

**Here is you solution:**

### **Step-by-Step**

**Create a folder in D:/ with some name D:\django\_Projects:**

**In VS code à View Menuà terminal**

**In VS code terminal do this.**

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#### **1 Create Django project ( in VS code)**

From your parent folder (e.g., D:\django\_Projects):

django-administrator startproject squareproject // if this does not work, use below command

python -m django startproject squareproject

cd squareproject

- This creates squareproject/ folder with manage.py.

Observe manage.py and squareproject

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#### **2 Create Django app**

From project root (same folder as manage.py):

python manage.py startapp mycalculator

This creates mycalculator/ folder at the same level as manage.py.

**In VS code à File Menuà open folder à browse squareproject**

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#### **3 Update settings.py**

Open squareproject/settings.py and add your app to INSTALLED\_APPS:

```
INSTALLED_APPS = [  
    # default Django apps ...  
    'mycalculator',  
]
```

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#### **4 Create views.py in mycalculator**

Edit mycalculator/views.py:

```
from django.shortcuts import render  
def square_view(request):  
    result = None  
    number = None  
    if request.method == "POST":
```

```
try:  
    number = float(request.POST.get("number"))  
    result = number ** 2  
except (ValueError, TypeError):  
    result = "Invalid input! Please enter a number."  
return render(request, "mycalculator/square.html", {"result": result, "number": number})
```

## 5 Create urls.py in mycalculator

Create a new file: mycalculator/urls.py:

```
from django.urls import path  
from . import views
```

```
urlpatterns = [  
    path("", views.square_view, name='square'),  
]
```

## 6 Update project urls.py

Edit squareproject/urls.py:

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

```
urlpatterns = [  
    path('admin/', admin.site.urls),  
    path('calculator/', include('mycalculator.urls')), # app URL  
]
```

## 7 Create template

Folder structure:

```
mycalculator/  
    └── templates/  
        └── mycalculator/  
            └── square.html
```

square.html content:

```
<!DOCTYPE html>  
<html>  
<head>
```

```

<title>Square Calculator</title>
</head>
<body>
    <h1>Square Calculator</h1>
    <form method="POST">
        {% csrf_token %}
        <label>Enter a number:</label>
        <input type="text" name="number" value="{{ number }}">
        <button type="submit">Calculate Square</button>
    </form>

    {% if result is not None %}
        <h2>Result: {{ result }}</h2>
    {% endif %}
</body>
</html>

```

### **8 Run server**

From project root:

python manage.py runserver ( in VS code)

- Open browser: <http://127.0.0.1:8000/calculator/>
- Enter a number → click **Calculate Square** → see the result.

# Square Calculator

Enter a number:  Calculate Square

**Result: 25.0**