Hello world website with Django

Create the project root directory with the following command: mkdir django\_practice

Create a virtual environment using the venv module with the command python -m venv .venv

Cd into django\_practice directory and create the virtual environment

The name of the virtual environment directory is .venv and the period that precedes the virtual environment directory indicates that the directory will be hidden.

Activate the virtual environment

Inside the django\_practice directory use the following command to activate the virtual environment : .venv/scripts/activate

Or using the gitbash use the following command: source .venv/scripts/activate

Install Django

With the virtual environment activated and at the root of django\_practice use the following command to install Django package: pip install Django

Start a new project

With the virtual environment activated and at the root of django\_practice use the following command to start a new project: django-admin startproject django-project .

The period after the django\_project name is intentional, this will make Django to place all the files inside one single directory.

When Django created the django\_project directory, several in-built apps were created along .

We need to apply migrations so that this changes can be applied to the database.

With the virtual environment activated, and at the root of django\_practice directory, use the following command to apply migration: python manage.py migrate

Start the development server

With the virtual environment activated and at the root of django\_practice directory, use the following command to start the development server: python manage.py startserver

Stop the development server with the following command: cntrl + c

Starting an app.

With the virtual environment activate and at the root of django\_practice, use the following command to start an app: python manage.py startapp pages.

Add the pages app to the list of installed apps inside the django\_project directory settings

Create a view

Open the view.py file of pages app and write the following codes

from django.http import HttpResponse

def new\_home\_page(request):

return Httpresponse(“Hello World”)

we need to match a url path to this view function

create a url.py inside the pages app and write the following code

from django.urls import path

from ,views import new\_home\_page

urlptterns = [path( “”, new\_home\_page)]

There is an in-built urls.py file inside the root directory django\_project

Open the urls.py file and import the following code:

From django.urls import path, include

Add the page url path to the list of the url inside the urls.py file of django\_project directory

The urls.py file has an inbuilt admin url path

urlspatterns = [path(“admin”,),

Path(“”, include(“pages.urls”)]

Start the development server with python manage.py runserver.

This will display hello world