EXPERIMENT NO. 4 - Flask Application using GET and POST

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AIM : To design a Flask application that showcases URL building and demonstrates the use of HTTP methods (`GET` and `POST`) for handling user input and processing data.

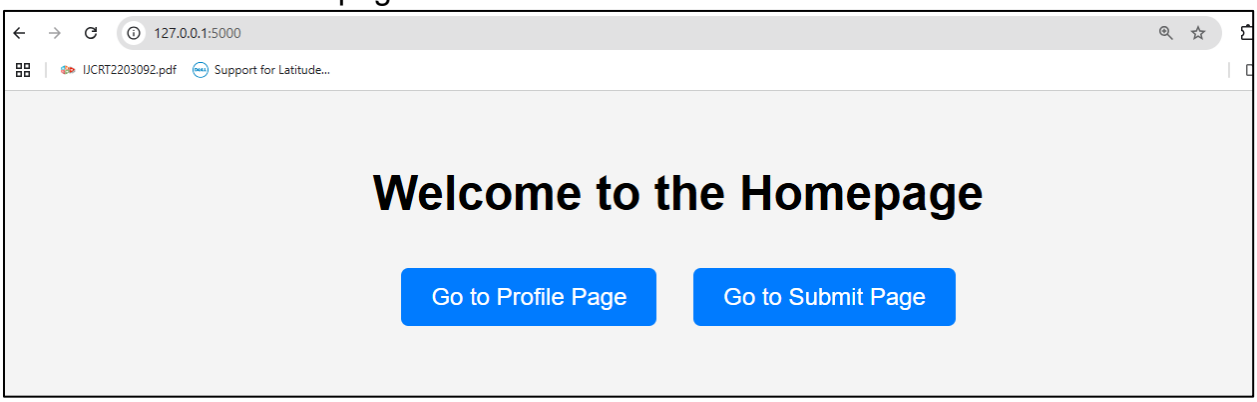
OVERVIEW OF TASKS PERFORMED :

The experiment involves developing a Flask application with three key routes. The **homepage ("/")** contains links to a "Profile" and "Submit" page using the `url_for()` function. The **"Profile" page ("/profile/<username>")** dynamically displays the user's name based on the URL parameter. The **"Submit" page ("/submit")** presents a form to collect a user's name and age, submitting data via the POST method. Upon submission, the server processes the input and displays a confirmation message.

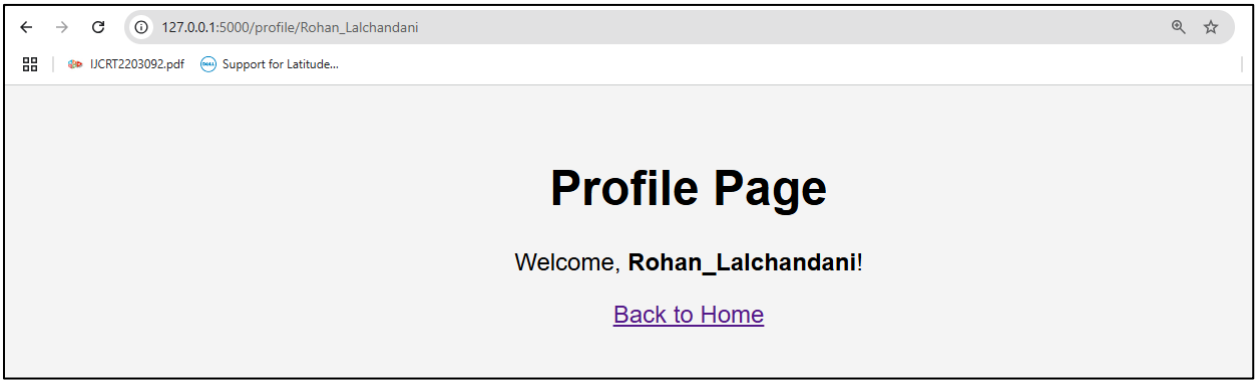
GITHUB LINK – https://github.com/Rohan-Lalchandani08/WebX_Lab/tree/main/WebX_Exp4

OUTPUT :

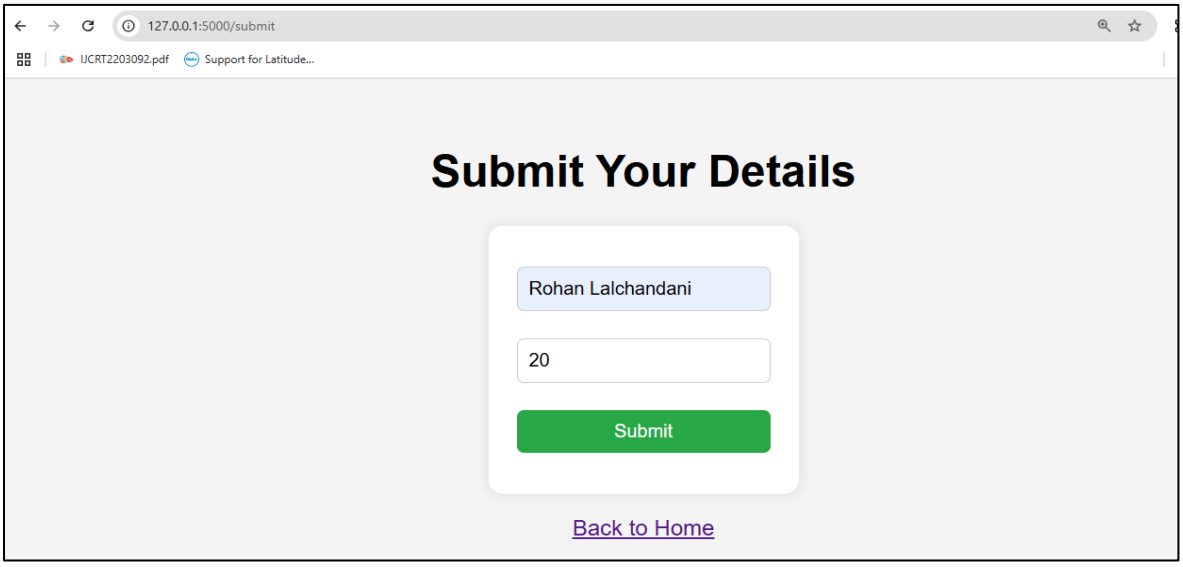
- **Homepage:** The homepage will display two links: one to the "Profile" page and another to the "Submit" page.



- **Profile Page:** After submitting the form with your name and age, the profile page will display your details dynamically.



- **Submit Page:** The form will allow users to enter their name and age, and upon submission, they will be redirected to the profile page with the entered details.



CONCLUSION

The experiment successfully demonstrated the implementation of **GET and POST** methods in a Flask application. It involved creating a **homepage (/)** with links to other pages, a **dynamic profile page (/profile/<username>)** that displayed user-specific data from the URL, and a **form-based submit page (/submit)** that handled user input via the **POST** method.

Through this experiment, key Flask concepts such as **URL building (url_for), dynamic routing, form handling, HTTP methods, and enabling debug mode** were explored. This practical implementation highlighted Flask's capability to create interactive web applications with minimal code.