# **Django Files And How They Work**

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#### What I'll discuss here:

- 1) Recap on last file, how to create any Django project.
- 2) Your created project built in files.
- 3) How Django works.

- 1) Let's recap our steps to create any Django project and run it on server:
- 1) Install Pythonv3.8 or newer
- 2) Install Virtual Environment
- 3) Create Virtual environment
- 4) Activate Virtual Environment
- 5) Install Django
- 6) Create Project
- 7) Run the project on server & migrate

On visual Studio Code, run your server :

#### python3 manage.py runserver

- 2) Now let's get to know the new installed built in files:
- 1) \_\_init\_\_.py
- 2) asgi.py
- 3) settings.py
- 4) urls.py
- 5) wsgi.py
- 6)db.sqlite3

1) \_\_init\_\_.py:

Contains your imported libraries, and you won't use it much.

## 2) <u>asgi.py</u> && 5) <u>wsgi.py</u>:

- -Files related to server.
- -You won't use them.

## 3) settings.py

The brain of the project. Contains everything.

- -Contains your **SECRET\_KEY** that you shouldn't share with anyone.
- -Contains your **installed apps** and any app you install ,you should write it here :

```
INSTALLED_APPS = [
   'django.contrib.admin',
   'django.contrib.auth',
   'django.contrib.contenttypes',
   'django.contrib.sessions',
   'django.contrib.messages',
   'django.contrib.staticfiles',
]
```

#### -Contains your **Frontend templates**:

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-Contains your **used databases**. It has **sqlite3** so it could work, but you can use **PostgreSQL** for big projects.

```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': BASE_DIR / 'db.sqlite3',
    }
}
```

#### -Contains password validation :

## -Contains static url or files such as html/css/images

STATIC URL = 'static/'

### 4) urls.py

- -Very important too, and you'll be using it for all your created paths.
- -If you wanna create a path like:

facebook.com/groups

facebook.com/settings

facebook.com/profile

and so on.. you'll write them and create them there ...

```
from django.contrib import admin
from django.urls import path

urlpatterns = [
    path('admin/', admin.site.urls),
]
```

## 

- -By creating web applications from your project.
- **-Project** makes **many apps**. Each app is responsible for a path.

(Like I gave you the Facebook example before: groups - settings - profile),

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your django project creates apps, one for each path .. one for groups , another for settings, another for profile

#### -Each app contains the following:

- Views
- Models
- Templates
- Urls

#### Views:

- -The leader of them all.
- -Decides what is displayed, and what is not.

#### Models:

-Your Database

#### Templates:

- -You create this.
- -This is your created **Frontend**.

#### Urls:

- -You create this too.
- -This is different than the one in the project built in files.