
Flask-CQLAlchemy Documentation

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Flask-CQLAlchemy handles connections to Cassandra clusters and gives a unified easier way to declare models and their columns

CHAPTER 1

Installation

```
$ pip install flask-cqlalchemy
```


CHAPTER 2

Dependencies

As such Flask-CQLAlchemy depends only on the cassandra-driver. It is assumed that you already have flask installed. Flask-CQLAlchemy has been tested with versions 2.6.0, 2.7.2, 3.0.0, 3.1.0, 3.1.1, 3.2.0 and 3.2.1 of cassandra-driver. It is known to work with all versions ≥ 2.5 , but use it at your own risk. All previous versions of Flask-CQLAlchemy are deprecated.

CHAPTER 3

Example

```
#example_app.py
import uuid
from flask import Flask
from flask.ext.cqlalchemy import CQLAlchemy

app = Flask(__name__)
app.config['CASSANDRA_HOSTS'] = ['127.0.0.1']
app.config['CASSANDRA_KEYSPACE'] = "cqlengine"
db = CQLAlchemy(app)

class User(db.Model):
    uid = db.columns.UUID(primary_key=True, default=uuid.uuid4)
    username = db.columns.Text(required=False)
```


CHAPTER 4

Usage

Start a python shell

```
>>from example_app import db, User
>>db.sync_db()
>>user1 = User.create(username='John Doe')
```

For a complete list of available method refer to the cqlengine [Model documentation](#)

Configuration Options

CQLAlchemy provides all the option available in the `cqlengine connection.setup()` method

- `CASSANDRA_HOSTS` - A list of hosts
- `CASSANDRA_KEYSPACE` - The default keyspace to use
- `CASSANDRA_CONSISTENCY` - The global default `ConsistencyLevel`
- `CASSANDRA_LAZY_CONNECT` - True if should not connect until first use
- `CASSANDRA_RETRY_CONNECT` - True if we should retry to connect even if there was a connection failure initially
- `CASSANDRA_SETUP_KWARGS` - Pass-through keyword arguments for `Cluster()`

CHAPTER 6

API

CQLAlchemy provides some helper methods for Cassandra database management

sync_db() - Creates/Syncs all the tables corresponding to the models declared in the application

set_keyspace() - Sets the keyspace for a session. Keyspaces once set will remain the default keyspace for the duration of the session. If the change is temporary, it must be reverted back to the default keyspace explicitly.