**Project Title**

CMPE 195 Senior Project

**Getting Started**

These instructions will get you a copy of the project up and running on your local machine for development and testing purposes.

**Prerequisites**

(What things you need to install the software and how to install them)

* Mac or Linux operating system
* Internet Connection
* Python 2.7.13
* Pip
* Homebrew
* Django
* Materialize
* Postgres version 10
* Pyscopg2
* Anaconda2 version 5.0.1
* GlueViz
* Docker version 17.09

**Note:**  “$” symbol represents commands to be typed in terminal

**Installing**

1. Please make sure you have a stable Internet connection.
   1. Download SeniorProject.zip file and extract to your Documents folder
2. Python
   1. Go to <https://www.python.org/downloads/release/python-2713/>
   2. Download: Mac OS X 64-bit/32-bit installer (pkg)
   3. Once downloaded, click on the installer and follow the installation wizard.
3. Install PIP (if not installed with python)
   1. $ curl -O http://python-distribute.org/distribute\_setup.py
   2. $ python distribute\_setup.py
   3. $ curl -O https://raw.github.com/pypa/pip/master/contrib/get-pip.py
   4. $ python get-pip.py
4. Install Homebrew
   1. $ /usr/bin/ruby -e "$(curl -fsSL <https://raw.githubusercontent.com/Homebrew/install/master/install)>"
5. Install Django
   1. $ pip install Django
6. Install Materialize
   1. pip install django-materialize-css
7. Install Postgres
   1. Go to <https://www.enterprisedb.com/downloads/postgres-postgresql-downloads#macosx>
   2. Select PostgreSQL 10.1 and Mac OS X from the drop down and click on Download
   3. Once downloaded, click on the installer and follow the installation wizard.
   4. Use default setting when prompted for Installation directory
   5. Use select All Components option when prompted
   6. Enter “admin” for password
   7. Enter port 5432 for port selection
   8. If prompted for accepting internet collection, Click on Allow button
   9. Click on finish to finish the installation

**Import DB**

* 1. Go to the SeniorProject folder or cd into SeniorProject folder in your terminal
  2. $ psql –h localhost –p 5432 –U postgres
     1. Enter “admin” when promoted password
     2. Type cmd -> CREATE DATABASE restaurantdb; -> Enter -> CTRL-z
  3. $ psql –h localhost –p 5432 –U postgres restaurantdb < outfile

1. Install psycopg2
   1. $ pip install psycopg2
2. Install Anaconda
   1. Go to <https://www.anaconda.com/download/#macos>
   2. Download the Python2.7 Anaconda version
3. Install Docker
   1. Go to: <https://www.docker.com/community-edition#/download>.
   2. Click on get docker & follow the installation wizard.
   3. Search for "docker " in the application & run the application by clicking on it.

**Running the Project:**

1. Anaconda ML data generation and populate to DB
2. Go to Applications folder and open Anaconda.
3. Once Anaconda is opened, click on install glueviz for graph display
4. Click on Launch inside jupyter thumbnail.
5. A new browser opens, click on Upload and find the [Senior+Project+ML.ipynb](http://localhost:8889/notebooks/Senior%20Project%20ML.ipynb) inside ProjectDR folder
6. Navigate to SeniorProject folder

a. $ cd ~/home/Documents/SeniorProject/projectDR/Atom\_code/

1. Populate Database after running Anaconda notebook and start

webserver

1. $ django manage.py makemigrations
2. $ django manage.py migrate

c. $ django manage.py runserver

4. Start Docker (Optional)

a. Go to Application and click on the Docker app

b. Go to <https://docs.docker.com/compose/django/> and follow instructions

to start docker instance.

5. Open Website

a. Open Safari web browser

b. Go to http://127.0.0.1:8000

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