

Experiment NO. 5 : Flask Application using render_template() function.

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|-----------------|-------------------|
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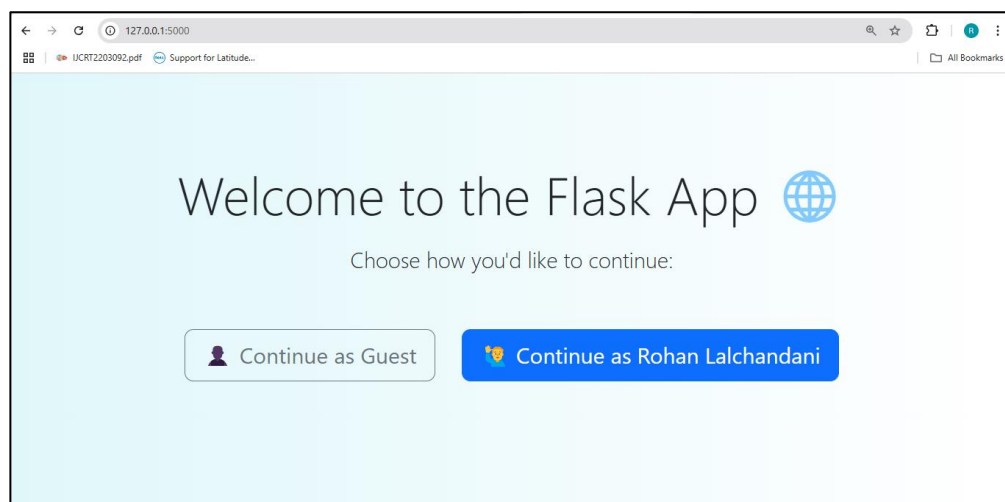
AIM : To create a Flask application that demonstrates template rendering by dynamically generating HTML content using the `render_template()` function.

OVERVIEW OF TASKS PERFORMED :

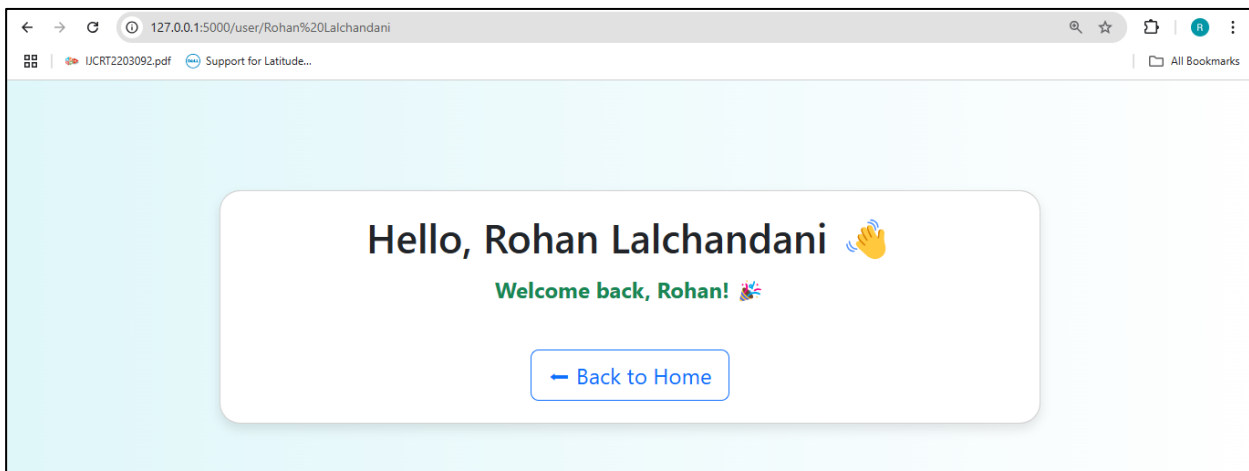
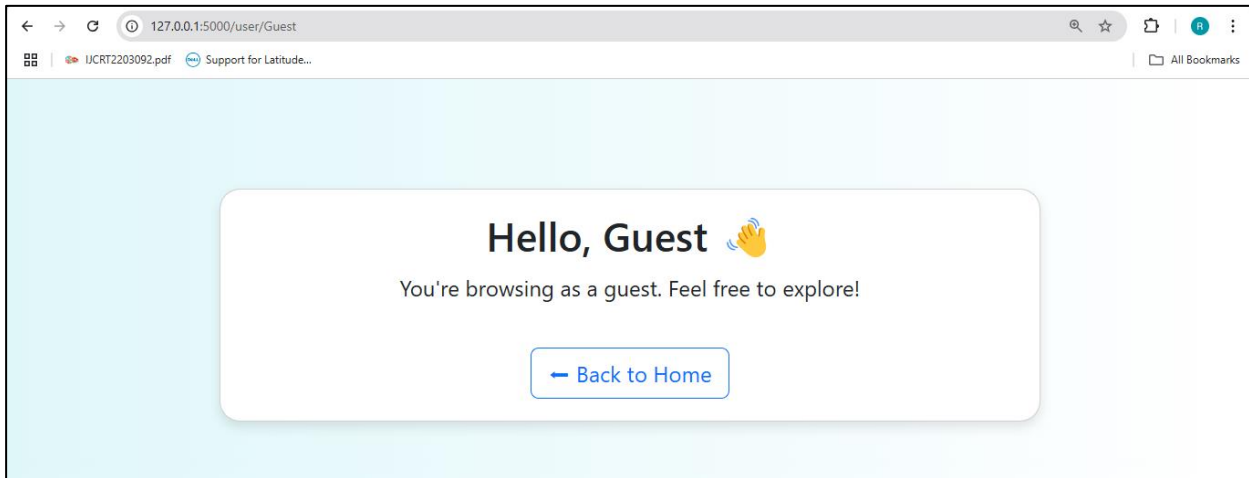
The experiment involves developing a **Flask application** with multiple routes and dynamic content rendering. A **homepage route ("/")** displays a welcome message with navigation links. A **dynamic route ("/user/<username>")** renders an HTML template with a personalized greeting using Jinja2 templating. Jinja2 features such as variables and control structures are utilized to enhance the templates, enabling dynamic content generation based on user input.

GITHUB LINK - https://github.com/Anuprita2022-26/WebX_Exp5

OUTPUT: Homepage (/): The homepage displays a welcome message along with two links for user-specific pages (e.g., Guest page and Rohan's Page).



- **User Page (/user/<username>):** When clicking on any of the user links, the app renders a personalized greeting with the username passed as a URL parameter.



CONCLUSION

The experiment successfully demonstrated the use of the **render_template()** function in Flask to dynamically generate HTML content. A **homepage (/)** was created with links to user-specific pages, and a **dynamic route (/user/<username>)** was implemented to personalize greetings using Jinja2 templating.

This experiment highlighted key Flask concepts such as **template rendering, Jinja2 syntax, variable passing, and dynamic content generation**, showcasing how Flask efficiently separates business logic from presentation logic to create interactive web applications.