Django Install

Install

1. Create virtual environment: `$ python -m venv myenv`
2. Activate your virtual environment:
   a. Mac: `$ source myenv/bin/activate`
   b. Windows Bash: `$ . myenv/Scripts/activate`
   c. Windows Powershell: `$ myenv/Scripts/Activate.ps1`
3. Install Django: `$ pip install django`
4. Install Django Rest Framework: `$ pip install djangorestframework`
5. Freeze your pip requirements: `$ pip freeze > requirements.txt`
   a. This directory will be the git repo.
   b. This is where the .gitignore will be.
   c. This is where the requirements.txt will be.
6. Create a .gitignore
   a. A common gitignore that covers all things python:
      https://raw.githubusercontent.com/github/gitignore/main/Python.gitignore
   b. Add your virtual environment to the file: example: `myenv/`
7. Initialize your git repo: `$ git init`   `your_project_name .`
8. Connect your repo to GitHub
9. Create Django Project: `$ django-admin startproject your_project_name`
10. CD into your-project-name directory: `$ cd your_project_name`
    a. Has a project directory named the same as your project where all the project config happens
11. Create Django App: `$ python manage.py startapp your_app_name`
    a. This has files and configuration that are just for this app.
    b. You can have multiple apps per project.
12. Add Rest Framework and your app to the project config.
    a. Open settings.py
    b. 'INSTALLED_APPS' list
    c. Add `rest_framework,`
    d. Add your app at the end - `your_app_name`
13. Run migrations
    a. `$ python manage.py makemigrations`
    b. `$ python manage.py migrate`

Add File To Run Python Scripts

Any python scripts that we want to run to query the database can be done by running this script.

1. Download `standalone_script.py` from the Slack 'Operations' channel
2. Add file to the your_project_name directory.
3. Rename "your_project_name" on line 6 to the name of your project
4. Run in terminal $ `python standalone_script.py`

Contents of standalone_script.py

If you are going to create this file from scratch it would have this content.

```Python
import os
import django
from django.conf import settings
# Use this by running:
# python standalone_script.py
os.environ["DJANGO_SETTINGS_MODULE"] = "django_restaurant.settings"
django.setup()

# Now you have django, so you can import models and do stuff as normal
### NOTE
# DO NOT CHANGE CODE ABOVE THIS LINE
# WORK BELOW
```

pip install django-cors-headers

CORS_ALLOWED_ORIGINS = ['http://localhost:8080']

CORS_ALLOW_METHODS = [
  'GET',
  'POST',   corsheaders.middleware.CorsMiddleware -added to the top of MIDDLEWARE
  'PUT',
  'PATCH',
  'DELETE',
  'OPTIONS',
]
                                             add 'corsheaders' to installed apps
CORS_ALLOW_HEADERS = [
  'Content-Type',
  'Authorization',
]