**Steps to Start a Django Project**

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Must installed python from [python](https://www.python.org/downloads/).org

& also install

From Microsoft store install [interpreter](https://www.microsoft.com/store/productId/9NCVDN91XZQP?ocid=pdpshare)

**1. Setup**

1. Create a new folder on your desktop.
2. Open Command Prompt in that folder. (enter cmd in your file path )
3. Create a virtual environment:

**py -m venv your\_environment\_name**

1. Activate the environment:

**your\_environment\_name\Scripts\activate.bat**

1. Install Django:

**pip install Django (Or) py -m pip install Django**

**2. Create and Setup a Django Project**

1. Create a Django project:

**django-admin startproject project\_name**

1. Navigate into the project directory:

**cd project\_name**

1. Open Visual Studio Code: **code .**
2. **Create an App**

1.Open a new terminal in VS Code

2.Create an app within the project:

**py manage.py startapp app\_name**

**Project Configuration**

**1. Register the App**

* Open the **settings.py** file in your project.
* Add your app name to the **INSTALLED\_APPS** list:

**INSTALLED\_APPS = [**

**...,**

**'app\_name',**

**]**

**2. Setup URLs**

1. In the project's **urls.py**, include the app's URL:

**path('app\_name/', include('app\_name.urls')),**

1. Inside the app, create a **urls.py** file.

**\*\***Example of urls .py structure inside the app :

from django.urls import path

from **app\_name** import views

app\_name = **'app\_name’**

urlpatterns = [  ]

**3. Create HTML Templates**

1. Create a **templates** folder inside the app.
2. Inside the **templates** folder, create a folder with the same name as the app. This is where HTML files will be stored.

**Writing Views and URLs**

1. **Views**:
   * Define a view in **views.py**:

**def index(request):**

**return render(request, 'app\_name/index.html')**

1. **URLs**:
   * In **urls.py**, add the URL pattern for the view:

**path('index/', views.index, name='index'),**

**Essential Django Commands**

1. Run the server:

**py manage.py runserver**

1. Create migrations:

**py manage.py makemigrations**

1. Apply migrations:

**py manage.py migrate**

**Displaying the Index Page**

* To display the index page as the homepage, modify the project's **urls.py:**

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