Self Hosted OpenEats

Env: Centos 7
Dependencies:
```
python-devel
python-pip
django
gcc
git
postgresql-devel
postgresql-libs
```

MySQL:
```
mysql-devel
MySQL-python        # install via pip while inside openeats
                    # virtual environment
```

mariadb:
```
mariadb-devel    # v5.5
mysqlclient      # install via pip while inside openeats
                 # virtual environment
```
MariaDB:
```
MariaDB-devel
mysqlclient        # the same with mariadb...
                   # if MariaDB is installed 1st. you won't be able to
                   # pip install mysqlclient. I've only managed to make
                   # it work by installing it 1st. then install MariaDB
                   # afterwards.
```


Steps:

To install pip get EPEL repo.
```
sudo yum -y install epel-release #python-pip req
sudo yum -y update
```

Installed the required packages.
```
sudo yum -y install python-pip python-devel django gcc git
postgresql-devel postgresql-libs
sudo pip install --upgrade pip          # to latest
sudo pip install --upgrade setuptools
```

`* if port is blocked.`

```
*sudo firewall-cmd --zone=public --permanent --add-port=8000/tcp
*sudo firewall-cmd --reload
```

Setup virtualenv and virtualenvwrapper
```
pip install virtualenv --user
pip install virtualenvwrapper --user
```

Add to .bashrc
```
export WORKON_HOME=~/Envs
export VIRTUALENVWRAPPER_PYTHON=/usr/bin/python2.7
source $HOME/.local/bin/virtualenvwrapper.sh
```

then run
```
source ~/.bashrc
mkdir -p $WORKON_HOME
```

Create our virtual environment
```
mkvirtualenv openeats --no-site-packages
workon openeats
```

Terminal then looks like this
```
    # before
        [user@host ~]$
    # after
        (openeats) [user@host ~]$
```

Install additional dependencies
```
pip install MySQL-python
pip install mysqlclient          # for MariaDB v10 and
                                 # mariadb v5.5
```

Clone the repo
```
git clone https://github.com/DeEgge/openeats.git
```

Install additional pkg required by Openeats
```
pip install -r openeats/requirements.txt
```

########## **Sqlite3** ##########
```
sqlite3 ~/openeats/openeats/openeats.db ".databases"
```

Edit `openeats/settings.py` with these:
```
if os.environ.get('DEBUG', 'True').lower() == 'true':
    DEBUG = True
```

```
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': '/home/cranz/openeats/openeats/openeats.db',

        ALLOWED_HOSTS = ['127.0.0.1']
```
* using $USER variable didn't work for me so directly input the user value instead

Make migrations, fill up the database with sample data, create static files and create superuser
```
        cd ~/openeats
        ./manage.py makemigrations
        ./manage.py migrate
        ./manage.py collectstatic --noinput --clear
        ./manage.py createsuperuser          # run this after applying
                                             # fixtures
                                             # user won't be created if run
                                             before fixtures
```

Apply some minor fixtures
```
        ./manage.py loaddata openeats/accounts/fixtures/test_user_data.json
        ./manage.py loaddata openeats/list/fixtures/list_test_data.json
        ./manage.py loaddata openeats/list/fixtures/aisle_data.json
        ./manage.py loaddata openeats/accounts/fixtures/test_friend_data.json
        ./manage.py loaddata openeats/recipe_groups/fixtures/course_data.json
        ./manage.py loaddata openeats/recipe_groups/fixtures/cuisine_data.json
        ./manage.py loaddata openeats/recipe/fixtures/recipe_data.json
        ./manage.py loaddata openeats/ingredient/fixtures/ing_data.json
```

Then run
```
        python manage.py runserver 0:8000
```

########## **MySQL** ##########
Get the repo @ https://dev.mysql.com/downloads/repo/yum/
```
        wget https://dev.mysql.com/get/mysql57-community-release-el7-11.noarch.rpm
```

Install the repo
```
        sudo rpm -ivh mysql57-community-release-el7-11.noarch.rpm
```

Install MySQL
```
        sudo yum -y install mysql-server
```

Start MySQL
```
        systemctl start mysqld
```

Get the temp password for MySQL root

```
      sudo grep 'temporary password' /var/log/mysqld.log
```

Configure MySQL and will be prompted to enter the temp password
and will be required to enter a new password. Password should be 12-char/more
containing atleast 1 upppercase,lowercase, a number and a special char
```
      Mysql_secure_installation
```

Create a database
```
      mysql -u root -p

      mysql> create database openeatsDB;
      mysql> Ctrl+d to exit
```

Edit openeats/settings.py
```
      if os.environ.get('DEBUG', 'True').lower() == 'true':
          DEBUG = True

      'ENGINE': 'django.db.backends.mysql',
      'NAME': 'openeatsDB',
      'USER': 'root',
      'PASSWORD': 'Password1!',

      ALLOWED_HOSTS = ['127.0.0.1']
```
* using $USER variable didn't work for me so directly input the user value instead

Make migrations, fill up the database with sample data,
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```
      cd ~/openeats
      ./manage.py makemigrations
      ./manage.py migrate
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      ./manage.py createsuperuser      # run this after applying
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      ./manage.py loaddata openeats/accounts/fixtures/test_friend_data.json
      ./manage.py loaddata openeats/recipe_groups/fixtures/course_data.json
```

```
./manage.py loaddata openeats/recipe_groups/fixtures/cuisine_data.json
./manage.py loaddata openeats/recipe/fixtures/recipe_data.json
./manage.py loaddata openeats/ingredient/fixtures/ing_data.json
```

Then run
```
python manage.py runserver 0:8000
```

########## **mariadb** ##########
Install mariadb
```
sudo yum -y install mariadb-server
```

Start mariadb
```
systemctl start mariadb
```

Configure mariadb. Just press Enter on the 1st prompt.
```
mysql_secure_installation
```

Create a database
```
mysql -u root -p

MariaDB> create database openeatsMariaDB;
MariaDB> Ctrl+d to exit
```

Edit openeats/settings.py
```
if os.environ.get('DEBUG', 'True').lower() == 'true':
    DEBUG = True

'ENGINE': 'django.db.backends.mysql',
'NAME': 'openeatsmariadb',
'USER': 'root',
'PASSWORD': 'root',

ALLOWED_HOSTS = ['127.0.0.1']
```
* using $USER variable didn't work for me so directly input the user value instead

Make migrations, fill up the database with sample data,
create static files and create superuser
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./manage.py makemigrations
./manage.py migrate
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./manage.py createsuperuser       # run this after applying
                                  # fixtures
```

```
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```

Apply some minor fixtures
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```

Then run
```
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```

########## **MariaDB** ##########
Default repo v5.5/ Direct MariaDB repo v10
For Setting up Direct MariaDB Repo
Create a file "`MariaDB.repo`" w/ this inside

```
# MariaDB 10.1 CentOS repository list - created 2018-02-10 06:32
UTC
# http://downloads.mariadb.org/mariadb/repositories/
[mariadb]
name = MariaDB
baseurl = http://yum.mariadb.org/10.1/centos7-amd64
gpgkey=https://yum.mariadb.org/RPM-GPG-KEY-MariaDB
gpgcheck=1
```

Then save to " `/etc/yum.repos.d/`" and run `yum update`
Make sure mysql-server is not installed
```
sudo yum remove mysql*
```

Install MariaDB
*make sure mysqlclient is installed via pip first inside the workon virtual environment
```
sudo yum -y install MariaDB-server
```
Start MariaDB
```
systemctl start mariadb
```

Configure MariaDB. Just press Enter on the 1st prompt.
```
mysql_secure_installation
```

Create a database
```
mysql -u root -p

MariaDB> create database openeatsMariaDB;
MariaDB> Ctrl+d to exit
```

Edit openeats/settings.py
```
if os.environ.get('DEBUG', 'True').lower() == 'true':
    DEBUG = True

'ENGINE': 'django.db.backends.mysql',
'NAME': 'openeatsMariaDB',
'USER': 'root',
'PASSWORD': 'root',

ALLOWED_HOSTS = ['127.0.0.1']
```
* using $USER variable didn't work for me so directly input the user value instead

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