
settei Documentation

Release 0.2.0

Spoqa, Inc

Jul 12, 2016

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Configuration utility for common Python applications and services. FYI, “ssettei” () means settings in Japanese. :)

Loading a configuration is easy

Suppose you use Flask with Settei.

```
from flask import Flask
from settei import Configuration, config_property

class WebConfiguration(Configuration):
    """Load Configuration:

    [web]
    debug = true

    """

    #: debug option
    debug = config_property('web.debug', bool, default=False)

conf = WebConfiguration.from_path(pathlib.Path('.') / 'dev.toml')
app = Flask(__name__)

if __name__ == '__main__':
    app.run(debug=conf.debug)
```

References

2.1 settei — App object holding configuration

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2.1.1 settei.base — Basic app object

class settei.base.**Configuration** (*config: typing.Mapping[str, object] = {}, **kwargs*)

Application instance with its settings e.g. database. It implements read-only `Mapping` protocol as well, so you can treat it as a dictionary of string keys.

classmethod from_file (*file*) → settei.base.Configuration

Load settings from the given `file` and instantiate an `Configuration` instance from that.

Parameters `file` – the file object that contains TOML settings

Returns an instantiated configuration

Return type `Configuration`

classmethod from_path ()

Load settings from the given `path` and instantiate an `Configuration` instance from that.

Parameters `path (pathlib.Path)` – the file path that contains TOML settings

Returns an instantiated configuration

Return type `Configuration`

exception settei.base.**ConfigWarning**

Warning category which raised when a default configuration is used instead due to missing required configuration.

class settei.base.**config_property** (*key: str, cls: type, docstring: str = None, **kwargs*) → None

Declare configuration key with type hints, default value, and docstring.

Parameters

- **key (str)** – the dotted string of key path. for example `abc.def` looks up `config['abc']['def']`
- **cls (type)** – the allowed type of the configuration

- **docstring** (`str`) – optional documentation about the configuration. it will be set to `__doc__` attribute
- **default** – keyword only argument. optional default value used for missing case. cannot be used with `default_func` at a time
- **default_func** (`collections.abc.Callable`) – keyword only argument. optional callable which returns a default value for missing case. it has to take an `App` mapping, and return a default value. cannot be used with `default` at a time
- **default_warning** (`bool`) – keyword only argument. whether to warn when default value is used. does not warn by default. this option is only available when `default` value is provided

docstring

(`str`) The property indented `__doc__` string.

2.1.2 `settei.presets` — Richer presets for several frameworks

`settei.presets.celery` — Preset for Celery

```
class settei.presets.celery.WorkerConfiguration ( config: typing.Mapping[str, object] = {}, **kwargs)
```

The application object mixin which holds configuration for Celery.

on_worker_loaded (`app`)

Be invoked when a Celery app is ready.

Parameters `app` (`celery.Celery`) – a ready celery app

worker_broker_url

The url of the broker used by Celery. See also Celery's and Kombu's docs about broker urls:

<http://docs.celeryproject.org/en/latest/configuration.html#broker-url> <http://kombu.readthedocs.org/en/latest/userguide/connections.html#connection-urls>

worker_config

(`typing.Mapping [str , object]`) The configuration maping for worker that will go to `Celery.conf`.

worker_result_backend

The backend used by Celery to store task results. See also Celery's docs about result backends:

<http://docs.celeryproject.org/en/latest/configuration.html#celery-result-backend>

`settei.presets.flask` — Preset for Flask apps

`settei.presets.logging` — Preset for logging configuration

Preset for apps holding `logging` configuration. Logging can be configured through TOML file e.g.:

```
[logging]
version = 1

[logging.loggers.flask]
handlers = ["stderr"]

[logging.loggers."urllib.request"]
```

```
handlers = ["stderr"]

[logging.loggers.werkzeug]
handlers = ["stderr"]

[logging.handlers.stderr]
class = "logging.StreamHandler"
level = "INFO"
stream = "ext://sys.stderr"
```

```
class settei.presets.logging.LoggingConfiguration ( config: typing.Mapping[str, object] = {}, **kwargs)
```

Hold configuration for `logging`.

```
configure_logging () → None
```

Configure `logging`.

2.1.3 settei.version — Version data

```
settei.version.VERSION = '0.2.0'
```

(`str`) The version string e.g. '1.2.3'.

```
settei.version.VERSION_INFO = (0, 2, 0)
```

(`typing.Tuple`[:class:`int, int, int]`) The triple of version numbers e.g. (1, 2, 3).

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