task_processing Documentation

Release LATEST_RELEASE

Yelp Inc

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Contents

Interfaces and shared infrastructure for generic task processing @ Yelp

CHAPTER 1

Generated Docs

1.1 task_processing

1.1.1 task_processing package

Subpackages

task_processing.interfaces package

Submodules

task_processing.interfaces.event module

class task_processing.interfaces.event.**Event**
Bases: pyrsistent._precord.PRecord

static validate_task_event(*r*)

task_processing.interfaces.event.**control_event**(**kwargs*)

task_processing.interfaces.event.**json_deserializer**(*dct*)

task_processing.interfaces.event.**json_serializer**(*o*)

task_processing.interfaces.event.**task_event**(**kwargs*)

task_processing.interfaces.runner module

class task_processing.interfaces.runner.**Runner**
Bases: object

TASK_CONFIG_INTERFACE
alias of *task_processing.interfaces.task_executor.DefaultTaskConfigInterface*

kill(*task_id*)

run(*task_config*)

task_processing.interfaces.task_executor module

class task_processing.interfaces.task_executor.**DefaultTaskConfigInterface**
Bases: pyrsistent._precord.PRecord

class task_processing.interfaces.task_executor.**TaskExecutor**
Bases: object

The core interface for Task Processing This is the class you want to implement to add a new TaskExecutor

TASK_CONFIG_INTERFACE
The interface, specified as a PRecord of objects that you will be passing as task_configs to run

alias of *DefaultTaskConfigInterface*

get_event_queue()
Get queue of events

Returns TBD

kill(*task_id*)
Kill the specified task

Parameters **task_id** (*str*) – The task that you want to kill

run(*task_config*)
Run the supplied task

Parameters **task_config** – An object satistfying the TASK_CONFIG_INTERFACE

The executor should start running the provided task and return the task id.

Returns str task_id Callers get the id of the task that was run

to check status or kill it later

stop()
Stop the executor stack

Module contents

task_processing.plugins package

Subpackages

task_processing.plugins.mesos package

Submodules

task_processing.plugins.mesos.execution_framework module

task_processing.plugins.mesos.mesos_executor module

task_processing.plugins.mesos.translator module

Module contents

Module contents

task_processing.runners package

Submodules

task_processing.runners.async module

class task_processing.runners.async.**Async**(*executor*, *callbacks=None*)
Bases: *task_processing.interfaces.runner.Runner*

callback_loop()

kill(*task_id*)

run(*task_config*)

stop()

exception task_processing.runners.async.**AsyncError**
Bases: Exception

class task_processing.runners.async.**EventHandler**(*predicate*, *cb*)
Bases: tuple

cb
Alias for field number 1

predicate
Alias for field number 0

task_processing.runners.promise module

class task_processing.runners.promise.**Promise**(*executor*, *futures_executor*)
Bases: *task_processing.interfaces.runner.Runner*

kill(*task_id*)

run(*task_config*)
Schedules execution of the supplied task

Parameters **task_config** – An object satisfying the TASK_CONFIG_INTERFACE

Returns A Future object representing the execution of the task.

stop()

task_processing.runners.subscription module

class task_processing.runners.subscription.**Subscription**(*executor*, *queue*)
Bases: *task_processing.interfaces.runner.Runner*

event_producer()

kill(*task_id*)

run(*task_config*)

stop()

task_processing.runners.sync module

class task_processing.runners.sync.**Sync**(*executor*)
Bases: *task_processing.interfaces.runner.Runner*

kill(*task_id*)

run(*task_config*)

stop()

Module contents

Module contents

1.2 Indices and tables

- genindex
- modindex
- search

Python Module Index

t

Index

V