

EXPERIMENT NO. 3

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AIM: To develop a basic Flask application with multiple routes and demonstrate the handling of GET and POST requests.

OVERVIEW OF TASKS PERFORMED:

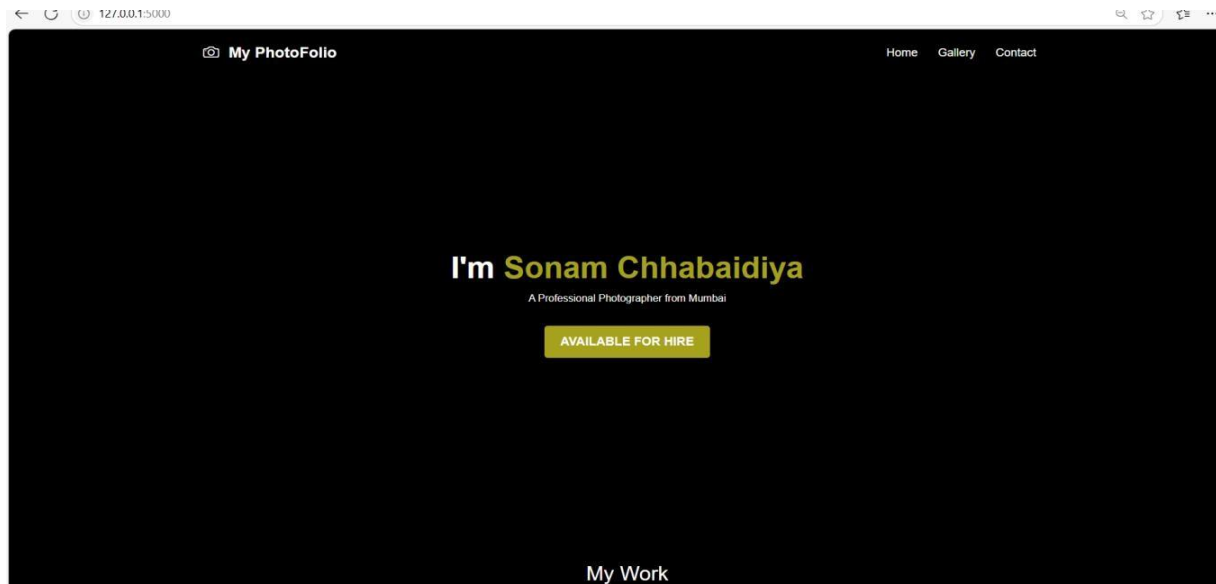
The experiment involves designing a Flask web application with multiple routes. A **homepage (/)** displays a welcome message and supports dynamic personalization using a query parameter. A **contact page (/contact)** contains a form for users to enter their name and email. Upon submission via the **POST** method, the data is processed and displayed on a **thank-you page (/thank_you)**. The application demonstrates both **GET** and **POST** request handling, enabling personalized messages and form data submission.

GITHUB LINK: <https://github.com/sonamcc/webbbx3>

OUTPUT

a) Homepage (/)

This screenshot displays the output of the homepage when accessed without any query parameters. The default welcome message, "**Welcome to the homepage!**", is shown, along with a hyperlink labeled "**Go to the contact form**" that redirects users to the contact page. This demonstrates the basic functionality of the homepage and how it serves static content in the absence of user-specific input.

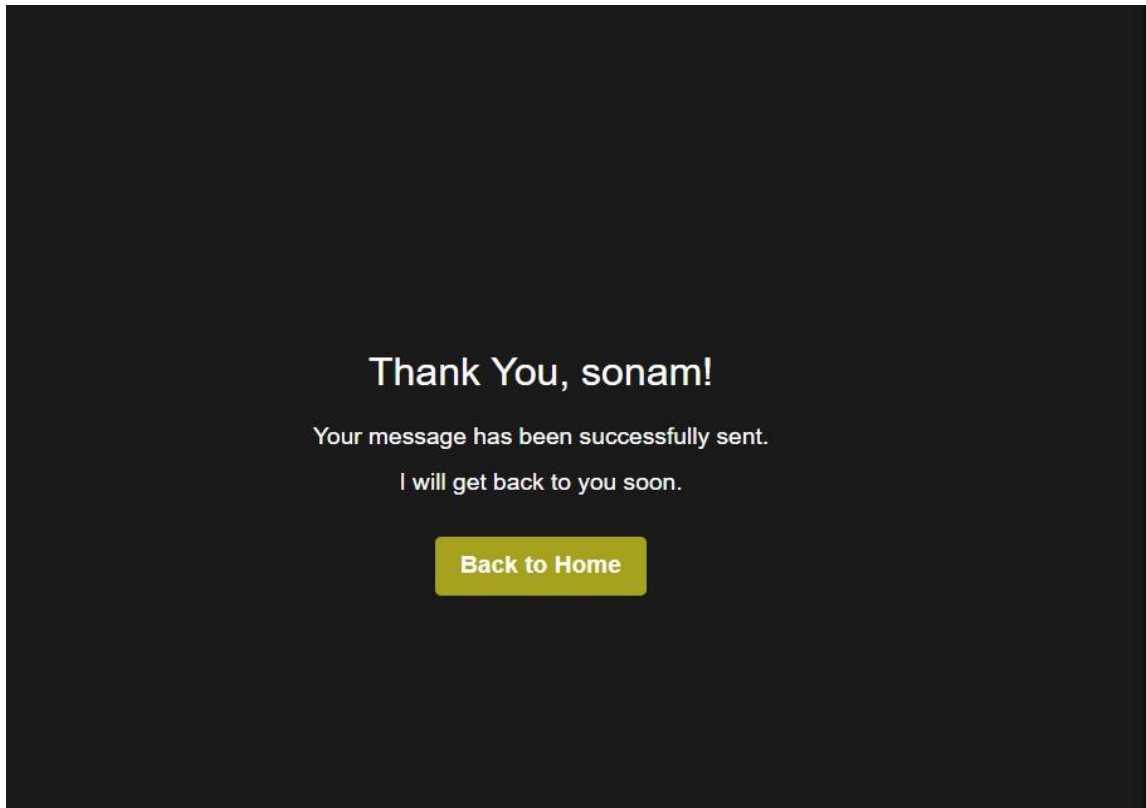


b) Contact Page (/contact)

A screenshot of the 'Contact Me' page of the website. The page has a dark background. At the top, there are three landscape photographs: a large tree, a hot air balloon over a valley, and a sunset over a desert. Below the photos, the text 'Contact Me' is centered. Underneath, there are three labeled input fields: 'Name', 'Email', and 'Message'. Each field has a white input box. At the bottom of the form, there is a blue button with the text 'Send'.

This screenshot shows the contact form page where users can enter their **name** and **email**. The form includes labeled input fields and a submit button. When the user enters their details and submits the form, the data is processed via the **POST** method and redirected to the **thank-you page**. This highlights Flask's ability to handle user input and form submission securely.

c) After Form Submission (/thank_you)



This screenshot represents the output after successfully submitting the contact form. The **thank-you page** displays a message, "**Thank You for Contacting Us!**", along with the user's submitted **name** . Additionally, a "**Back to homepage**" link is provided for navigation. This demonstrates how Flask processes form data, passes it via the URL query string, and renders it dynamically on the response page.

CONCLUSION

A Flask web application was developed with multiple routes to handle **GET** and **POST** requests. It included a **homepage (/)** with a dynamic welcome message, a **contact page (/contact)** for form submission, and a **thank-you page (/thank_you)** to display submitted data. The experiment demonstrated Flask's routing, request handling, form submission, and template rendering capabilities.