RAPP Platform

v0.5.5

Generated by Doxygen 1.8.6

Fri Jul 1 2016 18:18:31

Contents

1 Namespace Index **1**

1.1 Namespace List . . . 1

2 Hierarchical Index **3**

2.1 Class Hierarchy . . . 3

3 Class Index **5**

3.1 Class List . . . 5

4 File Index **9**

4.1 File List . . . 9

5 Namespace Documentation **13**

5.1 app_error_exception Namespace Reference . . . 13

5.2 caffe_wrapper Namespace Reference . . . 13

5.3 caffe_wrapper_main Namespace Reference . . . 13

5.3.1 Variable Documentation . . . 13

5.3.1.1 RappCaffeWrapperNode . . . 13

5.4 cognitive_exercise Namespace Reference . . . 13

5.5 cognitive_exercise_main Namespace Reference . . . 14

5.5.1 Variable Documentation . . . 14

5.5.1.1 CognitiveExerciseNode . . . 14

5.6 costmap_2d Namespace Reference . . . 14

5.7 crop_map Namespace Reference . . . 14

5.7.1 Function Documentation . . . 14

5.7.1.1 computed_cropped_origin . . . 14

5.7.1.2 find_bounds . . . 15

5.7.2 Variable Documentation . . . 15

5.7.2.1 bounds . . . 15

5.7.2.2 crop_image . . . 15

5.7.2.3 crop_name . . . 15

5.7.2.4 crop_yaml . . . 15

5.7.2.5 cropped_image . . . 15

5.7.2.6 map_data . . . 15
5.7.2.7 map_image . . . 15
5.7.2.8 map_image_file . . . 15
5.7.2.9 origin . . . 15
5.7.2.10 resolution . . . 15
5.8 helper_functions Namespace Reference . . . 16
5.9 image_classification Namespace Reference . . . 16
5.10 image_registration_to_ontology Namespace Reference . . . 16
5.11 map_server Namespace Reference . . . 16
5.11.1 Function Documentation . . . 16
5.11.1.1 loadMapFromFile . . . 16
5.12 mysql_wrapper Namespace Reference . . . 17
5.13 mysql_wrapper_main Namespace Reference . . . 17
5.13.1 Variable Documentation . . . 17
5.13.1.1 MySQLWrapperNode . . . 17
5.14 mysql_wrapper_old Namespace Reference . . . 17
5.15 ontology_class_bridge Namespace Reference . . . 17
5.16 rapp_application_authentication_manager Namespace Reference . . . 17
5.17 rapp_application_authentication_manager.application_authentication_node Namespace Reference 17
5.17.1 Variable Documentation . . . 18
5.17.1.1 application_authentication_ros_node . . . 18
5.18 rapp_application_authentication_manager.database_handler Namespace Reference . . . 18
5.19 rapp_audio_processing Namespace Reference . . . 18
5.20 rapp_audio_processing.rapp_audio_processing Namespace Reference . . . 18
5.20.1 Variable Documentation . . . 19
5.20.1.1 AudioProcessingNode . . . 19
5.21 rapp_audio_processing.rapp_detect_silence Namespace Reference . . . 19
5.22 rapp_audio_processing.rapp_energy_denoise Namespace Reference . . . 19
5.23 rapp_audio_processing.rapp_set_noise_profile Namespace Reference . . . 19
5.24 rapp_audio_processing.rapp_sox_denoise Namespace Reference . . . 19
5.25 rapp_audio_processing.rapp_transform_audio Namespace Reference . . . 19
5.26 rapp_audio_processing.rapp_utilities Namespace Reference . . . 19
5.27 rapp_email Namespace Reference . . . 20
5.28 rapp_email.email_node Namespace Reference . . . 20
5.28.1 Variable Documentation . . . 20
5.28.1.1 emailReceiver . . . 20
5.28.1.2 emailSender . . . 20
5.29 rapp_email.email_receiver Namespace Reference . . . 20
5.30 rapp_email.email_sender Namespace Reference . . . 20
5.31 rapp_geolocator Namespace Reference . . . 20

5.32 rapp_geolocator.geolocator_base Namespace Reference . . . 21
5.33 rapp_geolocator.geolocator_factory Namespace Reference . . . 21
5.34 rapp_geolocator.geolocator_node Namespace Reference . . . 21
5.34.1 Variable Documentation . . . 21
5.34.1.1 geolocator_node . . . 21
5.35 rapp_geolocator.ip_api_locator Namespace Reference . . . 21
5.36 rapp_news_explorer Namespace Reference . . . 21
5.37 rapp_news_explorer.engine_factory Namespace Reference . . . 22
5.38 rapp_news_explorer.event_registry_engine Namespace Reference . . . 22
5.39 rapp_news_explorer.google_news_engine Namespace Reference . . . 22
5.40 rapp_news_explorer.news_engine_base Namespace Reference . . . 22
5.41 rapp_news_explorer.news_explorer_node Namespace Reference . . . 22
5.41.1 Variable Documentation . . . 22
5.41.1.1 news_explorer_node . . . 22
5.42 rapp_speech_detection_sphinx4 Namespace Reference . . . 23
5.43 rapp_speech_detection_sphinx4.english_support Namespace Reference . . . 23
5.44 rapp_speech_detection_sphinx4.global_parameters Namespace Reference . . . 23
5.45 rapp_speech_detection_sphinx4.greek_english_support Namespace Reference . . . 23
5.46 rapp_speech_detection_sphinx4.greek_support Namespace Reference . . . 23
5.47 rapp_speech_detection_sphinx4.language_support Namespace Reference . . . 23
5.48 rapp_speech_detection_sphinx4.limited_vocabulary_creator Namespace Reference . . . 24
5.49 rapp_speech_detection_sphinx4.speech_recognition_sphinx4 Namespace Reference . . . 24
5.49.1 Variable Documentation . . . 24
5.49.1.1 SpeechRecognitionSphinx4Node . . . 24
5.50 rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node Namespace Reference 24
5.50.1 Variable Documentation . . . 24
5.50.1.1 rospack . . . 24
5.50.1.2 SpeechRecognitionSphinx4HandlerNode . . . 25
5.50.1.3 sphinx_class . . . 25
5.51 rapp_speech_detection_sphinx4.sphinx4_configuration_params Namespace Reference . . . 25
5.52 rapp_speech_detection_sphinx4.sphinx4_wrapper Namespace Reference . . . 25
5.53 rapp_weather_reporter Namespace Reference . . . 25
5.54 rapp_weather_reporter.forecastio_reporter Namespace Reference . . . 25
5.55 rapp_weather_reporter.weather_reporter_base Namespace Reference . . . 25
5.56 rapp_weather_reporter.weather_reporter_factory Namespace Reference . . . 26
5.57 rapp_weather_reporter.weather_reporter_node Namespace Reference . . . 26
5.57.1 Variable Documentation . . . 26
5.57.1.1 weather_reporter_node . . . 26
5.58 rapp_weather_reporter.yweather_reporter Namespace Reference . . . 26
5.59 speech_recognition_google Namespace Reference . . . 26

5.59.1 Variable Documentation . . . 27
5.59.1.1 speech_to_text_node . . . 27
5.60 src Namespace Reference . . . 27
5.61 src.rapp_exceptions Namespace Reference . . . 27
5.62 src.rapp_html_parser Namespace Reference . . . 27
5.63 src.rapp_http_json_parser Namespace Reference . . . 27
5.64 src.rapp_http_request_handler Namespace Reference . . . 27
5.65 src.rapp_utilities Namespace Reference . . . 28
5.66 text_to_speech_espeak Namespace Reference . . . 28
5.66.1 Variable Documentation . . . 28
5.66.1.1 text_to_speech_espeak_ros_node . . . 28
5.67 userScoreHistoryForAllCategories Namespace Reference . . . 28
5.68 userScoresForAllCategories Namespace Reference . . . 28

6 Class Documentation **29**

6.1 app_error_exception.AppError Class Reference . . . 29
6.1.1 Detailed Description . . . 30
6.1.2 Constructor & Destructor Documentation . . . 30
6.1.2.1 __init__ . . . 30
6.1.2.2 __init__ . . . 30
6.1.3 Member Function Documentation . . . 30
6.1.3.1 passErrorToRosSrv . . . 30
6.1.3.2 passErrorToRosSrv . . . 30
6.1.4 Member Data Documentation . . . 31
6.1.4.1 args . . . 31
6.2 rapp_application_authentication_manager.application_authentication_node.ApplicationAuthentication-Manager Class Reference . . . 31
6.2.1 Detailed Description . . . 32
6.2.2 Constructor & Destructor Documentation . . . 32
6.2.2.1 __init__ . . . 32
6.2.3 Member Function Documentation . . . 32
6.2.3.1 _add_new_user_to_db . . . 32
6.2.3.2 _validate_username_format . . . 32
6.2.3.3 _verify_new_username_uniqueness . . . 32
6.2.3.4 _verify_user_credentials . . . 33
6.2.3.5 add_new_user_from_platform_callback . . . 33
6.2.3.6 add_new_user_from_store_callback . . . 33
6.2.3.7 authenticate_token_callback . . . 34
6.2.3.8 login_callback . . . 34
6.2.3.9 login_from_store_callback . . . 34

6.2.4 Member Data Documentation . . . 35
6.2.4.1 _db_handler . . . 35
6.3 rapp_audio_processing.rapp_audio_processing.AudioProcessing Class Reference . . . 35
6.3.1 Detailed Description . . . 36
6.3.2 Constructor & Destructor Documentation . . . 36
6.3.2.1 __init__ . . . 36
6.3.3 Member Function Documentation . . . 36
6.3.3.1 denoiseCallback . . . 36
6.3.3.2 detectSilenceCallback . . . 36
6.3.3.3 energyDenoiseCallback . . . 36
6.3.3.4 setNoiseProfileCallback . . . 37
6.3.3.5 transformAudioCallback . . . 37
6.3.4 Member Data Documentation . . . 37
6.3.4.1 _detect_silence_module . . . 37
6.3.4.2 _energy_denoise_module . . . 37
6.3.4.3 _energy_denoising_debug . . . 38
6.3.4.4 _set_noise_profile_module . . . 38
6.3.4.5 _sox_denoise_module . . . 38
6.3.4.6 _transform_audio_module . . . 38
6.3.4.7 _utilities_module . . . 38
6.4 cognitive_exercise.CognitiveExercise Class Reference . . . 38
6.4.1 Detailed Description . . . 39
6.4.2 Constructor & Destructor Documentation . . . 39
6.4.2.1 __init__ . . . 39
6.4.3 Member Function Documentation . . . 39
6.4.3.1 chooserDataHandler . . . 39
6.4.3.2 cognitiveTestCreatorDataHandler . . . 39
6.4.3.3 recordUserCognitiveTestPerformanceDataHandler . . . 39
6.4.3.4 returnTestsOfTypeSubtypeDifficultyDataHandler . . . 40
6.4.3.5 userScoreHistoryForAllCategoriesDataHandler . . . 40
6.4.3.6 userScoresForAllCategoriesDataHandler . . . 40
6.4.4 Member Data Documentation . . . 41
6.4.4.1 serv . . . 41
6.4.4.2 serv_topic . . . 41
6.5 helper_functions.CognitiveExerciseHelperFunctions Class Reference . . . 41
6.5.1 Detailed Description . . . 41
6.5.2 Member Function Documentation . . . 41
6.5.2.1 determineTestTypeListForReturningScoresOrHistory . . . 41
6.5.2.2 filterTestsbyDifficultyAndSubtype . . . 42
6.5.2.3 getCognitiveTestsOfType . . . 42

6.5.2.4 getTestLanguagesFromOntology . . . 42
6.5.2.5 getTestTypesFromOntology . . . 43
6.5.2.6 getUserLanguage . . . 43
6.5.2.7 getUserOntologyAlias . . . 43
6.5.2.8 getUserPerformanceRecordsForTestType . . . 43
6.5.2.9 organizeUserPerformanceByTimestamp . . . 44
6.6 rapp_application_authentication_manager.database_handler.DatabaseHandler Class Reference . . . 44
6.6.1 Detailed Description . . . 46
6.6.2 Constructor & Destructor Documentation . . . 46
6.6.2.1 __init__ . . . 46
6.6.3 Member Function Documentation . . . 46
6.6.3.1 add_new_user . . . 46
6.6.3.2 add_store_token_to_device . . . 47
6.6.3.3 get_token_user . . . 48
6.6.3.4 get_user_password . . . 48
6.6.3.5 username_exists . . . 48
6.6.3.6 validate_user_role . . . 48
6.6.3.7 verify_active_application_token . . . 49
6.6.3.8 verify_active_robot_session . . . 49
6.6.3.9 verify_platform_device_token . . . 49
6.6.3.10 verify_store_device_token . . . 49
6.6.3.11 write_new_application_token . . . 50
6.6.4 Member Data Documentation . . . 50
6.6.4.1 _add_new_user_proxy . . . 50
6.6.4.2 _add_store_token_to_device_proxy . . . 50
6.6.4.3 _create_new_app_token_proxy . . . 50
6.6.4.4 _get_token_user_proxy . . . 50
6.6.4.5 _get_user_passwd_proxy . . . 51
6.6.4.6 _username_exists_proxy . . . 51
6.6.4.7 _validate_existing_device_token_proxy . . . 51
6.6.4.8 _validate_user_role_proxy . . . 51
6.6.4.9 _verify_appl_token_proxy . . . 51
6.6.4.10 _verify_robot_session_proxy . . . 51
6.7 rapp_audio_processing.rapp_detect_silence.DetectSilence Class Reference . . . 52
6.7.1 Detailed Description . . . 52
6.7.2 Member Function Documentation . . . 52
6.7.2.1 detectSilence . . . 52
6.8 rapp_email.email_receiver.EmailReceiver Class Reference . . . 52
6.8.1 Detailed Description . . . 54
6.8.2 Constructor & Destructor Documentation . . . 54

6.8.2.1 __init__ . . . 54
6.8.3 Member Function Documentation . . . 54
6.8.3.1 _connectImap . . . 54
6.8.3.2 _fetchEmail . . . 54
6.8.3.3 _initializePath . . . 54
6.8.3.4 _selectEmails . . . 55
6.8.3.5 receiveEmailSrvCallback . . . 55
6.9 rapp_email.email_sender.EmailSender Class Reference . . . 55
6.9.1 Detailed Description . . . 56
6.9.2 Constructor & Destructor Documentation . . . 56
6.9.2.1 __init__ . . . 56
6.9.3 Member Function Documentation . . . 56
6.9.3.1 _connectAndSend . . . 56
6.9.3.2 _createEmailBody . . . 57
6.9.3.3 _handleAttachment . . . 57
6.9.3.4 sendEmailSrvCallback . . . 57
6.10 rapp_audio_processing.rapp_energy_denoise.EnergyDenoise Class Reference . . . 58
6.10.1 Detailed Description . . . 58
6.10.2 Member Function Documentation . . . 58
6.10.2.1 energyDenoise . . . 58
6.11 rapp_news_explorer.engine_factory.EngineFactory Class Reference . . . 58
6.11.1 Detailed Description . . . 59
6.11.2 Member Function Documentation . . . 59
6.11.2.1 select_news_engine . . . 59
6.12 rapp_speech_detection_sphinx4.english_support.EnglishSupport Class Reference . . . 60
6.12.1 Detailed Description . . . 61
6.12.2 Constructor & Destructor Documentation . . . 61
6.12.2.1 __init__ . . . 61
6.12.3 Member Function Documentation . . . 62
6.12.3.1 getLimitedVocebularyConfiguration . . . 62
6.12.3.2 getWordPhonemes . . . 62
6.12.4 Member Data Documentation . . . 62
6.12.4.1 _english_dict_file . . . 62
6.12.4.2 _english_dict_mapping . . . 62
6.13 rapp_news_explorer.event_registry_engine.EventRegistryEngine Class Reference . . . 62
6.13.1 Detailed Description . . . 64
6.13.2 Constructor & Destructor Documentation . . . 64
6.13.2.1 __init__ . . . 64
6.13.3 Member Function Documentation . . . 64
6.13.3.1 fetch_news . . . 64

6.13.4 Member Data Documentation . . . 64
6.13.4.1 _event_handler . . . 64
6.13.4.2 _max_requests . . . 64
6.13.4.3 _max_stories . . . 64
6.13.4.4 _password . . . 65
6.13.4.5 _username . . . 65
6.14 FaceDetection Class Reference . . . 65
6.14.1 Detailed Description . . . 66
6.14.2 Constructor & Destructor Documentation . . . 66
6.14.2.1 FaceDetection . . . 66
6.14.3 Member Function Documentation . . . 66
6.14.3.1 faceDetectionCallback . . . 66
6.14.4 Member Data Documentation . . . 66
6.14.4.1 face_detector_ . . . 66
6.14.4.2 faceDetectionService_ . . . 66
6.14.4.3 faceDetectionTopic_ . . . 66
6.14.4.4 nh_ . . . 67
6.15 FaceDetector Class Reference . . . 67
6.15.1 Detailed Description . . . 67
6.15.2 Constructor & Destructor Documentation . . . 67
6.15.2.1 FaceDetector . . . 67
6.15.3 Member Function Documentation . . . 68
6.15.3.1 detectFaces . . . 68
6.15.3.2 detectFaces . . . 69
6.15.3.3 findFaces . . . 69
6.15.3.4 identifyUniqueFaces . . . 69
6.15.3.5 loadImage . . . 70
6.16 rapp_weather_reporter.forecastio_reporter.ForecastIOReporter Class Reference . . . 71
6.16.1 Detailed Description . . . 72
6.16.2 Constructor & Destructor Documentation . . . 73
6.16.2.1 __init__ . . . 73
6.16.3 Member Function Documentation . . . 73
6.16.3.1 _get_fio_object . . . 73
6.16.3.2 _handle_current_weather_report . . . 73
6.16.3.3 _handle_weather_forecast_report . . . 73
6.16.3.4 fetch_current_weather . . . 73
6.16.3.5 fetch_weather_forecast . . . 74
6.16.4 Member Data Documentation . . . 74
6.16.4.1 _api_key . . . 74
6.17 rapp_geolocator.geolocator_base.GeolocatorBase Class Reference . . . 74

6.17.1 Detailed Description . . . 75
6.17.2 Constructor & Destructor Documentation . . . 76
6.17.2.1 __init__ . . . 76
6.17.3 Member Function Documentation . . . 76
6.17.3.1 fetch_geolocation . . . 76
6.17.4 Member Data Documentation . . . 76
6.17.4.1 __metaclass__ . . . 76
6.17.4.2 _accepted_status . . . 76
6.17.4.3 _http_request . . . 76
6.17.4.4 _url . . . 76
6.17.4.5 rapp_http_json_parser . . . 76
6.18 rapp_geolocator.geolocator_factory.GeolocatorFactory Class Reference . . . 77
6.18.1 Detailed Description . . . 77
6.18.2 Member Function Documentation . . . 77
6.18.2.1 select_geolocator . . . 77
6.19 rapp_geolocator.geolocator_node.GeolocatorNode Class Reference . . . 78
6.19.1 Detailed Description . . . 79
6.19.2 Constructor & Destructor Documentation . . . 79
6.19.2.1 __init__ . . . 79
6.19.3 Member Function Documentation . . . 79
6.19.3.1 _create_service_response . . . 79
6.19.3.2 fetch_location_srv_callback . . . 79
6.19.4 Member Data Documentation . . . 80
6.19.4.1 _geolocator_factory . . . 80
6.20 rapp_speech_detection_sphinx4.global_parameters.GlobalParams Class Reference . . . 80
6.20.1 Detailed Description . . . 81
6.20.2 Constructor & Destructor Documentation . . . 81
6.20.2.1 __init__ . . . 81
6.20.3 Member Data Documentation . . . 81
6.20.3.1 _acoustic_models_url . . . 81
6.20.3.2 _allow_sphinx_output . . . 81
6.20.3.3 _language_models_url . . . 81
6.20.3.4 _noise_profiles_url . . . 81
6.20.3.5 _socket_host . . . 81
6.20.3.6 _sphinx_jar_file . . . 81
6.20.3.7 _sphinx_jar_files_url . . . 82
6.20.3.8 _sphinx_package_url . . . 82
6.20.3.9 _sphinx_preconf . . . 82
6.20.3.10 _tmp_language_models_url . . . 82
6.20.3.11 rospack . . . 82

6.21 rapp_news_explorer.google_news_engine.GoogleNewsEngine Class Reference . . . 82
6.21.1 Detailed Description . . . 84
6.21.2 Constructor & Destructor Documentation . . . 84
6.21.2.1 __init__ . . . 84
6.21.3 Member Function Documentation . . . 84
6.21.3.1 _handle_params . . . 84
6.21.3.2 _handle_server_response . . . 84
6.21.3.3 fetch_news . . . 85
6.21.4 Member Data Documentation . . . 85
6.21.4.1 _max_requests . . . 85
6.21.4.2 _max_stories . . . 85
6.21.4.3 _params . . . 85
6.21.4.4 _url . . . 85
6.22 rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport Class Reference . . . 86
6.22.1 Detailed Description . . . 86
6.22.2 Constructor & Destructor Documentation . . . 86
6.22.2.1 __init__ . . . 86
6.22.3 Member Function Documentation . . . 87
6.22.3.1 _separateEngGrWords . . . 87
6.22.3.2 getLimitedVocebularyConfiguration . . . 88
6.23 GreekSupport Class Reference . . . 88
6.23.1 Detailed Description . . . 88
6.24 rapp_speech_detection_sphinx4.greek_support.GreekSupport Class Reference . . . 89
6.24.1 Detailed Description . . . 91
6.24.2 Constructor & Destructor Documentation . . . 91
6.24.2.1 __init__ . . . 91
6.24.3 Member Function Documentation . . . 91
6.24.3.1 _configureLetters . . . 91
6.24.3.2 _englify_words . . . 91
6.24.3.3 _transformWords . . . 91
6.24.3.4 getLimitedVocebularyConfiguration . . . 92
6.24.4 Member Data Documentation . . . 93
6.24.4.1 _all_special_two_digit_letters . . . 93
6.24.4.2 _capital_letters . . . 93
6.24.4.3 _english_support . . . 93
6.24.4.4 _letters . . . 93
6.24.4.5 _literal_letters . . . 93
6.24.4.6 _phonemes . . . 93
6.24.4.7 _s_specific_rules . . . 93
6.24.4.8 _special_two_digit_letters . . . 94

6.24.4.9 _two_digit_letters . . . 94
6.25 HumanDetection Class Reference . . . 94
6.25.1 Detailed Description . . . 95
6.25.2 Constructor & Destructor Documentation . . . 95
6.25.2.1 HumanDetection . . . 95
6.25.3 Member Function Documentation . . . 95
6.25.3.1 humanDetectionCallback . . . 95
6.25.4 Member Data Documentation . . . 95
6.25.4.1 human_detector_ . . . 95
6.25.4.2 humanDetectionService_ . . . 95
6.25.4.3 humanDetectionTopic_ . . . 95
6.25.4.4 nh_ . . . 96
6.26 HumanDetector Class Reference . . . 96
6.26.1 Detailed Description . . . 96
6.26.2 Constructor & Destructor Documentation . . . 96
6.26.2.1 HumanDetector . . . 96
6.26.3 Member Function Documentation . . . 97
6.26.3.1 detectHuman2D . . . 97
6.26.3.2 detectHuman2D . . . 98
6.26.3.3 findHuman2D . . . 98
6.26.3.4 identifyUniqueHumans . . . 98
6.26.3.5 loadImage . . . 98
6.27 image_classification.ImageClassification Class Reference . . . 99
6.27.1 Detailed Description . . . 99
6.27.2 Constructor & Destructor Documentation . . . 99
6.27.2.1 __init__ . . . 99
6.27.3 Member Function Documentation . . . 100
6.27.3.1 classifyImage . . . 100
6.27.3.2 getImageClass . . . 101
6.27.3.3 getOntologyClass . . . 101
6.27.3.4 registerToOntology . . . 101
6.27.4 Member Data Documentation . . . 102
6.27.4.1 caffe_root . . . 102
6.27.4.2 labels . . . 102
6.27.4.3 net . . . 102
6.27.4.4 transformer . . . 102
6.28 image_registration_to_ontology.ImageRegistrationToOntology Class Reference . . . 102
6.28.1 Detailed Description . . . 103
6.28.2 Member Function Documentation . . . 103
6.28.2.1 getUserOntologyAlias . . . 103

6.28.2.2 registerImage . . . 103
6.28.2.3 registerImageToOntology . . . 103
6.29 rapp_geolocator.ip_api_locator.IpAPILocator Class Reference . . . 104
6.29.1 Detailed Description . . . 105
6.29.2 Constructor & Destructor Documentation . . . 105
6.29.2.1 __init__ . . . 105
6.29.3 Member Function Documentation . . . 106
6.29.3.1 _handle_server_response . . . 106
6.29.3.2 fetch_geolocation . . . 106
6.29.4 Member Data Documentation . . . 106
6.29.4.1 _url . . . 106
6.30 IPLocatorFactory Class Reference . . . 106
6.30.1 Detailed Description . . . 106
6.31 KnowrobWrapper Class Reference . . . 107
6.31.1 Detailed Description . . . 108
6.31.2 Constructor & Destructor Documentation . . . 108
6.31.2.1 KnowrobWrapper . . . 108
6.31.3 Member Function Documentation . . . 108
6.31.3.1 assertAttributeValue . . . 108
6.31.3.2 clear_user_cognitive_tests_performance_records . . . 109
6.31.3.3 cognitive_tests_of_type . . . 110
6.31.3.4 create_cognitve_tests . . . 110
6.31.3.5 create_ontology_alias . . . 111
6.31.3.6 create_ontology_alias_for_new_user . . . 111
6.31.3.7 createInstanceQuery . . . 112
6.31.3.8 dump_ontology_now . . . 112
6.31.3.9 dumpOntologyQuery . . . 112
6.31.3.10 get_ontology_alias . . . 113
6.31.3.11 isSubSuperclassOfQuery . . . 113
6.31.3.12 loadOntologyQuery . . . 114
6.31.3.13 record_user_cognitive_tests_performance . . . 114
6.31.3.14 register_image_object_to_ontology . . . 115
6.31.3.15 retract_user_ontology_alias . . . 115
6.31.3.16 subclassesOfQuery . . . 115
6.31.3.17 superclassesOfQuery . . . 116
6.31.3.18 user_instances_of_class . . . 117
6.31.3.19 user_performance_cognitve_tests . . . 118
6.31.4 Member Data Documentation . . . 119
6.31.4.1 mysql_get_user_ontology_alias_client . . . 119
6.31.4.2 mysql_register_user_ontology_alias_client . . . 119

6.31.4.3 nh_ . . . 119
6.31.4.4 pl . . . 119
6.32 KnowrobWrapperCommunications Class Reference . . . 119
6.32.1 Detailed Description . . . 121
6.32.2 Constructor & Destructor Documentation . . . 121
6.32.2.1 KnowrobWrapperCommunications . . . 121
6.32.3 Member Function Documentation . . . 122
6.32.3.1 clear_user_cognitive_tests_performance_records_callback . . . 122
6.32.3.2 cognitive_tests_of_type_callback . . . 123
6.32.3.3 create_cognitve_tests_callback . . . 123
6.32.3.4 create_ontology_alias_callback . . . 123
6.32.3.5 createInstanceCallback . . . 124
6.32.3.6 dumpOntologyCallback . . . 124
6.32.3.7 isSubSuperclassOfCallback . . . 124
6.32.3.8 loadOntologyCallback . . . 125
6.32.3.9 record_user_cognitive_tests_performance_callback . . . 125
6.32.3.10 register_image_object_to_ontology_callback . . . 125
6.32.3.11 retract_user_ontology_alias_callback . . . 126
6.32.3.12 subclassesOfCallback . . . 126
6.32.3.13 superclassesOfCallback . . . 126
6.32.3.14 user_instances_of_class_callback . . . 127
6.32.3.15 user_performance_cognitve_tests_callback . . . 127
6.32.4 Member Data Documentation . . . 127
6.32.4.1 clear_user_cognitive_tests_performance_records_service_ . . . 127
6.32.4.2 clear_user_cognitive_tests_performance_records_topic_ . . . 128
6.32.4.3 cognitive_tests_of_type_service_ . . . 128
6.32.4.4 cognitive_tests_of_type_topic_ . . . 128
6.32.4.5 create_cognitve_tests_service_ . . . 128
6.32.4.6 create_cognitve_tests_topic_ . . . 128
6.32.4.7 create_ontology_alias_service_ . . . 128
6.32.4.8 create_ontology_alias_topic_ . . . 128
6.32.4.9 createInstanceService_ . . . 128
6.32.4.10 createInstanceServiceTopic_ . . . 128
6.32.4.11 dumpOntologyService_ . . . 129
6.32.4.12 dumpOntologyServiceTopic_ . . . 129
6.32.4.13 is_subsuperclass_of_service_ . . . 129
6.32.4.14 is_subsuperclass_of_service_topic_ . . . 129
6.32.4.15 knowrob_wrapper . . . 129
6.32.4.16 loadOntologyService_ . . . 129
6.32.4.17 loadOntologyServiceTopic_ . . . 129

6.32.4.18 nh_ . . . 129
6.32.4.19 record_user_cognitive_tests_performance_service_ . . . 129
6.32.4.20 record_user_cognitive_tests_performance_topic_ . . . 130
6.32.4.21 register_image_object_to_ontology_service_ . . . 130
6.32.4.22 register_image_object_to_ontology_topic_ . . . 130
6.32.4.23 retract_user_ontology_alias_service_ . . . 130
6.32.4.24 retract_user_ontology_alias_topic_ . . . 130
6.32.4.25 subclasses_of_service_ . . . 130
6.32.4.26 subclasses_of_service_topic_ . . . 130
6.32.4.27 superclasses_of_service_ . . . 130
6.32.4.28 superclasses_of_service_topic_ . . . 130
6.32.4.29 user_instances_of_class_service_ . . . 131
6.32.4.30 user_instances_of_class_topic_ . . . 131
6.32.4.31 user_performance_cognitve_tests_service_ . . . 131
6.32.4.32 user_performance_cognitve_tests_topic_ . . . 131
6.33 rapp_speech_detection_sphinx4.language_support.LanguageSupport Class Reference . . . 131
6.33.1 Detailed Description . . . 132
6.33.2 Constructor & Destructor Documentation . . . 132
6.33.2.1 __init__ . . . 132
6.33.3 Member Function Documentation . . . 133
6.33.3.1 getGenericConfiguration . . . 133
6.33.3.2 getLimitedVocebularyConfiguration . . . 133
6.33.4 Member Data Documentation . . . 133
6.33.4.1 _generic_sphinx_configuration . . . 133
6.33.4.2 _globalParams . . . 133
6.33.4.3 _vocabulary . . . 133
6.34 rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator Class Reference . . . 134
6.34.1 Detailed Description . . . 134
6.34.2 Constructor & Destructor Documentation . . . 134
6.34.2.1 __init__ . . . 134
6.34.3 Member Function Documentation . . . 134
6.34.3.1 createConfigurationFiles . . . 134
6.34.4 Member Data Documentation . . . 135
6.34.4.1 _globalParams . . . 135
6.34.4.2 _languages_package . . . 135
6.34.4.3 _sphinx_configuration . . . 135
6.35 MapGenerator Class Reference . . . 135
6.35.1 Detailed Description . . . 136
6.35.2 Constructor & Destructor Documentation . . . 136

6.35.2.1 MapGenerator . . . 136
6.35.3 Member Function Documentation . . . 136
6.35.3.1 mapCallback . . . 136
6.35.4 Member Data Documentation . . . 136
6.35.4.1 map_sub_ . . . 136
6.35.4.2 mapname_ . . . 136
6.35.4.3 saved_map_ . . . 136
6.36 MapServer Class Reference . . . 136
6.36.1 Detailed Description . . . 137
6.36.2 Constructor & Destructor Documentation . . . 137
6.36.2.1 MapServer . . . 137
6.36.3 Member Function Documentation . . . 137
6.36.3.1 mapCallback . . . 137
6.36.3.2 mapUploadCallback . . . 137
6.36.3.3 updateMap . . . 137
6.36.4 Member Data Documentation . . . 137
6.36.4.1 deprecated . . . 137
6.36.4.2 fname . . . 138
6.36.4.3 get_service . . . 138
6.36.4.4 homedir . . . 138
6.36.4.5 map_pub . . . 138
6.36.4.6 map_resp_ . . . 138
6.36.4.7 meta_data_message_ . . . 138
6.36.4.8 metadata_pub . . . 138
6.36.4.9 n . . . 138
6.36.4.10 test_service . . . 138
6.36.4.11 upload_map_trigger . . . 138
6.36.4.12 upload_map_trigger_name . . . 138
6.36.4.13 upload_service . . . 139
6.37 mysql_wrapper_old.MySQLdbWrapper Class Reference . . . 139
6.37.1 Detailed Description . . . 141
6.37.2 Constructor & Destructor Documentation . . . 141
6.37.2.1 __init__ . . . 141
6.37.3 Member Function Documentation . . . 141
6.37.3.1 authTokenByService . . . 141
6.37.3.2 authTokenByServiceDataHandler . . . 141
6.37.3.3 checkConnection . . . 142
6.37.3.4 constructAndQuery . . . 142
6.37.3.5 constructCommaColumns . . . 142
6.37.3.6 deleteData . . . 142

6.37.3.7 fetchData . . . 142
6.37.3.8 getLogin . . . 143
6.37.3.9 getTableColumnNames . . . 143
6.37.3.10 tblAppsRobotsDeleteDataHandler . . . 143
6.37.3.11 tblAppsRobotsFetchDataHandler . . . 143
6.37.3.12 tblAppsRobotsUpdateDataHandler . . . 143
6.37.3.13 tblAppsRobotsWriteDataHandler . . . 144
6.37.3.14 tblCloudAgentDeleteDataHandler . . . 144
6.37.3.15 tblCloudAgentFetchDataHandler . . . 144
6.37.3.16 tblCloudAgentServiceArgumentsDeleteDataHandler . . . 144
6.37.3.17 tblCloudAgentServiceArgumentsFetchDataHandler . . . 145
6.37.3.18 tblCloudAgentServiceArgumentsUpdateDataHandler . . . 145
6.37.3.19 tblCloudAgentServiceArgumentsWriteDataHandler . . . 145
6.37.3.20 tblCloudAgentServiceDeleteDataHandler . . . 145
6.37.3.21 tblCloudAgentServiceFetchDataHandler . . . 145
6.37.3.22 tblCloudAgentServiceUpdateDataHandler . . . 146
6.37.3.23 tblCloudAgentServiceWriteDataHandler . . . 146
6.37.3.24 tblCloudAgentUpdateDataHandler . . . 146
6.37.3.25 tblCloudAgentWriteDataHandler . . . 146
6.37.3.26 tblModelDeleteDataHandler . . . 147
6.37.3.27 tblModelFetchDataHandler . . . 147
6.37.3.28 tblModelUpdateDataHandler . . . 147
6.37.3.29 tblModelWriteDataHandler . . . 147
6.37.3.30 tblRappDeleteDataHandler . . . 147
6.37.3.31 tblRappFetchDataHandler . . . 148
6.37.3.32 tblRappUpdateDataHandler . . . 148
6.37.3.33 tblRappWriteDataHandler . . . 148
6.37.3.34 tblRobotDeleteDataHandler . . . 148
6.37.3.35 tblRobotFetchDataHandler . . . 149
6.37.3.36 tblRobotUpdateDataHandler . . . 149
6.37.3.37 tblRobotWriteDataHandler . . . 149
6.37.3.38 tblUserDeleteDataHandler . . . 149
6.37.3.39 tblUserFetchDataHandler . . . 149
6.37.3.40 tblUsersOntologyInstancesDeleteDataHandler . . . 150
6.37.3.41 tblUsersOntologyInstancesFetchDataHandler . . . 150
6.37.3.42 tblUsersOntologyInstancesUpdateDataHandler . . . 150
6.37.3.43 tblUsersOntologyInstancesWriteDataHandler . . . 150
6.37.3.44 tblUserUpdateDataHandler . . . 151
6.37.3.45 tblUserWriteDataHandler . . . 151
6.37.3.46 updateData . . . 151

6.37.3.47 viewUsersRobotsAppsFetchDataHandler . . . 151
6.37.3.48 whatRappsCanRun . . . 151
6.37.3.49 whatRappsCanRunDataHandler . . . 152
6.37.3.50 writeData . . . 152
6.37.4 Member Data Documentation . . . 152
6.37.4.1 serv . . . 152
6.37.4.2 serv_topic . . . 152
6.38 mysql_wrapper.MySQLdbWrapper Class Reference . . . 152
6.38.1 Detailed Description . . . 154
6.38.2 Constructor & Destructor Documentation . . . 154
6.38.2.1 __init__ . . . 154
6.38.3 Member Function Documentation . . . 155
6.38.3.1 addStoreTokenToDevice . . . 155
6.38.3.2 addStoreTokenToDeviceDataHandler . . . 156
6.38.3.3 checkActiveApplicationToken . . . 156
6.38.3.4 checkActiveApplicationTokenDataHandler . . . 156
6.38.3.5 checkActiveRobotSession . . . 157
6.38.3.6 checkActiveRobotSessionDataHandler . . . 157
6.38.3.7 checkConnection . . . 157
6.38.3.8 checkIfUserExists . . . 158
6.38.3.9 checkIfUserExistsDataHandler . . . 159
6.38.3.10 createNewApplicationToken . . . 159
6.38.3.11 createNewApplicationTokenDataHandler . . . 159
6.38.3.12 createNewCloudAgent . . . 160
6.38.3.13 createNewCloudAgentDataHandler . . . 160
6.38.3.14 createNewCloudAgentService . . . 160
6.38.3.15 createNewCloudAgentServiceDataHandler . . . 161
6.38.3.16 createNewPlatformUser . . . 161
6.38.3.17 createNewPlatformUserDataHandler . . . 161
6.38.3.18 getCloudAgentServiceTypeAndHostPort . . . 162
6.38.3.19 getCloudAgentServiceTypeAndHostPortDataHandler . . . 162
6.38.3.20 getLogin . . . 162
6.38.3.21 getTableColumnNames . . . 163
6.38.3.22 getUserLanguage . . . 164
6.38.3.23 getUserLanguageDataHandler . . . 164
6.38.3.24 getUsernameAssociatedWithApplicationToken . . . 164
6.38.3.25 getUsernameAssociatedWithApplicationTokenDataHandler . . . 165
6.38.3.26 getUserOntologyAlias . . . 165
6.38.3.27 getUserOntologyAliasDataHandler . . . 165
6.38.3.28 getUserPassword . . . 166

6.38.3.29 getUserPasswordDataHandler . . . 166
6.38.3.30 registerNewTokenDataHandler . . . 166
6.38.3.31 registerUserOntologyAlias . . . 166
6.38.3.32 registerUserOntologyAliasDataHandler . . . 167
6.38.3.33 removePlatformUser . . . 167
6.38.3.34 removePlatformUserDataHandler . . . 167
6.38.3.35 validateExistingPlatformDeviceToken . . . 168
6.38.3.36 validateExistingPlatformDeviceTokenDataHandler . . . 168
6.38.3.37 validateUserRole . . . 168
6.38.3.38 validateUserRoleDataHandler . . . 169
6.38.4 Member Data Documentation . . . 169
6.38.4.1 serv . . . 169
6.38.4.2 serv_topic . . . 169
6.39 rapp_news_explorer.news_engine_base.NewsEngineBase Class Reference . . . 169
6.39.1 Detailed Description . . . 171
6.39.2 Constructor & Destructor Documentation . . . 171
6.39.2.1 __init__ . . . 171
6.39.3 Member Function Documentation . . . 171
6.39.3.1 fetch_news . . . 171
6.39.4 Member Data Documentation . . . 171
6.39.4.1 __metaclass__ . . . 171
6.39.4.2 _accepted_status . . . 171
6.39.4.3 _http_request . . . 171
6.39.4.4 _url . . . 171
6.39.4.5 rapp_http_json_parser . . . 172
6.40 rapp_news_explorer.news_explorer_node.NewsExplorerNode Class Reference . . . 172
6.40.1 Detailed Description . . . 173
6.40.2 Constructor & Destructor Documentation . . . 173
6.40.2.1 __init__ . . . 173
6.40.3 Member Function Documentation . . . 173
6.40.3.1 _create_service_response . . . 173
6.40.3.2 fetch_news_srv_callback . . . 173
6.40.4 Member Data Documentation . . . 174
6.40.4.1 _engine_factory . . . 174
6.41 ontology_class_bridge.OntologyClassBridge Class Reference . . . 174
6.41.1 Detailed Description . . . 174
6.41.2 Member Function Documentation . . . 174
6.41.2.1 getOntologyClassEquivalent . . . 174
6.41.2.2 loadMappingIntoDictionary . . . 174
6.42 PathPlanner Class Reference . . . 175

6.42.1 Detailed Description . . . 175
6.42.2 Constructor & Destructor Documentation . . . 175
6.42.2.1 PathPlanner . . . 175
6.42.3 Member Function Documentation . . . 175
6.42.3.1 configureSequence . . . 175
6.42.3.2 setSequenceNR . . . 176
6.42.3.3 startSequence . . . 176
6.43 PathPlanning Class Reference . . . 177
6.43.1 Detailed Description . . . 177
6.43.2 Constructor & Destructor Documentation . . . 178
6.43.2.1 PathPlanning . . . 178
6.43.2.2 ∼PathPlanning . . . 178
6.43.3 Member Function Documentation . . . 178
6.43.3.1 pathPlanningCallback . . . 178
6.43.3.2 uploadMapCallback . . . 178
6.43.4 Member Data Documentation . . . 178
6.43.4.1 GP_pIDs . . . 178
6.43.4.2 homedir . . . 179
6.43.4.3 MS_pIDs . . . 179
6.43.4.4 new_path . . . 179
6.43.4.5 nh_ . . . 179
6.43.4.6 path_planner_ . . . 179
6.43.4.7 pathPlanningService_ . . . 179
6.43.4.8 pathPlanningThreads_ . . . 179
6.43.4.9 pathPlanningThreadServices_ . . . 179
6.43.4.10 pathPlanningTopic_ . . . 179
6.43.4.11 pose_dist_ . . . 179
6.43.4.12 TP_pID . . . 179
6.43.4.13 uploadMapService_ . . . 179
6.43.4.14 uploadMapTopic_ . . . 180
6.44 QrCode Class Reference . . . 180
6.44.1 Detailed Description . . . 180
6.44.2 Member Data Documentation . . . 180
6.44.2.1 center . . . 180
6.44.2.2 message . . . 180
6.45 QrDetection Class Reference . . . 180
6.45.1 Detailed Description . . . 181
6.45.2 Constructor & Destructor Documentation . . . 181
6.45.2.1 QrDetection . . . 181
6.45.3 Member Function Documentation . . . 181

6.45.3.1 qrDetectionCallback . . . 181
6.45.4 Member Data Documentation . . . 182
6.45.4.1 nh_ . . . 182
6.45.4.2 qr_detector_ . . . 182
6.45.4.3 qrDetectionService_ . . . 182
6.45.4.4 qrDetectionTopic_ . . . 182
6.46 QrDetector Class Reference . . . 182
6.46.1 Detailed Description . . . 183
6.46.2 Constructor & Destructor Documentation . . . 183
6.46.2.1 QrDetector . . . 183
6.46.3 Member Function Documentation . . . 183
6.46.3.1 detectQrs . . . 183
6.46.3.2 findQrs . . . 183
6.46.3.3 loadImage . . . 183
6.47 caffe_wrapper.RappCaffeWrapper Class Reference . . . 184
6.47.1 Detailed Description . . . 184
6.47.2 Constructor & Destructor Documentation . . . 184
6.47.2.1 __init__ . . . 184
6.47.3 Member Function Documentation . . . 185
6.47.3.1 imageClassificationDataHandler . . . 185
6.47.3.2 ontologyClassBridgeDataHandler . . . 186
6.47.3.3 registerImageToOntologyDataHandler . . . 186
6.47.4 Member Data Documentation . . . 186
6.47.4.1 serv . . . 186
6.47.4.2 serv_topic . . . 186
6.48 src.rapp_exceptions.RappError Class Reference . . . 187
6.48.1 Detailed Description . . . 187
6.48.2 Constructor & Destructor Documentation . . . 188
6.48.2.1 __init__ . . . 188
6.48.3 Member Function Documentation . . . 188
6.48.3.1 __str__ . . . 188
6.48.4 Member Data Documentation . . . 188
6.48.4.1 value . . . 188
6.49 src.rapp_html_parser.RappHTMLParser Class Reference . . . 188
6.49.1 Detailed Description . . . 189
6.49.2 Constructor & Destructor Documentation . . . 189
6.49.2.1 __init__ . . . 189
6.49.3 Member Function Documentation . . . 189
6.49.3.1 get_data . . . 189
6.49.3.2 handle_data . . . 190

6.49.4 Member Data Documentation . . . 190
6.49.4.1 fed . . . 190
6.50 src.rapp_http_json_parser.RappHttpJSONParser Class Reference . . . 190
6.50.1 Detailed Description . . . 191
6.50.2 Constructor & Destructor Documentation . . . 191
6.50.2.1 __init__ . . . 191
6.50.3 Member Function Documentation . . . 191
6.50.3.1 find_values . . . 191
6.50.4 Member Data Documentation . . . 192
6.50.4.1 _html_parser . . . 192
6.51 src.rapp_http_request_handler.RappHttpRequestHandler Class Reference . . . 192
6.51.1 Detailed Description . . . 193
6.51.2 Constructor & Destructor Documentation . . . 194
6.51.2.1 __init__ . . . 194
6.51.3 Member Function Documentation . . . 194
6.51.3.1 _modify_response . . . 194
6.51.3.2 perform_request . . . 194
6.51.4 Member Data Documentation . . . 194
6.51.4.1 _accepted_status . . . 194
6.51.4.2 _headers . . . 194
6.51.4.3 _params . . . 194
6.51.4.4 _response_format . . . 195
6.51.4.5 _server_timeout . . . 195
6.51.4.6 _url . . . 195
6.52 costmap_2d::RappStaticLayer Class Reference . . . 195
6.52.1 Detailed Description . . . 197
6.52.2 Constructor & Destructor Documentation . . . 197
6.52.2.1 RappStaticLayer . . . 197
6.52.2.2 ~RappStaticLayer . . . 197
6.52.3 Member Function Documentation . . . 197
6.52.3.1 activate . . . 197
6.52.3.2 deactivate . . . 197
6.52.3.3 incomingMap . . . 197
6.52.3.4 incomingUpdate . . . 197
6.52.3.5 incomingUpdateService . . . 198
6.52.3.6 interpretValue . . . 198
6.52.3.7 matchSize . . . 198
6.52.3.8 onInitialize . . . 198
6.52.3.9 reconfigureCB . . . 198
6.52.3.10 reset . . . 198

6.52.3.11 updateBounds . . . 198
6.52.3.12 updateCosts . . . 198
6.52.4 Member Data Documentation . . . 198
6.52.4.1 costmap_update_service . . . 198
6.52.4.2 dsrv_ . . . 198
6.52.4.3 global_frame_ . . . 199
6.52.4.4 has_updated_data_ . . . 199
6.52.4.5 height_ . . . 199
6.52.4.6 lethal_threshold_ . . . 199
6.52.4.7 lock_ . . . 199
6.52.4.8 map_received_ . . . 199
6.52.4.9 map_sub_ . . . 199
6.52.4.10 map_update_sub_ . . . 199
6.52.4.11 subscribe_to_updates_ . . . 199
6.52.4.12 track_unknown_space_ . . . 199
6.52.4.13 trinary_costmap_ . . . 199
6.52.4.14 unknown_cost_value_ . . . 199
6.52.4.15 use_maximum_ . . . 200
6.52.4.16 width_ . . . 200
6.52.4.17 x_ . . . 200
6.52.4.18 y_ . . . 200
6.53 src.rapp_utilities.RappUtilities Class Reference . . . 200
6.53.1 Detailed Description . . . 201
6.53.2 Constructor & Destructor Documentation . . . 201
6.53.2.1 __init__ . . . 201
6.53.3 Member Function Documentation . . . 201
6.53.3.1 rapp_print . . . 201
6.54 rapp_audio_processing.rapp_set_noise_profile.SetNoiseProfile Class Reference . . . 201
6.54.1 Detailed Description . . . 202
6.54.2 Constructor & Destructor Documentation . . . 202
6.54.2.1 __init__ . . . 202
6.54.3 Member Function Documentation . . . 202
6.54.3.1 setNoise_profile . . . 202
6.54.4 Member Data Documentation . . . 202
6.54.4.1 utilities . . . 202
6.55 rapp_audio_processing.rapp_sox_denoise.SoxDenoise Class Reference . . . 203
6.55.1 Detailed Description . . . 203
6.55.2 Member Function Documentation . . . 203
6.55.2.1 soxDenoise . . . 203

6.56 rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4 Class Reference . . . 203
6.56.1 Detailed Description . . . 204
6.56.2 Constructor & Destructor Documentation . . . 204
6.56.2.1 __init__ . . . 204
6.56.3 Member Function Documentation . . . 204
6.56.3.1 _configureSpeechRecognition . . . 204
6.56.3.2 _createPreconfiguration . . . 205
6.56.3.3 _createSupportConfiguration . . . 205
6.56.3.4 _selectLanguageSupport . . . 205
6.56.3.5 _speechRecognition . . . 206
6.56.3.6 getConfigurationHash . . . 206
6.56.3.7 speechRecognitionBatch . . . 206
6.56.4 Member Data Documentation . . . 206
6.56.4.1 _configuration_params . . . 206
6.56.4.2 _english_support . . . 207
6.56.4.3 _globalParams . . . 207
6.56.4.4 _greek_support . . . 207
6.56.4.5 _sphinx4 . . . 207
6.56.4.6 _word_mapping . . . 207
6.57 rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognitionSphinx4HandlerNode Class Reference . . . 207
6.57.1 Detailed Description . . . 208
6.57.2 Constructor & Destructor Documentation . . . 208
6.57.2.1 __init__ . . . 208
6.57.3 Member Function Documentation . . . 208
6.57.3.1 _calculateRequestHash . . . 208
6.57.3.2 _getPreconfigurationNames . . . 209
6.57.3.3 handleSpeechRecognitionCallback . . . 209
6.57.4 Member Data Documentation . . . 209
6.57.4.1 _availableProcesses . . . 209
6.57.4.2 _lock . . . 209
6.57.4.3 _speech_recognition_batch_service . . . 210
6.57.4.4 _threadCounter . . . 210
6.57.4.5 _threads . . . 210
6.58 speech_recognition_google.SpeechToTextGoogle Class Reference . . . 210
6.58.1 Detailed Description . . . 210
6.58.2 Constructor & Destructor Documentation . . . 211
6.58.2.1 __init__ . . . 211
6.58.3 Member Function Documentation . . . 211

6.58.3.1 speech_to_text . . . 211
6.58.3.2 speech_to_text_callback . . . 211
6.58.4 Member Data Documentation . . . 211
6.58.4.1 serv . . . 211
6.58.4.2 serv_topic . . . 211
6.59 Sphinx4 Class Reference . . . 212
6.59.1 Detailed Description . . . 212
6.59.2 Member Function Documentation . . . 213
6.59.2.1 main . . . 213
6.59.2.2 updateConfiguration . . . 213
6.59.3 Member Data Documentation . . . 213
6.59.3.1 acoustic_model_path . . . 213
6.59.3.2 acoustic_model_path_prev . . . 213
6.59.3.3 bufferRead . . . 213
6.59.3.4 bufferWrite . . . 213
6.59.3.5 cm . . . 213
6.59.3.6 configuration . . . 213
6.59.3.7 configuration_model_path . . . 213
6.59.3.8 configuration_model_path_prev . . . 213
6.59.3.9 dictionary_path . . . 214
6.59.3.10 dictionary_path_prev . . . 214
6.59.3.11 grammar_enabled . . . 214
6.59.3.12 grammar_enabled_prev . . . 214
6.59.3.13 grammar_model_file_path . . . 214
6.59.3.14 grammar_model_file_path_prev . . . 214
6.59.3.15 grammar_model_folder_path . . . 214
6.59.3.16 grammar_model_folder_path_prev . . . 214
6.59.3.17 language_path . . . 214
6.59.3.18 language_path_prev . . . 214
6.59.3.19 recognizer . . . 214
6.60 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper Class Reference . . . 215
6.60.1 Detailed Description . . . 216
6.60.2 Constructor & Destructor Documentation . . . 216
6.60.2.1 __init__ . . . 216
6.60.3 Member Function Documentation . . . 216
6.60.3.1 _callSphinxJava . . . 216
6.60.3.2 _createProcessingProfile . . . 216
6.60.3.3 _createSocket . . . 217
6.60.3.4 _initializeSphinxProcess . . . 217
6.60.3.5 _performEnergyDenoising . . . 217

6.60.3.6 _readLine . . . 217
6.60.3.7 _respawnSphinx . . . 217
6.60.3.8 configureSphinx . . . 217
6.60.3.9 performSpeechRecognition . . . 218
6.60.4 Member Data Documentation . . . 218
6.60.4.1 _audio_transform_srv . . . 218
6.60.4.2 _conf . . . 218
6.60.4.3 _denoise_service . . . 218
6.60.4.4 _detect_silence_service . . . 218
6.60.4.5 _energy_denoise_service . . . 219
6.60.4.6 _globalParams . . . 219
6.60.4.7 _jar_path . . . 219
6.60.4.8 _sphinx_socket . . . 219
6.60.4.9 _sphinx_socket_PORT . . . 219
6.60.4.10 _sphinxDied . . . 219
6.60.4.11 _sphinxSubprocess . . . 219
6.61 rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams Class Reference . . . 219
6.61.1 Detailed Description . . . 220
6.61.2 Constructor & Destructor Documentation . . . 220
6.61.2.1 __init__ . . . 220
6.61.3 Member Function Documentation . . . 220
6.61.3.1 _readConfigurationYaml . . . 220
6.61.3.2 equalsRequest . . . 221
6.61.3.3 getHash . . . 221
6.61.3.4 makeEqualToInstance . . . 221
6.61.3.5 makeEqualToRequest . . . 221
6.61.4 Member Data Documentation . . . 221
6.61.4.1 _globalParams . . . 221
6.61.4.2 _grammar . . . 222
6.61.4.3 _language . . . 222
6.61.4.4 _sentences . . . 222
6.61.4.5 _words . . . 222
6.62 text_to_speech_espeak.TextToSpeechEspeak Class Reference . . . 222
6.62.1 Detailed Description . . . 222
6.62.2 Constructor & Destructor Documentation . . . 223
6.62.2.1 __init__ . . . 223
6.62.3 Member Function Documentation . . . 223
6.62.3.1 text_to_speech_callback . . . 223
6.62.4 Member Data Documentation . . . 223

6.62.4.1 serv . . . 223
6.62.4.2 serv_topic . . . 223
6.63 rapp_audio_processing.rapp_transform_audio.TransformAudio Class Reference . . . 223
6.63.1 Detailed Description . . . 223
6.63.2 Member Function Documentation . . . 224
6.63.2.1 _assertArgs . . . 224
6.63.2.2 _convertType . . . 224
6.63.2.3 _validateSourceType . . . 224
6.63.2.4 transform_audio . . . 225
6.64 userScoreHistoryForAllCategories.UserScoreHistoryForAllCategories Class Reference . . . 226
6.64.1 Detailed Description . . . 226
6.64.2 Member Function Documentation . . . 226
6.64.2.1 assignTestHistoryForTestCategoriesToSrv . . . 226
6.64.2.2 returnUserHistory . . . 227
6.64.2.3 validateTimeRange . . . 227
6.65 userScoresForAllCategories.UserScoresForAllCategories Class Reference . . . 228
6.65.1 Detailed Description . . . 228
6.65.2 Member Function Documentation . . . 228
6.65.2.1 calculateUserScoresForCategories . . . 228
6.65.2.2 returnUserScores . . . 228
6.66 rapp_audio_processing.rapp_utilities.Utilities Class Reference . . . 229
6.66.1 Detailed Description . . . 229
6.66.2 Member Function Documentation . . . 229
6.66.2.1 cleanup . . . 229
6.67 rapp_weather_reporter.weather_reporter_base.WeatherReporterBase Class Reference . . . 229
6.67.1 Detailed Description . . . 231
6.67.2 Constructor & Destructor Documentation . . . 231
6.67.2.1 __init__ . . . 231
6.67.3 Member Function Documentation . . . 231
6.67.3.1 fetch_current_weather . . . 231
6.67.3.2 fetch_weather_forecast . . . 231
6.67.4 Member Data Documentation . . . 231
6.67.4.1 __metaclass__ . . . 231
6.67.4.2 _accepted_status . . . 231
6.67.4.3 _http_request . . . 231
6.67.4.4 _url . . . 232
6.67.4.5 rapp_http_json_parser . . . 232
6.68 rapp_weather_reporter.weather_reporter_factory.WeatherReporterFactory Class Reference . . . 232
6.68.1 Detailed Description . . . 233
6.68.2 Member Function Documentation . . . 233

6.68.2.1 select_weather_reporter . . . 233
6.69 rapp_weather_reporter.weather_reporter_node.WeatherReporterNode Class Reference . . . 234
6.69.1 Detailed Description . . . 235
6.69.2 Constructor & Destructor Documentation . . . 235
6.69.2.1 __init__ . . . 235
6.69.3 Member Function Documentation . . . 235
6.69.3.1 _create_current_service_response . . . 235
6.69.3.2 _create_forecast_service_response . . . 235
6.69.3.3 fetch_current_weather_srv_callback . . . 235
6.69.3.4 fetch_forecast_srv_callback . . . 236
6.69.4 Member Data Documentation . . . 236
6.69.4.1 _weather_reporter_factory . . . 236
6.70 rapp_weather_reporter.yweather_reporter.YWeatherReporter Class Reference . . . 236
6.70.1 Detailed Description . . . 237
6.70.2 Constructor & Destructor Documentation . . . 238
6.70.2.1 __init__ . . . 238
6.70.3 Member Function Documentation . . . 238
6.70.3.1 _fetch_city_id . . . 238
6.70.3.2 _fetch_yweather_report . . . 238
6.70.3.3 _handle_current_weather_report . . . 238
6.70.3.4 _handle_weather_forecast_report . . . 238
6.70.3.5 fetch_current_weather . . . 238
6.70.3.6 fetch_weather_forecast . . . 238
6.70.4 Member Data Documentation . . . 239
6.70.4.1 _client . . . 239

7 File Documentation **241**

7.1 /home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp_application_authentication_manager/__init__.py File Reference . . . 241
7.2 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/__init__.py File Reference . . . 241
7.3 /home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/__init__.py File Reference . . . 241
7.4 /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/__init__.py File Reference . . . 241
7.5 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/__init__.py File Reference . . . 241
7.6 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/__init__.py File Reference . . . 242
7.7 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/__init__.py File Reference . . . 242
7.8 /home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/__init__.py File Reference . . . 242

7.9 /home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp_application_authentication_manager/application_authentication_node.py File Reference 242

7.10 /home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp_application_authentication_manager/database_handler.py File Reference 243

7.11 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_audio_processing.py File Reference 243

7.12 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_detect_silence.py File Reference 243

7.13 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_energy_denoise.py File Reference 243

7.14 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_set_noise_profile.py File Reference 244

7.15 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_sox_denoise.py File Reference 244

7.16 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_transform_audio.py File Reference 244

7.17 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_utilities.py File Reference 244

7.18 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_utilities.py File Reference 245

7.19 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/app_error_exception.py File Reference 245

7.20 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/app_error_exception.py File Reference 245

7.21 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/caffe_wrapper.py File Reference . . 245

7.22 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/caffe_wrapper_main.py File Reference 246

7.23 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/image_classification.py File Reference 246

7.24 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/image_registration_to_ontology.py File Reference 246

7.25 /home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/ontology_class_bridge.py File Reference 246

7.26 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/cognitive_exercise.py File Reference 247

7.27 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/cognitive_exercise_main.py File Reference 247

7.28 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/helper_functions.py File Reference 247

7.29 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/userScoreHistoryForAllCategories.py File Reference 247

7.30 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/userScoresForAllCategories.py File Reference 248

7.31 /home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_node.py File Reference . . 248

7.32 /home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_receiver.py File Reference 248

7.33 /home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_sender.py File Reference . 248

7.34 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/include/face_detection/face_detection.h File Reference 249

7.35 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/include/face_detection/face_detector.h File Reference 249

7.36 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/src/face_detection.cpp File Reference . 250
7.37 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/src/face_detection_node.cpp File Reference . . . 251
7.37.1 Function Documentation . . . 251
7.37.1.1 main . . . 251
7.38 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/src/face_detector.cpp File Reference . 252
7.39 /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator_base.py File Reference . . . 252
7.40 /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator_factory.py File Reference . . . 252
7.41 /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator_node.py File Reference . . . 252
7.42 /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/ip_api_locator.py File Reference . . . 253
7.43 /home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/door_check.cpp File Reference . 253
7.44 /home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/hazard_detection.cpp File Reference . . . 253
7.45 /home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/hazard_detection_node.cpp File Reference . . . 254
7.45.1 Function Documentation . . . 254
7.45.1.1 main . . . 255
7.46 /home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/light_check.cpp File Reference . 255
7.47 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/include/human_detection/human_detection.h File Reference . . . 255
7.48 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/include/human_detection/human_detector.h File Reference . . . 256
7.49 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/src/human_detection.cpp File Reference . . . 257
7.50 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/src/human_detection_node.cpp File Reference . . . 257
7.50.1 Function Documentation . . . 258
7.50.1.1 main . . . 258
7.51 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/src/human_detector.cpp File Reference 258
7.52 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper.h File Reference . . . 258
7.53 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper_communications.h File Reference . . . 260
7.54 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper.cpp File Reference . . . 260
7.54.1 Function Documentation . . . 261
7.54.1.1 checkIfFileExists . . . 261
7.54.1.2 checkIfStringContainsString . . . 261
7.54.1.3 checkIfStringVectorContainsString . . . 261
7.54.1.4 intToString . . . 262

7.54.1.5 split . . . 263
7.54.1.6 SplitFilename . . . 263
7.55 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper_communications.cpp File Reference . . . 263
7.56 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper_node.cpp File Reference . . . 264
7.56.1 Function Documentation . . . 264
7.56.1.1 main . . . 264
7.57 /home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper.py File Reference . . . 264
7.58 /home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper_main.py File Reference . . . 264
7.59 /home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper_old.py File Reference 265
7.60 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/engine_factory.py File Reference . . . 265
7.61 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/event_registry_engine.py File Reference . . . 265
7.62 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/google_news_engine.py File Reference . . . 265
7.63 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/news_engine_base.py File Reference . . . 266
7.64 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/news_explorer_node.py File Reference . . . 266
7.65 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_costmap2d/include/rapp_costmap_2d/rapp_static_layer.h File Reference . . . 266
7.66 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_costmap2d/plugins/rapp_static_layer.cpp File Reference . . . 267
7.67 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_costmap2d/src/observation_buffer.cpp File Reference . . . 268
7.68 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/include/map_server/image_loader.h File Reference . . . 268
7.69 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/scripts/crop_map.py File Reference . . . 269
7.70 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/src/image_loader.cpp File Reference . . . 270
7.70.1 Macro Definition Documentation . . . 270
7.70.1.1 MAP_IDX . . . 270
7.71 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/src/main.cpp File Reference . . . 271
7.71.1 Macro Definition Documentation . . . 271
7.71.1.1 USAGE . . . 271
7.71.2 Function Documentation . . . 272
7.71.2.1 main . . . 272
7.72 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/src/map_saver.cpp File Reference . . . 272
7.72.1 Macro Definition Documentation . . . 272

7.72.1.1 USAGE . . . 272
7.72.2 Function Documentation . . . 273
7.72.2.1 main . . . 273
7.73 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/include/path_planning/path_planner.h File Reference . . . 273
7.74 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/include/path_planning/path_planning.h File Reference . . . 274
7.75 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/src/path_planner.cpp File Reference . . . 274
7.76 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/src/path_planning.cpp File Reference . . . 275
7.76.1 Function Documentation . . . 275
7.76.1.1 exists_file . . . 275
7.76.1.2 input_poses_correct . . . 275
7.76.1.3 setPoseDist . . . 276
7.76.1.4 start_global_planners . . . 276
7.76.1.5 start_map_servers . . . 276
7.76.1.6 start_tf_publisher . . . 276
7.77 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/src/path_planning_node.cpp File Reference . . . 276
7.77.1 Function Documentation . . . 276
7.77.1.1 main . . . 276
7.77.1.2 mySigintHandler . . . 276
7.77.2 Variable Documentation . . . 277
7.77.2.1 path_planning_ . . . 277
7.78 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detection.h File Reference . . . 277
7.79 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detector.h File Reference . . . 278
7.80 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_detection.cpp File Reference . . . 278
7.81 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_detection_node.cpp File Reference 279
7.81.1 Function Documentation . . . 279
7.81.1.1 main . . . 279
7.82 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_detector.cpp File Reference . . . 279
7.83 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_google/src/speech_recognition_google.py File Reference . . . 280
7.84 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/english_support.py File Reference . . . 280
7.85 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/global_parameters.py File Reference . . . 280
7.86 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/greek_english_support.py File Reference . . . 281
7.87 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/greek_support.py File Reference . . . 281

7.88 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/language_support.py File Reference . . . 281
7.89 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/limited_vocabulary_creator.py File Reference . . . 281
7.90 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/speech_recognition_sphinx4.py File Reference . . . 282
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 . . . 282
7.92 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/sphinx4_configuration_params.py File Reference . . . 283
7.93 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/sphinx4_wrapper.py File Reference . . . 283
7.94 /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/Sphinx4.java File Reference . . . 283
7.95 /home/travis/rapp_temp/rapp-platform/rapp_text_to_speech_espeak/src/text_to_speech_espeak.py File Reference . . . 283
7.96 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_exceptions.py File Reference . . . 284
7.97 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_html_parser.py File Reference . . . 284
7.98 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_http_json_parser.py File Reference . . . 284
7.99 /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_http_request_handler.py File Reference 284
7.100/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/forecastio_reporter.py File Reference . . . 285
7.101/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/weather_reporter_base.py File Reference . . . 285
7.102/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/weather_reporter_factory.py File Reference . . . 285
7.103/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/weather_reporter_node.py File Reference . . . 285
7.104/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/yweather_reporter.py File Reference . . . 286

Index **287**

Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

app_error_exception . . . 13
caffe_wrapper . . . 13
caffe_wrapper_main . . . 13
cognitive_exercise . . . 13
cognitive_exercise_main . . . 14
costmap_2d . . . 14
crop_map . . . 14
helper_functions . . . 16
image_classification . . . 16
image_registration_to_ontology . . . 16
map_server . . . 16
mysql_wrapper . . . 17
mysql_wrapper_main . . . 17
mysql_wrapper_old . . . 17
ontology_class_bridge . . . 17
rapp_application_authentication_manager . . . 17
rapp_application_authentication_manager.application_authentication_node . . . 17
rapp_application_authentication_manager.database_handler . . . 18
rapp_audio_processing . . . 18
rapp_audio_processing.rapp_audio_processing . . . 18
rapp_audio_processing.rapp_detect_silence . . . 19
rapp_audio_processing.rapp_energy_denoise . . . 19
rapp_audio_processing.rapp_set_noise_profile . . . 19
rapp_audio_processing.rapp_sox_denoise . . . 19
rapp_audio_processing.rapp_transform_audio . . . 19
rapp_audio_processing.rapp_utilities . . . 19
rapp_email . . . 20
rapp_email.email_node . . . 20
rapp_email.email_receiver . . . 20
rapp_email.email_sender . . . 20
rapp_geolocator . . . 20
rapp_geolocator.geolocator_base . . . 21
rapp_geolocator.geolocator_factory . . . 21
rapp_geolocator.geolocator_node . . . 21
rapp_geolocator.ip_api_locator . . . 21
rapp_news_explorer . . . 21
rapp_news_explorer.engine_factory . . . 22
rapp_news_explorer.event_registry_engine . . . 22

rapp_news_explorer.google_news_engine . . . 22
rapp_news_explorer.news_engine_base . . . 22
rapp_news_explorer.news_explorer_node . . . 22
rapp_speech_detection_sphinx4 . . . 23
rapp_speech_detection_sphinx4.english_support . . . 23
rapp_speech_detection_sphinx4.global_parameters . . . 23
rapp_speech_detection_sphinx4.greek_english_support . . . 23
rapp_speech_detection_sphinx4.greek_support . . . 23
rapp_speech_detection_sphinx4.language_support . . . 23
rapp_speech_detection_sphinx4.limited_vocabulary_creator . . . 24
rapp_speech_detection_sphinx4.speech_recognition_sphinx4 . . . 24
rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node . . . 24
rapp_speech_detection_sphinx4.sphinx4_configuration_params . . . 25
rapp_speech_detection_sphinx4.sphinx4_wrapper . . . 25
rapp_weather_reporter . . . 25
rapp_weather_reporter.forecastio_reporter . . . 25
rapp_weather_reporter.weather_reporter_base . . . 25
rapp_weather_reporter.weather_reporter_factory . . . 26
rapp_weather_reporter.weather_reporter_node . . . 26
rapp_weather_reporter.yweather_reporter . . . 26
speech_recognition_google . . . 26
src . . . 27
src.rapp_exceptions . . . 27
src.rapp_html_parser . . . 27
src.rapp_http_json_parser . . . 27
src.rapp_http_request_handler . . . 27
src.rapp_utilities . . . 28
text_to_speech_espeak . . . 28
userScoreHistoryForAllCategories . . . 28
userScoresForAllCategories . . . 28

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 . . . 31
rapp_audio_processing.rapp_audio_processing.AudioProcessing . . . 35
cognitive_exercise.CognitiveExercise . . . 38
helper_functions.CognitiveExerciseHelperFunctions . . . 41
CostmapLayer
  costmap_2d::RappStaticLayer . . . 195
rapp_audio_processing.rapp_detect_silence.DetectSilence . . . 52
rapp_audio_processing.rapp_energy_denoise.EnergyDenoise . . . 58
Exception
  app_error_exception.AppError . . . 29
  app_error_exception.AppError . . . 29
  src.rapp_exceptions.RappError . . . 187
FaceDetection . . . 65
FaceDetector . . . 67
rapp_speech_detection_sphinx4.global_parameters.GlobalParams . . . 80
GreekSupport . . . 88
HumanDetection . . . 94
HumanDetector . . . 96
image_classification.ImageClassification . . . 99
image_registration_to_ontology.ImageRegistrationToOntology . . . 102
IPLocatorFactory . . . 106
KnowrobWrapper . . . 107
KnowrobWrapperCommunications . . . 119
rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator . . . 134
MapGenerator . . . 135
MapServer . . . 136
mysql_wrapper_old.MySQLdbWrapper . . . 139
mysql_wrapper.MySQLdbWrapper . . . 152
object
  rapp_application_authentication_manager.database_handler.DatabaseHandler . . . 44
  rapp_email.email_receiver.EmailReceiver . . . 52
  rapp_email.email_sender.EmailSender . . . 55
  rapp_geolocator.geolocator_base.GeolocatorBase . . . 74
    rapp_geolocator.ip_api_locator.IpAPILocator . . . 104
  rapp_geolocator.geolocator_factory.GeolocatorFactory . . . 77
  rapp_geolocator.geolocator_node.GeolocatorNode . . . 78
  rapp_news_explorer.engine_factory.EngineFactory . . . 58

rapp_news_explorer.news_engine_base.NewsEngineBase . . . 169
rapp_news_explorer.event_registry_engine.EventRegistryEngine . . . 62
rapp_news_explorer.google_news_engine.GoogleNewsEngine . . . 82
rapp_news_explorer.news_explorer_node.NewsExplorerNode . . . 172
rapp_speech_detection_sphinx4.language_support.LanguageSupport . . . 131
rapp_speech_detection_sphinx4.english_support.EnglishSupport . . . 60
rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport . . . 86
rapp_speech_detection_sphinx4.greek_support.GreekSupport . . . 89
rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport . . . 86
rapp_weather_reporter.weather_reporter_base.WeatherReporterBase . . . 229
rapp_weather_reporter.forecastio_reporter.ForecastIOReporter . . . 71
rapp_weather_reporter.yweather_reporter.YWeatherReporter . . . 236
rapp_weather_reporter.weather_reporter_factory.WeatherReporterFactory . . . 232
rapp_weather_reporter.weather_reporter_node.WeatherReporterNode . . . 234
src.rapp_http_json_parser.RappHttpJSONParser . . . 190
src.rapp_http_request_handler.RappHttpRequestHandler . . . 192
src.rapp_utilities.RappUtilities . . . 200
ontology_class_bridge.OntologyClassBridge . . . 174
PathPlanner . . . 175
PathPlanning . . . 177
QrCode . . . 180
QrDetection . . . 180
QrDetector . . . 182
caffe_wrapper.RappCaffeWrapper . . . 184
rapp_audio_processing.rapp_set_noise_profile.SetNoiseProfile . . . 201
rapp_audio_processing.rapp_sox_denoise.SoxDenoise . . . 203
rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4 . . . 203
rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognition-Sphinx4HandlerNode . . . 207
speech_recognition_google.SpeechToTextGoogle . . . 210
Sphinx4 . . . 212
rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper . . . 215
rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams . . . 219
text_to_speech_espeak.TextToSpeechEspeak . . . 222
rapp_audio_processing.rapp_transform_audio.TransformAudio . . . 223
userScoreHistoryForAllCategories.UserScoreHistoryForAllCategories . . . 226
userScoresForAllCategories.UserScoresForAllCategories . . . 228
rapp_audio_processing.rapp_utilities.Utilities . . . 229
HTMLParser
src.rapp_html_parser.RappHTMLParser . . . 188

Chapter 3

Class Index

3.1 Class List

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

app_error_exception.AppError
: 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 . . . 52

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 . . . 58

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 . . . 60

rapp_news_explorer.event_registry_engine.EventRegistryEngine
: EventRegistry news engine hndler . . . 62

FaceDetection
: Class FaceDetection uptakes the task of handling the ROS service callbacks . . . 65

FaceDetector
: Class that implements a face detection algorithm based on a Haar cascade classifier . . . 67

rapp_weather_reporter.forecastio_reporter.ForecastIOReporter
: ForecastIO weather reporter . . . 71

rapp_geolocator.geolocator_base.GeolocatorBase
: Base class for geolocators . . . 74

rapp_geolocator.geolocator_factory.GeolocatorFactory . . . 77

rapp_geolocator.geolocator_node.GeolocatorNode
: Calculates geolocation via IP . . . 78

rapp_speech_detection_sphinx4.global_parameters.GlobalParams
: Contains global Sphinx parameters . . . 80

rapp_news_explorer.google_news_engine.GoogleNewsEngine
Google news engine hndler . . . 82
rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport . . . 86
GreekSupport
Allows the creation of configuration files for Greek Sphinx speech recognition . . . 88
rapp_speech_detection_sphinx4.greek_support.GreekSupport
Allows the creation of configuration files for Greek Sphinx speech recognition . . . 89
HumanDetection
Class HumanDetection uptakes the task of handling the ROS service callbacks . . . 94
HumanDetector
Class that implements a human detection algorithm based on a Haar cascade classifier . . . 96
image_classification.ImageClassification
Contains the necessary functions for classifying an images and requesting registration to the ontology . . . 99
image_registration_to_ontology.ImageRegistrationToOntology
Contains the necessary functions for registering images to the ontology . . . 102
rapp_geolocator.ip_api_locator.IpAPILocator
IP-API locator . . . 104
IPLocatorFactory
Creates and returns the class of the geolocator requested . . . 106
KnowrobWrapper
Class KnowrobWrapperCommunications contains all the necessary knowrob wrapper functions 107
KnowrobWrapperCommunications
Class KnowrobWrapperCommunications uptakes the task of handling the ROS service callbacks 119
rapp_speech_detection_sphinx4.language_support.LanguageSupport
Allows the creation of configuration files for Sphinx speech recognition . . . 131
rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator
Creates temporary configuration files for the input limited vocabulary . . . 134
MapGenerator
Map generation node . . . 135
MapServer . . . 136
mysql_wrapper_old.MySQLdbWrapper
The mysql wrapper ros node . . . 139
mysql_wrapper.MySQLdbWrapper
The mysql wrapper ros node . . . 152
rapp_news_explorer.news_engine_base.NewsEngineBase
Base class for news engines . . . 169
rapp_news_explorer.news_explorer_node.NewsExplorerNode
Fetches news from various News sites' APIs . . . 172
ontology_class_bridge.OntologyClassBridge
Contains the necessary functions for translating caffe classes to ontology classes . . . 174
PathPlanner
Class that implements a path planning algorithm based on global_planner and map_server ROS nodes . . . 175
PathPlanning . . . 177
QrCode
Structure holding the essential info for a QR code . . . 180
QrDetection
Uptakes the task of setting up the ROS service callbacks towards qr detection . . . 180
QrDetector
Provides the QR detection functionality . . . 182
caffe_wrapper.RappCaffeWrapper
The RappCaffeWrapper ros node . . . 184
src.rapp_exceptions.RappError
Provides a RAPP specific exception . . . 187
src.rapp_html_parser.RappHTMLParser
Strips html from imput string . . . 188

src.rapp_http_json_parser.RappHttpJSONParser
Retrieves key:value pairs from JSON responses . . . 190
src.rapp_http_request_handler.RappHttpRequestHandler
Performs http requests . . . 192
costmap_2d::RappStaticLayer . . . 195
src.rapp_utilities.RappUtilities
Provides various utility functionalities . . . 200
rapp_audio_processing.rapp_set_noise_profile.SetNoiseProfile
Evaluates the noise profile for an audio file . . . 201
rapp_audio_processing.rapp_sox_denoise.SoxDenoise
Performs denoising on an audio file employing Sox application . . . 203
rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4
Provides a complete Rapp Sphinx Entity . . . 203
rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognition-Sphinx4HandlerNode
Maintains Sphinx instances to perform speech recognition . . . 207
speech_recognition_google.SpeechToTextGoogle
Implements calls the Google ASR API . . . 210
Sphinx4
Performs speech recognition employing Sphinx . . . 212
rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper
Contains the Sphinx subprocess and is responsible for configuring Sphinx and performing the recognition request . . . 215
rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams
Contains the parameters required for the Sphinx configuration . . . 219
text_to_speech_espeak.TextToSpeechEspeak . . . 222
rapp_audio_processing.rapp_transform_audio.TransformAudio
Provides audio type tranformation functionalities . . . 223
userScoreHistoryForAllCategories.UserScoreHistoryForAllCategories
Provides the necessary functions for returning the history of user scores . . . 226
userScoresForAllCategories.UserScoresForAllCategories
Provides the necessary functions for returning the user scores . . . 228
rapp_audio_processing.rapp_utilities.Utilities
Provides audio processing utilities . . . 229
rapp_weather_reporter.weather_reporter_base.WeatherReporterBase
Base class for weather reporters . . . 229
rapp_weather_reporter.weather_reporter_factory.WeatherReporterFactory
Creates and returns the class of the weather reporter requested . . . 232
rapp_weather_reporter.weather_reporter_node.WeatherReporterNode
Evaluates weather conditions . . . 234
rapp_weather_reporter.yweather_reporter.YWeatherReporter
Yweather weather reporter . . . 236

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

/home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp_application_-authentication_manager/__init__.py . . . 241
/home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp_application_-authentication_manager/application_authentication_node.py . . . 242
/home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp_application_-authentication_manager/database_handler.py . . . 243
/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/__init__.py . . 241
/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_audio_-processing.py . . . 243
/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_detect_-silence.py . . . 243
/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_energy_-denoise.py . . . 243
/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_set_-noise_profile.py . . . 244
/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_sox_-denoise.py . . . 244
/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_transform-_audio.py . . . 244
/home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_processing/rapp_utilities.-py . . . 244
/home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/app_error_exception.py . . . 245
/home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/caffe_wrapper.py . . . 245
/home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/caffe_wrapper_main.py . . . 246
/home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/image_classification.py . . . 246
/home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/image_registration_to_ontology.py . . . 246
/home/travis/rapp_temp/rapp-platform/rapp_caffe_wrapper/src/ontology_class_bridge.py . . . 246
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/app_error_exception.py . . . 245
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/cognitive_exercise.py . . . 247
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/cognitive_exercise_main.py . . . 247
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/helper_functions.py . . . 247
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/userScoreHistoryForAllCategories.py 247
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/userScoresForAllCategories.py . . . 248
/home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/__init__.py . . . 241
/home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_node.py . . . 248
/home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_receiver.py . . . 248
/home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_sender.py . . . 248
/home/travis/rapp_temp/rapp-platform/rapp_face_detection/include/face_detection/face_detection.h . . . 249

/home/travis/rapp_temp/rapp-platform/rapp_face_detection/include/face_detection/face_detector.h . . . 249
/home/travis/rapp_temp/rapp-platform/rapp_face_detection/src/face_detection.cpp . . . 250
/home/travis/rapp_temp/rapp-platform/rapp_face_detection/src/face_detection_node.cpp . . . 251
/home/travis/rapp_temp/rapp-platform/rapp_face_detection/src/face_detector.cpp . . . 252
/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/__init__.py . . . 241
/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator_base.py . . . 252
/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator_factory.py . . . 252
/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator_node.py . . . 252
/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/ip_api_locator.py . . . 253
/home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/door_check.cpp . . . 253
/home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/hazard_detection.cpp . . . 253
/home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/hazard_detection_node.cpp . . . 254
/home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/light_check.cpp . . . 255
/home/travis/rapp_temp/rapp-platform/rapp_human_detection/include/human_detection/human_detection.h . . . 255
/home/travis/rapp_temp/rapp-platform/rapp_human_detection/include/human_detection/human_detector.h . . . 256
/home/travis/rapp_temp/rapp-platform/rapp_human_detection/src/human_detection.cpp . . . 257
/home/travis/rapp_temp/rapp-platform/rapp_human_detection/src/human_detection_node.cpp . . . 257
/home/travis/rapp_temp/rapp-platform/rapp_human_detection/src/human_detector.cpp . . . 258
/home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper.h . . . 258
/home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper_communications.h . . . 260
/home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper.cpp . . . 260
/home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper_communications.cpp . . . 263
/home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper_node.cpp . . . 264
/home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper.py . . . 264
/home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper_main.py . . . 264
/home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper_old.py . . . 265
/home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/__init__.py . . . 241
/home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/engine_factory.py . 265
/home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/event_registry_engine.py . . . 265
/home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/google_news_engine.py . . . 265
/home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/news_engine_base.py . . . 266
/home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/news_explorer_node.py . . . 266
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_costmap2d/include/rapp_costmap_2d/rapp_static_layer.h . . . 266
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_costmap2d/plugins/rapp_static_layer.cpp . . . 267
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_costmap2d/src/observation_buffer.cpp . 268
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/include/map_server/image_loader.h . . . 268
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/scripts/crop_map.py . . . 269
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/src/image_loader.cpp . . . 270
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/src/main.cpp . . . 271
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/src/map_saver.cpp . . . 272
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/include/path_planning/path_planner.h . . . 273
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/include/path_planning/path_planning.h . . . 274
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/src/path_planner.cpp . . 274
/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/src/path_planning.cpp . 275

/home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/src/path_planning_node.cpp . . . 276
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detection.h . . . 277
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detector.h . . . 278
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_detection.cpp . . . 278
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_detection_node.cpp . . . 279
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_detector.cpp . . . 279
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_google/src/speech_recognition_google.py 280
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/Sphinx4.java . . . 283
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/__init__.py . . . 242
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/english_support.py . . . 280
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/global_parameters.py . . . 280
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/greek_english_support.py . . . 281
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/greek_support.py . . . 281
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/language_support.py . . . 281
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/limited_vocabulary_creator.py . . . 281
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/speech_recognition_sphinx4.py . . . 282
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/speech_recognition_sphinx4_handler_node.py . . . 282
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/sphinx4_configuration_params.py . . . 283
/home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/sphinx4_wrapper.py . . . 283
/home/travis/rapp_temp/rapp-platform/rapp_text_to_speech_espeak/src/text_to_speech_espeak.py . . . 283
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/__init__.py . . . 242
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_exceptions.py . . . 284
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_html_parser.py . . . 284
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_http_json_parser.py . . . 284
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_http_request_handler.py . . . 284
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_utilities.py . . . 245
/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/__init__.py . . . 242
/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/forecastio_reporter.py . . . 285
/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/weather_reporter_base.py . . . 285
/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/weather_reporter_factory.py . . . 285
/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/weather_reporter_node.py . . . 285
/home/travis/rapp_temp/rapp-platform/rapp_weather_reporter/src/rapp_weather_reporter/yweather_reporter.py . . . 286

Chapter 5

Namespace Documentation

5.1 app_error_exception Namespace Reference

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 tuple rapp_geolocator.geolocator_node.geolocator_node = 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 Namespace 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.SpeechRecognitionSphinx4HandlerNode = 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.

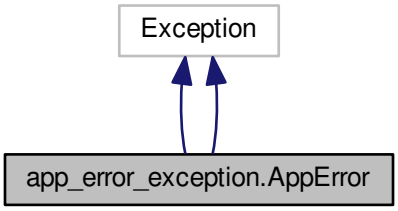
Chapter 6

Class Documentation

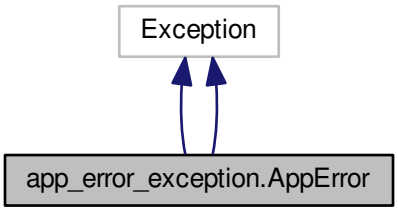
6.1 app_error_exception.AppError Class Reference

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

- def __init__

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

e	[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.

Parameters

e	[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.

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.

6.2.3.2 def rapp_application_authentication_manager.application_authentication_node.ApplicationAuthenticationManager._validate_username_format (*self, username*) [private]

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.

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::AddNewUserFromPlatformSrvRequest] 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::AddNewUserFromStoreSrvRequest] The service request

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::UserTokenAuthenticationSrvRequest] 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] The 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.

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, req*)

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.DetectSilence.

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.

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.SoxDenoise.

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.TransformAudio.

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/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.

6.5.1 Detailed Description

Definition at line 33 of file helper_functions.py.

6.5.2 Member Function Documentation

6.5.2.1 def helper_functions.CognitiveExerciseHelperFunctions.determineTestTypeListForReturningScoresOrHistory (*testType*, *validtestTypesList*) [static]

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

Parameters

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

Returns

testTypesList [list] The list of testTypes returned

Exceptions

Exception	AppError

Definition at line 165 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
testSubType	[string] The test sub type

Returns

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

Definition at line 131 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

Exception	AppError

Definition at line 112 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 90 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 70 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

Definition at line 148 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	[string] The user's username

Returns

ontologyAlias [string] The user's ontology alias

Exceptions

Exception	AppError

Definition at line 55 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 41 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 181 of file helper_functions.py.

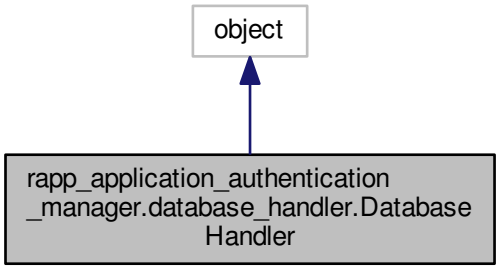
The documentation for this class was generated from the following file:

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

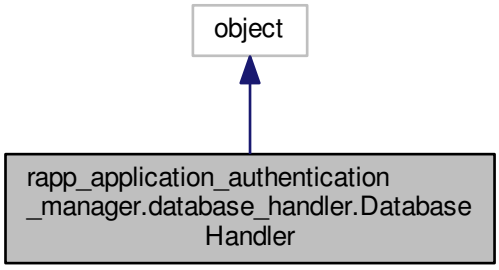
6.6 rapp_application_authentication_manager.database_handler.DatabaseHandler Class Reference

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.DatabaseHandler:



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

RappError	Failed 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.

6.6.3.7 def rapp_application_authentication_manager.database_handler.DatabaseHandler.verify_active_application_token (*self, application_token*)

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.

6.6.3.11 def rapp_application_authentication_manager.database_handler.DatabaseHandler.write_new_application_token (*self, username, store_token, appl_token*)

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.

6.6.4.5 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.

6.6.4.10 rapp_application_authentication_manager.database_handler.DatabaseHandler._verify_robot_session_proxy [private]

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.

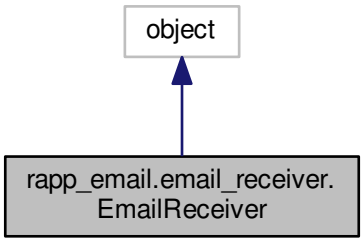
The documentation for this class was generated from the following file:

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

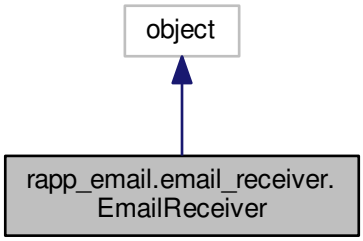
6.8 rapp_email.email_receiver.EmailReceiver Class Reference

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

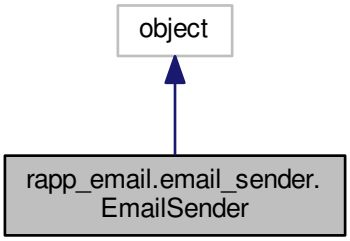
Definition at line 59 of file email_receiver.py.

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

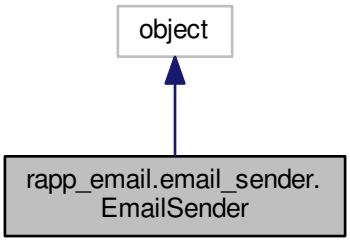
- /home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/email_receiver.py

6.9 rapp_email.email_sender.EmailSender Class Reference

Inheritance diagram for rapp_email.email_sender.EmailSender:



Collaboration diagram for rapp_email.email_sender.EmailSender:



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
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
userEmail	[string] The sender's email
subject	[string] The email's subject
body	[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.AudioProcessing::energyDenoiseCallback

Parameters

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

Definition at line 39 of file rapp_energy_denoise.py.

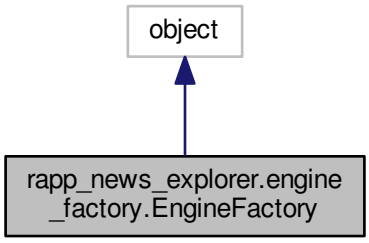
The documentation for this class was generated from the following file:

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

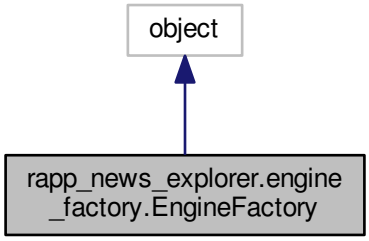
6.11 rapp_news_explorer.engine_factory.EngineFactory Class Reference

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.

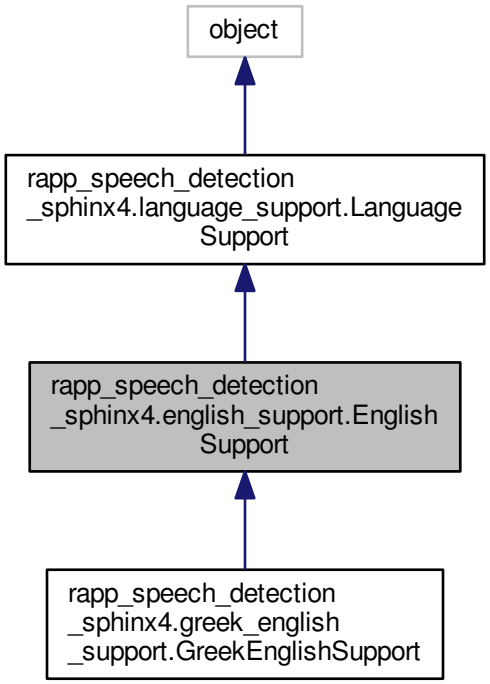
The documentation for this class was generated from the following file:

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

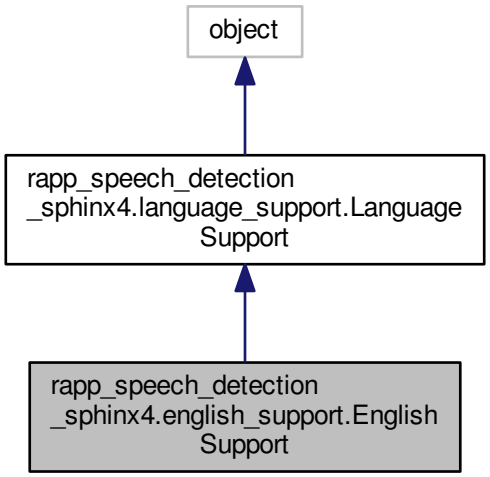
6.12 rapp_speech_detection_sphinx4.english_support.EnglishSupport Class Reference

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.

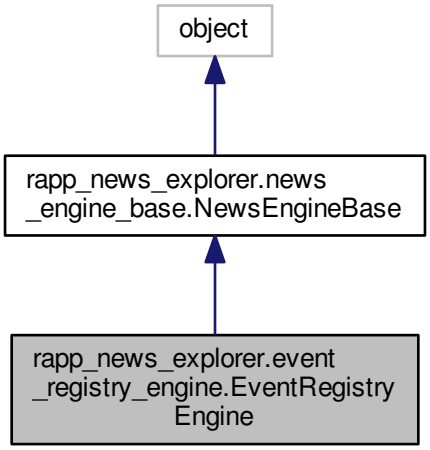
The documentation for this class was generated from the following file:

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

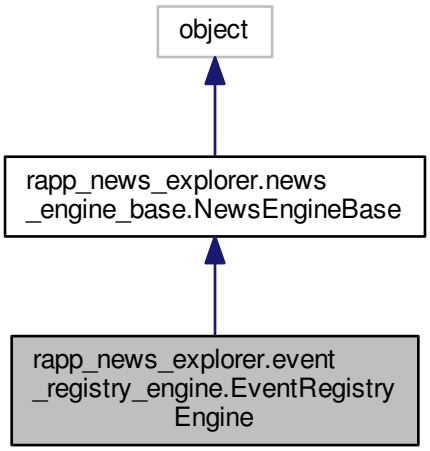
6.13 rapp_news_explorer.event_registry_engine.EventRegistryEngine Class Reference

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:

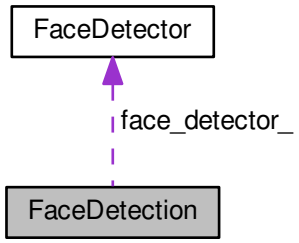
- /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/event_registry_engine.py

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
secondFaceVector	[const std::vector<cv::Rect>&] The second set of faces

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.

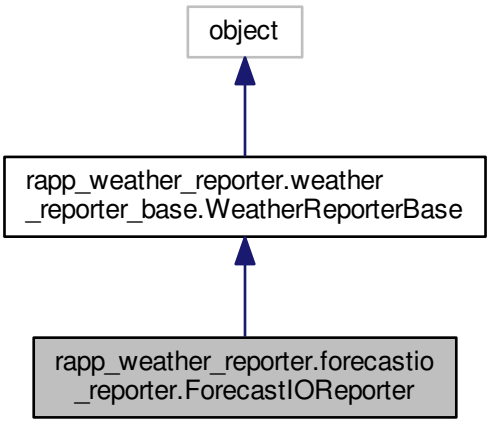
The documentation for this class was generated from the following files:

- /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

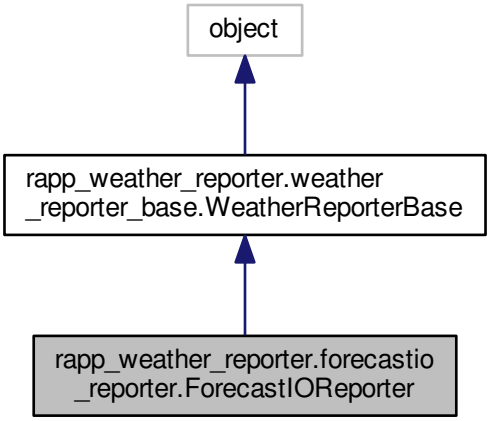
6.16 rapp_weather_reporter.forecastio_reporter.ForecastIOReporter Class Reference

ForecastIO weather reporter.

Inheritance diagram for rapp_weather_reporter.forecastio_reporter.ForecastIOReporter:



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.ForecastIOReporter._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.ForecastIOReporter._api_key [private]

Definition at line 42 of file forecastio_reporter.py.

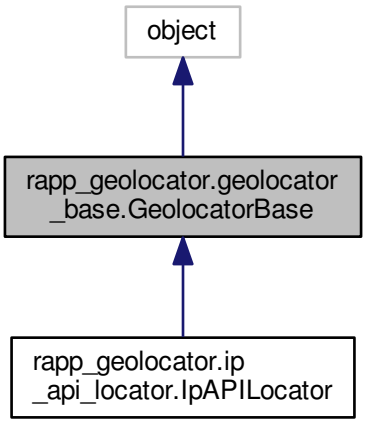
The documentation for this class was generated from the following file:

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

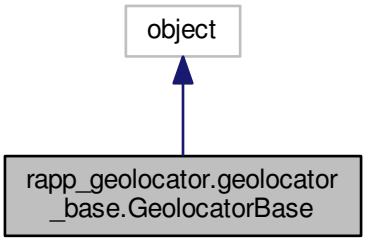
6.17 rapp_geolocator.geolocator_base.GeolocatorBase Class Reference

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.

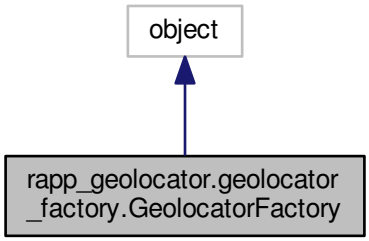
Definition at line 48 of file geolocator_base.py.

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

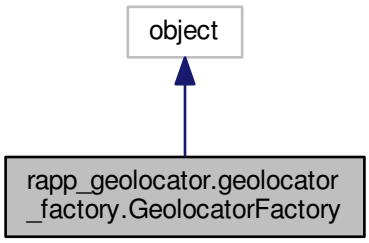
- /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/geolocator_base.py

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.

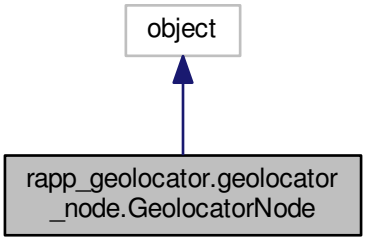
The documentation for this class was generated from the following file:

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

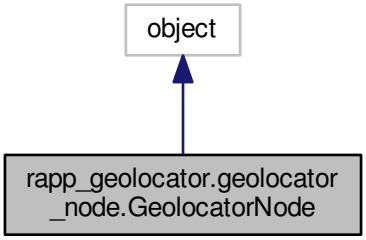
6.19 rapp_geolocator.geolocator_node.GeolocatorNode Class Reference

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.

6.20.3.10 rapp_speech_detection_sphinx4.global_parameters.GlobalParams._tmp_language_models_url [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.

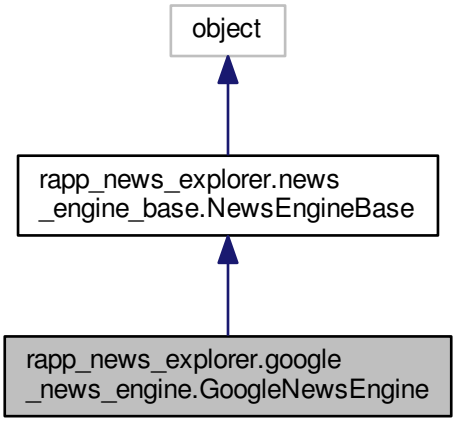
The documentation for this class was generated from the following file:

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

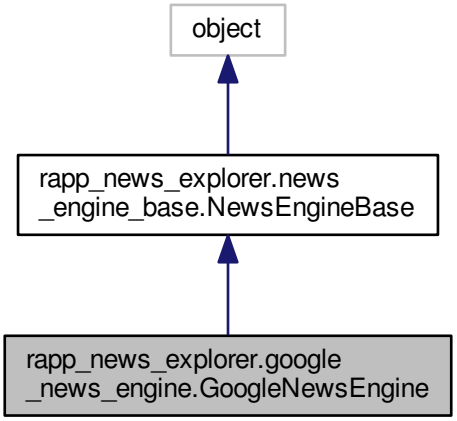
6.21 rapp_news_explorer.google_news_engine.GoogleNewsEngine Class Reference

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

6.21.3.1 def rapp_news_explorer.google_news_engine.GoogleNewsEngine._handle_params (*self, req, iters*) [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]

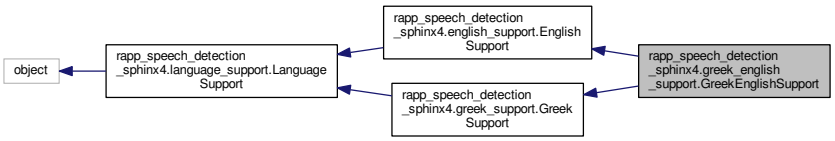
Definition at line 35 of file google_news_engine.py.

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

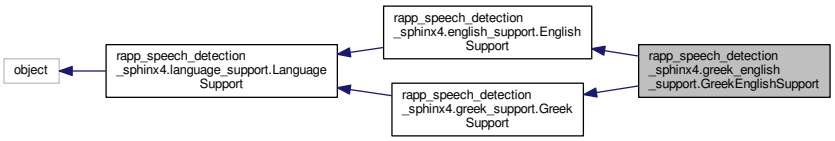
- /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/google_news_engine.py

6.22 rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport Class Reference

Inheritance diagram for rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport:



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

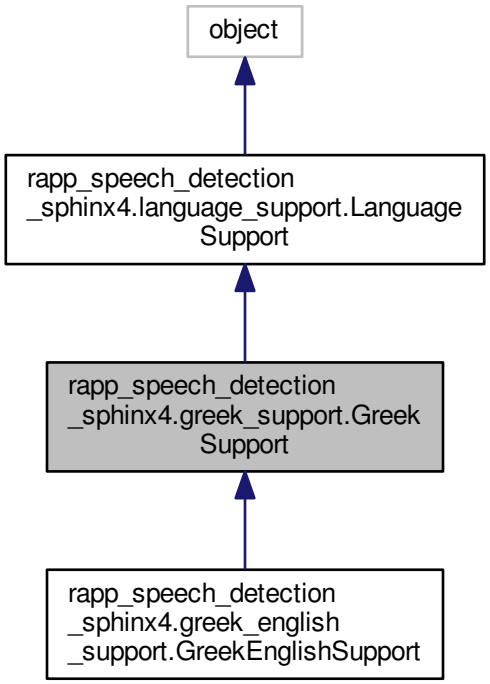
The documentation for this class was generated from the following file:

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

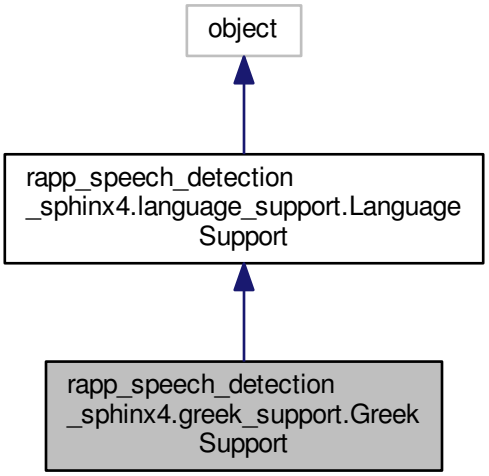
6.24 rapp_speech_detection_sphinx4.greek_support.GreekSupport Class Reference

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:

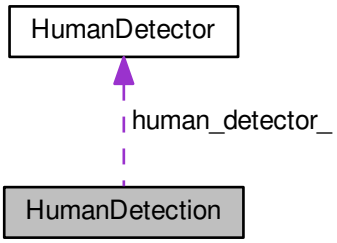
- /home/travis/rapp_temp/rapp-platform/rapp_speech_detection_sphinx4/src/rapp_speech_detection_sphinx4/greek_support.py

6.25 HumanDetection 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::Request & *req*, 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 service 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 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
upperbodyVector	[const std::vector<cv::Rect>&] The second set of humans

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.ImageClassification 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.ImageClassification.__init__ (*self*)

Initializes Caffe.

Definition at line 49 of file image_classification.py.

6.27.3 Member Function Documentation

6.27.3.1 def image_classification.ImageClassification.classifyImage (*self, req*)

Implements the imageClassificationSrv 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.ImageClassification.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.ImageClassification.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.ImageClassification.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-Path	[string] The path of the image file

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.ImageClassification.caffe_root

Definition at line 50 of file image_classification.py.

6.27.4.2 image_classification.ImageClassification.labels

Definition at line 76 of file image_classification.py.

6.27.4.3 image_classification.ImageClassification.net

Definition at line 60 of file image_classification.py.

6.27.4.4 image_classification.ImageClassification.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.ImageRegistrationToOntology 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

  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	AppError

Definition at line 93 of file image_registration_to_ontology.py.

6.28.2.2 def image_registration_to_ontology.ImageRegistrationToOntology.registerImage (*self, req*)

Implements the getCloudAgentServiceTypeAndHostPort service main function.

Parameters

req	[rapp_platform_ros_communications::registerImageToOntologySrvRequest::Request&] The 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.ImageRegistrationToOntology.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-Folder	[string] The path to the image

Returns

registerImageObjectToOntologyResponse.object_entry [string] The ontology alias image entry

Exceptions

Exception	AppError

Definition at line 109 of file image_registration_to_ontology.py.

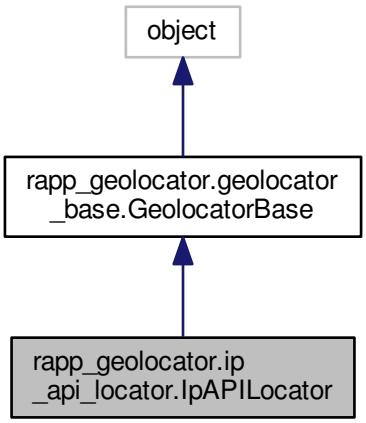
The documentation for this class was generated from the following file:

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

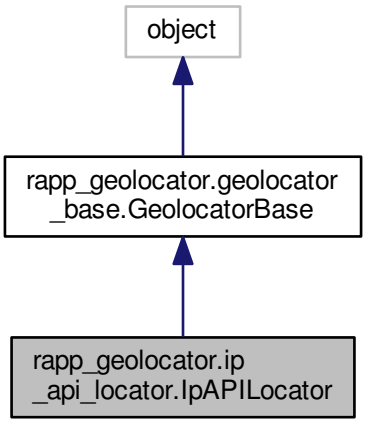
6.29 rapp_geolocator.ip_api_locator.IpAPILocator Class Reference

IP-API locator.

Inheritance diagram for rapp_geolocator.ip_api_locator.IpAPILocator:



Collaboration diagram for rapp_geolocator.ip_api_locator.IpAPILocator:



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.IpAPILocator.__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.IpAPILocator._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.IpAPILocator.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.IpAPILocator._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::ontologyIsSubSuperClassOfSrv::Response isSubSuperclassOfQuery (rapp_platform_ros_communications::ontologyIsSubSuperClassOfSrv::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::recordUserPerformanceCognitiveTestsSrv::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 service 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::clearUserPerformanceCognitveTestsSrv::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

AppError	

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

AppError	

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 request

Returns

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

Parameters

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

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::ontologyIsSubSuperClassOfSrv::Response KnowrobWrapper::isSubSuperclassOfQuery (rapp_platform_ros_communications::ontologyIsSubSuperClassOfSrv::Request *req*)

Implements the isSubSuperclass ROS service.

Parameters

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

Returns

res [rapp_platform_ros_communications::ontologyIsSubSuperClassOfSrv::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 ROS 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.

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 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.

Parameters

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 ROS service request

Returns

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

Parameters

req	[rapp_platform_ros_communications::userPerformanceCognitveTestsSrv::Request&] The ROS 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 json_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:

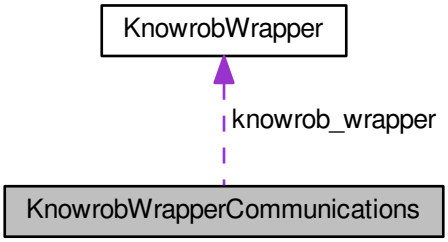
- /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper.h
- /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/src/knowrob_wrapper.cpp

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::recordUserPerformanceCognitiveTestsSrv::Request &req, rapp_platform_ros_communications::recordUserPerformanceCognitiveTestsSrv::Response &res)

  Serves the record_user_cognitive_tests_performance ROS service callback.

- bool 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.

- bool 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.

- 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::returnUserInstancesOfClassSrv::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::userPerformanceCognitveTestsSrv::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
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 service 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 ROS 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::createOntologyAliasSrv::Request & *req*, rapp_platform_ros_communications::createOntologyAliasSrv::Response & *res*)

Serves the create_ontology_alias ROS service callback.

Parameters

req	[rapp_platform_ros_communications::createOntologyAliasSrv::Request&] The ROS service request
res	[rapp_platform_ros_communications::createOntologyAliasSrv::Response&] The ROS service 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::ontologyIsSubSuperClassOfSrv::Request & *req*, rapp_platform_ros_communications::ontologyIsSubSuperClassOfSrv::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 ROS 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::ontologyLoadDumpSrv::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.

Parameters

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::ontologySubSuperClassesOfSrv::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 ROS 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::ontologySubSuperClassesOfSrv::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 ROS 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 ROS 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 ROS 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.

6.32.4.9 ros::ServiceServer KnowrobWrapperCommunications::createInstanceService_ [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]

The is_subsuperclass service server

Definition at line 46 of file knowrob_wrapper_communications.h.

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_cognitve_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_cognitve_tests_topic_ [private]

The create_cognitve_tests service server

Definition at line 81 of file knowrob_wrapper_communications.h.

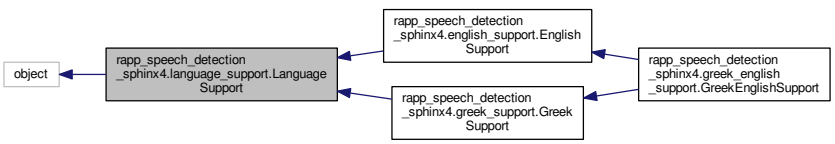
The documentation for this class was generated from the following files:

- /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

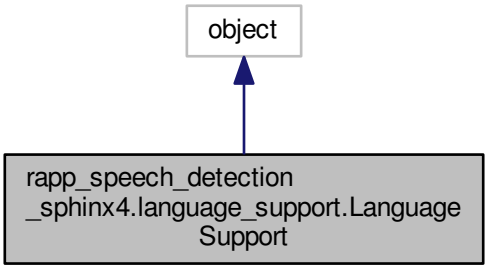
6.33 rapp_speech_detection_sphinx4.language_support.LanguageSupport Class Reference

Allows the creation of configuration files for Sphinx speech recognition.

Inheritance diagram for rapp_speech_detection_sphinx4.language_support.LanguageSupport:



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
grammar	[list::string] The Sphinx grammar parameter
sentences	[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.LimitedVocabularyCreator 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 ROS 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 service 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.

Parameters

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

Definition at line 674 of file mysql_wrapper_old.py.

6.37.3.11 def mysql_wrapper_old.MySQLdbWrapper.tblAppsRobotsFetchDataHandler (*self, req*)

The tbl appsRobots 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 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 service 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 request
res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service response

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 service 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 request
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 service 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 request
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 service response

Definition at line 836 of file mysql_wrapper_old.py.

6.37.3.19 def mysql_wrapper_old.MySQLdbWrapper.tblCloudAgentServiceArgumentsWriteDataHandler (*self, req*)

The tbl cloud_agent_service_arguments write data service callback.

Parameters

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

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 service 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.

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 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 service 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 request
res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service response

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 service 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 request

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

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 service 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 request
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
res	[rapp_platform_ros_communications::updateDataSrvResponse::Response&] The ROS service 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 request
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.

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 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 request
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 def mysql_wrapper_old.MySQLdbWrapper.tblRappWriteDataHandler (*self, req*)

The tbl rapp write data service callback.

Parameters

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

Definition at line 602 of file mysql_wrapper_old.py.

6.37.3.34 def mysql_wrapper_old.MySQLdbWrapper.tblRobotDeleteDataHandler (*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 service 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 request
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 service 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 request
res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service response

Definition at line 634 of file mysql_wrapper_old.py.

6.37.3.38 def mysql_wrapper_old.MySQLdbWrapper.tblUserDeleteDataHandler (*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.

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 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 service 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 request
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 service 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 request

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

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 service 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 request
res	[rapp_platform_ros_communications::writeDataResponse::Response&] The ROS service response

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 service 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 ROS service request
tblName	[string] the table name
res	[rapp_platform_ros_communications::whatRappsCanRunSrvResponse::Response&] The ROS 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 response

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

  Implements the createNewCloudAgent 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

  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 validateExistingPlatformDeviceTokenSrv 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 def mysql_wrapper.MySQLdbWrapper.addStoreTokenToDevice (*self, req*)

Implements the addStoreTokenToDevice 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.

Parameters

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.checkIfUserExists (*self, req*)

Implements the checkIfUserExists service main function.

Parameters

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

Returns

res [rapp_platform_ros_communications::checkIfUserExistsSrvResponse::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.checkIfUserExistsDataHandler (*self, req*)

The checkIfUserExistsSrv service callback.

Parameters

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

Returns

res [rapp_platform_ros_communications::checkIfUserExistsSrvRequest::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 ROS 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 ROS 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.

Parameters

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, req*)

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 def mysql_wrapper.MySQLdbWrapper.getCloudAgentServiceTypeAndHostPort (*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 def mysql_wrapper.MySQLdbWrapper.getLogin (*self*)

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 def mysql_wrapper.MySQLdbWrapper.getTableColumnNames (*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 def mysql_wrapper.MySQLdbWrapper.getUserOntologyAliasDataHandler (*self, req*)

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.

Parameters

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, req*)

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.

Parameters

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.

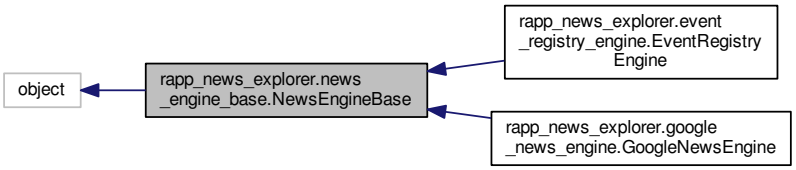
The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-platform/rapp_mysql_wrapper/src/mysql_wrapper.py

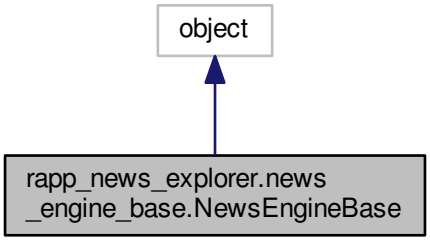
6.39 rapp_news_explorer.news_engine_base.NewsEngineBase Class Reference

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.

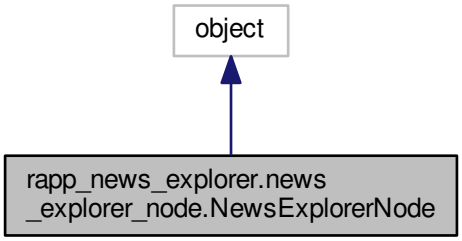
The documentation for this class was generated from the following file:

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

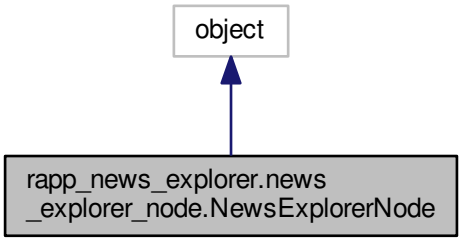
6.40 rapp_news_explorer.news_explorer_node.NewsExplorerNode Class Reference

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.NewsExplorerNode:



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

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

req	[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.

Parameters

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 detemined algorithm.
- std::string setSequenceNR (ros::NodeHandle &nh_, int pathPlanningThreads_)
  Determines next planning seqence (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 detemined 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 seqence (which global_planner and map_server should be used)

Parameters

*&nh_*	[ros::NodeHandle] node handler for getParam() method,
*pathPlanning-Threads_*	[int] Number of planning sequences,

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_start*, 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.

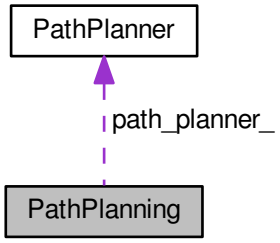
The documentation for this class was generated from the following files:

- /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 seqence (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 seqence (which global_planner and map_server should be used)

Parameters

[navfn::MakeNavPlanRequest]	&req: [std::string] req.user_name - Determine user name - owner of the environment map [std::string] req.map_name - Contains path to the desired map [std::string] req.robot_type - 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/PoseStamped] req.start - Contains start pose of the robot [geometry_msgs/PoseStamped] req.goal - Contains goal pose of the robot
[navfn::MakeNavPlanResponse]	&res: [uint8] res.plan_found: 0 : path cannot be planned. 1 : path found 2 : wrong map name 3 : wrong robot type 4 : wrong algorithm [std::string] res.error_message : error explenation [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_pIDs [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_pIDs [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_pID [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:

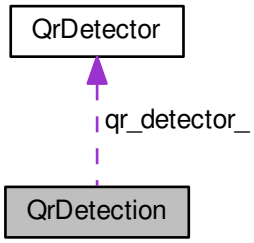
- /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detector.h

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 qr detection ROS service callback.

Parameters

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

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 ontologyClassBridgeSrv 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 def caffe_wrapper.RappCaffeWrapper.imageClassificationDataHandler (*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.

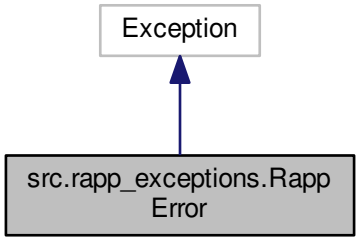
The documentation for this class was generated from the following file:

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

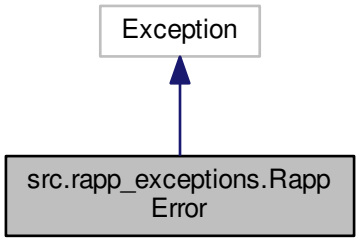
6.48 src.rapp_exceptions.RappError Class Reference

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.

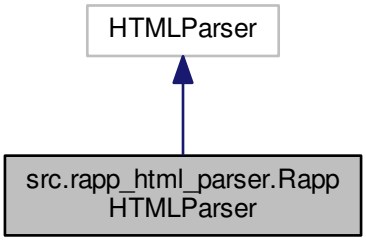
The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_exceptions.py

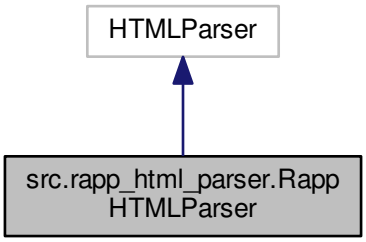
6.49 src.rapp_html_parser.RappHTMLParser Class Reference

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.

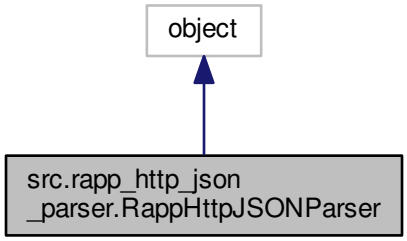
The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_html_parser.py

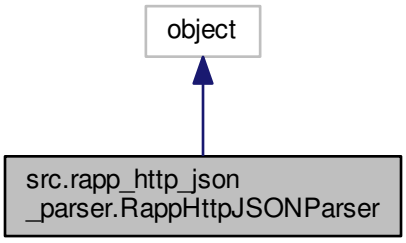
6.50 src.rapp_http_json_parser.RappHttpJSONParser Class Reference

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.

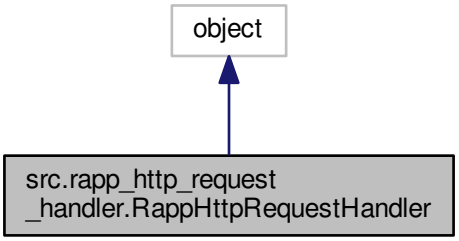
The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_http_json_parser.py

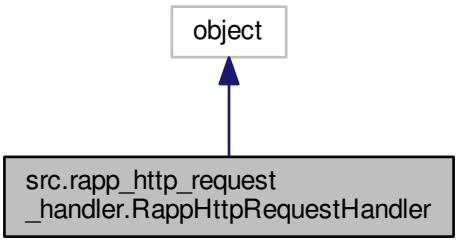
6.51 src.rapp_http_request_handler.RappHttpRequestHandler Class Reference

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.

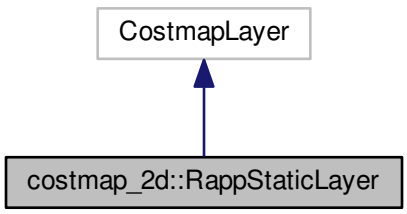
The documentation for this class was generated from the following file:

- /home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp_http_request_handler.py

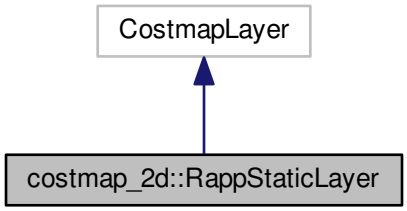
6.52 costmap_2d::RappStaticLayer Class Reference

`#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_j,* 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.

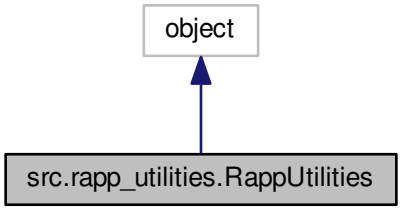
The documentation for this class was generated from the following files:

- /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

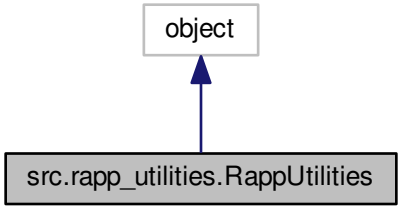
6.53 src.rapp_utilities.RappUtilities Class Reference

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 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_file	[string] Path to write denoised audio 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.SpeechRecognitionSphinx4 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.SpeechRecognitionSphinx4HandlerNode 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

6.56.3.1 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._configureSpeechRecognition (*self, req*) `[private]`

Performs Sphinx4 configuration.

Parameters

req	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::SpeechRecognitionSphinx4ConfigureSrvRequest] The sphinx configuration request

Returns

res [rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::SpeechRecognitionSphinx4ConfigureSrvRequest] 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

configurationName	[string] The preconfiguration name

Definition at line 112 of file speech_recognition_sphinx4.py.

6.56.3.3 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._createSupportConfiguration (*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
req	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::SpeechRecognitionSphinx4ConfigureSrvRequest] 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._selectLanguageSupport (*self, req*) [private]

Choose the language support based on the request language.

Parameters

req	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::SpeechRecognitionSphinx4ConfigureSrvRequest] 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.

6.56.3.5 def rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4._speechRecognition (*self, req*) [private]

Performs Sphinx4 speech recognition.

Parameters

req	[rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::SpeechRecognitionSphinx4SrvRequest] The speech recognition request

Returns

res [rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::SpeechRecognitionSphinx4SrvResponse] 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::SpeechRecognitionSphinx4TotalSrvRequest] The speech recognition request

Returns

res [rapp_platform_ros_communications::SpeechDetectionSphinx4Wrapper::SpeechRecognitionSphinx4TotalSrvResponse] 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.

6.56.4.2 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.SpeechRecognitionSphinx4HandlerNode.__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.SpeechRecognitionSphinx4HandlerNode._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)

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.SpeechRecognitionSphinx4HandlerNode._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.SpeechRecognitionSphinx4HandlerNode.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.SpeechRecognitionSphinx4HandlerNode._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.SpeechRecognitionSphinx4HandlerNode._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.SpeechRecognitionSphinx4HandlerNode._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.SpeechRecognitionSphinx4HandlerNode._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.SpeechRecognitionSphinx4HandlerNode._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 speech_recognition_google.SpeechToTextGoogle.serv_topic

Definition at line 57 of file speech_recognition_google.py.

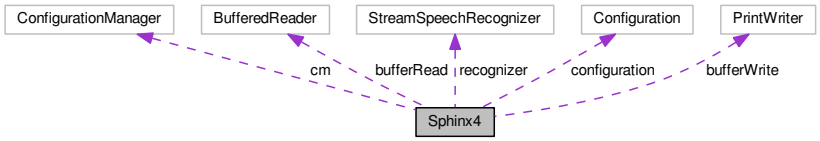
The documentation for this class was generated from the following file:

- /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	[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.

6.60.4.11 rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper._sphinxSubprocess [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.SphinxConfigurationParams 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._readConfigurationYaml (*self*, *confName*) `[private]`

Read the configuration from configuration yaml.

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.

6.61.4.3 rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams._language [private]

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 fromTime and toTime 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-Alias	[string] The user's ontology 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 82 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

fromTime [long] The time from which the performance records are evaluated
toTime [long] The time up to which the performance records are evaluated

Exceptions

Exception	AppError

Definition at line 121 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-Alias	[string] The user's ontology 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 72 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.

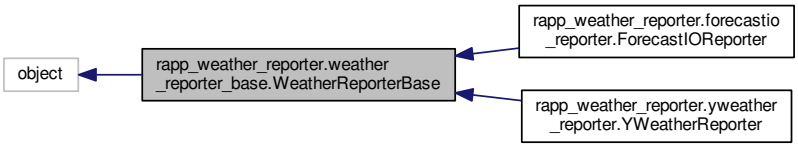
The documentation for this class was generated from the following file:

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

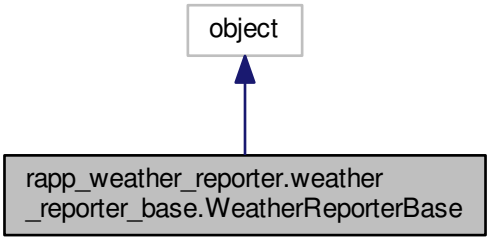
6.67 rapp_weather_reporter.weather_reporter_base.WeatherReporterBase Class Reference

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.

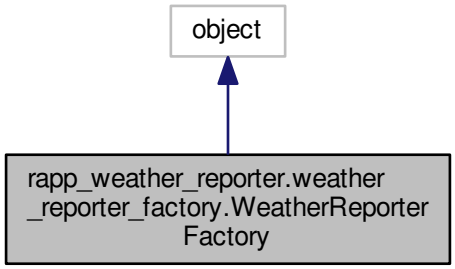
The documentation for this class was generated from the following file:

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

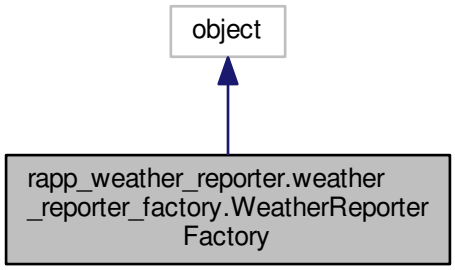
6.68 rapp_weather_reporter.weather_reporter_factory.WeatherReporterFactory Class Reference

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_reporter	[string] The name of the weather 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.

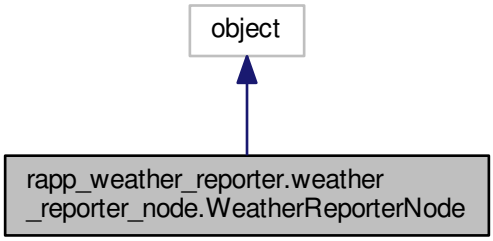
The documentation for this class was generated from the following file:

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

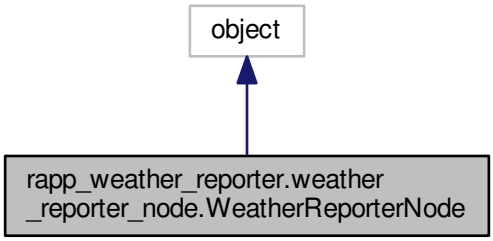
6.69 rapp_weather_reporter.weather_reporter_node.WeatherReporterNode Class Reference

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.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.

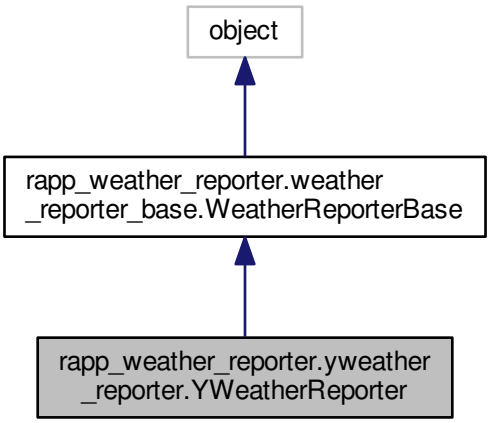
The documentation for this class was generated from the following file:

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

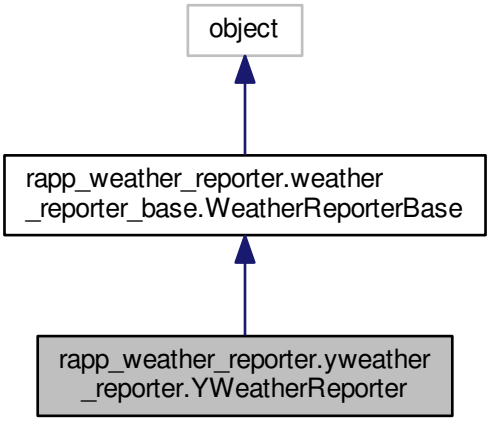
6.70 rapp_weather_reporter.yweather_reporter.YWeatherReporter Class Reference

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.

6.70.3.4 def rapp_weather_reporter.yweather_reporter.YWeatherReporter._handle_weather_forecast_report (*self, report*) [private]

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, req*)

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.py

Chapter 7

File Documentation

7.1 /home/travis/rapp_temp/rapp-platform/rapp_application_authentication_manager/src/rapp-_application_authentication_manager/__init__.py File Reference

Namespaces

- rapp_application_authentication_manager

7.2 /home/travis/rapp_temp/rapp-platform/rapp_audio_processing/src/rapp_audio_-processing/__init__.py File Reference

Namespaces

- rapp_audio_processing

7.3 /home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp_email/__init__.py File Reference

Namespaces

- rapp_email

7.4 /home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp_geolocator/__init_-_.py File Reference

Namespaces

- rapp_geolocator

7.5 /home/travis/rapp_temp/rapp-platform/rapp_news_explorer/src/rapp_news_explorer/-__init__.py File Reference

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.ApplicationAuthenticationManager

  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

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.

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

- class rapp_audio_processing.rapp_transform_audio.TransformAudio
  Provides audio type tranformation functionalities.

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.

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/userScoreHistoryForAllCategories.py File Reference

Classes

- class userScoreHistoryForAllCategories.UserScoreHistoryForAllCategories

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

Namespaces

- userScoreHistoryForAllCategories

7.30 /home/travis/rapp_temp/rapp-platform/rapp_cognitive_exercise/src/userScoresForAllCategories.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

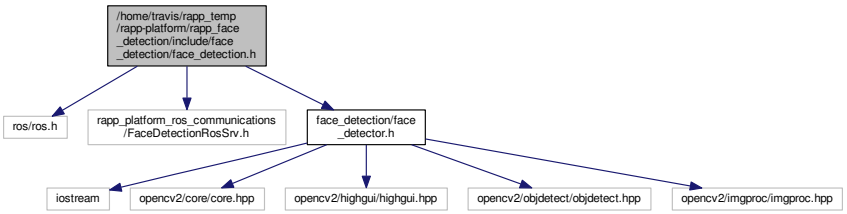
Namespaces

- rapp_email.email_sender

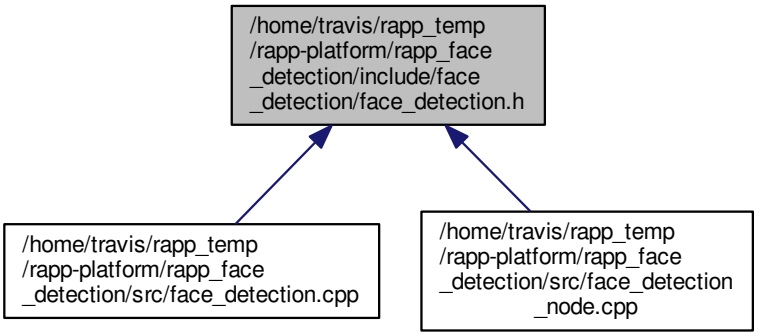
7.34 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/include/face_detection/face_detection.h File Reference

```
#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

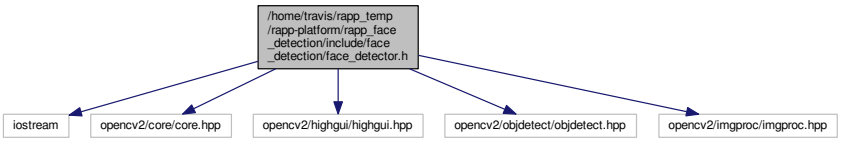
  Class FaceDetection uptakes the task of handling the ROS service callbacks.

7.35 /home/travis/rapp_temp/rapp-platform/rapp_face_detection/include/face_detection/face_detector.h File Reference

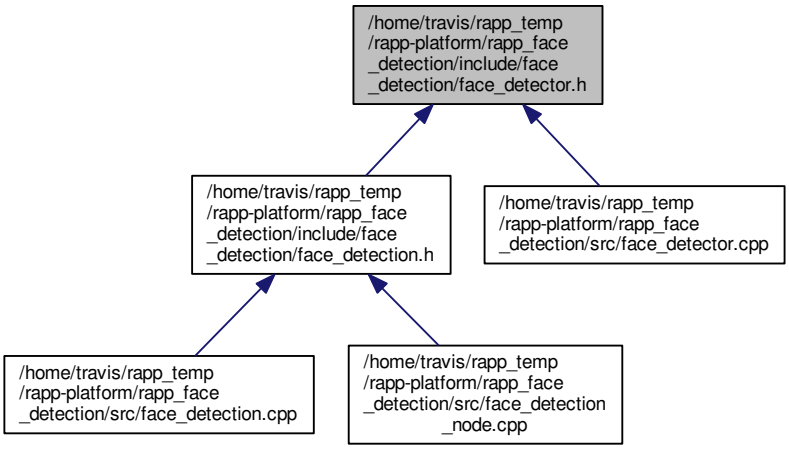
```
#include <iostream>
```

```
#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

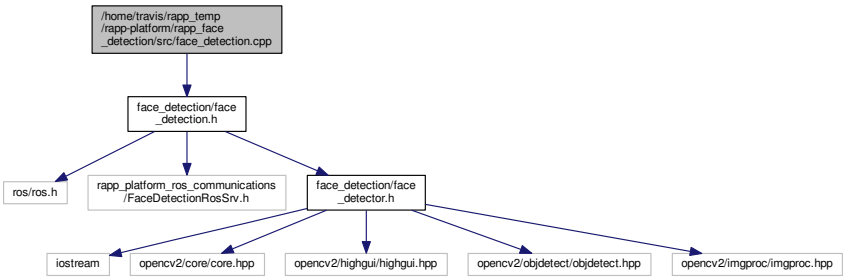
- class FaceDetector

  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

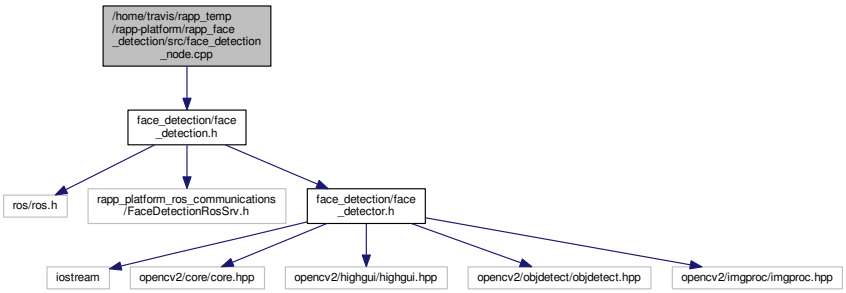
```
#include <face_detection/face_detection.h>
```

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*)

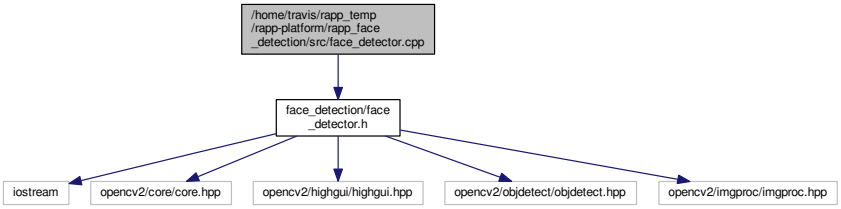
The executable's main function. Creates a ROS multispinner to enable concurrent requests and declares a Face-Detection object.

Definition at line 24 of file face_detection_node.cpp.

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.IpAPILocator

  IP-API locator.

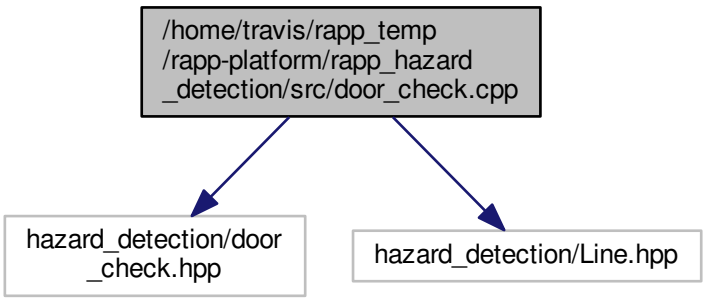
Namespaces

- 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>
```

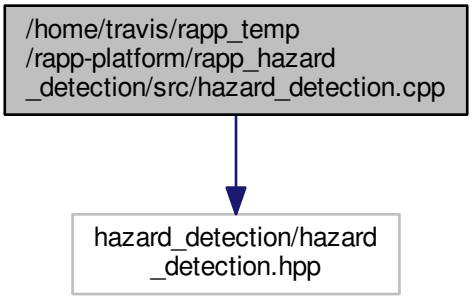
Include dependency graph for door_check.cpp:



7.44 /home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/hazard_detection.cpp File Reference

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

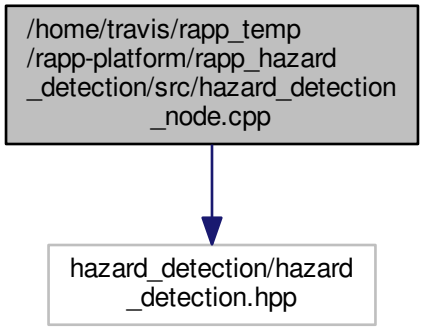
Include dependency graph for hazard_detection.cpp:



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

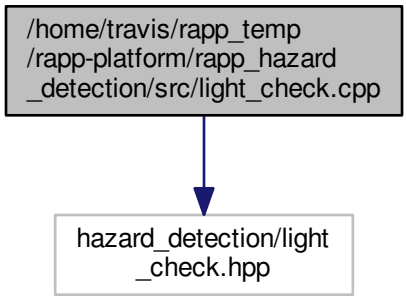
7.45.1.1 int main (int *argc*, char ** *argv*)

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.

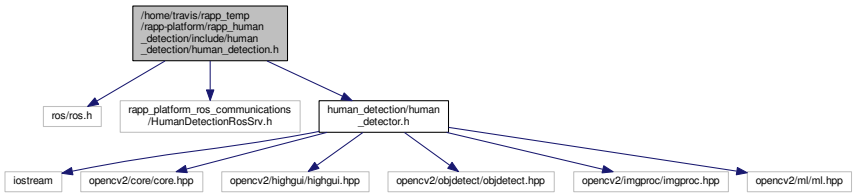
7.46 /home/travis/rapp_temp/rapp-platform/rapp_hazard_detection/src/light_check.cpp File Reference

```
#include <hazard_detection/light_check.hpp>
```
Include dependency graph for light_check.cpp:

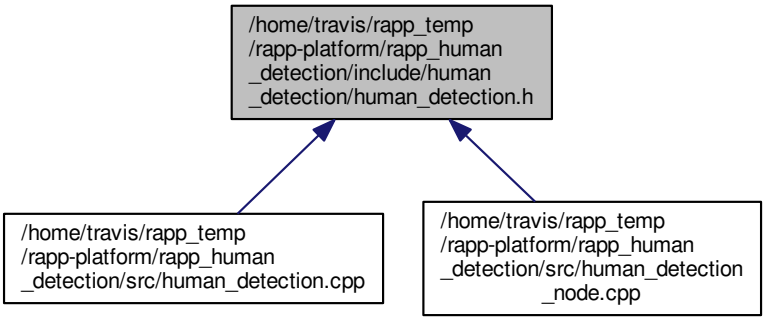


7.47 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/include/human_-detection/human_detection.h File Reference

```
#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

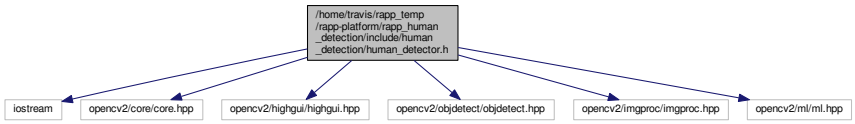
- class HumanDetection

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

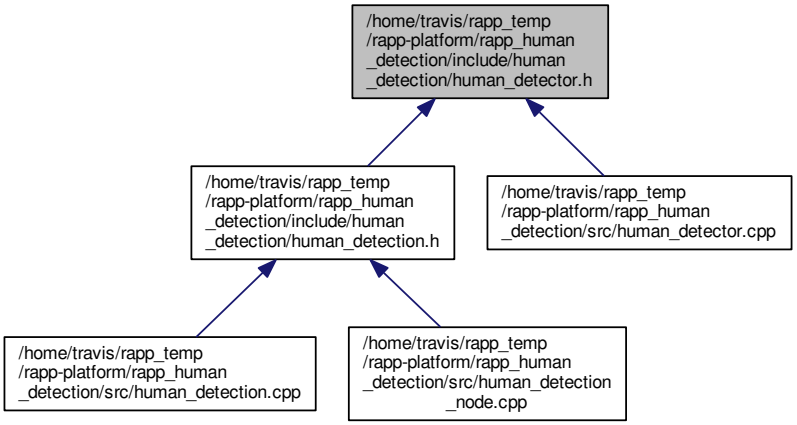
7.48 /home/travis/rapp_temp/rapp-platform/rapp_human_detection/include/human_-detection/human_detector.h File Reference

```
#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

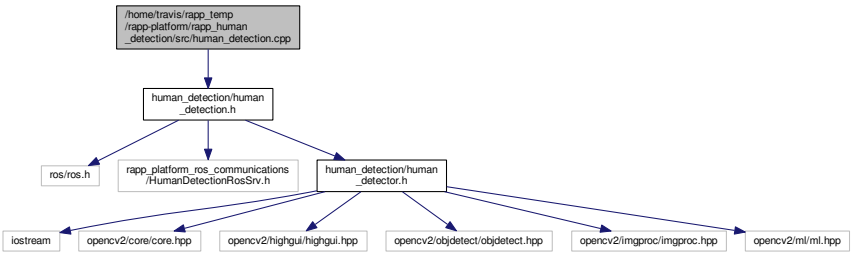
- class HumanDetector

  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>
```

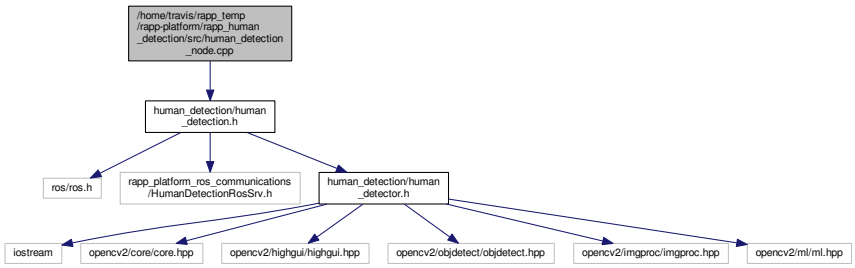
Include dependency graph for human_detection.cpp:



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*)

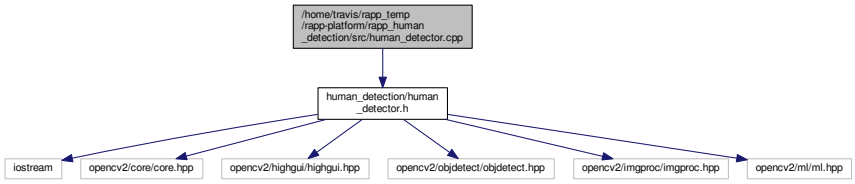
The executable's main function. Creates a ROS multispinner to enable concurrent requests and declares a Human-Detection object.

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:



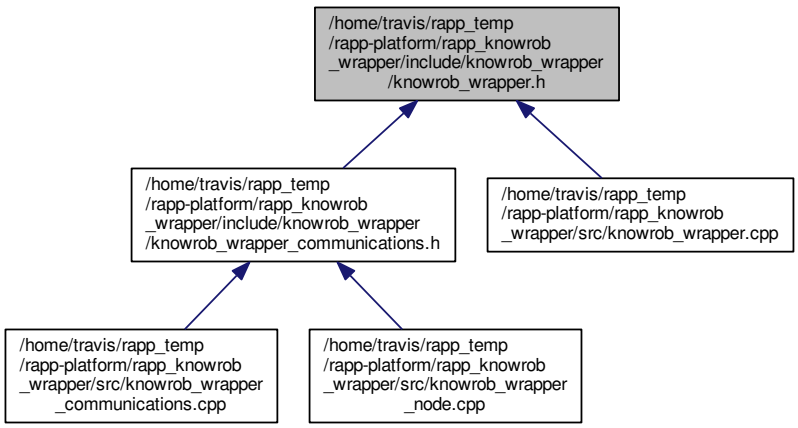
7.52 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper.h File Reference

```
#include <string>
```

```
#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.-
h>
#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-
Srv.h>
#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

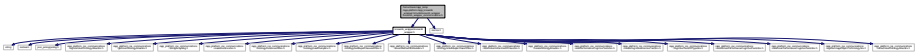
- class KnowrobWrapper

  Class KnowrobWrapperCommunications contains all the necessary knowrob wrapper functions.

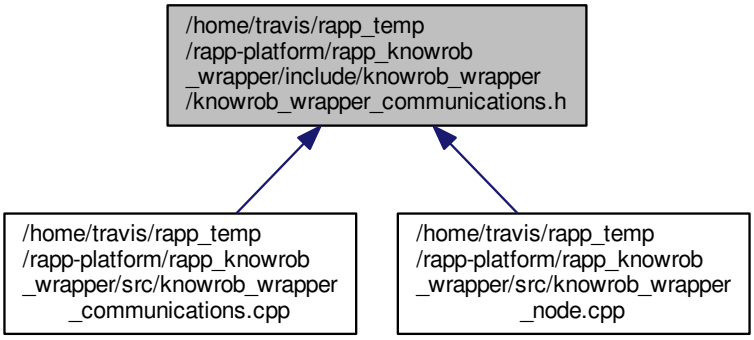
7.53 /home/travis/rapp_temp/rapp-platform/rapp_knowrob_wrapper/include/knowrob_wrapper/knowrob_wrapper_communications.h File Reference

```
#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

  Class KnowrobWrapperCommunications 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 checkIfFileExists (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 checkIfStringContainsString (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 checkIfStringVectorContainsString (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

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.

Parameters

a	[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

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 KnowrobWrapperCommunications 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

- class rapp_news_explorer.event_registry_engine.EventRegistryEngine
  EventRegistry news engine hndler.

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

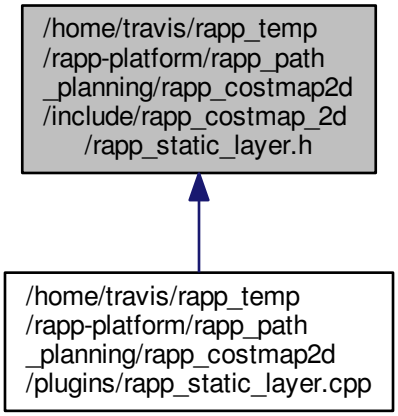
- tuple rapp_news_explorer.news_explorer_node.news_explorer_node = NewsExplorerNode()

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

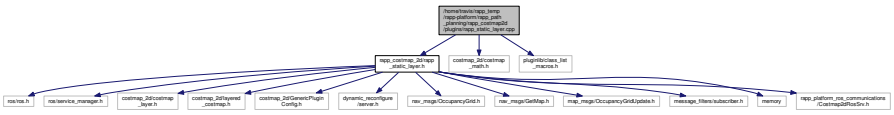
Namespaces

- 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:



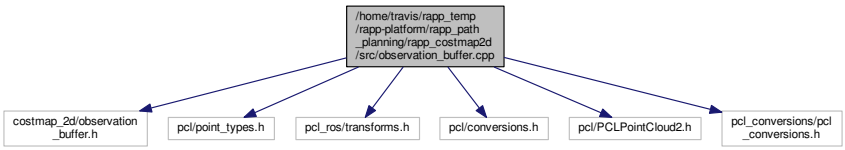
Namespaces

- 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:



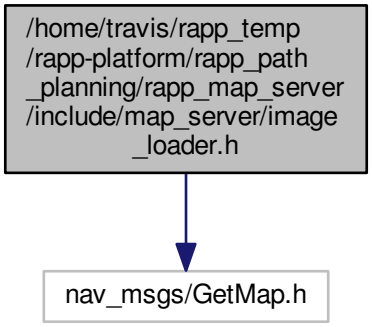
Namespaces

- costmap_2d

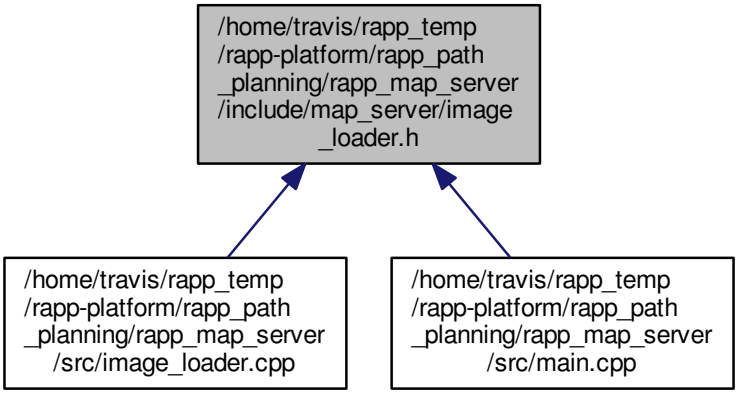
7.68 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_map_server/include/map_server/image_loader.h File Reference

```
#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

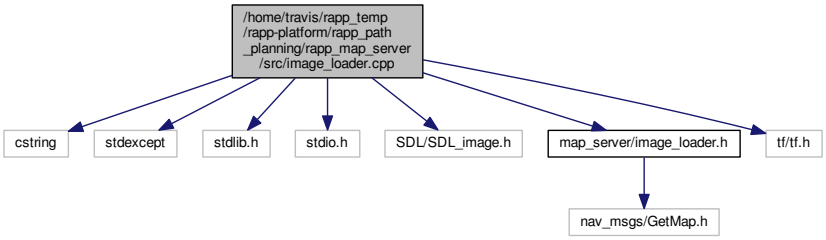
- tuple crop_map.bounds = find_bounds(map_image)
- string crop_map.crop_image = crop_name+".pgm"
- list crop_map.crop_name = sys.argv[2]
- string crop_map.crop_yaml = crop_name+".yaml"
- tuple crop_map.cropped_image = map_image.crop((bounds[0], bounds[2], bounds[1] + 1, bounds[3] + 1))
- tuple crop_map.map_data = 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

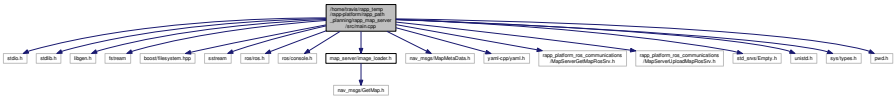
7.70.1.1 #define MAP_IDX(*sx*, *i*, *j*) ((sx) * (j) + (i))

Definition at line 49 of file image_loader.cpp.

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:

```
"\nUSAGE: map_server <map.yaml>\n" \
              "  map.yaml: map description file\n" \
              "DEPRECATED USAGE: map_server <map> <resolution>\n" \
              "  map: image file to load\n"\
              "  resolution: map resolution [meters/pixel]"
```

Definition at line 38 of file main.cpp.

7.71.2 Function Documentation

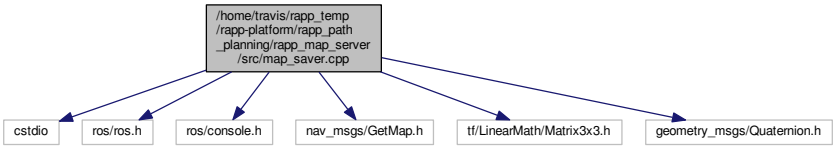
7.71.2.1 int main (int *argc*, char ** *argv*)

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:

```
"Usage: \n" \
             "  map_saver -h\n"\
             "  map_saver [-f <mapname>] [ROS remapping args]"
```

Definition at line 124 of file map_saver.cpp.

7.72.2 Function Documentation

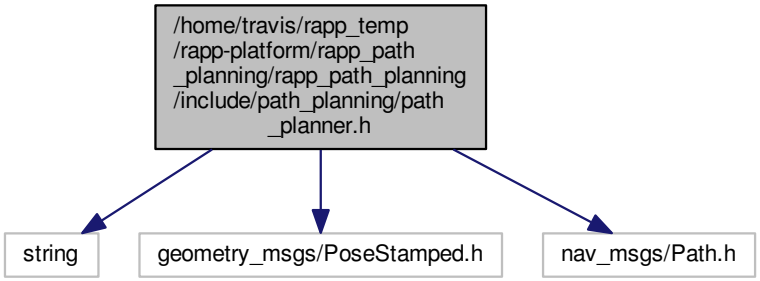
7.72.2.1 int main (int *argc*, char ** *argv*)

Definition at line 128 of file map_saver.cpp.

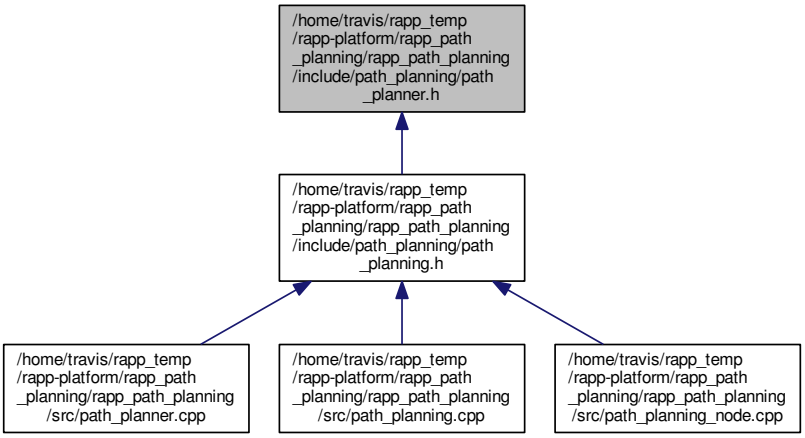
7.73 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/include/path-_planning/path_planner.h File Reference

```
#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

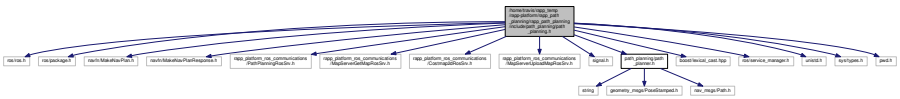
- class PathPlanner

Class that implements a path planning algorithm based on global_planner and map_server ROS nodes.

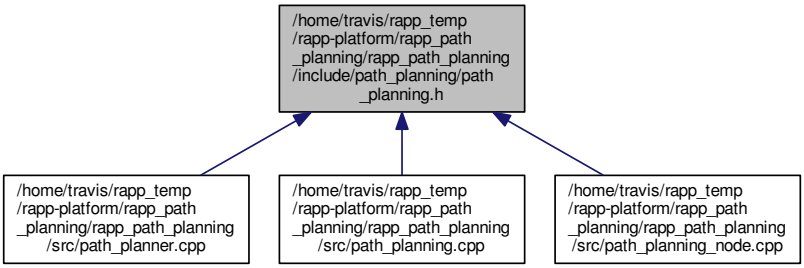
7.74 /home/travis/rapp_temp/rapp-platform/rapp_path_planning/rapp_path_planning/include/path_planning/path_planning.h File Reference

```
#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:



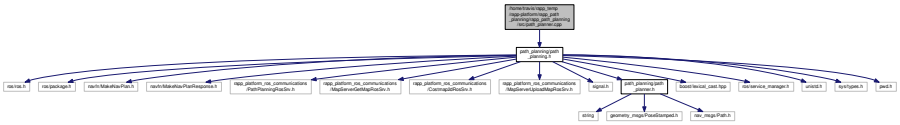
Classes

- 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>
```

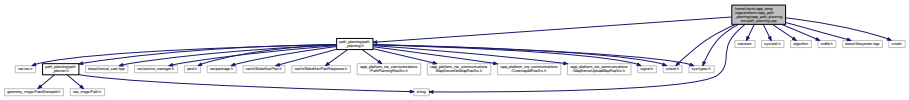
Include dependency graph for path_planner.cpp:



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 < geometry_msgs::PoseStamped > setPoseDist (double pose_dist, std::vector< geometry_msgs::PoseStamped > 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.

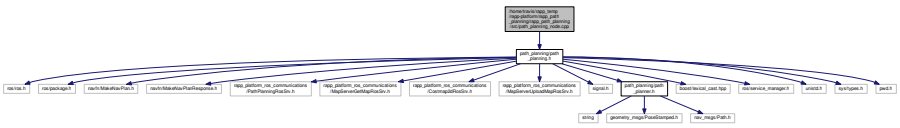
7.76.1.6 pid_t start_tf_publisher ( )

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

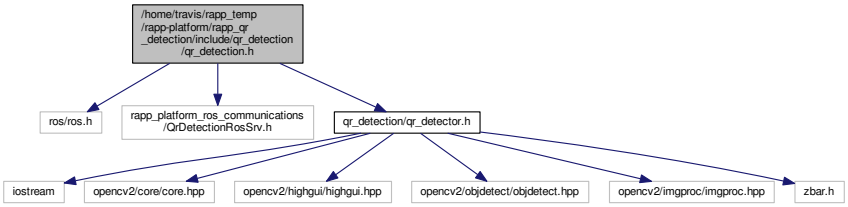
7.77.2.1 PathPlanning* path_planning_

Definition at line 3 of file path_planning_node.cpp.

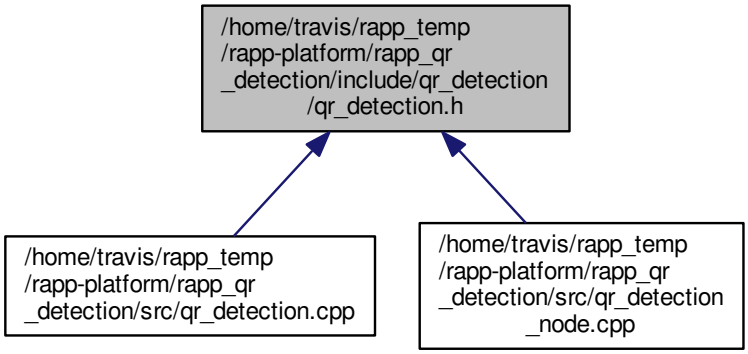
7.78 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detection.h File Reference

```
#include "ros/ros.h"
#include <rapp_platform_ros_communications/QrDetectionRosSrv.h>
#include <qr_detection/qr_detector.h>
```

Include dependency graph for qr_detection.h:



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



Classes

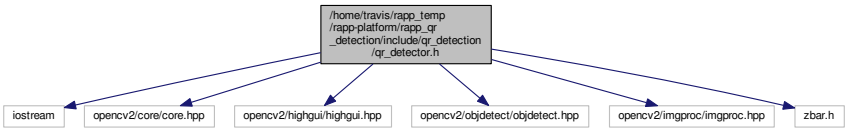
- class QrDetection

  Uptakes the task of setting up the ROS service callbacks towards qr detection.

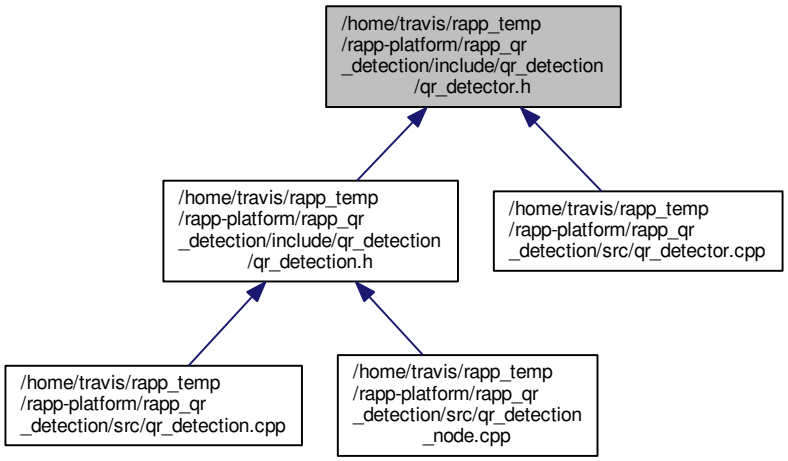
7.79 /home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_detection/qr_detector.h File Reference

```
#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:



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



Classes

- class QrCode

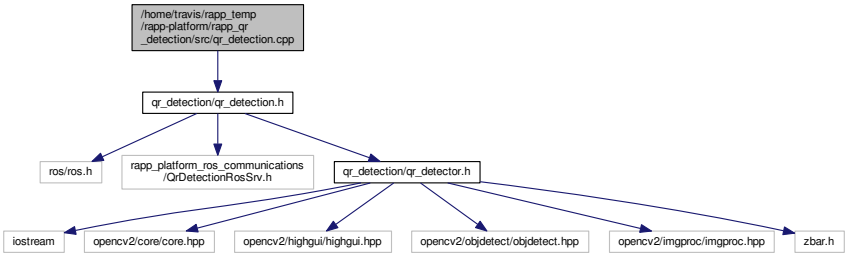
  Structure holding the essential info for a QR code.
- class QrDetector

  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>
```

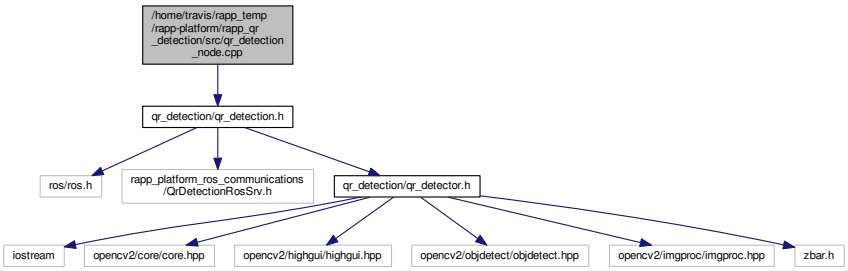
Include dependency graph for qr_detection.cpp:



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*)

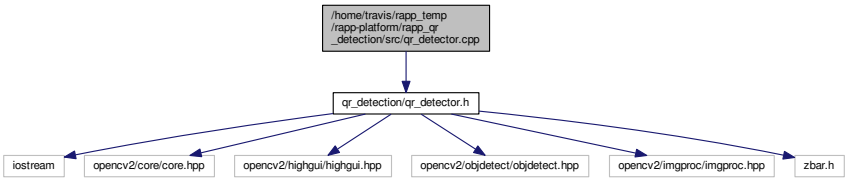
The main function. Retrieves the threads parameter in order to enable concurrent service invocation.

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.

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.SpeechRecognitionSphinx4HandlerNode

  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.RosPack()
- tuple rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node.SpeechRecognitionSphinx4HandlerNode = 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

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

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/weather_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

Index

~PathPlanning
PathPlanning, 178
~RappStaticLayer
costmap_2d::RappStaticLayer, 197
/home/travis/rapp_temp/rapp-platform/rapp_audio_-processing/src/rapp_audio_processing/rapp_-audio_processing.py, 243
/home/travis/rapp_temp/rapp-platform/rapp_audio_-processing/src/rapp_audio_processing/rapp_-detect_silence.py, 243
/home/travis/rapp_temp/rapp-platform/rapp_audio_-processing/src/rapp_audio_processing/rapp_-energy_denoise.py, 243
/home/travis/rapp_temp/rapp-platform/rapp_audio_-processing/src/rapp_audio_processing/rapp_-set_noise_profile.py, 244
/home/travis/rapp_temp/rapp-platform/rapp_audio_-processing/src/rapp_audio_processing/rapp_-sox_denoise.py, 244
/home/travis/rapp_temp/rapp-platform/rapp_audio_-processing/src/rapp_audio_processing/rapp_-transform_audio.py, 244
/home/travis/rapp_temp/rapp-platform/rapp_audio_-processing/src/rapp_audio_processing/rapp_-utilities.py, 244
/home/travis/rapp_temp/rapp-platform/rapp_caffe_-wrapper/src/app_error_exception.py, 245
/home/travis/rapp_temp/rapp-platform/rapp_caffe_-wrapper/src/caffe_wrapper.py, 245
/home/travis/rapp_temp/rapp-platform/rapp_caffe_-wrapper/src/caffe_wrapper_main.py, 246
/home/travis/rapp_temp/rapp-platform/rapp_caffe_-wrapper/src/image_classification.py, 246
/home/travis/rapp_temp/rapp-platform/rapp_caffe_-wrapper/src/image_registration_to_ontology.-py, 246
/home/travis/rapp_temp/rapp-platform/rapp_caffe_-wrapper/src/ontology_class_bridge.py, 246
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_-exercise/src/app_error_exception.py, 245
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_-exercise/src/cognitive_exercise.py, 247
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_-exercise/src/cognitive_exercise_main.py, 247
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_-exercise/src/helper_functions.py, 247
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_-exercise/src/userScoreHistoryForAllCategories.-py, 247
/home/travis/rapp_temp/rapp-platform/rapp_cognitive_-exercise/src/userScoresForAllCategories.py, 248
/home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp-_email/__init__.py, 241
/home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp-_email/email_node.py, 248
/home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp-_email/email_receiver.py, 248
/home/travis/rapp_temp/rapp-platform/rapp_email/src/rapp-_email/email_sender.py, 248
/home/travis/rapp_temp/rapp-platform/rapp_face_-detection/include/face_detection/face_-detection.h, 249
/home/travis/rapp_temp/rapp-platform/rapp_face_-detection/include/face_detection/face_-detector.h, 249
/home/travis/rapp_temp/rapp-platform/rapp_face_-detection/src/face_detection.cpp, 250
/home/travis/rapp_temp/rapp-platform/rapp_face_-detection/src/face_detection_node.cpp, 251
/home/travis/rapp_temp/rapp-platform/rapp_face_-detection/src/face_detector.cpp, 252
/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp-_geolocator/__init__.py, 241
/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp-_geolocator/geolocator_base.py, 252
/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp-_geolocator/geolocator_factory.py, 252
/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp-_geolocator/geolocator_node.py, 252
/home/travis/rapp_temp/rapp-platform/rapp_geolocator/src/rapp-_geolocator/ip_api_locator.py, 253
/home/travis/rapp_temp/rapp-platform/rapp_hazard_-detection/src/door_check.cpp, 253
/home/travis/rapp_temp/rapp-platform/rapp_hazard_-detection/src/hazard_detection.cpp, 253
/home/travis/rapp_temp/rapp-platform/rapp_hazard_-detection/src/hazard_detection_node.cpp, 254
/home/travis/rapp_temp/rapp-platform/rapp_hazard_-detection/src/light_check.cpp, 255
/home/travis/rapp_temp/rapp-platform/rapp_human_-detection/include/human_detection/human_-detection.h, 255
/home/travis/rapp_temp/rapp-platform/rapp_human_-detection/include/human_detection/human_-detector.h, 256
/home/travis/rapp_temp/rapp-platform/rapp_human_-

detection/src/human_detection.cpp, 257
/home/travis/rapp_temp/rapp-platform/rapp_human_-detection/src/human_detection_node.cpp, 257
/home/travis/rapp_temp/rapp-platform/rapp_human_-detection/src/human_detector.cpp, 258
/home/travis/rapp_temp/rapp-platform/rapp_knowrob_-wrapper/include/knowrob_wrapper/knowrob_-wrapper.h, 258
/home/travis/rapp_temp/rapp-platform/rapp_knowrob_-wrapper/include/knowrob_wrapper/knowrob_-wrapper_communications.h, 260
/home/travis/rapp_temp/rapp-platform/rapp_knowrob_-wrapper/src/knowrob_wrapper.cpp, 260
/home/travis/rapp_temp/rapp-platform/rapp_knowrob_-wrapper/src/knowrob_wrapper_communications.-cpp, 263
/home/travis/rapp_temp/rapp-platform/rapp_knowrob_-wrapper/src/knowrob_wrapper_node.cpp, 264
/home/travis/rapp_temp/rapp-platform/rapp_mysql_-wrapper/src/mysql_wrapper.py, 264
/home/travis/rapp_temp/rapp-platform/rapp_mysql_-wrapper/src/mysql_wrapper_main.py, 264
/home/travis/rapp_temp/rapp-platform/rapp_mysql_-wrapper/src/mysql_wrapper_old.py, 265
/home/travis/rapp_temp/rapp-platform/rapp_news_-explorer/src/rapp_news_explorer/engine_-factory.py, 265
/home/travis/rapp_temp/rapp-platform/rapp_news_-explorer/src/rapp_news_explorer/event_-registry_engine.py, 265
/home/travis/rapp_temp/rapp-platform/rapp_news_-explorer/src/rapp_news_explorer/google_-news_engine.py, 265
/home/travis/rapp_temp/rapp-platform/rapp_news_-explorer/src/rapp_news_explorer/news_-engine_base.py, 266
/home/travis/rapp_temp/rapp-platform/rapp_news_-explorer/src/rapp_news_explorer/news_-explorer_node.py, 266
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_costmap2d/include/rapp_-costmap_2d/rapp_static_layer.h, 266
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_costmap2d/plugins/rapp_-static_layer.cpp, 267
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_costmap2d/src/observation_-buffer.cpp, 268
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_map_server/include/map_-server/image_loader.h, 268
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_map_server/scripts/crop_-map.py, 269
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_map_server/src/image_-loader.cpp, 270
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_map_server/src/main.cpp, 271
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_map_server/src/map_saver.-cpp, 272
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_path_planning/include/path_-planning/path_planner.h, 273
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_path_planning/include/path_-planning/path_planning.h, 274
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_path_planning/src/path_-planner.cpp, 274
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_path_planning/src/path_-planning.cpp, 275
/home/travis/rapp_temp/rapp-platform/rapp_path_-planning/rapp_path_planning/src/path_-planning_node.cpp, 276
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_-detection/qr_detection.h, 277
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/include/qr_-detection/qr_detector.h, 278
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_-detection.cpp, 278
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_-detection_node.cpp, 279
/home/travis/rapp_temp/rapp-platform/rapp_qr_detection/src/qr_-detector.cpp, 279
/home/travis/rapp_temp/rapp-platform/rapp_speech_-detection_google/src/speech_recognition_-google.py, 280
/home/travis/rapp_temp/rapp-platform/rapp_speech_-detection_sphinx4/src/Sphinx4.java, 283
/home/travis/rapp_temp/rapp-platform/rapp_speech-_detection_sphinx4/src/rapp_speech_-detection_sphinx4/english_support.py, 280
/home/travis/rapp_temp/rapp-platform/rapp_speech-_detection_sphinx4/src/rapp_speech_-detection_sphinx4/global_parameters.py, 280
/home/travis/rapp_temp/rapp-platform/rapp_speech-_detection_sphinx4/src/rapp_speech_-detection_sphinx4/greek_support.py, 281
/home/travis/rapp_temp/rapp-platform/rapp_speech-_detection_sphinx4/src/rapp_speech_-detection_sphinx4/language_support.py, 281
/home/travis/rapp_temp/rapp-platform/rapp_speech-_detection_sphinx4/src/rapp_speech_-detection_sphinx4/sphinx4_wrapper.py, 283
/home/travis/rapp_temp/rapp-platform/rapp_text_to_-speech_espeak/src/text_to_speech_espeak.-py, 283
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/-__init__.py, 242
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp-_exceptions.py, 284
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp-

_html_parser.py, 284
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp-_http_json_parser.py, 284
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp-_http_request_handler.py, 284
/home/travis/rapp_temp/rapp-platform/rapp_utilities/src/rapp-_utilities.py, 245
/home/travis/rapp_temp/rapp-platform/rapp_weather_-reporter/src/rapp_weather_reporter/forecastio-_reporter.py, 285
/home/travis/rapp_temp/rapp-platform/rapp_weather_-reporter/src/rapp_weather_reporter/weather-_reporter_base.py, 285
/home/travis/rapp_temp/rapp-platform/rapp_weather_-reporter/src/rapp_weather_reporter/weather-_reporter_factory.py, 285
/home/travis/rapp_temp/rapp-platform/rapp_weather_-reporter/src/rapp_weather_reporter/weather-_reporter_node.py, 285
/home/travis/rapp_temp/rapp-platform/rapp_weather_-reporter/src/rapp_weather_reporter/yweather-_reporter.py, 286
__init__
app_error_exception::AppError, 30
caffe_wrapper::RappCaffeWrapper, 184
cognitive_exercise::CognitiveExercise, 39
image_classification::ImageClassification, 99
mysql_wrapper::MySQLdbWrapper, 154
mysql_wrapper_old::MySQLdbWrapper, 141
rapp_application_authentication_manager::application-_authentication_node::ApplicationAuthentication-Manager, 32
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 46
rapp_audio_processing::rapp_audio_processing::-AudioProcessing, 36
rapp_audio_processing::rapp_set_noise_profile::-SetNoiseProfile, 202
rapp_email::email_receiver::EmailReceiver, 54
rapp_email::email_sender::EmailSender, 56
rapp_geolocator::geolocator_base::Geolocator-Base, 76
rapp_geolocator::geolocator_node::Geolocator-Node, 79
rapp_geolocator::ip_api_locator::IpAPILocator, 105
rapp_news_explorer::event_registry_engine::-EventRegistryEngine, 64
rapp_news_explorer::google_news_engine::-GoogleNewsEngine, 84
rapp_news_explorer::news_engine_base::News-EngineBase, 171
rapp_news_explorer::news_explorer_node::News-ExplorerNode, 173
rapp_speech_detection_sphinx4::english_support-::EnglishSupport, 61
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 81
rapp_speech_detection_sphinx4::greek_english_-support::GreekEnglishSupport, 86
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 91
rapp_speech_detection_sphinx4::language_-support::LanguageSupport, 132
rapp_speech_detection_sphinx4::limited_vocabulary-_creator::LimitedVocabularyCreator, 134
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 204
rapp_speech_detection_sphinx4::sphinx4_-configuration_params::SphinxConfiguration-Params, 220
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 216
rapp_weather_reporter::forecastio_reporter::-ForecastIOReporter, 73
rapp_weather_reporter::weather_reporter_base::-WeatherReporterBase, 231
rapp_weather_reporter::weather_reporter_node::-WeatherReporterNode, 235
rapp_weather_reporter::yweather_reporter::Y-WeatherReporter, 238
speech_recognition_google::SpeechToText-Google, 211
src::rapp_exceptions::RappError, 188
src::rapp_html_parser::RappHTMLParser, 189
src::rapp_http_json_parser::RappHttpJSON-Parser, 191
src::rapp_http_request_handler::RappHttpRequest-Handler, 194
src::rapp_utilities::RappUtilities, 201
text_to_speech_espeak::TextToSpeechEspeak, 223
__metaclass__
rapp_geolocator::geolocator_base::Geolocator-Base, 76
rapp_news_explorer::news_engine_base::News-EngineBase, 171
rapp_weather_reporter::weather_reporter_base::-WeatherReporterBase, 231
__str__
src::rapp_exceptions::RappError, 188
_accepted_status
rapp_geolocator::geolocator_base::Geolocator-Base, 76
rapp_news_explorer::news_engine_base::News-EngineBase, 171
rapp_weather_reporter::weather_reporter_base::-WeatherReporterBase, 231
src::rapp_http_request_handler::RappHttpRequest-Handler, 194
_acoustic_models_url
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 81
_add_new_user_proxy
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 50
_all_special_two_digit_letters

rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 93
_allow_sphinx_output
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 81
_api_key
rapp_weather_reporter::forecastio_reporter::-ForecastIOReporter, 74
_assertArgs
rapp_audio_processing::rapp_transform_audio::-TransformAudio, 224
_audio_transform_srv
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 218
_availableProcesses
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4_handler_node::SpeechRecognition-Sphinx4HandlerNode, 209
_calculateRequestHash
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4_handler_node::SpeechRecognition-Sphinx4HandlerNode, 208
_callSphinxJava
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 216
_capital_letters
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 93
_client
rapp_weather_reporter::yweather_reporter::Y-WeatherReporter, 239
_conf
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 218
_configuration_params
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 206
_configureLetters
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 91
_configureSpeechRecognition
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 204
_connectAndSend
rapp_email::email_sender::EmailSender, 56
_connectImap
rapp_email::email_receiver::EmailReceiver, 54
_convertType
rapp_audio_processing::rapp_transform_audio::-TransformAudio, 224
_createEmailBody
rapp_email::email_sender::EmailSender, 57
_createPreconfiguration
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 205
_createProcessingProfile
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 216
_createSocket
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 216
_createSupportConfiguration
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 205
_create_current_service_response
rapp_weather_reporter::weather_reporter_node::-WeatherReporterNode, 235
_create_forecast_service_response
rapp_weather_reporter::weather_reporter_node::-WeatherReporterNode, 235
_create_new_app_token_proxy
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 50
_create_service_response
rapp_geolocator::geolocator_node::Geolocator-Node, 79
rapp_news_explorer::news_explorer_node::News-ExplorerNode, 173
_db_handler
rapp_application_authentication_manager::application-_authentication_node::ApplicationAuthentication-Manager, 35
_denoise_service
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 218
_detect_silence_module
rapp_audio_processing::rapp_audio_processing::-AudioProcessing, 37
_detect_silence_service
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 218
_energy_denoise_module
rapp_audio_processing::rapp_audio_processing::-AudioProcessing, 37
_energy_denoise_service
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 218
_energy_denoising_debug
rapp_audio_processing::rapp_audio_processing::-AudioProcessing, 37
_engine_factory
rapp_news_explorer::news_explorer_node::News-ExplorerNode, 174
_englify_words
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 91
_english_dict_file
rapp_speech_detection_sphinx4::english_support-::EnglishSupport, 62
_english_dict_mapping
rapp_speech_detection_sphinx4::english_support-::EnglishSupport, 62
_english_support
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 93
rapp_speech_detection_sphinx4::speech_recognition-

_sphinx4::SpeechRecognitionSphinx4, 206
_event_handler
rapp_news_explorer::event_registry_engine::-EventRegistryEngine, 64
_fetchEmail
rapp_email::email_receiver::EmailReceiver, 54
_fetch_city_id
rapp_weather_reporter::yweather_reporter::Y-WeatherReporter, 238
_fetch_yweather_report
rapp_weather_reporter::yweather_reporter::Y-WeatherReporter, 238
_generic_sphinx_configuration
rapp_speech_detection_sphinx4::language_-support::LanguageSupport, 133
_geolocator_factory
rapp_geolocator::geolocator_node::Geolocator-Node, 80
_getPreconfigurationNames
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4_handler_node::SpeechRecognition-Sphinx4HandlerNode, 209
_get_fio_object
rapp_weather_reporter::forecastio_reporter::-ForecastIOReporter, 73
_get_token_user_proxy
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 50
_get_user_passwd_proxy
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 51
_globalParams
rapp_speech_detection_sphinx4::language_-support::LanguageSupport, 133
rapp_speech_detection_sphinx4::limited_vocabulary-_creator::LimitedVocabularyCreator, 135
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 207
rapp_speech_detection_sphinx4::sphinx4_-configuration_params::SphinxConfiguration-Params, 221
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 219
_grammar
rapp_speech_detection_sphinx4::sphinx4_-configuration_params::SphinxConfiguration-Params, 222
_greek_support
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 207
_handleAttachment
rapp_email::email_sender::EmailSender, 57
_handle_current_weather_report
rapp_weather_reporter::forecastio_reporter::-ForecastIOReporter, 73
rapp_weather_reporter::yweather_reporter::Y-WeatherReporter, 238
_handle_params
rapp_news_explorer::google_news_engine::-GoogleNewsEngine, 84
_handle_server_response
rapp_geolocator::ip_api_locator::IpAPILocator, 106
rapp_news_explorer::google_news_engine::-GoogleNewsEngine, 84
_handle_weather_forecast_report
rapp_weather_reporter::forecastio_reporter::-ForecastIOReporter, 73
rapp_weather_reporter::yweather_reporter::Y-WeatherReporter, 238
_headers
src::rapp_http_request_handler::RappHttpRequest-Handler, 194
_html_parser
src::rapp_http_json_parser::RappHttpJSON-Parser, 192
_http_request
rapp_geolocator::geolocator_base::Geolocator-Base, 76
rapp_news_explorer::news_engine_base::News-EngineBase, 171
rapp_weather_reporter::weather_reporter_base::-WeatherReporterBase, 231
_initializePath
rapp_email::email_receiver::EmailReceiver, 54
_initializeSphinxProcess
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 217
_jar_path
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 219
_language
rapp_speech_detection_sphinx4::sphinx4_-configuration_params::SphinxConfiguration-Params, 222
_language_models_url
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 81
_languages_package
rapp_speech_detection_sphinx4::limited_vocabulary-_creator::LimitedVocabularyCreator, 135
_letters
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 93
_literal_letters
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 93
_lock
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4_handler_node::SpeechRecognition-Sphinx4HandlerNode, 209
_max_requests
rapp_news_explorer::event_registry_engine::-EventRegistryEngine, 64
rapp_news_explorer::google_news_engine::-GoogleNewsEngine, 85
_max_stories

rapp_news_explorer::event_registry_engine::-EventRegistryEngine, 64
rapp_news_explorer::google_news_engine::-GoogleNewsEngine, 85
_modify_response
src::rapp_http_request_handler::RappHttpRequest-Handler, 194
_noise_profiles_url
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 81
_params
rapp_news_explorer::google_news_engine::-GoogleNewsEngine, 85
src::rapp_http_request_handler::RappHttpRequest-Handler, 194
_password
rapp_news_explorer::event_registry_engine::-EventRegistryEngine, 64
_performEnergyDenoising
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 217
_phonemes
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 93
_readConfigurationYaml
rapp_speech_detection_sphinx4::sphinx4_-configuration_params::SphinxConfiguration-Params, 220
_readLine
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 217
_respawnSphinx
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 217
_response_format
src::rapp_http_request_handler::RappHttpRequest-Handler, 194
_s_specific_rules
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 93
_selectEmails
rapp_email::email_receiver::EmailReceiver, 55
_selectLanguageSupport
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 205
_sentences
rapp_speech_detection_sphinx4::sphinx4_-configuration_params::SphinxConfiguration-Params, 222
_separateEngGrWords
rapp_speech_detection_sphinx4::greek_english_-support::GreekEnglishSupport, 87
_server_timeout
src::rapp_http_request_handler::RappHttpRequest-Handler, 195
_set_noise_profile_module
rapp_audio_processing::rapp_audio_processing::-AudioProcessing, 38
_socket_host
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 81
_sox_denoise_module
rapp_audio_processing::rapp_audio_processing::-AudioProcessing, 38
_special_two_digit_letters
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 93
_speechRecognition
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 205
_sphinx4
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 207
_sphinxDied
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 219
_sphinxSubprocess
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 219
_sphinx_configuration
rapp_speech_detection_sphinx4::limited_vocabulary-_creator::LimitedVocabularyCreator, 135
_sphinx_jar_file
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 81
_sphinx_jar_files_url
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 81
_sphinx_package_url
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 82
_sphinx_preconf
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 82
_sphinx_socket
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 219
_sphinx_socket_PORT
rapp_speech_detection_sphinx4::sphinx4_-wrapper::Sphinx4Wrapper, 219
_threadCounter
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4_handler_node::SpeechRecognition-Sphinx4HandlerNode, 210
_threads
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4_handler_node::SpeechRecognition-Sphinx4HandlerNode, 210
_tmp_language_models_url
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 82
_transformWords
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 91
_transform_audio_module
rapp_audio_processing::rapp_audio_processing::-

AudioProcessing, 38
_two_digit_letters
rapp_speech_detection_sphinx4::greek_support::-GreekSupport, 94
_url
rapp_geolocator::geolocator_base::Geolocator-Base, 76
rapp_geolocator::ip_api_locator::IpAPILocator, 106
rapp_news_explorer::google_news_engine::-GoogleNewsEngine, 85
rapp_news_explorer::news_engine_base::News-EngineBase, 171
rapp_weather_reporter::weather_reporter_base::-WeatherReporterBase, 231
src::rapp_http_request_handler::RappHttpRequest-Handler, 195
_username
rapp_news_explorer::event_registry_engine::-EventRegistryEngine, 65
_username_exists_proxy
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 51
_utilities_module
rapp_audio_processing::rapp_audio_processing::-AudioProcessing, 38
_validateSourceType
rapp_audio_processing::rapp_transform_audio::-TransformAudio, 224
_validate_existing_device_token_proxy
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 51
_validate_user_role_proxy
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 51
_validate_username_format
rapp_application_authentication_manager::application-_authentication_node::ApplicationAuthentication-Manager, 32
_verify_appl_token_proxy
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 51
_verify_new_username_uniqueness
rapp_application_authentication_manager::application-_authentication_node::ApplicationAuthentication-Manager, 32
_verify_robot_session_proxy
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 51
_verify_user_credentials
rapp_application_authentication_manager::application-_authentication_node::ApplicationAuthentication-Manager, 33
_vocabulary
rapp_speech_detection_sphinx4::language_-support::LanguageSupport, 133
_weather_reporter_factory
rapp_weather_reporter::weather_reporter_node::-WeatherReporterNode, 236
_word_mapping
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 207
_words
rapp_speech_detection_sphinx4::sphinx4_-configuration_params::SphinxConfiguration-Params, 222

acoustic_model_path
Sphinx4, 213
acoustic_model_path_prev
Sphinx4, 213
activate
costmap_2d::RappStaticLayer, 197
add_new_user
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 46
add_store_token_to_device
rapp_application_authentication_manager::database-_handler::DatabaseHandler, 46
addStoreTokenToDevice
mysql_wrapper::MySQLdbWrapper, 155
addStoreTokenToDeviceDataHandler
mysql_wrapper::MySQLdbWrapper, 156
app_error_exception, 13
app_error_exception.AppError, 29
app_error_exception::AppError
__init__, 30
args, 31
passErrorToRosSrv, 30
application_authentication_ros_node
rapp_application_authentication_manager::application-_authentication_node, 18
args
app_error_exception::AppError, 31
assertAttributeValue
KnowrobWrapper, 108
assignTestHistoryForTestCategoriesToSrv
userScoreHistoryForAllCategories::UserScore-HistoryForAllCategories, 226
AudioProcessingNode
rapp_audio_processing::rapp_audio_processing, 19
authTokenByService
mysql_wrapper_old::MySQLdbWrapper, 141
authTokenByServiceDataHandler
mysql_wrapper_old::MySQLdbWrapper, 141
authenticate_token_callback
rapp_application_authentication_manager::application-_authentication_node::ApplicationAuthentication-Manager, 34

bounds
crop_map, 15
bufferRead
Sphinx4, 213
bufferWrite
Sphinx4, 213

caffe_root
image_classification::ImageClassification, 102
caffe_wrapper, 13
caffe_wrapper.RappCaffeWrapper, 184
caffe_wrapper::RappCaffeWrapper
__init__, 184
imageClassificationDataHandler, 185
ontologyClassBridgeDataHandler, 186
registerImageToOntologyDataHandler, 186
serv, 186
serv_topic, 186
caffe_wrapper_main, 13
RappCaffeWrapperNode, 13
calculateUserScoresForCategories
userScoresForAllCategories::UserScoresForAll-
Categories, 228
center
QrCode, 180
checkActiveApplicationToken
mysql_wrapper::MySQLdbWrapper, 156
checkActiveApplicationTokenDataHandler
mysql_wrapper::MySQLdbWrapper, 156
checkActiveRobotSession
mysql_wrapper::MySQLdbWrapper, 157
checkActiveRobotSessionDataHandler
mysql_wrapper::MySQLdbWrapper, 157
checkConnection
mysql_wrapper::MySQLdbWrapper, 157
mysql_wrapper_old::MySQLdbWrapper, 141
checkIfFileExists
knowrob_wrapper.cpp, 261
checkIfStringContainsString
knowrob_wrapper.cpp, 261
checkIfStringVectorContainsString
knowrob_wrapper.cpp, 261
checkIfUserExists
mysql_wrapper::MySQLdbWrapper, 157
checkIfUserExistsDataHandler
mysql_wrapper::MySQLdbWrapper, 159
chooserDataHandler
cognitive_exercise::CognitiveExercise, 39
classifyImage
image_classification::ImageClassification, 100
cleanup
rapp_audio_processing::rapp_utilities::Utilities, 229
clear_user_cognitive_tests_performance_records
KnowrobWrapper, 108
clear_user_cognitive_tests_performance_records_-
callback
KnowrobWrapperCommunications, 122
clear_user_cognitive_tests_performance_records_-
service_
KnowrobWrapperCommunications, 127
clear_user_cognitive_tests_performance_records_-
topic_
KnowrobWrapperCommunications, 127
cm
Sphinx4, 213
cognitive_exercise, 13
cognitive_exercise.CognitiveExercise, 38
cognitive_exercise::CognitiveExercise
__init__, 39
chooserDataHandler, 39
cognitiveTestCreatorDataHandler, 39
recordUserCognitiveTestPerformanceDataHandler,
39
returnTestsOfTypeSubtypeDifficultyDataHandler,
40
serv, 41
serv_topic, 41
userScoreHistoryForAllCategoriesDataHandler, 40
userScoresForAllCategoriesDataHandler, 40
cognitive_exercise_main, 14
CognitiveExerciseNode, 14
cognitive_tests_of_type
KnowrobWrapper, 110
cognitive_tests_of_type_callback
KnowrobWrapperCommunications, 123
cognitive_tests_of_type_service_
KnowrobWrapperCommunications, 128
cognitive_tests_of_type_topic_
KnowrobWrapperCommunications, 128
CognitiveExerciseNode
cognitive_exercise_main, 14
cognitiveTestCreatorDataHandler
cognitive_exercise::CognitiveExercise, 39
computed_cropped_origin
crop_map, 14
configuration
Sphinx4, 213
configuration_model_path
Sphinx4, 213
configuration_model_path_prev
Sphinx4, 213
configureSequence
PathPlanner, 175
configureSphinx
rapp_speech_detection_sphinx4::sphinx4_-
wrapper::Sphinx4Wrapper, 217
constructAndQuery
mysql_wrapper_old::MySQLdbWrapper, 142
constructCommaColumns
mysql_wrapper_old::MySQLdbWrapper, 142
costmap_2d, 14
costmap_2d::RappStaticLayer, 195
∼RappStaticLayer, 197
activate, 197
costmap_update_service, 198
deactivate, 197
dsrv_, 198
global_frame_, 198
has_updated_data_, 199
height_, 199
incomingMap, 197
incomingUpdate, 197
incomingUpdateService, 197

interpretValue, 198
lethal_threshold_, 199
lock_, 199
map_received_, 199
map_sub_, 199
map_update_sub_, 199
matchSize, 198
onInitialize, 198
RappStaticLayer, 197
reconfigureCB, 198
reset, 198
subscribe_to_updates_, 199
track_unknown_space_, 199
trinary_costmap_, 199
unknown_cost_value_, 199
updateBounds, 198
updateCosts, 198
use_maximum_, 199
width_, 200
x_, 200
y_, 200
costmap_update_service
costmap_2d::RappStaticLayer, 198
create_cognitve_tests
KnowrobWrapper, 110
create_cognitve_tests_callback
KnowrobWrapperCommunications, 123
create_cognitve_tests_service_
KnowrobWrapperCommunications, 128
create_cognitve_tests_topic_
KnowrobWrapperCommunications, 128
create_ontology_alias
KnowrobWrapper, 111
create_ontology_alias_callback
KnowrobWrapperCommunications, 123
create_ontology_alias_for_new_user
KnowrobWrapper, 111
create_ontology_alias_service_
KnowrobWrapperCommunications, 128
create_ontology_alias_topic_
KnowrobWrapperCommunications, 128
createConfigurationFiles
rapp_speech_detection_sphinx4::limited_vocabulary_creator::LimitedVocabularyCreator, 134
createInstanceCallback
KnowrobWrapperCommunications, 124
createInstanceQuery
KnowrobWrapper, 112
createInstanceService_
KnowrobWrapperCommunications, 128
createInstanceServiceTopic_
KnowrobWrapperCommunications, 128
createNewApplicationToken
mysql_wrapper::MySQLdbWrapper, 159
createNewApplicationTokenDataHandler
mysql_wrapper::MySQLdbWrapper, 159
createNewCloudAgent
mysql_wrapper::MySQLdbWrapper, 160
createNewCloudAgentDataHandler
mysql_wrapper::MySQLdbWrapper, 160
createNewCloudAgentService
mysql_wrapper::MySQLdbWrapper, 160
createNewCloudAgentServiceDataHandler
mysql_wrapper::MySQLdbWrapper, 161
createNewPlatformUser
mysql_wrapper::MySQLdbWrapper, 161
createNewPlatformUserDataHandler
mysql_wrapper::MySQLdbWrapper, 161
crop_image
crop_map, 15
crop_map, 14
bounds, 15
computed_cropped_origin, 14
crop_image, 15
crop_name, 15
crop_yaml, 15
cropped_image, 15
find_bounds, 14
map_data, 15
map_image, 15
map_image_file, 15
origin, 15
resolution, 15
crop_name
crop_map, 15
crop_yaml
crop_map, 15
cropped_image
crop_map, 15

deactivate
costmap_2d::RappStaticLayer, 197
deleteData
mysql_wrapper_old::MySQLdbWrapper, 142
denoiseCallback
rapp_audio_processing::rapp_audio_processing::AudioProcessing, 36
deprecated
MapServer, 137
detectFaces
FaceDetector, 68, 69
detectHuman2D
HumanDetector, 97, 98
detectQrs
QrDetector, 183
detectSilence
rapp_audio_processing::rapp_detect_silence::DetectSilence, 52
detectSilenceCallback
rapp_audio_processing::rapp_audio_processing::AudioProcessing, 36
determineTestTypeListForReturningScoresOrHistory
helper_functions::CognitiveExerciseHelperFunctions, 41
dictionary_path
Sphinx4, 213
dictionary_path_prev

Sphinx4, 214
dsrv_
costmap_2d::RappStaticLayer, 198
dump_ontology_now
KnowrobWrapper, 112
dumpOntologyCallback
KnowrobWrapperCommunications, 124
dumpOntologyQuery
KnowrobWrapper, 112
dumpOntologyService_
KnowrobWrapperCommunications, 128
dumpOntologyServiceTopic_
KnowrobWrapperCommunications, 129

emailReceiver
rapp_email::email_node, 20
emailSender
rapp_email::email_node, 20
energyDenoise
rapp_audio_processing::rapp_energy_denoise::-
EnergyDenoise, 58
energyDenoiseCallback
rapp_audio_processing::rapp_audio_processing::-
AudioProcessing, 36
equalsRequest
rapp_speech_detection_sphinx4::sphinx4_-
configuration_params::SphinxConfiguration-
Params, 221
exists_file
path_planning.cpp, 275

face_detection_node.cpp
main, 251
face_detector_
FaceDetection, 66
FaceDetection, 65
face_detector_, 66
FaceDetection, 66
faceDetectionCallback, 66
faceDetectionService_, 66
faceDetectionTopic_, 66
FaceDetection, 66
nh_, 66
faceDetectionCallback
FaceDetection, 66
faceDetectionService_
FaceDetection, 66
faceDetectionTopic_
FaceDetection, 66
FaceDetector, 67
detectFaces, 68, 69
FaceDetector, 67
FaceDetector, 67
findFaces, 69
identifyUniqueFaces, 69
loadImage, 69
fed
src::rapp_html_parser::RappHTMLParser, 190
fetch_current_weather
rapp_weather_reporter::forecastio_reporter::-
ForecastIOReporter, 73
rapp_weather_reporter::weather_reporter_base::-
WeatherReporterBase, 231
rapp_weather_reporter::yweather_reporter::Y-
WeatherReporter, 238
fetch_current_weather_srv_callback
rapp_weather_reporter::weather_reporter_node::-
WeatherReporterNode, 235
fetch_forecast_srv_callback
rapp_weather_reporter::weather_reporter_node::-
WeatherReporterNode, 235
fetch_geolocation
rapp_geolocator::geolocator_base::Geolocator-
Base, 76
rapp_geolocator::ip_api_locator::IpAPILocator, 106
fetch_location_srv_callback
rapp_geolocator::geolocator_node::Geolocator-
Node, 79
fetch_news
rapp_news_explorer::event_registry_engine::-
EventRegistryEngine, 64
rapp_news_explorer::google_news_engine::-
GoogleNewsEngine, 85
rapp_news_explorer::news_engine_base::News-
EngineBase, 171
fetch_news_srv_callback
rapp_news_explorer::news_explorer_node::News-
ExplorerNode, 173
fetch_weather_forecast
rapp_weather_reporter::forecastio_reporter::-
ForecastIOReporter, 73
rapp_weather_reporter::weather_reporter_base::-
WeatherReporterBase, 231
rapp_weather_reporter::yweather_reporter::Y-
WeatherReporter, 238
fetchData
mysql_wrapper_old::MySQLdbWrapper, 142
filterTestsbyDifficultyAndSubtype
helper_functions::CognitiveExerciseHelperFunctions,
42
find_bounds
crop_map, 14
find_values
src::rapp_http_json_parser::RappHttpJSON-
Parser, 191
findFaces
FaceDetector, 69
findHuman2D
HumanDetector, 98
findQrs
QrDetector, 183
fname
MapServer, 137

GP_pIDs
PathPlanning, 178
geolocator_node
rapp_geolocator::geolocator_node, 21

get_data
src::rapp_html_parser::RappHTMLParser, 189
get_ontology_alias
KnowrobWrapper, 113
get_service
MapServer, 138
get_token_user
rapp_application_authentication_manager::database_handler::DatabaseHandler, 48
get_user_password
rapp_application_authentication_manager::database_handler::DatabaseHandler, 48
getCloudAgentServiceTypeAndHostPort
mysql_wrapper::MySQLdbWrapper, 162
getCloudAgentServiceTypeAndHostPortDataHandler
mysql_wrapper::MySQLdbWrapper, 162
getCognitiveTestsOfType
helper_functions::CognitiveExerciseHelperFunctions, 42
getConfigurationHash
rapp_speech_detection_sphinx4::speech_recognition_sphinx4::SpeechRecognitionSphinx4, 206
getGenericConfiguration
rapp_speech_detection_sphinx4::language_support::LanguageSupport, 133
getHash
rapp_speech_detection_sphinx4::sphinx4_configuration_params::SphinxConfigurationParams, 221
getImageClass
image_classification::ImageClassification, 101
getLimitedVocebularyConfiguration
rapp_speech_detection_sphinx4::english_support::EnglishSupport, 62
rapp_speech_detection_sphinx4::greek_english_support::GreekEnglishSupport, 88
rapp_speech_detection_sphinx4::greek_support::GreekSupport, 91
rapp_speech_detection_sphinx4::language_support::LanguageSupport, 133
getLogin
mysql_wrapper::MySQLdbWrapper, 162
mysql_wrapper_old::MySQLdbWrapper, 143
getOntologyClass
image_classification::ImageClassification, 101
getOntologyClassEquivalent
ontology_class_bridge::OntologyClassBridge, 174
getTableColumnNames
mysql_wrapper::MySQLdbWrapper, 162
mysql_wrapper_old::MySQLdbWrapper, 143
getTestLanguagesFromOntology
helper_functions::CognitiveExerciseHelperFunctions, 42
getTestTypesFromOntology
helper_functions::CognitiveExerciseHelperFunctions, 43
getUserLanguage
helper_functions::CognitiveExerciseHelperFunctions, 43
mysql_wrapper::MySQLdbWrapper, 164
getUserLanguageDataHandler
mysql_wrapper::MySQLdbWrapper, 164
getUserOntologyAlias
helper_functions::CognitiveExerciseHelperFunctions, 43
image_registration_to_ontology::ImageRegistrationToOntology, 103
mysql_wrapper::MySQLdbWrapper, 165
getUserOntologyAliasDataHandler
mysql_wrapper::MySQLdbWrapper, 165
getUserPassword
mysql_wrapper::MySQLdbWrapper, 165
getUserPasswordDataHandler
mysql_wrapper::MySQLdbWrapper, 166
getUserPerformanceRecordsForTestType
helper_functions::CognitiveExerciseHelperFunctions, 43
getUsernameAssociatedWithApplicationToken
mysql_wrapper::MySQLdbWrapper, 164
getUsernameAssociatedWithApplicationTokenDataHandler
mysql_wrapper::MySQLdbWrapper, 165
getWordPhonemes
rapp_speech_detection_sphinx4::english_support::EnglishSupport, 62
global_frame_
costmap_2d::RappStaticLayer, 198
grammar_enabled
Sphinx4, 214
grammar_enabled_prev
Sphinx4, 214
grammar_model_file_path
Sphinx4, 214
grammar_model_file_path_prev
Sphinx4, 214
grammar_model_folder_path
Sphinx4, 214
grammar_model_folder_path_prev
Sphinx4, 214
GreekSupport, 88

handle_data
src::rapp_html_parser::RappHTMLParser, 189
handleSpeechRecognitionCallback
rapp_speech_detection_sphinx4::speech_recognition_sphinx4_handler_node::SpeechRecognitionSphinx4HandlerNode, 209
has_updated_data_
costmap_2d::RappStaticLayer, 199
hazard_detection_node.cpp
main, 254
height_
costmap_2d::RappStaticLayer, 199
helper_functions, 16
helper_functions.CognitiveExerciseHelperFunctions, 41
helper_functions::CognitiveExerciseHelperFunctions

determineTestTypeListForReturningScoresOrHistory, 41
filterTestsbyDifficultyAndSubtype, 42
getCognitiveTestsOfType, 42
getTestLanguagesFromOntology, 42
getTestTypesFromOntology, 43
getUserLanguage, 43
getUserOntologyAlias, 43
getUserPerformanceRecordsForTestType, 43
organizeUserPerformanceByTimestamp, 44
homedir
MapServer, 138
PathPlanning, 178
human_detection_node.cpp
main, 258
human_detector_
HumanDetection, 95
HumanDetection, 94
human_detector_, 95
HumanDetection, 95
humanDetectionCallback, 95
humanDetectionService_, 95
humanDetectionTopic_, 95
HumanDetection, 95
nh_, 95
humanDetectionCallback
HumanDetection, 95
humanDetectionService_
HumanDetection, 95
humanDetectionTopic_
HumanDetection, 95
HumanDetector, 96
detectHuman2D, 97, 98
findHuman2D, 98
HumanDetector, 96
HumanDetector, 96
identifyUniqueHumans, 98
loadImage, 98

IPLocatorFactory, 106
identifyUniqueFaces
FaceDetector, 69
identifyUniqueHumans
HumanDetector, 98
image_classification, 16
image_classification.ImageClassification, 99
image_classification::ImageClassification
__init__, 99
caffe_root, 102
classifyImage, 100
getImageClass, 101
getOntologyClass, 101
labels, 102
net, 102
registerToOntology, 101
transformer, 102
image_loader.cpp
MAP_IDX, 270
image_registration_to_ontology, 16
image_registration_to_ontology.ImageRegistrationToOntology, 102
image_registration_to_ontology::ImageRegistrationToOntology
getUserOntologyAlias, 103
registerImage, 103
registerImageToOntology, 103
imageClassificationDataHandler
caffe_wrapper::RappCaffeWrapper, 185
incomingMap
costmap_2d::RappStaticLayer, 197
incomingUpdate
costmap_2d::RappStaticLayer, 197
incomingUpdateService
costmap_2d::RappStaticLayer, 197
input_poses_correct
path_planning.cpp, 275
intToString
knowrob_wrapper.cpp, 261
interpretValue
costmap_2d::RappStaticLayer, 198
is_subsuperclass_of_service_
KnowrobWrapperCommunications, 129
is_subsuperclass_of_service_topic_
KnowrobWrapperCommunications, 129
isSubSuperclassOfCallback
KnowrobWrapperCommunications, 124
isSubSuperclassOfQuery
KnowrobWrapper, 113

knowrob_wrapper
KnowrobWrapperCommunications, 129
knowrob_wrapper.cpp
checkIfFileExists, 261
checkIfStringContainsString, 261
checkIfStringVectorContainsString, 261
intToString, 261
split, 263
SplitFilename, 263
knowrob_wrapper_node.cpp
main, 264
KnowrobWrapper, 107
assertAttributeValue, 108
clear_user_cognitive_tests_performance_records, 108
cognitive_tests_of_type, 110
create_cognitve_tests, 110
create_ontology_alias, 111
create_ontology_alias_for_new_user, 111
createInstanceQuery, 112
dump_ontology_now, 112
dumpOntologyQuery, 112
get_ontology_alias, 113
isSubSuperclassOfQuery, 113
KnowrobWrapper, 108
KnowrobWrapper, 108
loadOntologyQuery, 114
mysql_get_user_ontology_alias_client, 119
mysql_register_user_ontology_alias_client, 119

nh_, 119
pl, 119
record_user_cognitive_tests_performance, 114
register_image_object_to_ontology, 115
retract_user_ontology_alias, 115
subclassesOfQuery, 115
superclassesOfQuery, 116
user_instances_of_class, 116
user_performance_cognitve_tests, 118
KnowrobWrapperCommunications, 119
clear_user_cognitive_tests_performance_records_callback, 122
clear_user_cognitive_tests_performance_records_service_, 127
clear_user_cognitive_tests_performance_records_topic_, 127
cognitive_tests_of_type_callback, 123
cognitive_tests_of_type_service_, 128
cognitive_tests_of_type_topic_, 128
create_cognitve_tests_callback, 123
create_cognitve_tests_service_, 128
create_cognitve_tests_topic_, 128
create_ontology_alias_callback, 123
create_ontology_alias_service_, 128
create_ontology_alias_topic_, 128
createInstanceCallback, 124
createInstanceService_, 128
createInstanceServiceTopic_, 128
dumpOntologyCallback, 124
dumpOntologyService_, 128
dumpOntologyServiceTopic_, 129
is_subsuperclass_of_service_, 129
is_subsuperclass_of_service_topic_, 129
isSubSuperclassOfCallback, 124
knowrob_wrapper, 129
KnowrobWrapperCommunications, 121
KnowrobWrapperCommunications, 121
loadOntologyCallback, 125
loadOntologyService_, 129
loadOntologyServiceTopic_, 129
nh_, 129
record_user_cognitive_tests_performance_callback, 125
record_user_cognitive_tests_performance_service_, 129
record_user_cognitive_tests_performance_topic_, 129
register_image_object_to_ontology_callback, 125
register_image_object_to_ontology_service_, 130
register_image_object_to_ontology_topic_, 130
retract_user_ontology_alias_callback, 126
retract_user_ontology_alias_service_, 130
retract_user_ontology_alias_topic_, 130
subclasses_of_service_, 130
subclasses_of_service_topic_, 130
subclassesOfCallback, 126
superclasses_of_service_, 130
superclasses_of_service_topic_, 130
superclassesOfCallback, 126
user_instances_of_class_callback, 127
user_instances_of_class_service_, 130
user_instances_of_class_topic_, 131
user_performance_cognitve_tests_callback, 127
user_performance_cognitve_tests_service_, 131
user_performance_cognitve_tests_topic_, 131

labels
image_classification::ImageClassification, 102
language_path
Sphinx4, 214
language_path_prev
Sphinx4, 214
lethal_threshold_
costmap_2d::RappStaticLayer, 199
loadImage
FaceDetector, 69
HumanDetector, 98
QrDetector, 183
loadMapFromFile
map_server, 16
loadMappingIntoDictionary
ontology_class_bridge::OntologyClassBridge, 174
loadOntologyCallback
KnowrobWrapperCommunications, 125
loadOntologyQuery
KnowrobWrapper, 114
loadOntologyService_
KnowrobWrapperCommunications, 129
loadOntologyServiceTopic_
KnowrobWrapperCommunications, 129
lock_
costmap_2d::RappStaticLayer, 199
login_callback
rapp_application_authentication_manager::application_authentication_node::ApplicationAuthenticationManager, 34
login_from_store_callback
rapp_application_authentication_manager::application_authentication_node::ApplicationAuthenticationManager, 34

MAP_IDX
image_loader.cpp, 270
MS_pIDs
PathPlanning, 179
main
face_detection_node.cpp, 251
hazard_detection_node.cpp, 254
human_detection_node.cpp, 258
knowrob_wrapper_node.cpp, 264
main.cpp, 272
map_saver.cpp, 273
path_planning_node.cpp, 276
qr_detection_node.cpp, 279
Sphinx4, 213
main.cpp
main, 272

USAGE, 271
makeEqualToInstance
rapp_speech_detection_sphinx4::sphinx4_-configuration_params::SphinxConfiguration-Params, 221
makeEqualToRequest
rapp_speech_detection_sphinx4::sphinx4_-configuration_params::SphinxConfiguration-Params, 221
map_data
crop_map, 15
map_image
crop_map, 15
map_image_file
crop_map, 15
map_pub
MapServer, 138
map_received_
costmap_2d::RappStaticLayer, 199
map_resp_
MapServer, 138
map_saver.cpp
main, 273
USAGE, 272
map_server, 16
loadMapFromFile, 16
map_sub_
costmap_2d::RappStaticLayer, 199
MapGenerator, 136
map_update_sub_
costmap_2d::RappStaticLayer, 199
mapCallback
MapGenerator, 136
MapServer, 137
MapGenerator, 135
map_sub_, 136
mapCallback, 136
MapGenerator, 136
MapGenerator, 136
mapname_, 136
saved_map_, 136
MapServer, 136
deprecated, 137
fname, 137
get_service, 138
homedir, 138
map_pub, 138
map_resp_, 138
mapCallback, 137
MapServer, 137
mapUploadCallback, 137
MapServer, 137
meta_data_message_, 138
metadata_pub, 138
n, 138
test_service, 138
updateMap, 137
upload_map_trigger, 138
upload_map_trigger_name, 138
upload_service, 138
mapUploadCallback
MapServer, 137
mapname_
MapGenerator, 136
matchSize
costmap_2d::RappStaticLayer, 198
message
QrCode, 180
meta_data_message_
MapServer, 138
metadata_pub
MapServer, 138
MySQLWrapperNode
mysql_wrapper_main, 17
mySigintHandler
path_planning_node.cpp, 276
mysql_get_user_ontology_alias_client
KnowrobWrapper, 119
mysql_register_user_ontology_alias_client
KnowrobWrapper, 119
mysql_wrapper, 17
mysql_wrapper.MySQLdbWrapper, 152
mysql_wrapper::MySQLdbWrapper
__init__, 154
addStoreTokenToDevice, 155
addStoreTokenToDeviceDataHandler, 156
checkActiveApplicationToken, 156
checkActiveApplicationTokenDataHandler, 156
checkActiveRobotSession, 157
checkActiveRobotSessionDataHandler, 157
checkConnection, 157
checkIfUserExists, 157
checkIfUserExistsDataHandler, 159
createNewApplicationToken, 159
createNewApplicationTokenDataHandler, 159
createNewCloudAgent, 160
createNewCloudAgentDataHandler, 160
createNewCloudAgentService, 160
createNewCloudAgentServiceDataHandler, 161
createNewPlatformUser, 161
createNewPlatformUserDataHandler, 161
getCloudAgentServiceTypeAndHostPort, 162
getCloudAgentServiceTypeAndHostPortData-Handler, 162
getLogin, 162
getTableColumnNames, 162
getUserLanguage, 164
getUserLanguageDataHandler, 164
getUserOntologyAlias, 165
getUserOntologyAliasDataHandler, 165
getUserPassword, 165
getUserPasswordDataHandler, 166
getUsernameAssociatedWithApplicationToken, 164
getUsernameAssociatedWithApplicationToken-DataHandler, 165

registerNewTokenDataHandler, 166
registerUserOntologyAlias, 166
registerUserOntologyAliasDataHandler, 167
removePlatformUser, 167
removePlatformUserDataHandler, 167
serv, 169
serv_topic, 169
validateExistingPlatformDeviceToken, 168
validateExistingPlatformDeviceTokenDataHandler, 168
validateUserRole, 168
validateUserRoleDataHandler, 169
mysql_wrapper_main, 17
MySQLWrapperNode, 17
mysql_wrapper_old, 17
mysql_wrapper_old.MySQLdbWrapper, 139
mysql_wrapper_old::MySQLdbWrapper
__init__, 141
authTokenByService, 141
authTokenByServiceDataHandler, 141
checkConnection, 141
constructAndQuery, 142
constructCommaColumns, 142
deleteData, 142
fetchData, 142
getLogin, 143
getTableColumnNames, 143
serv, 152
serv_topic, 152
tblAppsRobotsDeleteDataHandler, 143
tblAppsRobotsFetchDataHandler, 143
tblAppsRobotsUpdateDataHandler, 143
tblAppsRobotsWriteDataHandler, 144
tblCloudAgentDeleteDataHandler, 144
tblCloudAgentFetchDataHandler, 144
tblCloudAgentServiceArgumentsDeleteDataHandler, 144
tblCloudAgentServiceArgumentsFetchDataHandler, 144
tblCloudAgentServiceArgumentsUpdateDataHandler, 145
tblCloudAgentServiceArgumentsWriteDataHandler, 145
tblCloudAgentServiceDeleteDataHandler, 145
tblCloudAgentServiceFetchDataHandler, 145
tblCloudAgentServiceUpdateDataHandler, 146
tblCloudAgentServiceWriteDataHandler, 146
tblCloudAgentUpdateDataHandler, 146
tblCloudAgentWriteDataHandler, 146
tblModelDeleteDataHandler, 146
tblModelFetchDataHandler, 147
tblModelUpdateDataHandler, 147
tblModelWriteDataHandler, 147
tblRappDeleteDataHandler, 147
tblRappFetchDataHandler, 148
tblRappUpdateDataHandler, 148
tblRappWriteDataHandler, 148
tblRobotDeleteDataHandler, 148
tblRobotFetchDataHandler, 148
tblRobotUpdateDataHandler, 149
tblRobotWriteDataHandler, 149
tblUserDeleteDataHandler, 149
tblUserFetchDataHandler, 149
tblUserUpdateDataHandler, 150
tblUserWriteDataHandler, 151
tblUsersOntologyInstancesDeleteDataHandler, 150
tblUsersOntologyInstancesFetchDataHandler, 150
tblUsersOntologyInstancesUpdateDataHandler, 150
tblUsersOntologyInstancesWriteDataHandler, 150
updateData, 151
viewUsersRobotsAppsFetchDataHandler, 151
whatRappsCanRun, 151
whatRappsCanRunDataHandler, 152
writeData, 152

n
MapServer, 138
net
image_classification::ImageClassification, 102
new_path
PathPlanning, 179
news_explorer_node
rapp_news_explorer::news_explorer_node, 22
nh_
FaceDetection, 66
HumanDetection, 95
KnowrobWrapper, 119
KnowrobWrapperCommunications, 129
PathPlanning, 179
QrDetection, 182

onInitialize
costmap_2d::RappStaticLayer, 198
ontology_class_bridge, 17
ontology_class_bridge.OntologyClassBridge, 174
ontology_class_bridge::OntologyClassBridge
getOntologyClassEquivalent, 174
loadMappingIntoDictionary, 174
ontologyClassBridgeDataHandler
caffe_wrapper::RappCaffeWrapper, 186
organizeUserPerformanceByTimestamp
helper_functions::CognitiveExerciseHelperFunctions, 44
origin
crop_map, 15

passErrorToRosSrv
app_error_exception::AppError, 30
path_planner_
PathPlanning, 179
path_planning.cpp
exists_file, 275
input_poses_correct, 275
setPoseDist, 275
start_global_planners, 276

start_map_servers, 276
start_tf_publisher, 276
path_planning_
path_planning_node.cpp, 277
path_planning_node.cpp
main, 276
mySigintHandler, 276
path_planning_, 277
PathPlanner, 175
configureSequence, 175
PathPlanner, 175
PathPlanner, 175
setSequenceNR, 176
startSequence, 176
PathPlanning, 177
∼PathPlanning, 178
GP_pIDs, 178
homedir, 178
MS_pIDs, 179
new_path, 179
nh_, 179
path_planner_, 179
PathPlanning, 178
pathPlanningCallback, 178
pathPlanningService_, 179
pathPlanningThreadServices_, 179
pathPlanningThreads_, 179
pathPlanningTopic_, 179
PathPlanning, 178
pose_dist_, 179
TP_pID, 179
uploadMapCallback, 178
uploadMapService_, 179
uploadMapTopic_, 179
pathPlanningCallback
PathPlanning, 178
pathPlanningService_
PathPlanning, 179
pathPlanningThreadServices_
PathPlanning, 179
pathPlanningThreads_
PathPlanning, 179
pathPlanningTopic_
PathPlanning, 179
perform_request
src::rapp_http_request_handler::RappHttpRequest-
Handler, 194
performSpeechRecognition
rapp_speech_detection_sphinx4::sphinx4_-
wrapper::Sphinx4Wrapper, 218
pl
KnowrobWrapper, 119
pose_dist_
PathPlanning, 179

qr_detection_node.cpp
main, 279
qr_detector_
QrDetection, 182
QrCode, 180
center, 180
message, 180
QrDetection, 180
nh_, 182
qr_detector_, 182
QrDetection, 181
qrDetectionCallback, 181
qrDetectionService_, 182
qrDetectionTopic_, 182
QrDetection, 181
qrDetectionCallback
QrDetection, 181
qrDetectionService_
QrDetection, 182
qrDetectionTopic_
QrDetection, 182
QrDetector, 182
detectQrs, 183
findQrs, 183
loadImage, 183
QrDetector, 183
QrDetector, 183

rapp_application_authentication_manager, 17
rapp_application_authentication_manager.application_-
authentication_node, 17
rapp_application_authentication_manager.application_-
authentication_node.ApplicationAuthentication-
Manager, 31
rapp_application_authentication_manager.database_-
handler, 18
rapp_application_authentication_manager.database_-
handler.DatabaseHandler, 44
rapp_application_authentication_manager::application-
_authentication_node
application_authentication_ros_node, 18
rapp_application_authentication_manager::application-
_authentication_node::ApplicationAuthentication-
Manager
login_callback, 34
rapp_application_authentication_manager::database_-
handler::DatabaseHandler
_username_exists_proxy, 51
add_new_user, 46
get_token_user, 48
get_user_password, 48
username_exists, 48
validate_user_role, 48
verify_store_device_token, 49
rapp_audio_processing, 18
rapp_audio_processing.rapp_audio_processing, 18
rapp_audio_processing.rapp_audio_processing.Audio-
Processing, 35
rapp_audio_processing.rapp_detect_silence, 19
rapp_audio_processing.rapp_detect_silence.Detect-
Silence, 52
rapp_audio_processing.rapp_energy_denoise, 19

rapp_audio_processing.rapp_energy_denoise.EnergyDenoise, 58
rapp_audio_processing.rapp_set_noise_profile, 19
rapp_audio_processing.rapp_set_noise_profile.SetNoiseProfile, 201
rapp_audio_processing.rapp_sox_denoise, 19
rapp_audio_processing.rapp_sox_denoise.SoxDenoise, 203
rapp_audio_processing.rapp_transform_audio, 19
rapp_audio_processing.rapp_transform_audio.TransformAudio, 223
rapp_audio_processing.rapp_utilities, 19
rapp_audio_processing.rapp_utilities.Utilities, 229
rapp_audio_processing::rapp_audio_processing
AudioProcessingNode, 19
rapp_audio_processing::rapp_audio_processing::AudioProcessing
_detect_silence_module, 37
_energy_denoise_module, 37
_energy_denoising_debug, 37
_sox_denoise_module, 38
_transform_audio_module, 38
_utilities_module, 38
denoiseCallback, 36
detectSilenceCallback, 36
energyDenoiseCallback, 36
setNoiseProfileCallback, 37
transformAudioCallback, 37
rapp_audio_processing::rapp_detect_silence::DetectSilence
detectSilence, 52
rapp_audio_processing::rapp_energy_denoise::EnergyDenoise
energyDenoise, 58
rapp_audio_processing::rapp_set_noise_profile::SetNoiseProfile
setNoise_profile, 202
utilities, 202
rapp_audio_processing::rapp_sox_denoise::SoxDenoise
soxDenoise, 203
rapp_audio_processing::rapp_transform_audio::TransformAudio
_assertArgs, 224
_convertType, 224
_validateSourceType, 224
transform_audio, 224
rapp_audio_processing::rapp_utilities::Utilities
cleanup, 229
rapp_email, 20
rapp_email.email_node, 20
rapp_email.email_receiver, 20
rapp_email.email_receiver.EmailReceiver, 52
rapp_email.email_sender, 20
rapp_email.email_sender.EmailSender, 55
rapp_email::email_node
emailReceiver, 20
emailSender, 20
rapp_email::email_receiver::EmailReceiver
__init__, 54
_connectImap, 54
_fetchEmail, 54
_initializePath, 54
_selectEmails, 55
receiveEmailSrvCallback, 55
rapp_email::email_sender::EmailSender
__init__, 56
_connectAndSend, 56
_createEmailBody, 57
_handleAttachment, 57
sendEmailSrvCallback, 57
rapp_geolocator, 20
rapp_geolocator.geolocator_base, 21
rapp_geolocator.geolocator_base.GeolocatorBase, 74
rapp_geolocator.geolocator_factory, 21
rapp_geolocator.geolocator_factory.GeolocatorFactory, 77
rapp_geolocator.geolocator_node, 21
rapp_geolocator.geolocator_node.GeolocatorNode, 78
rapp_geolocator.ip_api_locator, 21
rapp_geolocator.ip_api_locator.IpAPILocator, 104
rapp_geolocator::geolocator_base::GeolocatorBase
__init__, 76
__metaclass__, 76
_accepted_status, 76
_http_request, 76
_url, 76
fetch_geolocation, 76
rapp_http_json_parser, 76
rapp_geolocator::geolocator_factory::GeolocatorFactory
select_geolocator, 77
rapp_geolocator::geolocator_node
geolocator_node, 21
rapp_geolocator::geolocator_node::GeolocatorNode
__init__, 79
_create_service_response, 79
_geolocator_factory, 80
fetch_location_srv_callback, 79
rapp_geolocator::ip_api_locator::IpAPILocator
_handle_server_response, 106
_url, 106
fetch_geolocation, 106
rapp_http_json_parser
rapp_geolocator::geolocator_base::GeolocatorBase, 76
rapp_news_explorer::news_engine_base::NewsEngineBase, 171
rapp_weather_reporter::weather_reporter_base::WeatherReporterBase, 232
rapp_news_explorer, 21
rapp_news_explorer.engine_factory, 22
rapp_news_explorer.engine_factory.EngineFactory, 58
rapp_news_explorer.event_registry_engine, 22
rapp_news_explorer.event_registry_engine.EventRegistryEngine, 62

rapp_news_explorer.google_news_engine, 22
rapp_news_explorer.google_news_engine.GoogleNewsEngine, 82
rapp_news_explorer.news_engine_base, 22
rapp_news_explorer.news_engine_base.NewsEngineBase, 169
rapp_news_explorer.news_explorer_node, 22
rapp_news_explorer.news_explorer_node.NewsExplorerNode, 172
rapp_news_explorer::engine_factory::EngineFactory
select_news_engine, 59
rapp_news_explorer::event_registry_engine::EventRegistryEngine
_event_handler, 64
_max_requests, 64
_max_stories, 64
_password, 64
_username, 65
fetch_news, 64
rapp_news_explorer::google_news_engine::GoogleNewsEngine
_handle_params, 84
_max_requests, 85
_max_stories, 85
_params, 85
_url, 85
fetch_news, 85
rapp_news_explorer::news_engine_base::NewsEngineBase
_accepted_status, 171
_http_request, 171
_url, 171
fetch_news, 171
rapp_http_json_parser, 171
rapp_news_explorer::news_explorer_node
news_explorer_node, 22
rapp_news_explorer::news_explorer_node::NewsExplorerNode
_engine_factory, 174
rapp_print
src::rapp_utilities::RappUtilities, 201
rapp_speech_detection_sphinx4, 23
rapp_speech_detection_sphinx4.english_support, 23
rapp_speech_detection_sphinx4.english_support.EnglishSupport, 60
rapp_speech_detection_sphinx4.global_parameters, 23
rapp_speech_detection_sphinx4.global_parameters.GlobalParams, 80
rapp_speech_detection_sphinx4.greek_english_support, 23
rapp_speech_detection_sphinx4.greek_english_support.GreekEnglishSupport, 86
rapp_speech_detection_sphinx4.greek_support, 23
rapp_speech_detection_sphinx4.greek_support.GreekSupport, 89
rapp_speech_detection_sphinx4.language_support, 23
rapp_speech_detection_sphinx4.language_support.LanguageSupport, 131
rapp_speech_detection_sphinx4.limited_vocabulary_creator, 24
rapp_speech_detection_sphinx4.limited_vocabulary_creator.LimitedVocabularyCreator, 134
rapp_speech_detection_sphinx4.speech_recognition_sphinx4, 24
rapp_speech_detection_sphinx4.speech_recognition_sphinx4.SpeechRecognitionSphinx4, 203
rapp_speech_detection_sphinx4.speech_recognition_sphinx4_handler_node, 24
rapp_speech_detection_sphinx4.sphinx4_configuration_params, 25
rapp_speech_detection_sphinx4.sphinx4_configuration_params.SphinxConfigurationParams, 219
rapp_speech_detection_sphinx4.sphinx4_wrapper, 25
rapp_speech_detection_sphinx4.sphinx4_wrapper.Sphinx4Wrapper, 215
rapp_speech_detection_sphinx4::english_support::EnglishSupport
_english_dict_file, 62
_english_dict_mapping, 62
getLimitedVocebularyConfiguration, 62
getWordPhonemes, 62
rapp_speech_detection_sphinx4::global_parameters::GlobalParams
_acoustic_models_url, 81
_allow_sphinx_output, 81
_language_models_url, 81
_noise_profiles_url, 81
_socket_host, 81
_sphinx_jar_file, 81
_sphinx_package_url, 82
_sphinx_preconf, 82
rospack, 82
rapp_speech_detection_sphinx4::greek_support::GreekSupport
_capital_letters, 93
_configureLetters, 91
_englify_words, 91
_english_support, 93
_letters, 93
_literal_letters, 93
_phonemes, 93
_s_specific_rules, 93
_transformWords, 91
_two_digit_letters, 94
getLimitedVocebularyConfiguration, 91
rapp_speech_detection_sphinx4::language_support::LanguageSupport
_generic_sphinx_configuration, 133
_globalParams, 133
_vocabulary, 133
getGenericConfiguration, 133
getLimitedVocebularyConfiguration, 133
rapp_speech_detection_sphinx4::limited_vocabulary_creator::LimitedVocabularyCreator
_globalParams, 135
createConfigurationFiles, 134

rapp_speech_detection_sphinx4::speech_recognition_-sphinx4
SpeechRecognitionSphinx4Node, 24
rapp_speech_detection_sphinx4::speech_recognition_-sphinx4::SpeechRecognitionSphinx4
_globalParams, 207
_speechRecognition, 205
_sphinx4, 207
getConfigurationHash, 206
speechRecognitionBatch, 206
rapp_speech_detection_sphinx4::speech_recognition_-sphinx4_handler_node
rospack, 24
sphinx_class, 25
rapp_speech_detection_sphinx4::sphinx4_configuration-_params::SphinxConfigurationParams
_globalParams, 221
_grammar, 222
_language, 222
_sentences, 222
_words, 222
equalsRequest, 221
getHash, 221
rapp_speech_detection_sphinx4::sphinx4_wrapper::-Sphinx4Wrapper
_audio_transform_srv, 218
_callSphinxJava, 216
_conf, 218
_createProcessingProfile, 216
_createSocket, 216
_denoise_service, 218
_detect_silence_service, 218
_energy_denoise_service, 218
_globalParams, 219
_initializeSphinxProcess, 217
_jar_path, 219
_performEnergyDenoising, 217
_readLine, 217
_respawnSphinx, 217
_sphinxDied, 219
_sphinxSubprocess, 219
_sphinx_socket, 219
configureSphinx, 217
performSpeechRecognition, 218
rapp_weather_reporter, 25
rapp_weather_reporter.forecastio_reporter, 25
rapp_weather_reporter.forecastio_reporter.ForecastIO-Reporter, 71
rapp_weather_reporter.weather_reporter_base, 25
rapp_weather_reporter.weather_reporter_base.Weather-ReporterBase, 229
rapp_weather_reporter.weather_reporter_factory, 26
rapp_weather_reporter.weather_reporter_factory.-WeatherReporterFactory, 232
rapp_weather_reporter.weather_reporter_node, 26
rapp_weather_reporter.weather_reporter_node.Weather-ReporterNode, 234
rapp_weather_reporter.yweather_reporter, 26
rapp_weather_reporter.yweather_reporter.YWeather-Reporter, 236
rapp_weather_reporter::forecastio_reporter::ForecastI-OReporter
_api_key, 74
_get_fio_object, 73
fetch_current_weather, 73
fetch_weather_forecast, 73
rapp_weather_reporter::weather_reporter_base::-WeatherReporterBase
_accepted_status, 231
_http_request, 231
_url, 231
fetch_current_weather, 231
fetch_weather_forecast, 231
rapp_weather_reporter::weather_reporter_factory::-WeatherReporterFactory
select_weather_reporter, 233
rapp_weather_reporter::weather_reporter_node
weather_reporter_node, 26
rapp_weather_reporter::yweather_reporter::YWeather-Reporter
__init__, 238
_client, 239
_fetch_city_id, 238
_fetch_yweather_report, 238
fetch_current_weather, 238
fetch_weather_forecast, 238
RappCaffeWrapperNode
caffe_wrapper_main, 13
RappStaticLayer
costmap_2d::RappStaticLayer, 197
receiveEmailSrvCallback
rapp_email::email_receiver::EmailReceiver, 55
recognizer
Sphinx4, 214
reconfigureCB
costmap_2d::RappStaticLayer, 198
record_user_cognitive_tests_performance
KnowrobWrapper, 114
record_user_cognitive_tests_performance_callback
KnowrobWrapperCommunications, 125
record_user_cognitive_tests_performance_service_
KnowrobWrapperCommunications, 129
record_user_cognitive_tests_performance_topic_
KnowrobWrapperCommunications, 129
recordUserCognitiveTestPerformanceDataHandler
cognitive_exercise::CognitiveExercise, 39
register_image_object_to_ontology
KnowrobWrapper, 115
register_image_object_to_ontology_callback
KnowrobWrapperCommunications, 125
register_image_object_to_ontology_service_
KnowrobWrapperCommunications, 130
register_image_object_to_ontology_topic_
KnowrobWrapperCommunications, 130
registerImage

image_registration_to_ontology::ImageRegistration-ToOntology, 103
registerImageToOntology
image_registration_to_ontology::ImageRegistration-ToOntology, 103
registerImageToOntologyDataHandler
caffe_wrapper::RappCaffeWrapper, 186
registerNewTokenDataHandler
mysql_wrapper::MySQLdbWrapper, 166
registerToOntology
image_classification::ImageClassification, 101
registerUserOntologyAlias
mysql_wrapper::MySQLdbWrapper, 166
registerUserOntologyAliasDataHandler
mysql_wrapper::MySQLdbWrapper, 167
removePlatformUser
mysql_wrapper::MySQLdbWrapper, 167
removePlatformUserDataHandler
mysql_wrapper::MySQLdbWrapper, 167
reset
costmap_2d::RappStaticLayer, 198
resolution
crop_map, 15
retract_user_ontology_alias
KnowrobWrapper, 115
retract_user_ontology_alias_callback
KnowrobWrapperCommunications, 126
retract_user_ontology_alias_service_
KnowrobWrapperCommunications, 130
retract_user_ontology_alias_topic_
KnowrobWrapperCommunications, 130
returnTestsOfTypeSubtypeDifficultyDataHandler
cognitive_exercise::CognitiveExercise, 40
returnUserHistory
userScoreHistoryForAllCategories::UserScore-HistoryForAllCategories, 227
returnUserScores
userScoresForAllCategories::UserScoresForAll-Categories, 228
rospack
rapp_speech_detection_sphinx4::global_parameters-::GlobalParams, 82
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4_handler_node, 24

saved_map_
MapGenerator, 136
select_geolocator
rapp_geolocator::geolocator_factory::Geolocator-Factory, 77
select_news_engine
rapp_news_explorer::engine_factory::Engine-Factory, 59
select_weather_reporter
rapp_weather_reporter::weather_reporter_factory-::WeatherReporterFactory, 233
sendEmailSrvCallback
rapp_email::email_sender::EmailSender, 57
serv
caffe_wrapper::RappCaffeWrapper, 186
cognitive_exercise::CognitiveExercise, 41
mysql_wrapper::MySQLdbWrapper, 169
mysql_wrapper_old::MySQLdbWrapper, 152
speech_recognition_google::SpeechToText-Google, 211
text_to_speech_espeak::TextToSpeechEspeak, 223
serv_topic
caffe_wrapper::RappCaffeWrapper, 186
cognitive_exercise::CognitiveExercise, 41
mysql_wrapper::MySQLdbWrapper, 169
mysql_wrapper_old::MySQLdbWrapper, 152
speech_recognition_google::SpeechToText-Google, 211
text_to_speech_espeak::TextToSpeechEspeak, 223
setNoise_profile
rapp_audio_processing::rapp_set_noise_profile::-SetNoiseProfile, 202
setNoiseProfileCallback
rapp_audio_processing::rapp_audio_processing::-AudioProcessing, 37
setPoseDist
path_planning.cpp, 275
setSequenceNR
PathPlanner, 176
soxDenoise
rapp_audio_processing::rapp_sox_denoise::Sox-Denoise, 203
speech_recognition_google, 26
speech_to_text_node, 27
speech_recognition_google.SpeechToTextGoogle, 210
speech_recognition_google::SpeechToTextGoogle
__init__, 211
serv, 211
serv_topic, 211
speech_to_text, 211
speech_to_text_callback, 211
speech_to_text
speech_recognition_google::SpeechToText-Google, 211
speech_to_text_callback
speech_recognition_google::SpeechToText-Google, 211
speech_to_text_node
speech_recognition_google, 27
speechRecognitionBatch
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4::SpeechRecognitionSphinx4, 206
SpeechRecognitionSphinx4HandlerNode
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4_handler_node, 24
SpeechRecognitionSphinx4Node
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4, 24
Sphinx4, 212
acoustic_model_path, 213

acoustic_model_path_prev, 213
bufferRead, 213
bufferWrite, 213
cm, 213
configuration, 213
configuration_model_path, 213
configuration_model_path_prev, 213
dictionary_path, 213
dictionary_path_prev, 214
grammar_enabled, 214
grammar_enabled_prev, 214
grammar_model_file_path, 214
grammar_model_file_path_prev, 214
grammar_model_folder_path, 214
grammar_model_folder_path_prev, 214
language_path, 214
language_path_prev, 214
main, 213
recognizer, 214
updateConfiguration, 213
sphinx_class
rapp_speech_detection_sphinx4::speech_recognition-_sphinx4_handler_node, 25
split
knowrob_wrapper.cpp, 263
SplitFilename
knowrob_wrapper.cpp, 263
src, 27
src.rapp_exceptions, 27
src.rapp_exceptions.RappError, 187
src.rapp_html_parser, 27
src.rapp_html_parser.RappHTMLParser, 188
src.rapp_http_json_parser, 27
src.rapp_http_json_parser.RappHttpJSONParser, 190
src.rapp_http_request_handler, 27
src.rapp_http_request_handler.RappHttpRequest-Handler, 192
src.rapp_utilities, 28
src.rapp_utilities.RappUtilities, 200
src::rapp_exceptions::RappError
__init__, 188
__str__, 188
value, 188
src::rapp_html_parser::RappHTMLParser
__init__, 189
fed, 190
get_data, 189
handle_data, 189
src::rapp_http_json_parser::RappHttpJSONParser
_html_parser, 192
find_values, 191
src::rapp_http_request_handler::RappHttpRequest-Handler
_accepted_status, 194
_headers, 194
_modify_response, 194
_params, 194
_response_format, 194
_server_timeout, 195
_url, 195
perform_request, 194
src::rapp_utilities::RappUtilities
__init__, 201
rapp_print, 201
start_global_planners
path_planning.cpp, 276
start_map_servers
path_planning.cpp, 276
start_tf_publisher
path_planning.cpp, 276
startSequence
PathPlanner, 176
subclasses_of_service_
KnowrobWrapperCommunications, 130
subclasses_of_service_topic_
KnowrobWrapperCommunications, 130
subclassesOfCallback
KnowrobWrapperCommunications, 126
subclassesOfQuery
KnowrobWrapper, 115
subscribe_to_updates_
costmap_2d::RappStaticLayer, 199
superclasses_of_service_
KnowrobWrapperCommunications, 130
superclasses_of_service_topic_
KnowrobWrapperCommunications, 130
superclassesOfCallback
KnowrobWrapperCommunications, 126
superclassesOfQuery
KnowrobWrapper, 116

TP_pID
PathPlanning, 179
tblAppsRobotsDeleteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 143
tblAppsRobotsFetchDataHandler
mysql_wrapper_old::MySQLdbWrapper, 143
tblAppsRobotsUpdateDataHandler
mysql_wrapper_old::MySQLdbWrapper, 143
tblAppsRobotsWriteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 144
tblCloudAgentDeleteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 144
tblCloudAgentFetchDataHandler
mysql_wrapper_old::MySQLdbWrapper, 144
tblCloudAgentServiceArgumentsDeleteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 144
tblCloudAgentServiceArgumentsFetchDataHandler
mysql_wrapper_old::MySQLdbWrapper, 144
tblCloudAgentServiceArgumentsUpdateDataHandler
mysql_wrapper_old::MySQLdbWrapper, 145
tblCloudAgentServiceArgumentsWriteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 145
tblCloudAgentServiceDeleteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 145
tblCloudAgentServiceFetchDataHandler
mysql_wrapper_old::MySQLdbWrapper, 145

tblCloudAgentServiceUpdateDataHandler
mysql_wrapper_old::MySQLdbWrapper, 146
tblCloudAgentServiceWriteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 146
tblCloudAgentUpdateDataHandler
mysql_wrapper_old::MySQLdbWrapper, 146
tblCloudAgentWriteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 146
tblModelDeleteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 146
tblModelFetchDataHandler
mysql_wrapper_old::MySQLdbWrapper, 147
tblModelUpdateDataHandler
mysql_wrapper_old::MySQLdbWrapper, 147
tblModelWriteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 147
tblRappDeleteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 147
tblRappFetchDataHandler
mysql_wrapper_old::MySQLdbWrapper, 148
tblRappUpdateDataHandler
mysql_wrapper_old::MySQLdbWrapper, 148
tblRappWriteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 148
tblRobotDeleteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 148
tblRobotFetchDataHandler
mysql_wrapper_old::MySQLdbWrapper, 148
tblRobotUpdateDataHandler
mysql_wrapper_old::MySQLdbWrapper, 149
tblRobotWriteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 149
tblUserDeleteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 149
tblUserFetchDataHandler
mysql_wrapper_old::MySQLdbWrapper, 149
tblUserUpdateDataHandler
mysql_wrapper_old::MySQLdbWrapper, 150
tblUserWriteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 151
tblUsersOntologyInstancesDeleteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 150
tblUsersOntologyInstancesFetchDataHandler
mysql_wrapper_old::MySQLdbWrapper, 150
tblUsersOntologyInstancesUpdateDataHandler
mysql_wrapper_old::MySQLdbWrapper, 150
tblUsersOntologyInstancesWriteDataHandler
mysql_wrapper_old::MySQLdbWrapper, 150
test_service
MapServer, 138
text_to_speech_callback
text_to_speech_espeak::TextToSpeechEspeak, 223
text_to_speech_espeak, 28
text_to_speech_espeak_ros_node, 28
text_to_speech_espeak.TextToSpeechEspeak, 222
text_to_speech_espeak::TextToSpeechEspeak
__init__, 223
serv, 223
serv_topic, 223
text_to_speech_callback, 223
text_to_speech_espeak_ros_node
text_to_speech_espeak, 28
track_unknown_space_
costmap_2d::RappStaticLayer, 199
transform_audio
rapp_audio_processing::rapp_transform_audio::TransformAudio, 224
transformAudioCallback
rapp_audio_processing::rapp_audio_processing::AudioProcessing, 37
transformer
image_classification::ImageClassification, 102
trinary_costmap_
costmap_2d::RappStaticLayer, 199

USAGE
main.cpp, 271
map_saver.cpp, 272
unknown_cost_value_
costmap_2d::RappStaticLayer, 199
updateBounds
costmap_2d::RappStaticLayer, 198
updateConfiguration
Sphinx4, 213
updateCosts
costmap_2d::RappStaticLayer, 198
updateData
mysql_wrapper_old::MySQLdbWrapper, 151
updateMap
MapServer, 137
upload_map_trigger
MapServer, 138
upload_map_trigger_name
MapServer, 138
upload_service
MapServer, 138
uploadMapCallback
PathPlanning, 178
uploadMapService_
PathPlanning, 179
uploadMapTopic_
PathPlanning, 179
use_maximum_
costmap_2d::RappStaticLayer, 199
user_instances_of_class
KnowrobWrapper, 116
user_instances_of_class_callback
KnowrobWrapperCommunications, 127
user_instances_of_class_service_
KnowrobWrapperCommunications, 130
user_instances_of_class_topic_
KnowrobWrapperCommunications, 131
user_performance_cognitve_tests
KnowrobWrapper, 118
user_performance_cognitve_tests_callback
KnowrobWrapperCommunications, 127

user_performance_cognitve_tests_service_
KnowrobWrapperCommunications, 131
user_performance_cognitve_tests_topic_
KnowrobWrapperCommunications, 131
userScoreHistoryForAllCategories, 28
userScoreHistoryForAllCategories.UserScoreHistory-
ForAllCategories, 226
userScoreHistoryForAllCategories::UserScoreHistory-
ForAllCategories
returnUserHistory, 227
validateTimeRange, 227
userScoreHistoryForAllCategoriesDataHandler
cognitive_exercise::CognitiveExercise, 40
userScoresForAllCategories, 28
userScoresForAllCategories.UserScoresForAllCategories,
228
userScoresForAllCategories::UserScoresForAllCategories
calculateUserScoresForCategories, 228
returnUserScores, 228
userScoresForAllCategoriesDataHandler
cognitive_exercise::CognitiveExercise, 40
username_exists
rapp_application_authentication_manager::database-
_handler::DatabaseHandler, 48
utilities
rapp_audio_processing::rapp_set_noise_profile::-
SetNoiseProfile, 202

validate_user_role
rapp_application_authentication_manager::database-
_handler::DatabaseHandler, 48
validateExistingPlatformDeviceToken
mysql_wrapper::MySQLdbWrapper, 168
validateExistingPlatformDeviceTokenDataHandler
mysql_wrapper::MySQLdbWrapper, 168
validateTimeRange
userScoreHistoryForAllCategories::UserScore-
HistoryForAllCategories, 227
validateUserRole
mysql_wrapper::MySQLdbWrapper, 168
validateUserRoleDataHandler
mysql_wrapper::MySQLdbWrapper, 169
value
src::rapp_exceptions::RappError, 188
verify_active_application_token
rapp_application_authentication_manager::database-
_handler::DatabaseHandler, 49
verify_active_robot_session
rapp_application_authentication_manager::database-
_handler::DatabaseHandler, 49
verify_platform_device_token
rapp_application_authentication_manager::database-
_handler::DatabaseHandler, 49
verify_store_device_token
rapp_application_authentication_manager::database-
_handler::DatabaseHandler, 49
viewUsersRobotsAppsFetchDataHandler
mysql_wrapper_old::MySQLdbWrapper, 151

weather_reporter_node
rapp_weather_reporter::weather_reporter_node,
26
whatRappsCanRun
mysql_wrapper_old::MySQLdbWrapper, 151
whatRappsCanRunDataHandler
mysql_wrapper_old::MySQLdbWrapper, 152
width_
costmap_2d::RappStaticLayer, 200
write_new_application_token
rapp_application_authentication_manager::database-
_handler::DatabaseHandler, 50
writeData
mysql_wrapper_old::MySQLdbWrapper, 152

x_
costmap_2d::RappStaticLayer, 200

y_
costmap_2d::RappStaticLayer, 200