

120A3051
Shreya Idate
Batch: E3

Experiment 12

Aim: Design Portfolio Website using Flask.

Theory:

We will create portfolio website using flask framework. this will provide detailed information about a person. At its most basic form, a portfolio website provides professional information about an individual or a company and presents a showcase of their work.

Template Inheritance:

Template inheritance is a very good feature of Jinja templating . Jinja is a web template engine for the Python programming language . We have seen that webpages of a website contains same footer, navigation bar etc. So instead of making same footer and navigation bar in all webpages separately , we make use of template inheritance , which allows us to create the part which is same in all webpages (eg. footer,navigation bar) only once and we also don't need to write the html , head , title tag again and again . Lets define the common structure of web pages in base.html file. First of all we will render template using flask from main.py file.

Step 1 – Create a flask app to render the main template

```
from flask import Flask, render_template

app = Flask(__name__)

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

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

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

Step 2 – Create HTML Files

Now we will set up our base.html file in which we have one heading which will be common in all webpages.

Syntax:

```
{% block content %}  

{% endblock %}
```

The code above and below these lines will be the same for every web pages and the code between them will be for a specific web page.

```
<!doctype html>
<html>
  <head>
    <title>{% block title %}{% endblock %}</title>
    <link rel="stylesheet" type="text/css" href="{{ url_for('static', filename='style.css') }}"/>
  </head>
  <body>
    <header>
      <h1>{% block heading %}{% endblock %}</h1>
      <nav>
        <ul>
          <li><a href="/">Home</a></li>
          <li><a href="/projects">Projects</a></li>
        </ul>
      </nav>
    </header>
    <main>
      {% block content %}{% endblock %}
    </main>
  </body>
</html>
```

Now we will set up our home.html file in which we will inherit template from “base.html” file and will write some code for home page also.

Syntax:

```
{% extends "base.html" %}\n    {% block content %}\n        write code here for home page only\n    {% endblock %}
```

index.html

```
{% extends 'base.html' %}  
{% block title %}Shreya's Portfolio{% endblock %}  
{% block heading %}Shreya's Portfolio{% endblock %}  
{% block content %}  
<section>  
<table>  
    <tr>  
        <td rowspan="5"></td>  
    </tr>  
  
    <tr>  
        <td>  
            <p>Enthusiastic programmer with a desire to learn and develop software/applications.  
                Skilled in C, C++, Java and SQL backend tools with an analytical approach. Also, an  
                experienced content writer with a knack for creativity. Presently pursuing Bachelor's of  
                Engineering in Information Technology at SIES Graduate School of Technology.</p>  
        </td>  
    </tr>  
    <tr>  
        <td>  
            <p>  
                KEY EXPERTISE / SKILLS - Python, ReactJS, PostgreSQL, NodeJS, Express.js,  
                Java, JavaFX, Flask, HTML, CSS, Javascript, Figma, C, C++  
            </p>  
        </td>  
    </tr>  
    <tr>  
        <td>  
            <img alt="LinkedIn icon" href="https://www.linkedin.com/in/shreyashreya123/">  
            <img alt="GitHub icon" href="https://github.com/Shreya1234567890" style="margin-left: 10px;">  
        </td>  
    </tr>  
</table>  
</section>  
{% endblock %}
```

projects.html

```
{% extends 'base.html' %}  
{% block title %}Shreya's Portfolio{% endblock %}  
{% block heading %}Shreya's Portfolio{% endblock %}  
{% block content %}  
    <section>  
        <ol>  
            <li>CURIOCITY</li>  
            <ul>  
                <li>Mentor: Prof. Stuti Ahuja</li>  
                <li>Team Size: 4</li>  
                <li>Key Skills: JavaFX, PostgreSQL</li>  
                <li>This project was developed to bring different people in a locality closer as well as provide much-needed exposure to small businesses and help them find reliable part-timers from the same locality. The application also helps tourists identify famous local restaurants or viewpoints of the city.</li>  
            </ul>  
            <li>AUTOMATED MAIL SOCIAL AID</li>  
            <ul>  
                <li>Mentor: Prof. Samundiswary S</li>  
                <li>Team Size: 4</li>  
                <li>Key Skills: Flask, PostgreSQL</li>  
                <li>This project was developed with the aim to help social websites send an automated mail to their regular subscribers on their birthdays to help spread joy through the act of donating to the needy. The application also includes an admin dashboard to manage the database for the registered people as well as the list of donations received.</li>  
            </ul>  
            <li>HIRE-UP</li>  
            <ul>  
                <li>Mentor: Prof. Stuti Ahuja</li>  
                <li>Team Size: 4</li>  
                <li>Key Skills: MongoDB, Express.js, ReactJS, NodeJS</li>  
                <li>A freelancing website for college students along with an integrated payment gateway and a business model. The application is developed using ReactJs, NodeJS, ExpressJS, and MongoDB tech stack.</li>  
            </ul>  
        </ol>  
    </section>  
{% endblock %}
```

Basic setup:

- Create a file and name it as portfolio.py
- Create html file as base.html, index.html, projects.html (apply template inheritance)

Output:**Shreya's Portfolio**

[Home](#) [Projects](#)



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KEY EXPERTISE / SKILLS - Python, ReactJS, PostgreSQL, NodeJS, Express.js, Java, JavaFX, Flask, HTML, CSS, Javascript, Figma, C, C++

Shreya's Portfolio

[Home](#) [Projects](#)

1. CURIOSITY

- Mentor: Prof. Stuti Ahuja
- Team Size: 4
- Key Skills: JavaFX, PostgreSQL
- This project was developed to bring different people in a locality closer as well as provide much-needed exposure to small businesses and help them find reliable part-timers from the same locality. The application also helps tourists identify famous local restaurants or viewpoints of the city.

2. AUTOMATED MAIL SOCIAL AID

- Mentor: Prof. Samundiswary S
- Team Size: 4
- Key Skills: Flask, PostgreSQL
- This project was developed with the aim to help social websites send an automated mail to their regular subscribers on their birthdays to help spread joy through the act of donating to the needy. The application also includes an admin dashboard to manage the database for the registered people as well as the list of donations received.

3. HIRE-UP

- Mentor: Prof. Stuti Ahuja
- Team Size: 4

Conclusion: Portfolio website has been developed.