**Creating a new website**  
**1. Set up your environment:**

* Install Python: Ensure Python is installed on your system.
* Create a virtual environment: This isolates your project's dependencies.
* **python -m venv myenv**
* **myenv\Scripts\activate**
* Install Django.
* **pip install Django**

**2. Create a Django Project:**

* Start a new project.3wq
* **django-admin startproject mywebsite**
* **cd mywebsite**
* Run the development server: Verify the project setup.
* **python manage.py runserver**

**3. Create a Django App**

**A Django *project* can have multiple *apps* (e.g., blog, accounts, shop).**

* **python manage.py startapp main**

**4. Register the App**

Open mywebsite/settings.py, and add 'main', to the INSTALLED\_APPS list:

**INSTALLED\_APPS = [**

**'django.contrib.admin',**

**'django.contrib.auth',**

**...**

**'main', # <- Add this**

**]**

**5. Define a View**

Inside main/views.py, define your first view:

**from django.http import HttpResponse**

**def home(request):**

**return HttpResponse("Hello, this is the homepage!")**

**6. Set Up URLs**

1. Create a urls.py inside the main app:

**from django.urls import path**

**from . import views**

**urlpatterns = [**

**path('', views.home, name='home'),**

**]**

1. Connect app URLs to project URLs:In mywebsite/urls.py, import include and update urlpatterns:

**from django.contrib import admin**

**from django.urls import path, include**

**urlpatterns = [**

**path('admin/', admin.site.urls),**

**path('', include('main.urls')), # <- This links the app's URLs**

**]**

**7**. Run the Server Again

* **python manage.py runserver**
* **Go to http://127.0.0.1:8000/**

1. Create a templates folder in your app

Inside your main app, create a folder structure like this:

main/

├── templates/

│ └── home.html

Then create a file named home.html inside main/templates/ with some basic HTML:

**<!-- main/templates/home.html -->**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<title>My Django Site</title>**

**</head>**

**<body>**

**<h1>Welcome to My Website!</h1>**

**<p>This is the homepage rendered using an HTML template.</p>**

**</body>**

**</html>**

2. Update the view to render the template

Edit main/views.py to use Django’s render() function:

**from django.shortcuts import render**

**def home(request):**

**return render(request, 'home.html')**

3. Make sure Django knows where to find templates

**TEMPLATES = [**

**{**

**'BACKEND': 'django.template.backends.django.DjangoTemplates',**

**'DIRS': [], # Keep it empty for now, or add global paths here**

**'APP\_DIRS': True,**

**...**

**},**

**]**

4. Restart the development server (if it’s not already running):

**python manage.py runserver**

5. Visit the homepage

**Go to: http://127.0.0.1:8000/**

**Hello, this is the homepage!**