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Experiment – Module 5: Flask

AIM: To study Flask

PROBLEM STATEMENT:

Design using Flask

- 1) A Contact Us Form
- 2) A Portfolio Website.

Demonstrate the usage of Routing, Request Object and Templating

IMPLEMENTATION:

➤ Enter “Pip install flask” command in terminal

```
PS D:\Sem 6\Web X\flask-module> pip install flask
Requirement already satisfied: flask in c:\python311\lib\site-packages (2.2.2)
Requirement already satisfied: Werkzeug>=2.2.2 in c:\python311\lib\site-packages (from flask) (2.2.2)
Requirement already satisfied: Jinja2>=3.0 in c:\python311\lib\site-packages (from flask) (3.1.2)
Requirement already satisfied: itsdangerous>=2.0 in c:\python311\lib\site-packages (from flask) (2.1.2)
Requirement already satisfied: click>=8.0 in c:\python311\lib\site-packages (from flask) (8.1.3)
Requirement already satisfied: colorama in c:\python311\lib\site-packages (from click>=8.0->flask) (0.4.6)
Requirement already satisfied: MarkupSafe>=2.0 in c:\python311\lib\site-packages (from Jinja2>=3.0->flask) (2.1.2)
PS D:\Sem 6\Web X\flask-module>
```

➤ Create app.py

```
from flask import Flask, render_template
app = Flask(__name__, static_url_path='/static')

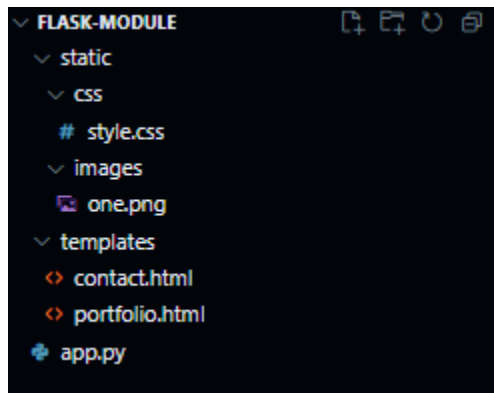
@app.route('/')
def portfolio():
    return render_template('portfolio.html')

@app.route('/contact')
def contact():
    return render_template('contact.html')
```

```
@app.route('/blog')
def blog():
    return render_template('blog.html')

if __name__ == '__main__':
    app.run(debug=True)
```

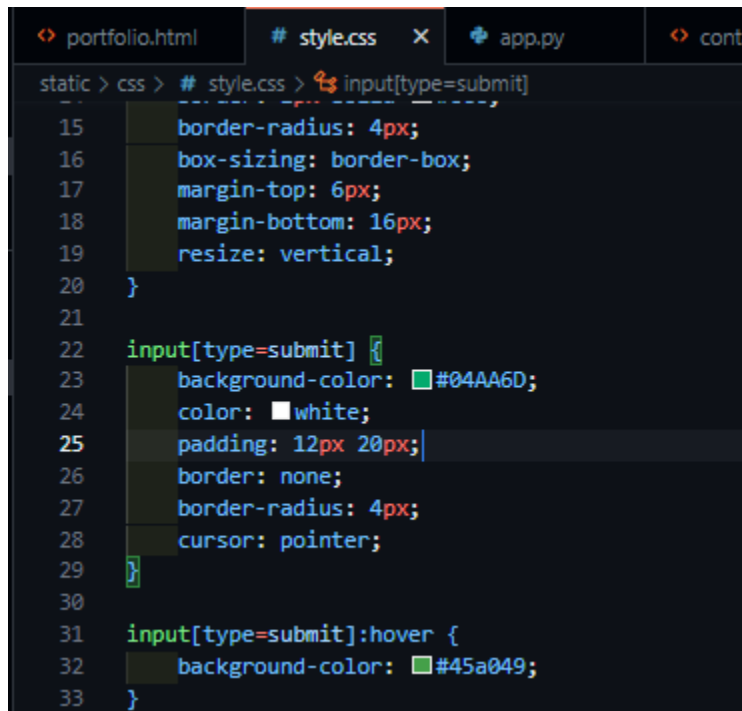
➤ Folder structure



- The static folder in Flask is a special folder that contains static assets (i.e., files that don't change dynamically) such as images, CSS files, and JavaScript files.

- The templates folder is used for storing HTML templates that are used to generate dynamic content for web pages.

➤ style.css



➤ In contact us page, we linked css with html

➤ For that, we use following link

```
<link rel="stylesheet" type="text/css" href="{{ url_for('static',filename='css/style.css') }}">
```

```
templates > contact.html
1  <!DOCTYPE html>
2  <html>
3  <head>
4
5  <title>Mayuri contact </title>
6  <meta name="viewport" content="width=device-width, initial-scale=1">
7  <link rel="stylesheet" type="text/css" href="{{ url_for('static',filename='css/style.css') }}">
8
9  </head>
10 <body>
11
```

➤ We called the contact us page here

```
</div>
</div>
<a href="{{ url_for('contact') }}">Contact Us</a>
</button>
</div>
```

➤ To link Image

➤ Images are stored in static folder

```
.bgimg {
    background-position: center;
    background-repeat: no-repeat;
    background-size: cover;
    background-image: url("/static/images/one.png");
    min-height: 100%;
}
```

➤ Output

Mayuri contact

127.0.0.1:5000/contact

WELCOME TO MY WEBSITE

If you have any query, feel free to contact me

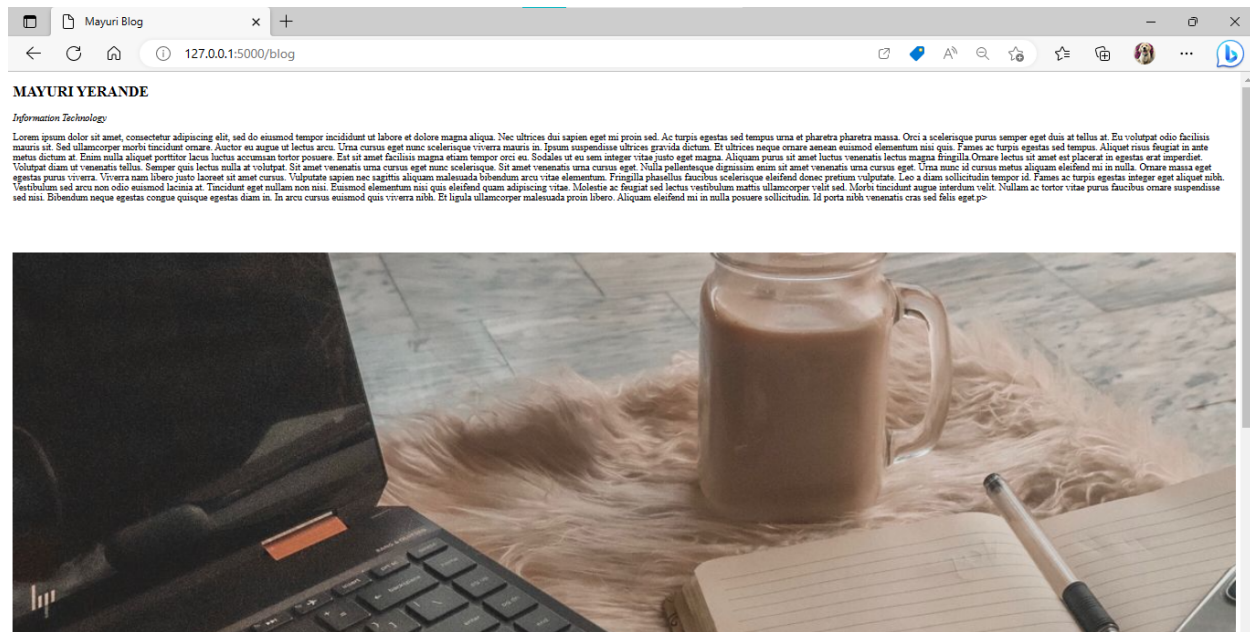
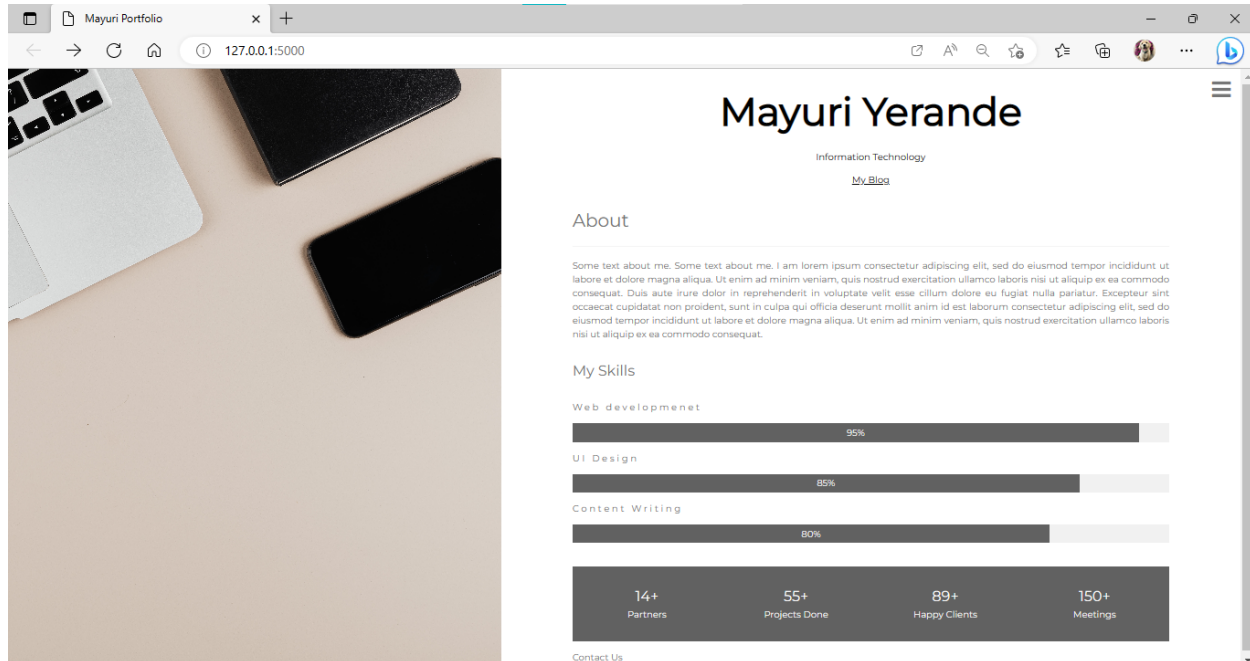
First Name
Your name..

Last Name
Your last name..

Contact number
Your contact number..

message
Write something..

Submit



CONCLUSION: Thus We understood the file structure of Flask. We performed Routing and linked our css and image files to html pages. Therefore we successfully created a portfolio website with contact and blog page using Flask.