

Creating APIs in Flask

Team ID	PNT2022TMID05098
Project	Containment Zone Alerting Application

STEP 1: Install Virtual Environment

```
python -m pip install virtualenv
```

STEP 2: Create an Environment

```
mkdir tharma
```

```
cd tharma
```

```
python -m venv myflask
```

STEP 3: Activate the Environment

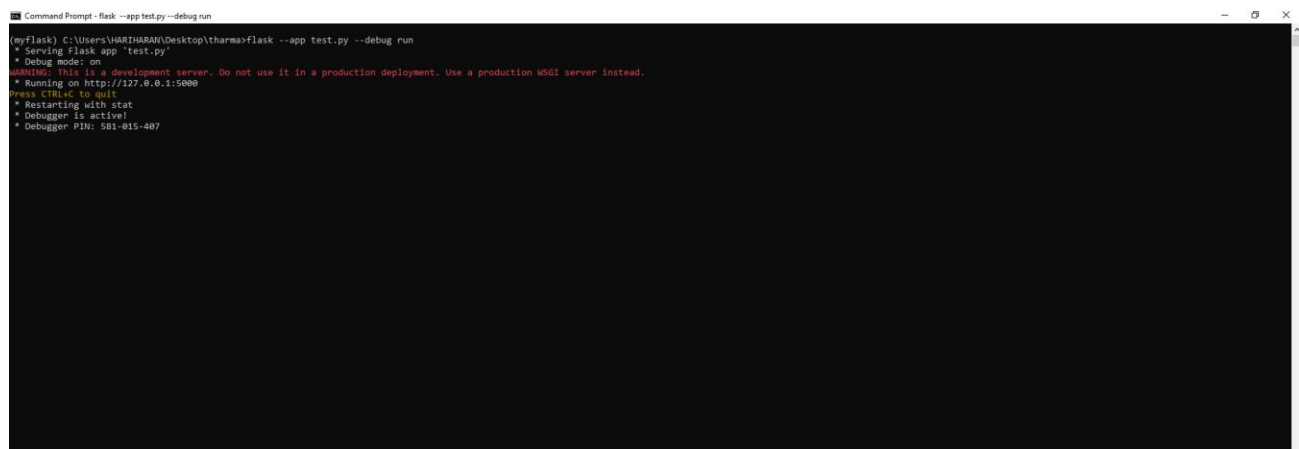
```
C:\Users\Hariharan\desktop\tharma> Myflask\Scripts\activate
```

STEP 4: Install and Test the Environment

```
pip install Flask
```

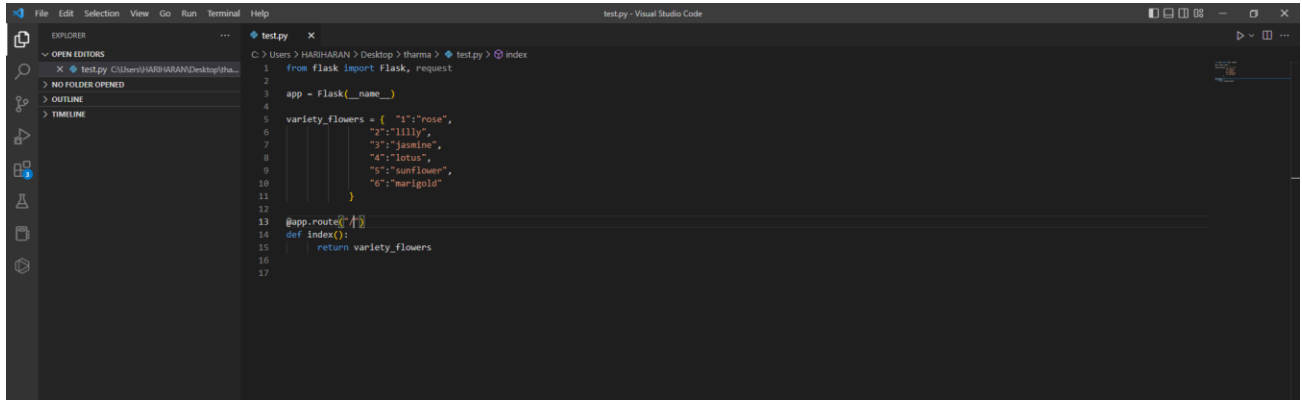
```
set FLASK_APP="test.py"
```

```
flask -A test.py --debug run
```



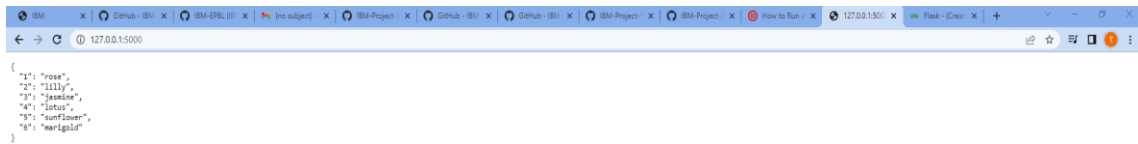
```
Command Prompt - flask --app test.py --debug run
(myFlask) C:\Users\HARIHARAN\Desktop\tharma> flask --app test.py --debug run
* Serving Flask app "test.py"
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 581-015-487
```

STEP 5:



The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left shows a project named 'test.py' located at 'C:\Users\HARSHARAN\Desktop\thama'. The main editor window displays the following Python code:

```
1 from flask import Flask, request
2
3 app = Flask(__name__)
4
5 variety_flowers = {
6     "1": "rose",
7     "2": "lilly",
8     "3": "jasmine",
9     "4": "lotus",
10    "5": "sunflower",
11    "6": "marigold"
12 }
13
14 @app.route("/")
15 def index():
16     return variety_flowers
17
```



The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000'. The browser tab is titled 'Flask - (Cres)'. The page content displays the following JSON response:

```
{
  "1": "rose",
  "2": "lilly",
  "3": "jasmine",
  "4": "lotus",
  "5": "sunflower",
  "6": "marigold"
}
```