
sprockets.mixins.postgresql

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Handler mixins that automatically connect a PostgreSQL client session upon initialization.

Installation

`sprockets.mixins.postgresql` is available on the [Python Package Index](#) and can be installed via `pip` or `easy_install`:

```
pip install sprockets.mixins.postgresql
```

Requirements

- sprockets
- sprockets.clients.postgresql

API Documentation

3.1 PostgreSQL Client Mixins

Sprockets mixins that automatically connects to PostgreSQL using `sprockets.clients.postgresql`.

Handlers implementing one of the mixins should set an attribute called `DBNAME` that specifies the database name to connect to. The value of `DBNAME` will be passed into the creation of the `Session` or `TornadoSession` object.

The Session classes wrap the Queries `Session` or `TornadoSession` providing environment variable based configuration.

The environment variables should be set using the `DBNAME_[VARIABLE]` format where `[VARIABLE]` is one of `HOST`, `PORT`, `DBNAME`, `USER`, and `PASSWORD`.

class `sprockets.mixins.postgresql.AsyncHandlerMixin`

A asynchronous Tornado handler mixin for connecting to PostgreSQL. The mixin automatically creates the database session using the `DBNAME` attribute of the class as the database name for the `TornadoSession` object creation.

Using the mixin, the name of the session attribute will be `<dbname>_session`, automatically created when initializing the object.

Example:

```
from sprockets.mixins import postgresql
from tornado import web

class FooRequestHandler(postgresql.AsyncHandlerMixin,
                        web.RequestHandler):

    DBNAME = 'foo'

    @web.asynchronous
    def get(self, *args, **kwargs):
        result = yield self.foo_session.query('SELECT * FROM bar')
        self.finish({'data': result.items()})
        result.free()
```

class `sprockets.mixins.postgresql.HandlerMixin`

A handler mixin for connecting to PostgreSQL. The mixin automatically creates the database session using the `DBNAME` attribute of the class as the database name for the `Session` object creation.

Using the mixin, the name of the session attribute will be `<dbname>_session`, automatically created when initializing the object.

Example:

```
from sprockets.mixins import postgresql
from tornado import web

class FooRequestHandler(postgresql.HandlerMixin,
                        web.RequestHandler):

    DBNAME = 'foo'

    def get(self, *args, **kwargs):
        result = self.foo_session.query('SELECT * FROM bar')
        self.finish({'data': result.items()})
```

3.2 Examples

The following example demonstrates using the *HandlerMixin* with a synchronous Tornado *RequestHandler* for a database named postgres:

```
import os

from sprockets.mixins import postgresql
from tornado import web

os.environ['POSTGRES_HOST'] = 'localhost'
os.environ['POSTGRES_USER'] = 'postgres'
os.environ['POSTGRES_PORT'] = 5432
os.environ['POSTGRES_DBNAME'] = 'postgres'

class PostgresRequestHandler(postgresql.HandlerMixin,
                             web.RequestHandler):

    DBNAME = 'postgres'

    def get(self, *args, **kwargs):
        result = self.foo_session.query('SELECT * FROM bar')
        self.finish({'data': result.items()})
```

The second example demonstrates using the *AsyncHandlerMixin* with an asynchronous Tornado *RequestHandler* for a database named foo:

```
import os

from sprockets.mixins import postgresql
from tornado import web

os.environ['FOO_HOST'] = 'localhost'
os.environ['FOO_USER'] = 'postgres'
os.environ['FOO_PORT'] = 5432
os.environ['FOO_DBNAME'] = 'foo'
os.environ['FOO_PASSWORD'] = 'bar'

class FooRequestHandler(postgresql.HandlerMixin,
                        web.RequestHandler):

    DBNAME = 'foo'
```

```
@web.asynchronous
def get(self, *args, **kwargs):
    result = yield self.foo_session.query('SELECT * FROM baz')
    self.finish({'data': result.items()})
    result.free()
```

Version History

See history

Issues

Please report any issues to the Github project at <https://github.com/sprockets/sprockets.mixins.postgresql/issues>

Source

`sprockets.mixins.postgresql` source is available on Github at <https://github.com/sprockets/sprockets.mixins.postgresql>

License

`sprockets.mixins.postgresql` is released under the [3-Clause BSD](#) license.

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