**Quick Commands**

#Installed folder

E:\Software\anaconda\_virtual\_server

#Creating new django server

conda create --name <server\_name> django

#Starging server

conda activate <server\_name>

#End Server

conda deactivate

#Listing all servers environments

conda info --envs

#To start a django project via VS studio

#navigate to the code folders via cmd

#once there

django-admin startproject <project\_name>

#it creates file structure, in order to start web server run, file manage.py must be

#in folder directory – Starts server

python manage.py runserver

#To create an application inside the created server

Python manage.py startapp <app\_name>

**Django Project Structure**

|  |  |
| --- | --- |
|  | * **\_\_init\_\_.py** = Blank python file that defines the whole dir as a Package * **Settings.py** = stores all server settings, pages dir, DB, css/js * **Urls.py** = stores all the URL links of your project, where webpages of the site are stored * **Wsgi.py** = File that stores Web Server Gateway Interface information, which is used for application deployment (prod, dev,uat) * **Manage.py** = Script that stores commands that build web project and application |

#Creates project  
django-admin startproject <project\_name>

#Starts server  
python manage.py runserver

**Django Application Structure**

|  |  |
| --- | --- |
|  | * **\_\_init\_\_.py** = Blank python file that defines the whole dir as a Package * **Admin.py** =registers Models, where a auto Admin interface is built automatically * **Apps.py** = Stores application specific configuration * **Models.py** = Stores models and data structures, where entity and data modes information are stored. * **Tests.py** = Specific automatic test scripts can be stored * **Views.py** = File that sores REQUESTS and RESPONSES * **Migrations Folders** = Stores database specific information and its relations to the models. |

#To create an application inside the created server

Python manage.py startapp <app\_name>

**Creating Models and Automatic Database structure**

Navigate to project folder, find manage.py and type command below

* Python manage.py migrate

Then, to generate and render Models into DB

* Python manage.py makemigrations <app\_name>

**Registering into ADMIN all Models/Classes into viewing/managing DB objects.**

In admin.py, register every model class from models.py, use the code line below:

* Admin.site.register(Model\_NAME)

Creating super user, via conda CMD, for the first user to be created, later can be done via Admin screen.

* Python manage.py createsuperuser

**Creating and configuring a Django project**

Run the command below in the preferred folder, using anaconda CMD

* django-admin startproject <project\_name>

A file structure will be created as listed below. You will need to create an application in order to start a web system, a project may have many applications.

* Python manage.py startapp <app\_name>

Project/Settings.PY

Needed to define the definitive path of project and application structures

This defines the static folder for CSS/JS/ etc. Variable must be the same as STATI\_FILES\_DIR