geolocator_base.GeolocatorBase
 Base class for geolocators.

Namespaces

- rapp_geolocator.geolocator_base
- 7.40 /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator-_factory.py File Reference

Classes

• class rapp_geolocator.geolocator_factory.GeolocatorFactory

Namespaces

- rapp_geolocator.geolocator_factory
- 7.41 /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator-_node.py File Reference

Classes

class rapp_geolocator.geolocator_node.GeolocatorNode
 Calculates geolocation via IP.

Namespaces

· rapp_geolocator.geolocator_node

Variables

• tuple rapp geolocator.geolocator node.geolocator node = GeolocatorNode()

7.42 /home/travis/rapp temp/rapp-platform/rapp geolocator/src/rapp geolocator/ip api-_locator.py File Reference

Classes

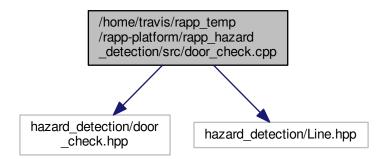
· class rapp_geolocator.ip_api_locator.lpAPILocator IP-API locator.

Namespaces

· rapp_geolocator.ip_api_locator

7.43 /home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/door_check.cpp File Reference

#include <hazard_detection/door_check.hpp> #include <hazard_detection/Line.hpp> Include dependency graph for door_check.cpp:

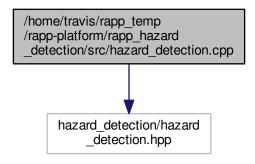


7.44 /home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/hazard_detection.cpp File Reference

#include <hazard_detection/hazard_detection.hpp>

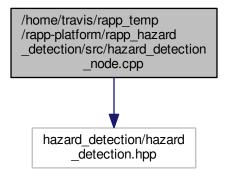
254 File Documentation

Include dependency graph for hazard_detection.cpp:



7.45 /home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/hazard_detection-_node.cpp File Reference

#include <hazard_detection/hazard_detection.hpp>
Include dependency graph for hazard_detection_node.cpp:



Functions

• int main (int argc, char **argv)

The executable's main function. Creates a ROS multispinner to enable concurrent requests and declares a Hazard-Detection object.

7.45.1 Function Documentation

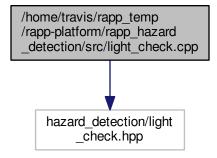
7.45.1.1 int main (int argc, char ** argv)

The executable's main function. Creates a ROS multispinner to enable concurrent requests and declares a Hazard-Detection object.

Definition at line 24 of file hazard_detection_node.cpp.

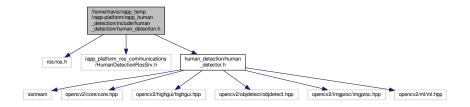
7.46 /home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/light_check.cpp File Reference

#include <hazard_detection/light_check.hpp> Include dependency graph for light check.cpp:

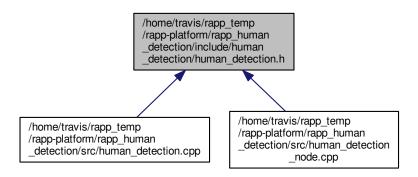


7.47 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/include/human_detection/human_detection.h File Reference

```
#include "ros/ros.h"
#include <rapp_platform_ros_communications/HumanDetectionRosSrv.h>
#include <human_detection/human_detector.h>
Include dependency graph for human detection.h:
```



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



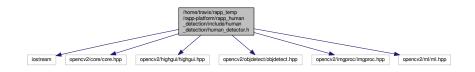
Classes

• class HumanDetection

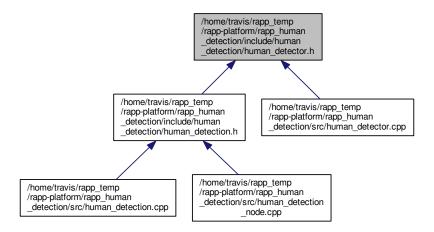
Class HumanDetection uptakes the task of handling the ROS service callbacks.

7.48 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/include/human_detection/human_detector.h File Reference

```
#include <iostream>
#include <opencv2/core/core.hpp>
#include <opencv2/highgui/highgui.hpp>
#include <opencv2/objdetect/objdetect.hpp>
#include <opencv2/imgproc/imgproc.hpp>
#include <opencv2/ml/ml.hpp>
Include dependency graph for human detector.h:
```



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



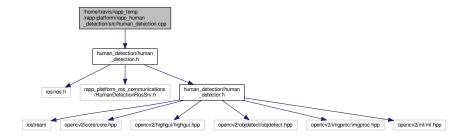
Classes

· class HumanDetector

Class that implements a human detection algorithm based on a Haar cascade classifier.

7.49 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/src/human_detection.cpp File Reference

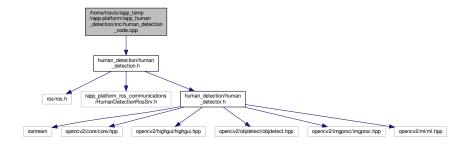
#include <human_detection/human_detection.h>
Include dependency graph for human_detection.cpp:



7.50 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/src/human_detection-_node.cpp File Reference

#include <human_detection/human_detection.h>

Include dependency graph for human_detection_node.cpp:



Functions

• int main (int argc, char **argv)

The executable's main function. Creates a ROS multispinner to enable concurrent requests and declares a Human-Detection object.

7.50.1 Function Documentation

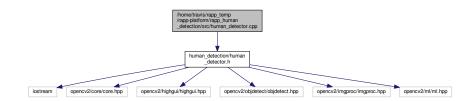
7.50.1.1 int main (int argc, char ** argv)

The executable's main function. Creates a ROS multispinner to enable concurrent requests and declares a Human-Detection object.

Definition at line 24 of file human_detection_node.cpp.

7.51 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/src/human_detector.cpp File Reference

#include <human_detection/human_detector.h>
Include dependency graph for human_detector.cpp:



7.52 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper.h File Reference

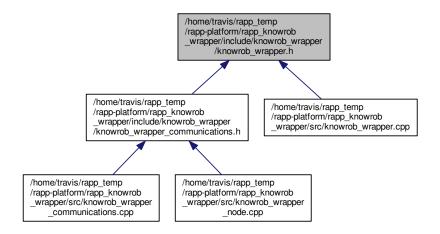
#include <string>

7.52 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper.h File

Reference 259 #include <iostream> #include <json_prolog/prolog.h> #include <rapp_platform_ros_communications/registerUserOntologyAliasSrv.h> #include <rapp_platform_ros_communications/getUserOntologyAliasSrv.h> #include <rapp_platform_ros_communications/StringArrayMsg.h> #include <rapp_platform_ros_communications/createInstanceSrv.h> #include <rapp_platform_ros_communications/ontologyInstancesOfSrv.h> #include <rapp_platform_ros_communications/ontologyLoadDumpSrv.h> #include <rapp_platform_ros_communications/ontologySubSuperClassesOfSrv.h> #include <rapp_platform_ros_communications/assertRetractAttributeSrv.h> #include <rapp_platform_ros_communications/ontologyIsSubSuperClassOfSrv.h> #include <rapp_platform_ros_communications/returnUserInstancesOfClassSrv.h> #include <rapp_platform_ros_communications/createOntologyAliasSrv.h> #include <rapp_platform_ros_communications/userPerformanceCognitveTests-Srv.h> #include <rapp_platform_ros_communications/createCognitiveExerciseTestSrv.-#include <rapp_platform_ros_communications/cognitiveTestsOfTypeSrv.h> #include <rapp_platform_ros_communications/recordUserPerformanceCognitive-TestsSrv.h> #include <rapp platform ros communications/clearUserPerformanceCognitve-TestsSrv.h> #include <rapp_platform_ros_communications/registerImageObjectToOntology-#include <rapp_platform_ros_communications/retractUserOntologyAliasSrv.h> Include dependency graph for knowrob_wrapper.h:



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



Classes

class KnowrobWrapper

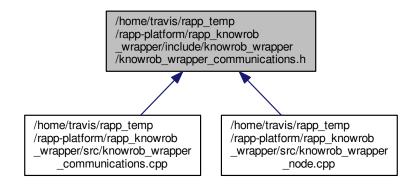
Class KnowrobWrapperCommunications contains all the necessary knowrob wrapper functions.

7.53 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper_communications.h File Reference

#include <knowrob_wrapper/knowrob_wrapper.h>
#include <ros/ros.h>
Include dependency graph for knowrob wrapper communications.h:



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



Classes

• class KnowrobWrapperCommunications

 ${\it Class\ KnowrobWrapper Communications\ uptakes\ the\ task\ of\ handling\ the\ ROS\ service\ callbacks.}$

7.54 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper.cpp File Reference

```
#include <knowrob_wrapper/knowrob_wrapper.h>
#include <sys/stat.h>
#include <unistd.h>
#include <sstream>
#include <ros/package.h>
#include <fstream>
```

Include dependency graph for knowrob_wrapper.cpp:



Functions

bool checkIfFileExists (const char *fileName)

Checks if path exists.

• bool checkIfStringContainsString (std::string a, std::string b)

Checks if the second string is contained within the first string.

bool checkIfStringVectorContainsString (std::vector < std::string > vec, std::string a)

Check if a string is contained in a vector string.

• std::string intToString (int a)

Converts integer to string.

std::vector< std::string > split (std::string str, std::string sep)

Splits string by delimiter.

• std::string SplitFilename (const std::string &str)

Keeps only the final folder or file from a path.

7.54.1 Function Documentation

7.54.1.1 bool checklfFileExists (const char * fileName)

Checks if path exists.

Parameters

fileName	[char∗] The input path

Returns

out [bool] True if file exists

Definition at line 103 of file knowrob_wrapper.cpp.

7.54.1.2 bool checklfStringContainsString (std::string a, std::string b)

Checks if the second string is contained within the first string.

Parameters

```
a [string] The first string
```

Returns

b [string] The second String

Definition at line 68 of file knowrob_wrapper.cpp.

7.54.1.3 bool checklfStringVectorContainsString (std::vector< std::string > vec, std::string a)

Check if a string is contained in a vector string.

Parameters

vec	[vector <string>] The vector containing strings</string>

Returns

a [string] The string to check if it is contained

Definition at line 52 of file knowrob_wrapper.cpp.

7.54.1.4 std::string intToString (int a)

Converts integer to string.

7.55 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper_communications.cpp File

Reference 263
Parameters

а	[int] The input integer

Returns

out [string] The output string

Definition at line 81 of file knowrob wrapper.cpp.

7.54.1.5 std::vector<std::string> split (std::string str, std::string sep)

Splits string by delimiter.

Parameters

str	[string] The input string
sep	[string] The delimiter

Returns

arr [vector<string>] A vector with the string parts as splitted by the delimiter

Definition at line 114 of file knowrob_wrapper.cpp.

7.54.1.6 std::string SplitFilename (const std::string & str)

Keeps only the final folder or file from a path.

Parameters

-4	[string 0] The input note
str	[string&] The input path

Returns

out [string] The output filename

Definition at line 92 of file knowrob_wrapper.cpp.

7.55 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper-_communications.cpp File Reference

#include <knowrob_wrapper/knowrob_wrapper_communications.h>
#include <ros/package.h>

Include dependency graph for knowrob_wrapper_communications.cpp:



7.56 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper-_node.cpp File Reference

#include <knowrob_wrapper/knowrob_wrapper_communications.h>
Include dependency graph for knowrob_wrapper_node.cpp:



Functions

int main (int argc, char **argv)

The executable's main function. Creates a ROS multispinner to enable concurrent requests and declares a Knowrob-WrapperCommunications object.

7.56.1 Function Documentation

7.56.1.1 int main (int argc, char ** argv)

The executable's main function. Creates a ROS multispinner to enable concurrent requests and declares a KnowrobWrapperCommunications object.

Definition at line 27 of file knowrob wrapper node.cpp.

7.57 /home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper.py File Reference

Classes

class mysql_wrapper.MySQLdbWrapper

The mysql wrapper ros node.

Namespaces

· mysql_wrapper

7.58 /home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper_main.py File Reference

Namespaces

• mysql_wrapper_main

Variables

• tuple mysql_wrapper_main.MySQLWrapperNode = MySQLdbWrapper()

The main function that initiates the rapp mysql wrapper ROS Node.

7.59 /home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper_old.py File Reference

Classes

class mysql_wrapper_old.MySQLdbWrapper
 The mysql wrapper ros node.

Namespaces

- · mysql_wrapper_old
- 7.60 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/engine_factory.py File Reference

Classes

class rapp_news_explorer.engine_factory.EngineFactory
 Creates and returns the class of the news engine requested.

Namespaces

- rapp_news_explorer.engine_factory
- 7.61 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/event-_registry_engine.py File Reference

Classes

Namespaces

- rapp_news_explorer.event_registry_engine
- 7.62 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/google_news_engine.py File Reference

Classes

• class rapp_news_explorer.google_news_engine.GoogleNewsEngine Google news engine hndler.

Namespaces

• rapp_news_explorer.google_news_engine

7.63 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/news_engine_base.py File Reference

Classes

• class rapp_news_explorer.news_engine_base.NewsEngineBase Base class for news engines.

Namespaces

- rapp_news_explorer.news_engine_base
- 7.64 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/news_explorer_node.py File Reference

Classes

class rapp_news_explorer.news_explorer_node.NewsExplorerNode
 Fetches news from various News sites' APIs.

Namespaces

• rapp_news_explorer.news_explorer_node

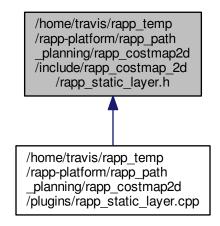
Variables

- tuple rapp news explorer.news explorer node.news explorer node = NewsExplorerNode()
- 7.65 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_costmap2d/include/rapp_costmap_2d/rapp_static_layer.h File Reference

```
#include <ros/ros.h>
#include <ros/service_manager.h>
#include <costmap_2d/costmap_layer.h>
#include <costmap_2d/layered_costmap.h>
#include <costmap_2d/GenericPluginConfig.h>
#include <dynamic_reconfigure/server.h>
#include <nav_msgs/OccupancyGrid.h>
#include <nav_msgs/GetMap.h>
#include <map_msgs/OccupancyGridUpdate.h>
#include <message_filters/subscriber.h>
#include <memory>
#include <rapp_platform_ros_communications/Costmap2dRosSrv.h>
Include dependency graph for rapp static layer.h:
```



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



Classes

· class costmap_2d::RappStaticLayer

Namespaces

· costmap 2d

7.66 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_costmap2d/plugins/rapp_static_layer.cpp File Reference

```
#include <rapp_costmap_2d/rapp_static_layer.h>
#include <costmap_2d/costmap_math.h>
#include <pluginlib/class_list_macros.h>
Include dependency graph for rapp_static_layer.cpp:
```

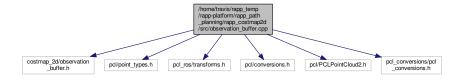


Namespaces

· costmap_2d

7.67 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_costmap2d/src/observation_buffer.cpp File Reference

```
#include <costmap_2d/observation_buffer.h>
#include <pcl/point_types.h>
#include <pcl_ros/transforms.h>
#include <pcl/conversions.h>
#include <pcl/PCLPointCloud2.h>
#include <pcl_conversions/pcl_conversions.h>
Include dependency graph for observation_buffer.cpp:
```

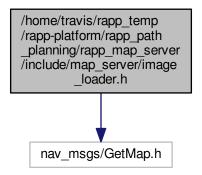


Namespaces

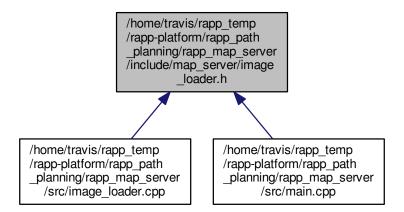
· costmap_2d

7.68 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/include/map_server/image_loader.h File Reference

#include "nav_msgs/GetMap.h"
Include dependency graph for image_loader.h:



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



Namespaces

· map_server

Functions

• void map_server::loadMapFromFile (nav_msgs::GetMap::Response *resp, const char *fname, double res, bool negate, double occ_th, double free_th, double *origin, bool trinary=true)

7.69 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/scripts/crop-_map.py File Reference

Namespaces

• crop_map

Functions

- · def crop map.computed cropped origin
- def crop_map.find_bounds

Variables

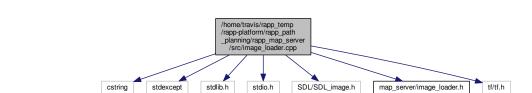
- tuple crop_map.bounds = find_bounds(map_image)
- string crop_map.crop_image = crop_name+".pgm"
- list crop_map.crop_name = sys.argv[2]
- string crop_map.crop_yaml = crop_name+".yaml"
- tuple crop_map.cropped_image = map_image.crop((bounds[0], bounds[2], bounds[1] + 1, bounds[3] + 1))
- tuple crop_map.map_data = yaml.safe_load(f)
- tuple crop_map.map_image = Image.open(map_image_file)

- list crop_map.map_image_file = map_data["image"]
- list crop_map.origin = map_data["origin"]
- list crop_map.resolution = map_data["resolution"]

7.70 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/src/image-loader.cpp File Reference

```
#include <cstring>
#include <stdexcept>
#include <stdlib.h>
#include <stdio.h>
#include <SDL/SDL_image.h>
#include "map_server/image_loader.h"
#include <tf/tf.h>
```

Include dependency graph for image_loader.cpp:



Namespaces

· map_server

Macros

• #define MAP_IDX(sx, i, j) ((sx) * (j) + (i))

Functions

• void map_server::loadMapFromFile (nav_msgs::GetMap::Response *resp, const char *fname, double res, bool negate, double occ_th, double free_th, double *origin, bool trinary=true)

7.70.1 Macro Definition Documentation

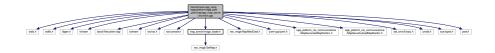
7.70.1.1 #define MAP_IDX(sx, i, j) ((sx) * (j) + (i))

Definition at line 49 of file image_loader.cpp.

nav_msgs/GetMap.h

7.71 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/src/main.cpp File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <libgen.h>
#include <fstream>
#include <boost/filesystem.hpp>
#include <sstream>
#include "ros/ros.h"
#include "ros/console.h"
#include "map_server/image_loader.h"
#include "nav_msgs/MapMetaData.h"
#include "yaml-cpp/yaml.h"
#include "rapp_platform_ros_communications/MapServerGetMapRosSrv.h"
#include "rapp_platform_ros_communications/MapServerUploadMapRosSrv.h"
#include "std_srvs/Empty.h"
#include <unistd.h>
#include <sys/types.h>
#include <pwd.h>
Include dependency graph for main.cpp:
```



Classes

class MapServer

Macros

• #define USAGE

Functions

• int main (int argc, char **argv)

7.71.1 Macro Definition Documentation

7.71.1.1 #define USAGE

Value:

Definition at line 38 of file main.cpp.

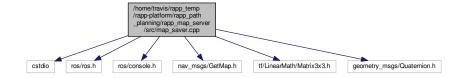
7.71.2 Function Documentation

```
7.71.2.1 int main ( int argc, char ** argv )
```

Definition at line 288 of file main.cpp.

7.72 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/src/map-_saver.cpp File Reference

```
#include <cstdio>
#include "ros/ros.h"
#include "ros/console.h"
#include "nav_msgs/GetMap.h"
#include "tf/LinearMath/Matrix3x3.h"
#include "geometry_msgs/Quaternion.h"
Include dependency graph for map_saver.cpp:
```



Classes

class MapGenerator

Map generation node.

Macros

• #define USAGE

Functions

• int main (int argc, char **argv)

7.72.1 Macro Definition Documentation

7.72.1.1 #define USAGE

Value:

Definition at line 124 of file map_saver.cpp.

Reference 273

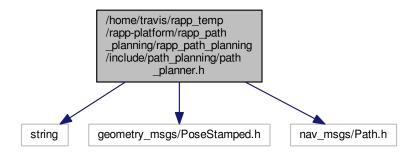
7.72.2 Function Documentation

7.72.2.1 int main (int argc, char ** argv)

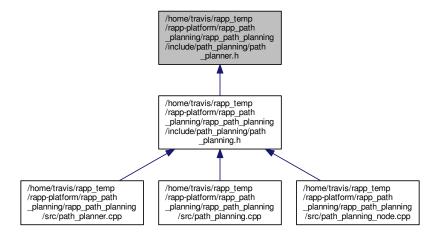
Definition at line 128 of file map saver.cpp.

7.73 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/include/path_planning/path_planner.h File Reference

```
#include <string>
#include <geometry_msgs/PoseStamped.h>
#include <nav_msgs/Path.h>
Include dependency graph for path planner.h:
```



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



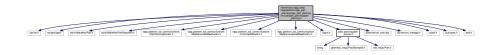
Classes

· class PathPlanner

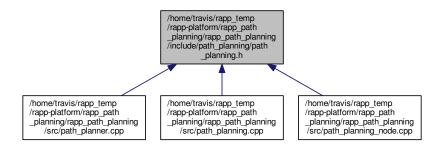
Class that implements a path planning algorithm based on global_planner and map_server ROS nodes.

7.74 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/include/path-_planning/path_planning.h File Reference

```
#include "ros/ros.h"
#include "ros/package.h"
#include <navfn/MakeNavPlan.h>
#include <navfn/MakeNavPlanResponse.h>
#include <rapp_platform_ros_communications/PathPlanningRosSrv.h>
#include "rapp_platform_ros_communications/MapServerGetMapRosSrv.h"
#include "rapp_platform_ros_communications/Costmap2dRosSrv.h"
#include "rapp_platform_ros_communications/MapServerUploadMapRosSrv.h"
#include <signal.h>
#include <path_planning/path_planner.h>
#include <boost/lexical_cast.hpp>
#include <ros/service_manager.h>
#include <unistd.h>
#include <sys/types.h>
#include <pwd.h>
Include dependency graph for path_planning.h:
```



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

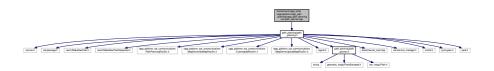


Classes

class PathPlanning

7.75 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/src/path_planner.cpp File Reference

#include <path_planning/path_planning.h>



7.76 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/src/path_planning.cpp File Reference

```
#include <path_planning/path_planning.h>
#include <iostream>
#include <string>
#include <sys/stat.h>
#include <sys/types.h>
#include <unistd.h>
#include <algorithm>
#include <stdlib.h>
#include <boost/filesystem.hpp>
#include <cmath>
```

Include dependency graph for path_planning.cpp:



Functions

- bool exists file (const std::string &name)
- bool input_poses_correct (geometry_msgs::PoseStamped &start, geometry_msgs::PoseStamped &goal)
- std::vector
 - $< {\tt geometry_msgs::PoseStamped} > {\tt setPoseDist} \ ({\tt double pose_dist, std::vector} < {\tt geometry_msgs::PoseStamped} > {\tt input_path})$
- pid_t start_global_planners (std::string node_nr_str)
- pid_t start_map_servers (std::string node_nr_str)
- pid_t start_tf_publisher ()

7.76.1 Function Documentation

7.76.1.1 bool exists_file (const std::string & name)

Definition at line 41 of file path_planning.cpp.

7.76.1.2 bool input_poses_correct (geometry_msgs::PoseStamped & start, geometry_msgs::PoseStamped & goal)

Definition at line 14 of file path_planning.cpp.

7.76.1.3 std::vector<geometry_msgs::PoseStamped> setPoseDist (double *pose_dist*, std::vector< geometry_msgs::PoseStamped > input_path)

Definition at line 259 of file path_planning.cpp.

7.76.1.4 pid_t start_global_planners (std::string node_nr_str)

Definition at line 98 of file path_planning.cpp.

7.76.1.5 pid_t start_map_servers (std::string node_nr_str)

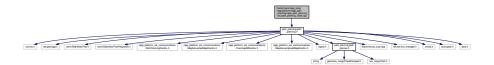
Definition at line 67 of file path_planning.cpp.

7.76.1.6 pid_t start_tf_publisher ()

Definition at line 46 of file path_planning.cpp.

7.77 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/src/path_planning_node.cpp File Reference

#include <path_planning/path_planning.h>
Include dependency graph for path_planning_node.cpp:



Functions

- int main (int argc, char **argv)
- void mySigintHandler (int sig)

Variables

PathPlanning * path planning

7.77.1 Function Documentation

7.77.1.1 int main (int argc, char ** argv)

Definition at line 10 of file path planning node.cpp.

7.77.1.2 void mySigintHandler (int sig)

Definition at line 5 of file path_planning_node.cpp.

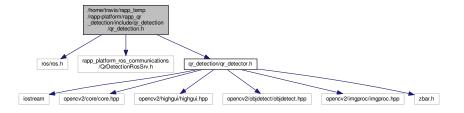
7.77.2 Variable Documentation

7.77.2.1 PathPlanning* path_planning_

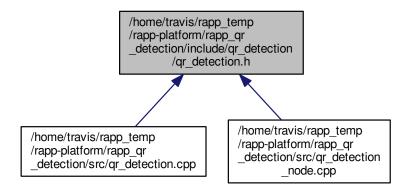
Definition at line 3 of file path_planning_node.cpp.

7.78 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detection.h File Reference

```
#include "ros/ros.h"
#include <rapp_platform_ros_communications/QrDetectionRosSrv.h>
#include <qr_detection/qr_detector.h>
Include dependency graph for gr detection.h:
```



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



Classes

· class QrDetection

Uptakes the task of setting up the ROS service callbacks towards gr detection.

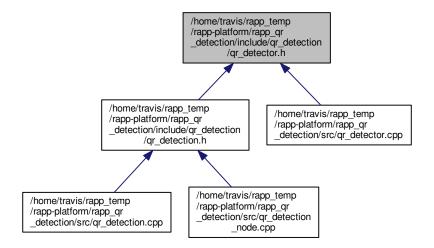
7.79 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detection/qr_detector.h File Reference

```
#include <iostream>
#include <opencv2/core/core.hpp>
#include <opencv2/highgui/highgui.hpp>
#include <opencv2/objdetect/objdetect.hpp>
#include <opencv2/imgproc/imgproc.hpp>
#include <zbar.h>
Include dependency graph for qr detector.h:
```

//borne/travis/rago_temp
/rapoplatform/rago_q
_detection/fuclude/g_detection
_dr_detector.h

opencv2/highgui/highgui.hpp opencv2/objdetect/objdetect.hpp

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



Classes

class QrCode

Structure holding the essential info for a QR code.

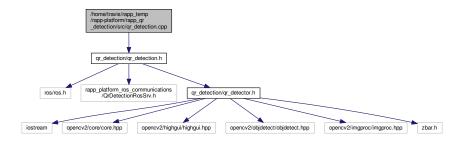
class QrDetector

Provides the QR detection functionality.

7.80 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_detection.cpp File Reference

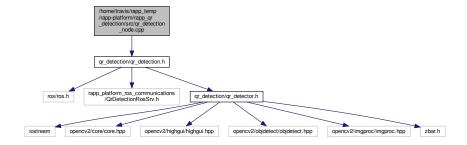
#include <qr_detection/qr_detection.h>

Include dependency graph for qr_detection.cpp:



7.81 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_detection_node.cpp File Reference

#include <qr_detection/qr_detection.h>
Include dependency graph for qr_detection_node.cpp:



Functions

• int main (int argc, char **argv)

The main function. Retrieves the threads parameter in order to enable concurrent service invocation.

7.81.1 Function Documentation

7.81.1.1 int main (int argc, char ** argv)

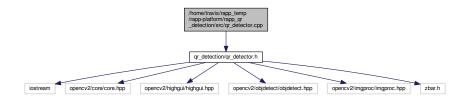
The main function. Retrieves the threads parameter in order to enable concurrent service invocation.

Definition at line 25 of file qr_detection_node.cpp.

7.82 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_detector.cpp File Reference

#include <qr_detection/qr_detector.h>

Include dependency graph for qr_detector.cpp:



7.83 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_google/src/speech_recognition_google.py File Reference

Classes

class speech_recognition_google.SpeechToTextGoogle
 Implements calls the Google ASR API.

Namespaces

speech_recognition_google

Variables

- tuple speech_recognition_google.speech_to_text_node = SpeechToTextGoogle()

 The main function.
- 7.84 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/english_support.py File Reference

Classes

class rapp_speech_detection_sphinx4.english_support.EnglishSupport
 Allows the creation of configuration files for English Sphinx speech recognition.

Namespaces

- rapp_speech_detection_sphinx4.english_support
- 7.85 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/global_parameters.py File Reference

Classes

class rapp_speech_detection_sphinx4.global_parameters.GlobalParams
 Contains global Sphinx parameters.

spninx4/greek_englisn_support.py File
Reference 281

Namespaces

- · rapp speech detection sphinx4.global parameters
- 7.86 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/greek_english_support.py File Reference

Classes

• class rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport

Namespaces

- rapp_speech_detection_sphinx4.greek_english_support
- 7.87 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/greek_support.py File Reference

Classes

class rapp_speech_detection_sphinx4.greek_support.GreekSupport
 Allows the creation of configuration files for Greek Sphinx speech recognition.

Namespaces

- · rapp speech detection sphinx4.greek support
- 7.88 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/language_support.py File Reference

Classes

• class rapp_speech_detection_sphinx4.language_support.LanguageSupport

Allows the creation of configuration files for Sphinx speech recognition.

Namespaces

- rapp_speech_detection_sphinx4.language_support
- 7.89 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/limited_vocabulary_creator.py File Reference

Classes

class rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator
 Creates temporary configuration files for the input limited vocabulary.

Namespaces

· rapp speech detection sphinx4.limited vocabulary creator

7.90 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/speech_recognition_sphinx4.py File Reference

Classes

class rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4
 Provides a complete Rapp Sphinx Entity.

Namespaces

· rapp speech detection sphinx4.speech recognition sphinx4

Variables

- tuple rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4Node =
 SpeechRecognitionSphinx4()
- 7.91 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/speech_recognition_sphinx4_handler_node.py File Reference

Classes

 class rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognition-Sphinx4HandlerNode

Maintains Sphinx instances to perform speech recognition.

Namespaces

• rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node

Variables

- tuple rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.rospack = rospkg.Ros-Pack()
- tuple rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognition-Sphinx4HandlerNode = SpeechRecognitionSphinx4HandlerNode()
- tuple rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.sphinx_class = rospack.get_path('rapp_speech_detection_sphinx4')

7.92 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/sphinx4_configuration_params.py File

Reference
7.92 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/sphinx4_configuration_params.py File Reference

Classes

• class rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams

Contains the parameters required for the Sphinx configuration.

Namespaces

- rapp_speech_detection_sphinx4.sphinx4_configuration_params
- 7.93 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/sphinx4_wrapper.py File Reference

Classes

• class rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper

Contains the Sphinx subprocess and is responsible for configuring Sphinx and performing the recognition request.

Namespaces

- rapp_speech_detection_sphinx4.sphinx4_wrapper
- 7.94 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/Sphinx4.java File Reference

Classes

class Sphinx4

Performs speech recognition employing Sphinx.

7.95 /home/travis/rapp_temp/rapp-platform/rapp_text_to_speech_espeak/src/text_to_speech_espeak.py File Reference

Classes

class text_to_speech_espeak.TextToSpeechEspeak

Namespaces

text_to_speech_espeak

Variables

tuple text_to_speech_espeak.text_to_speech_espeak_ros_node = TextToSpeechEspeak()

7.96 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_exceptions.py File Reference

Classes

class src.rapp_exceptions.RappError
 Provides a RAPP specific exception.

Namespaces

- src.rapp_exceptions
- 7.97 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_html_parser.py File Reference

Classes

class src.rapp_html_parser.RappHTMLParser
 Strips html from imput string.

Namespaces

- · src.rapp_html_parser
- 7.98 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_http_json_parser.py File Reference

Classes

class src.rapp_http_json_parser.RappHttpJSONParser
 Retrieves key:value pairs from JSON responses.

Namespaces

- src.rapp_http_json_parser
- 7.99 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_http_request_handler.py File Reference

Classes

class src.rapp_http_request_handler.RappHttpRequestHandler
 Performs http requests.

Namespaces

· src.rapp_http_request_handler

7.100 /home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/forecastio-_reporter.py File

Reference 7.100 /home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_- reporter/forecastio_reporter.py File Reference

Classes

class rapp_weather_reporter.forecastio_reporter.ForecastIOReporter
 ForecastIO weather reporter.

Namespaces

- rapp_weather_reporter.forecastio_reporter
- 7.101 /home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/seather_reporter_base.py File Reference

Classes

• class rapp_weather_reporter.weather_reporter_base.WeatherReporterBase

Base class for weather reporters.

Namespaces

- rapp_weather_reporter.weather_reporter_base
- 7.102 /home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/weather_reporter_factory.py File Reference

Classes

class rapp_weather_reporter.weather_reporter_factory.WeatherReporterFactory
 Creates and returns the class of the weather reporter requested.

Namespaces

- rapp_weather_reporter.weather_reporter_factory
- 7.103 /home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/weather_reporter_node.py File Reference

Classes

• class rapp_weather_reporter.weather_reporter_node.WeatherReporterNode Evaluates weather conditions.

Namespaces

• rapp_weather_reporter.weather_reporter_node

Variables

• tuple rapp_weather_reporter.weather_reporter_node.weather_reporter_node = WeatherReporterNode()

7.104 /home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/yweather_reporter.py File Reference

Classes

• class rapp_weather_reporter.yweather_reporter.YWeatherReporter Yweather weather reporter.

Namespaces

• rapp_weather_reporter.yweather_reporter

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