Douglas-Quaid Release 0.0.4

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- 1.1.1.1 Submodules
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- 1.1.1.3 carlhauser_client.API.extended_api module
- 1.1.1.4 carlhauser_client.API.simple_api module
- 1.1.1.5 Module contents
- 1.1.2 carlhauser_client.EvaluationTools package
- 1.1.2.1 Subpackages
- 1.1.2.1.1 carlhauser_client.EvaluationTools.SimilarityGraphExtractor package
- 1.1.2.1.1.1 Submodules
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- 1.1.2.1.1.3 carlhauser_client.EvaluationTools.SimilarityGraphExtractor.similarity_graph_quality_evaluator module
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- 1.1.2.1.2 carlhauser client.EvaluationTools.StorageGraphExtractor package
- 1.1.2.1.2.1 Submodules
- 1.1.2.1.2.2 carlhauser_client.EvaluationTools.StorageGraphExtractor.cluster_matching_quality_evaluator module
- 1.1.2.1.2.3 carlhauser_client.EvaluationTools.StorageGraphExtractor.storage_quality_evaluator
- module

CARLHAUSER_CLIENT_TESTS PACKAGE

2.1 Subpackages

- 2.1.1 carlhauser client tests.API package
- 2.1.1.1 Submodules
- 2.1.1.2 carlhauser_client_tests.API.test_API_cli module
- 2.1.1.3 carlhauser_client_tests.API.test_API_extended_api module
- 2.1.1.4 carlhauser_client_tests.API.test_API_simple_api module
- 2.1.1.5 Module contents
- 2.1.2 carlhauser client tests. Evaluation Tools package
- 2.1.2.1 Subpackages
- 2.1.2.1.1 carlhauser client tests. Evaluation Tools. evaluator package
- 2.1.2.1.1.1 Submodules
- 2.1.2.1.1.2 carlhauser_client_tests.EvaluationTools.evaluator.test_cluster_matching_quality_evaluator module
- 2.1.2.1.1.3 carlhauser_client_tests.EvaluationTools.evaluator.test_similarity_graph_extractor mod-ule

```
\textbf{class} \texttt{ carlhauser\_client\_tests.EvaluationTools.evaluator.test\_similarity\_graph\_extractor.\textbf{TestBases}: unittest.case.TestCase
```

Basic test cases.

setUp()

Hook method for setting up the test fixture before exercising it.

 ${\tt test_absolute_truth_and_meaning}\;(\;)$

- 2.1.2.1.1.4 carlhauser_client_tests.EvaluationTools.evaluator.test_similarity_graph_quality_evaluator module
- 2.1.2.1.1.5 carlhauser_client_tests.EvaluationTools.evaluator.test_storage_quality_evaluator module
- 2.1.2.1.1.6 Module contents
- 2.1.2.2 Module contents
- 2.1.3 carlhauser_client_tests.Helpers package
- 2.1.3.1 Submodules
- 2.1.3.2 carlhauser_client_tests.Helpers.test_dict_utilities module

```
class carlhauser_client_tests.Helpers.test_dict_utilities.TestClusterMatcher (methodName='runTa
Bases: unittest.case.TestCase

Basic test cases.

setUp()
    Hook method for setting up the test fixture before exercising it.

test_absolute_truth_and_meaning()

test_dict_reverse()
```

2.1.3.3 Module contents

test_dict_reverse_hard()

test_dict_update()

test dict reverse realist()

- 2.2 Submodules
- 2.3 carlhauser_client_tests.context module
- 2.4 Module contents

THREE

CARLHAUSER_SERVER PACKAGE

3.1 Subpackages

3	1	1	carlhauser	server API	nackade
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- 3.1.1.1 Submodules
- 3.1.1.2 carlhauser_server.API.API_server module
- 3.1.1.3 carlhauser_server.API.in_memory_files_ops module
- 3.1.1.4 Module contents

3.1.2 carlhauser_server.Configuration package

- 3.1.2.1 Submodules
- 3.1.2.2 carlhauser_server.Configuration.algo_conf module
- 3.1.2.3 carlhauser_server.Configuration.database_conf module
- 3.1.2.4 carlhauser_server.Configuration.distance_engine_conf module
- 3.1.2.5 carlhauser_server.Configuration.feature_extractor_conf module
- 3.1.2.6 carlhauser_server.Configuration.webservice_conf module
- 3.1.2.7 Module contents

3.1.3 carlhauser_server.DatabaseAccessor package

- 3.1.3.1 Submodules
- 3.1.3.2 carlhauser_server.DatabaseAccessor.database_adder module
- 3.1.3.3 carlhauser_server.DatabaseAccessor.database_common module
- 3.1.3.4 carlhauser_server.DatabaseAccessor.database_requester module
- 3.1.3.5 carlhauser_server.DatabaseAccessor.database_utilities module
- 8.1.3.6 carlhauser_server.DatabaseAccessor.database_worker_module carlhauser_server package
- 3.1.3.7 Module contents

Handle a list of process of one type

append (process: carlhauser_server.Processus.worker_process.WorkerProcessus)

flush()

Flush the list of processes :return: Nothing. Change internal state of the object.

flush_not_running()

Remove all the processes that are not detected as curently running. :return: Nothing. Change internal state of the object.

 $\texttt{get_running_processus}() \rightarrow \texttt{List}[\texttt{carlhauser_server.Processus.worker_process.WorkerProcessus}]$ Provide a sublist of the list of processus, which are currently running :return: a list of running workers

is there alive workers() \rightarrow bool

Check if workers are alive, and return True if all worker are down :return: True if at least one worker is alive. False otherwise

$kill_all_processus(grace_time=2) \rightarrow bool$

Try to kill all workers of the given list, waiting <grace_time> for each processus to finish (2 sec per default) :param grace_time: Waiting time for a process before hard kill :return: True if successfully stopped, False otherwise

$wait_until_all_stopped$ (timeout: int = 60) \rightarrow bool

Wait until all the workers are stopped (= terminated) Put timeout -1 if you don't want to function to timeout :param timeout: maximum waiting time for all processes to stop :return: True if all have stopped, False otherwise

3.1.7.3 carlhauser server.Processus.worker process module

Bases: object

check status(id to display)

Check and display status on logging output :param id_to_display: # of the worker, if you want to print one :return: True if process running, False otherwise

get_str()

$is_running() \rightarrow bool$

Check if current processus is running :return: True if process running, False otherwise

launch (db_conf: carlhauser_server.Configuration.database_conf.Default_database_conf = None, dist_conf: carlhauser_server.Configuration.distance_engine_conf.Default_distance_engine_conf

- = None, fe conf: carlhauser server.Configuration.feature extractor conf.Default feature extractor conf
- = None, ws_conf: carlhauser_server.Configuration.webservice_conf.Default_webservice_conf
- = None, mode=None)

Construct an argument list and launch the process. :param db_conf: configuration file :param dist_conf: configuration file :param fe_conf: configuration file :param ws_conf: configuration file :param mode: configuration element :return: Nothing

$shutdown (grace_time=10) \rightarrow bool$

Tru to stop within <gracetime> seconds the current processus/worker :param grace_time: maximum waiting time :return: True if stopped, False otherwise

wait_until_stopped(timeout: int = 60) \rightarrow bool

Wait until the worker is stopped (= terminated) Put timeout -1 if you don't want to function to timeout :param timeout: maximal waiting time for the process to stop :return: True if stopped, False otherwise

3.1. Subpackages 7

- 3.1.7.4 Module contents
- 3.1.8 carlhauser_server.Singletons package
- 3.1.8.1 Submodules
- 3.1.8.2 carlhauser server. Singletons. database start stop module
- 3.1.8.3 carlhauser_server.Singletons.singleton module
- 3.1.8.4 carlhauser_server.Singletons.worker_start_stop module
- 3.1.8.5 Module contents
- 3.2 Submodules
- 3.3 carlhauser_server.instance_handler module
- 3.4 Module contents

FOUR

CARLHAUSER_SERVER_TESTS PACKAGE

4.1 Subpackages

4.1.1 carlhauser_server_tests.API package

4.1.1.1 Submodules

4.1.1.2 carlhauser_server_tests.API.test_in_memory_files_ops module

```
class carlhauser_server_tests.API.test_in_memory_files_ops.TestInMemoryOperations (methodName
Bases: unittest.case.TestCase

Basic test cases.

setUp()
    Hook method for setting up the test fixture before exercising it.

test_absolute_truth_and_meaning()

test_bmp_conversion()

test_exif_and_hash()
```

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- 4.1.1.3 Module contents
- 4.1.2 carlhauser server tests. Configuration package
- 4.1.2.1 Submodules
- 4.1.2.2 carlhauser server tests. Configuration.test feature extractor conf module
- 4.1.2.3 Module contents
- 4.1.3 carlhauser server tests. Data package
- 4.1.3.1 Module contents
- 4.1.4 carlhauser_server_tests.DatabaseAccessor package
- 4.1.4.1 Submodules
- 4.1.4.2 carlhauser_server_tests.DatabaseAccessor.test_db_adder module
- 4.1.4.3 Module contents
- 4.1.5 carlhauser server tests. Distance Engine package
- 4.1.5.1 Submodules
- 4.1.5.2 carlhauser server tests.DistanceEngine.test distance engine module
- 4.1.5.3 carlhauser_server_tests.DistanceEngine.test_merging_engine module
- 4.1.5.4 Module contents
- 4.1.6 carlhauser_server_tests.FeatureExtractor package
- 4.1.6.1 Module contents
- 4.1.7 carlhauser server tests. Helpers package
- 4.1.7.1 Module contents
- 4.1.8 carlhauser server tests. Processus package
- 4.1.8.1 Module contents
- 4.1.9 carlhauser server tests. Singletons package
- 4.1.9.1 Submodules
- 4.1.9.2 carlhauser_server_tests.Singletons.test_singleton module

class carlhauser_server_tests.Singletons.test_singleton.testSingleton(methodName='runTest')
 Bases: unittest.case.TestCase

4.1. Subpackages

```
Basic test cases.
                          class Derived
                                                 Bases: object
                                                 get_myvalue()
                                                 get_value_shared()
                                                  increment_value()
                                                 value_shared = 0
                          setUp()
                                                 Hook method for setting up the test fixture before exercising it.
                          test_singleton()
                          test_singleton_instance_equality()
4.1.9.3 carlhauser_server_tests.Singletons.test_worker_start_stop module
\textbf{class} \texttt{ carlhauser\_server\_tests.} Singletons. test\_worker\_start\_stop. \textbf{testDistanceEngine} (\textit{methodNantest}) and \textit{testDistanceEngine} (\textit{methodNantestDistanceEngine} (\textit{methodNantes
                          Bases: unittest.case.TestCase
                          Basic test cases.
                          setUp()
                                                 Hook method for setting up the test fixture before exercising it.
                          test_absolute_truth_and_meaning()
```

4.1.9.4 Module contents

4.2 Submodules

4.3 carlhauser_server_tests.test_carlhauser_server module

4.4 Module contents

FIVE

COMMON PACKAGE

5.1 Subpackages

- 5.1.1 common.Calibrator package
- 5.1.1.1 Submodules
- 5.1.1.2 common.Calibrator.calibrator_conf module
- 5.1.1.3 common.Calibrator.threshold calibrator module
- 5.1.1.4 Module contents
- 5.1.2 common.ChartMaker package
- 5.1.2.1 Submodules
- 5.1.2.2 common.ChartMaker.confusion_matrix_generator module
- 5.1.2.3 common.ChartMaker.two_dimensions_plot module
- 5.1.2.4 Module contents
- 5.1.3 common.DataTurksAlgos package
- 5.1.3.1 Submodules
- 5.1.3.2 common.DataTurksAlgos.pictures_exporter module

```
class common.DataTurksAlgos.pictures_exporter.PicturesExporter
    Bases: object
    export_dicts()
    iterate_over_dataturks_json()
    launch_copy()
    static list_to_dict(files_list: List[pathlib.Path]) \rightarrow Dict[str, pathlib.Path]
    load_dataturks_json()
    static load_files(path: pathlib.Path) \rightarrow List[pathlib.Path]
```

```
load_pictures_to_copy()
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common.DataTurksAlgos.pictures_exporter.dir_path(path)
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class common.HumanHash.docker_committer.DockerCommmiter(saves_limit)
    Bases: object
    commit docker (docker name) \rightarrow str
    get_commit_name()
    inifnite_commit_docker(docker_name, nb_secs)
    remove_too_old_images()
common.HumanHash.docker_committer.main()
5.1.5.5 common.HumanHash.extractor module
5.1.5.6 common.HumanHash.humanizer module
class common.HumanHash.humanizer.Humanizer
    Bases: object
    static correct name (name: str) \rightarrow str
```

```
static get_name (content, file_suffix: str) \rightarrow str
     humanize_name (content: bytes, file_name: str, file_suffix: str, collision_removal: bool = True) \rightarrow str
     is\_already\_drawn (new\_name: str) \rightarrow bool
     rename_all_files (path: pathlib.Path, output_path: pathlib.Path)
     static sanity_check (output_path: pathlib.Path, previous_files_length: int)
common.HumanHash.humanizer.main()
common.HumanHash.humanizer.test()
5.1.5.7 common.HumanHash.referencer module
5.1.5.8 common.HumanHash.urlifier module
class common.HumanHash.urlifier.Referencer(ip, port)
     Bases: object
     static check_correctness(name: str)
     reference_all_files (path: pathlib.Path)
     static save_to_text(obj, file_path: pathlib.Path)
     store_value (name: pathlib.Path, reference_path)
common.HumanHash.urlifier.main()
5.1.5.9 common.HumanHash.visjs_parser module
5.1.5.10 Module contents
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class common.ImportExport.json_import_export.Custom_JSON_Encoder(*,
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                                                                                 keys=False,
                                                                                 en-
                                                                                 sure_ascii=True,
                                                                                 check circular=True,
                                                                                 low_nan=True,
                                                                                 sort_keys=False,
                                                                                 in-
                                                                                 dent=None,
                                                                                 separa-
                                                                                 tors=None,
                                                                                 de-
                                                                                 fault=None)
```

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Custom JSON Encoder to store Enum and custom configuration objects (for example) of the framework

Bases: json.encoder.JSONEncoder

default (0)

How to handle an object to encode :param o: the object to encode :return: the object encoded as json

common.ImportExport.json_import_export.load_json (file_path: pathlib.Path)

Loading an object/data from json. :param file_path: The path to the json to load :return: The data extracted

common.ImportExport.json_import_export.save_json(obj,file_path: pathlib.Path)

Save an object as JSON :param obj: the object to save :param file_path: the path to which the object should be saved :return: Nothing

5.1.6.3 common.ImportExport.pickle import export module

```
class common.ImportExport.pickle_import_export.Pickler
    Bases: object
```

Very specific file to overwrite method to pickle some specific object types.

```
static get_object_from_pickle(pickle_obj)
static get_pickle_from_object(obj)
static patch_Keypoint_pickiling()
```

5.1.6.4 common.lmportExport.picture_import_export module

```
common.ImportExport.picture_import_export.load_picture (file_path: pathlib.Path)

Return a bytes representation of a picture :param file_path: the path of the picture to load :return: The loaded picture
```

```
common.ImportExport.picture_import_export.save_picture (obj, file_path: pathlib.Path)

Save a bytes representation of a picture to a file :param obj: Object to save (is a picture) :param file_path: path to which the object should be saved :return: Nothing
```

5.1.6.5 Module contents

5.1.7 common.ParametersExplorer package

5.1.7.1 Submodules

5.1.7.2 common.ParametersExplorer.parameter explorer module

```
class common.ParametersExplorer.parameter_explorer.ParameterExplorer
Bases: object
```

Extract parameters and quality of the storage graph. TODO: Should be reviewed and modified.

launch()

5.1.7.3 Module contents

5.1.8 common.PerformanceDatastructs package

- 5.1.8.1 Submodules
- 5.1.8.2 common.PerformanceDatastructs.clustermatch datastruct module
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- 5.1.8.5 Module contents

5.1.9 common.TestInstanceLauncher package

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- 5.1.9.3 common.TestInstanceLauncher.one_db_instance_launcher module
- 5.1.9.4 Module contents

5.2 Submodules

5.3 common.CustomException module

```
exception common.CustomException.AlgoFeatureNotPresentError(message)
    Bases: Exception
```

5.4 common.environment variable module

```
class common.environment_variable.EndPoints
    Bases: common.environment_variable.JSON_parsable_Dict
    ADD_PICTURE = 'add_picture'
    EMPTY_PIPELINE = 'are_pipelines_empty'
    GET_REQUEST_RESULT = 'get_results'
    REQUEST_DB = 'export_db'
    REQUEST_PICTURE = 'request_similar_picture'
    WAIT_FOR_ADD = 'wait_for_add'
    WAIT_FOR_REQUEST = 'is_ready'
class common.environment_variable.JSON_parsable_Dict
    Bases: object
```

5.2. Submodules 17

```
class common.environment_variable.JSON_parsable_Enum
     Bases: object
class common.environment_variable.QueueNames
     Bases: common.environment_variable.JSON_parsable_Dict
     DB_TO_ADD = 'db_to_add'
     DB_TO_REQUEST = 'db_to_request'
     FEATURE_TO_ADD = 'feature_to_add'
     FEATURE_TO_REQUEST = 'feature_to_request'
common.environment_variable.dir_path(path)
common.environment_variable.get_homedir() \rightarrow pathlib.Path
common.environment_variable.load_client_logging_conf_file()
common.environment_variable.load_server_logging_conf_file()
common.environment_variable.make_big_line()
common.environment_variable.make_small_line()
\verb|common.environment_variable.resolve_path| (\textit{file_path}: pathlib.Path) \rightarrow \verb|pathlib.Path|)| \rightarrow \verb|pathlib.Path|)|
     If the provided path is not absolute, resolve it. Otherwise, do nothing :param file_path: the filepath to resolve
     :return: the absolute path
```

5.5 Module contents

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COMMON_TESTS PACKAGE

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- 6.1.1 common tests. Calibrator package
- 6.1.1.1 Submodules
- 6.1.1.2 common_tests.Calibrator.test_calibrator module
- 6.1.1.3 common tests. Calibrator.test calibrator conf module
- 6.1.1.4 common_tests.Calibrator.test_threshold_calibrator module
- 6.1.1.5 Module contents
- 6.1.2 common_tests.ChartMaker package
- 6.1.2.1 Submodules
- 6.1.2.2 common tests. Chart Maker. test confusion matrix module
- 6.1.2.3 Module contents
- 6.1.3 common_tests.DataTurksAlgo package
- 6.1.3.1 Submodules
- 6.1.3.2 common_tests.DataTurksAlgo.test_dataturks_algo module

```
class common_tests.DataTurksAlgo.test_dataturks_algo.test_template(methodName='runTest')
    Bases: unittest.case.TestCase
```

Basic test cases.

```
check_size_folder (folder: pathlib.Path, size: int)
```

clean_folder (base_path: pathlib.Path)

 $create_sorted$ ($base_path: pathlib.Path$) \rightarrow common.DataTurksAlgos.pictures_exporter.PicturesExporter Load the provided configuration file and create back the Configuration Object :return: Nothing

```
setUp()
         Hook method for setting up the test fixture before exercising it.
    test_already_copied_not_recopied()
    test_first_copy_packets_size()
    test to delete()
6.1.3.3 Module contents
6.1.4 common tests. Graph package
6.1.4.1 Submodules
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6.1.4.3 Module contents
6.1.5 common tests.ImportExport package
6.1.5.1 Submodules
6.1.5.2 common tests.ImportExport.test json import export module
class common_tests.ImportExport.test_json_import_export.testJSONImportExport (methodName='run'i
    Bases: unittest.case.TestCase
    Basic test cases.
    setUp()
         Hook method for setting up the test fixture before exercising it.
         Hook method for deconstructing the test fixture after testing it.
    test_absolute_truth_and_meaning()
    test_json_export()
    test_json_import()
    test_json_import_export_consistency()
6.1.5.3 common_tests.ImportExport.test_pickle_import_export module
class common_tests.ImportExport.test_pickle_import_export.testPICKLEImportExport (methodName=
    Bases: unittest.case.TestCase
    Basic test cases.
    setUp()
         Hook method for setting up the test fixture before exercising it.
    test_absolute_truth_and_meaning()
    test_pickle_import_export_ORB()
    test_pickle_import_export_consistency()
```

6.1.5.4 common tests.ImportExport.test picture import export module

```
class common_tests.ImportExport.test_picture_import_export.testPICTUREImportExport (methodName)
    Bases: unittest.case.TestCase
    Basic test cases.
    setUp()
         Hook method for setting up the test fixture before exercising it.
    tearDown()
         Hook method for deconstructing the test fixture after testing it.
    test_absolute_truth_and_meaning()
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6.1.6 common_tests.ParametersExplorer package

6.1.6.1 Module contents

6.1.7 common tests.PerformanceDatastructs package

6.1.7.1 Submodules

6.1.7.2 common tests.PerformanceDatastructs.test scores module

```
class common_tests.PerformanceDatastructs.test_scores.TestClusterMatcher(methodName='runTest')
    Bases: unittest.case.TestCase
    Basic test cases.
    setUp()
         Hook method for setting up the test fixture before exercising it.
    test_absolute_truth_and_meaning()
    test_merge_scores()
```

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6.1.7.3 Module contents

6.1.8 common tests. Scalability evaluator package

- 6.1.8.1 Submodules
- 6.1.8.2 common tests. Scalability evaluator. test scalability conf module
- 6.1.8.3 Module contents
- 6.1.9 common_tests.TestInstanceLauncher package
- 6.1.9.1 Submodules
- 6.1.9.2 common_tests.TestInstanceLauncher.test_instance_launcher module

```
class common_tests.TestInstanceLauncher.test_instance_launcher.test_tests_database_launcher
Bases: unittest.case.TestCase

Basic test cases.

setUp()
    Hook method for setting up the test fixture before exercising it.

test_absolute_truth_and_meaning()

test_compute_score_for_one_threshold()
```

6.1.9.3 Module contents

6.2 Submodules

6.3 common_tests.test_environment_variable module

```
class common_tests.test_environment_variable.TestEnvVariable (methodName='runTest')
    Bases: unittest.case.TestCase
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