DJANGO DATABASES AND TEMPLATES

Models & Views & Stuff

DJANGO USES MODELS

Models define the information your Django database will store, and the data manipulation that happens to that information when it is retrieved from the database.

STEP 1: SETUP YOUR DATABASE

Install Postgres to your system.

Mac: Visit http://postgresapp.com/

Windows: Visit http://www.postgresql.org/download/ and

install

ADD POSTGRES TO YOUR PATH (IF IT ISN'T ALREADY)

Mac:

Edit .bashrc to add /Applications/Postgres. app/Contents/Versions/9.4/bin to your path

Windows:

Add it to your path in your environmental variables

You can verify it worked by running "which psql" in the terminal.

USE PIP3 TO INSTALL PSYCOPG2

Mac:

pip3 install psycopg2

Windows:

pip3 install psycopg2-windows

START POSTGRES' SHELL

run "psql -h localhost" in the terminal
To exit this terminal, type /q, or press ctrl+D

Password error? Try:

sudo -u postgres psql

Database error:

- \$ createdb
- \$ psql -h localhost

CREATE A NEW DATABASE

```
$ createdb poll db
(or $ sudo -u postgres createdb poll_db)
$ psql
(or $ sudo -u postgres psql)
CREATE ROLE myusername WITH LOGIN PASSWORD 'mypassword';
GRANT ALL PRIVILEGES ON DATABASE poll_db TO myusername;
ALTER USER myusername CREATEDB;
```

Replace "myusername" with a username you want.

CREATE A NEW DJANGO PROJECT

Create a new Django project called "poll_site"

Open your settings.py file and add your DB info:

```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.postgresql_psycopg2',
        'NAME': 'poll_db',
        'USER': 'myusername', #The username you set
        'PASSWORD': 'mypassword', #The password you set
        'HOST': '',
        'PORT': '',
```

CHECK YOUR DATABASE INSTANCE

run "python3 manage.py check"

No errors?

run "python3 manage.py migrate"

DJANGO.DB.MODELS.MODEL

```
Each Model class should inherit from django.db.models. Model,
```

and have class variables that each represent a field in your table.

```
class Question(models.Model):
```

```
question_text = models.CharField(max_length=200)
pub_date = models.DateTimeField('date published')
```