Go to cmd prompt and set the path of Python Scripts

To check pip version

pip --version

To upgrade pip command

python -m pip install --upgrade pip

To check django version

pip –m django –version

or

django-admin --version

To install django

pip install django

To uninstall django

pip uninstall django

To Choose the Location in your computer

D:

D:\>mkdir djangoclass

D:\>cd djangoclass

D:\djangoclass

To set the python path in this current location.

After that only you will create your project

Django Project

- To create a Django project, we can use the following command. projectname is the name of Django application.

```
django-admin startproject projectname
```

Django Project Example

- Here, we are creating a project myFirstProject in the current directory.

```
django-admin startproject myFirstProject
```

- After creating a project in cmd prompt and choose the location of the project .
- After downloading the atom IDE and choose the set up and click yes and go to file menu and choose settings and click install Packages like **Platformio IDE Terminal** and **atom django** also.
- After finish the above process drags and drops this project in atom IDE.

A Django project contains the following packages and files. The outer directory is just a container for the application. We can rename it further.

- **manage.py:** It is a command-line utility which allows us to interact with the project in various ways and also used to manage an application.
- A directory (myFirstProject) located inside, is the actual application package name. Its name is the Python package name which we'll need to use to import module inside the application.

- **__init__.py:** It is an empty file that tells to the Python that this directory should be considered as a Python package.
- **settings.py:** This file is used to configure application settings such as database connection, static files linking etc.
- **urls.py:** This file contains the listed URLs of the application. In this file, we can mention the URLs and corresponding actions to perform the task and display the view.
- **wsgi.py:** It is an entry-point for WSGI-compatible web servers to serve Django project.

Initially, this project is a default draft which contains all the required files and folders.

Running the Django Project

- Django project has a built-in development server which is used to run application instantly without any external web server.
- It means we don't need of Apache or another web server to run the application in development mode.

To run the application, we can use the following command.

```
python manage.py runserver
```

- Look server has started and can be accessed at localhost with port 8000.
- Go to browser window and type this url http://127.0.0.1:8000 and it will shows django server is working properly.
- 127.0.0.1->localhost or ip address of current machine
- 8000->server port number
- http://127.0.0.1:8000 is a default server url to run django web applications or you can type in this format also localhost:8000

- The application is running successfully.
- Now, we can customize it according to our requirement and can develop a customized web application.

How to change the server port number

To type this below command

python manage.py runserver portno

For ex:

python manage.py runserver 7777

Stop the server by typing ctrl+c in cmd