Django Project

Create a virtual environment: ***python -m venv my\_env***

Activate the virtual environment: ***.\my\_env\Scripts\activate***

Install Django: ***pip install Django~=4.1.0***

Check if Django is installed: ***python -m django –version***

Create a Django project: ***django-admin startproject mysite***

Apply Initial Database migrations: ***cd mysite & python manage.py migrate***

Run development server to check if the project is running without errors: ***python manage.py runserver***

Create a Django application: python manage.***py startapp blogsite***

Creating Model:

modify model.py file to model’s database with classes

Activating the Application: Edit the settings.py file and add ***blogsite.apps.BlogsiteConfig*** to the INSTALLED\_APPS

Create and apply migrations: ***python manage.py makemigrations blogsite***

Sync the database with the new model: ***python manage.py migrate***

Creating Administration site:

Create a super user: python manage.py createsuperuser

Adding models to administration site: edit the admin.py file to import models: ***from .models import <model name>*** & ***admin.site.register(<model name>)***

Creating/adding object or models in database programmatically:

-***python manage.py shell***

-***from <application>.models import <model name>***

-***<model name>.objects.create(<model attributes as params>)***

Retrieving objects or model data from database programmatically

-***python manage.py shell***

-***from <application>.models import <model name>***

-***<model name>.objects.all()*** #retrieves all objects

