
tiote Documentation

Release 0.2.1

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Tiote enables django websites to administer PostgreSQL and MySQL databases. It provides a clean and intuitive interface to your database(s) with which you can use Database level functions.

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1.1 Installation

Installation steps can be summarised as making tiote and its associated static files accessible by your django project

1.1.1 Requirements

Please make sure the following requirements as highlighted below has being met

- sqlalchemy \geq 0.6.8
- django \geq 1.3
- python-psycopg2 (enables support for PostgreSQL databases)
- python-mysqldb (enables support for MySQL databases)
- static-files app for Django versions less than 1.3
- django session app
- Enabled javascript and Cookies in your browser (if not already enabled)

1.1.2 Installation Methods

using pypi

Install from pypi with the handle tiote. i.e.:

```
pip install tiote
```

checkout repository

Grab a copy of this repository:

```
git clone git://github.com/dumb906/tiote
```

Switch your directory into the root folder of the directory and run:

```
python setup.py install
```

This makes tiote accessible globally on your python path.

manual setup

You can also just make the `tiote` folder from the project repository be accessible by django's `manage.py`

1.1.3 Configuration

In the `settings.py` of your django project add 'tiote' to the `INSTALLED_APPS` settings and `django.contrib.sessions` if it is not already there. and run:

```
python manage.py syncdb
```

Note: If you are running tiote outside the django's development server. You need to setup serving of static files. See [managing static files](#)

In the `urls.py` of your project, add a url mapping for the tiote application (any address you want):

```
(r'^<custom_url_map>/', include('tiote.urls')),
```

Open link `<your_project>/<custom_url_map>` to begin using tiote. Where `<your_project>` is the top level of your django project and `<custom_url_map>` is the url mapping for the application

1.1.4 Upgrade

After any upgrade, remember to update the static files since they are usually set once. So if the django `static_app` is used, after updating the source files run `python manage.py runserver`

1.2 Customisation

Tiote comes with some reasonable defaults which take bandwidth and the number of database queries into consideration. But if your needs include more finetuning and plumbing then here are some options with which you can change the default behaviour of tiote.

All this settings are to be entered in `settings.py` or its equivalent

- `TT_SHOW_SYSTEM_CATALOGS` Include (set to True) or exclude (set to False) system catalogs. Excluding system catalogs is the default and increases individual page load. This option is only for the PostgreSQL dialect.
- `TT_SESSION_EXPIRY`: accepts an integer (default 1800) which is the amount of seconds before the session expires (to be asked to log on again). It doesn't conflict with other sessions from other django applications.
- `TT_MAX_ROW_COUNT` : accepts an integer (defaults to 30) which is the amount of rows displayed in any table under 'browse' view of section 'table'

1.3 Project Overview

Tiote enables django websites to administer PostgreSQL and MySQL databases. It provides a clean and intuitive interface to your database(s) with which you can use Database level functions. This functions can be summarised as CRUD (Create, Read, Update and Delete). It has been tested both on linux (ubuntu), and epio (<https://ep.io>) environments.

1.3.1 Screenshots of tiote

Database Overview

table	owner	tablespace	estimated row count
<input type="checkbox"/> auth_group	pg		0
<input type="checkbox"/> auth_group_permissions	pg		0
<input type="checkbox"/> auth_permission	pg		18
<input type="checkbox"/> auth_user	pg		0
<input type="checkbox"/> auth_user_groups	pg		0
<input type="checkbox"/> auth_user_user_permissions	pg		0
<input type="checkbox"/> django_content_type	pg		6
<input type="checkbox"/> django_session	pg		54
<input type="checkbox"/> django_site	pg		1

Browsing a Table

session_key	session_data	expire_date
<input type="checkbox"/> bc940ba6198874012d81834439403d62	ZTUwN2UyNjQ4NTA1Zjk4NzlhMTg0NDI1ZGZlMmM0...	2012-04-26 06:06:43.211758+
<input checked="" type="checkbox"/> 5ec7f5950eaad92d66aba183da272bc5	YzhkYjk2YmE5NDQ5NjM3NGJhYTMyOGZjMzQ1ZGIz...	2012-04-26 08:48:39.625171+
<input type="checkbox"/> 032d3078d9bf8103ee921e8d3c48d2e	YmM4NjhhNmU5M2FjZmU5ZDI1YmVhMzEzYzZmUx...	2012-04-25 12:18:34.066686+
<input type="checkbox"/> d86e66f3773704df83e06defb86c30b	ZDA5M2E3OTU1YjAwNzBiZTZiNTMxOTAwZmI5YzYz...	2012-04-25 17:59:22.873057+
<input type="checkbox"/> 5c6f2f8e0fe1208f65afe09249f30ef3	M2YxNDh1ZTNiMDVjNjdlZmM1ODI5MmNmMzgzMGE0...	2012-04-25 21:35:38.148330+
<input checked="" type="checkbox"/> f4baa2379ce9829eda1702f4a1caddc1	OTVhMzZlMjYxNDI1ZmI5MzYzZmUxZmI5YzYz...	2012-04-25 02:38:15.220753+
<input checked="" type="checkbox"/> ae1897d6f982096376c33b8ea44fc5dd	ZmM4NDIxNGZmNGQxZTA4MDY5MzI4NzhmMGVhMzEz...	2012-04-27 21:27:07.915919+
<input checked="" type="checkbox"/> 6e87b1e383f6199cb45908b9d6da274e	Mzk1MTQ2YTRlN2E2ZTkxNTBjMmYxMzE2MGJhOTE3...	2012-04-25 11:47:45.469362+
<input checked="" type="checkbox"/> 911864d137b3daa82e67e124be9f1115	ZjMwYWRmZmZmOwVhMzEzZmU5MzYzZmU5MzYz...	2012-04-26 07:13:45.120619+
<input type="checkbox"/> d64bc48dbc9cae88dc66cbb017489527	ZGRjZTRlZjI2MmU0YTEzZGQ0YUwYWE1NjJjNDk0...	2012-04-25 14:30:21.189241+
<input type="checkbox"/> 691156d2661fc7614fe3e16fcca438a1	YWY1OWVmOGY5OWVjZmU3MzcxZWUxZmI5MzYz...	2012-04-25 22:20:42.421106+
<input checked="" type="checkbox"/> cb5dfcd3ad90a6f603f16851d29ef3f5	MmZlYzA5ZmMwZTFkNTAwNWUyMGVhMzEzZmU5MzYz...	2012-05-01 01:57:37.355125+
<input type="checkbox"/> 640168ae15520b3c9cc14ae804307b9c	OWQzMmU3MDkzMzJiMmVjZWl0YUJlOTU3YUJlMmQy...	2012-04-25 12:32:03.462700+
<input checked="" type="checkbox"/> 2a9a4fcf0f8cc4b4b899c56b288133db	MjY5MjYzZmU5MzYzZmU5MzYzZmU5MzYzZmU5...	2012-04-28 10:00:37.175597+
<input checked="" type="checkbox"/> f90ee1ad1f2f1e7ab9fc86e6bd9b9cd	NzQwZDA3Y2NmMjQ0YWI0NTA0MWE3MGZmZjNmZWl2...	2012-04-24 19:02:03.229709+
<input type="checkbox"/> 33751e1471d1480a1b5336d31eb0708	Ndh1MGZkYjYyYzgzMjExZmMwOGFjNDg1YjczYzgz...	2012-04-28 10:46:11.243775+
<input type="checkbox"/> d1d9e8e83261c013bb7a648b975c1513	MjFhMmU0MzYzZmU5MzYzZmU5MzYzZmU5MzYz...	2012-04-28 11:01:13.152650+
<input type="checkbox"/> 092c088cd4264e2ce26fb35990ad95b8	YjZlOTk5MzYzZmU5MzYzZmU5MzYzZmU5MzYz...	2012-04-28 22:40:32.207826+
<input type="checkbox"/> 790be77d136205003c8f0aa39ca97e1	ZTBhMGUyOTVhMzYzZmU5MzYzZmU5MzYzZmU5...	2012-04-28 23:38:17.662980+

Editing a Table Row

No use of foreign keys It takes a high amount of database queries to generate all the needed data for a single column to a single table needed foreign relations. This would then increase polynomially for all the columns in a table. Therefore automation and editing of foreign key relations are disabled

1.5 Changelog

1.5.1 0.2.4 : *July 22, 2012*

column creation. better postgresql constraints' view bug fixes

1.5.2 0.2.3 : *May 27, 2012*

Viewing, dropping and resetting sequences. All under database overview

1.5.3 0.2.2 : *May 24, 2012*

performance optimisations

rewrote the logic for making queries and generating views

now makes use of a lot of SQLAlchemy functions

bug fixes

1.5.4 0.2.1 : *May 3, 2012*

wrote docs <tiote.readthedocs.org>

editing of table rows

refreshed sidebar

1.5.5 0.2.0 : *April 19, 2012*

Project files can now be downloaded from pypi

Links

- [Code](#)
- [Bug Tracker](#)
- [Mailing List](#)