

Django App Setup Guide (VS Code + Virtual Environment)

Step 1: Project Folder & VS Code Setup

1. Create a folder for your Django project (e.g., `TeacherPortal`).
 2. Open Visual Studio Code.
 3. Open the folder in VS Code: `File > Open Folder > Select your project folder`.
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Step 2: Create a Virtual Environment

1. Open the VS Code terminal (`Ctrl + ~`).
2. Run:

```
python -m venv venv
```

This creates a virtual environment named `venv`.

1. Activate the virtual environment:
2. On Windows:

```
venv\Scripts\activate
```

3. On Mac/Linux:

```
source venv/bin/activate
```

Step 3: Install Django

```
pip install django
```

Step 4: Create a Django Project

```
django-admin startproject myproject .
```

The `.` at the end creates the project in the current folder.

Step 5: Create a Django App

```
python manage.py startapp myapp
```

Step 6: Run Development Server

```
python manage.py runserver
```

Step 7: Configure settings.py

Open `myproject/settings.py` and:

a. Add app to `INSTALLED_APPS`:

```
INSTALLED_APPS = [  
    ...  
    'myapp',  
]
```

b. Add templates folder:

```
TEMPLATES = [  
    {  
        ...  
        'DIRS': ['templates'],  
        ...  
    },  
]
```

Create a `templates/` folder in the root and put your HTML files there.

Step 8: Create urls.py in App

Inside `myapp/`, create a file named `urls.py` and replace its content with the code you cloned from GitHub:

```
# Replace this file's content with cloned URL configurations from GitHub
```

Step 9: Include App URLs in Project

In `myproject/urls.py`:

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('myapp.urls')),
]
```

Step 10: Replace Views & Models

Open `myapp/views.py` and `myapp/models.py` and replace their content with the code you cloned from GitHub.

Step 11: Make Migrations & Migrate

In the terminal, stop the server (`Ctrl + C`) and run:

```
python manage.py makemigrations
python manage.py migrate
```

Step 12: Run Server Again

```
python manage.py runserver
```

Done!