

Experiment 5 : Flask Application using render_template() function.

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

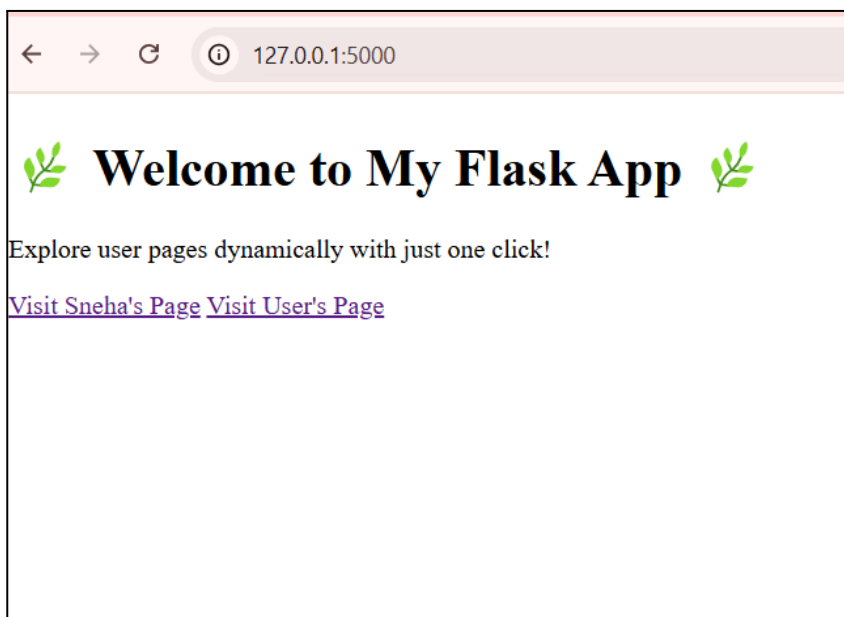
OVERVIEW OF TASKS PERFORMED:

The experiment involved creating a Flask application that demonstrates template rendering using the `render_template()` function. A homepage was designed to display a welcome message with links to user-specific pages. A dynamic route (`/user/<username>`) was implemented to personalize greetings based on the URL parameter using Jinja2 templating. The use of HTML templates ensured a clear separation of logic and presentation, making the application maintainable and visually appealing with CSS styling.

GitHub Link: https://github.com/Sneha0321/WebX_Exp_5

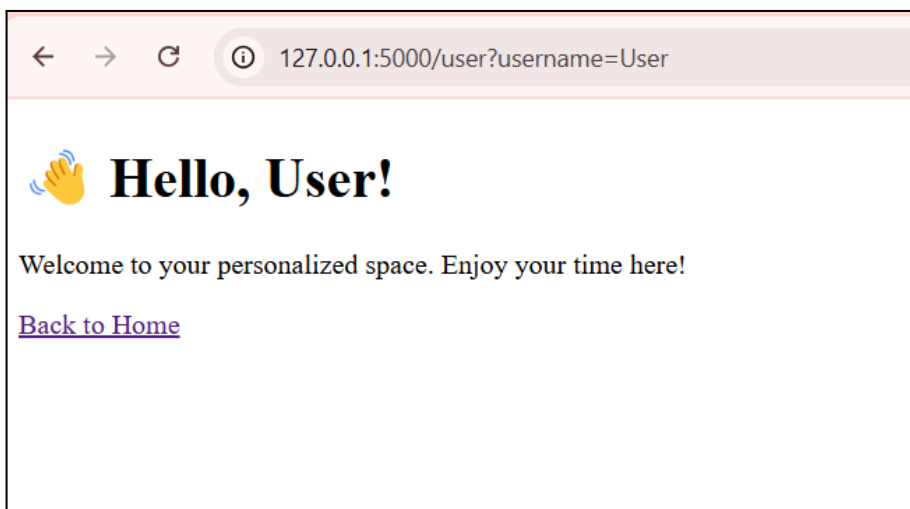
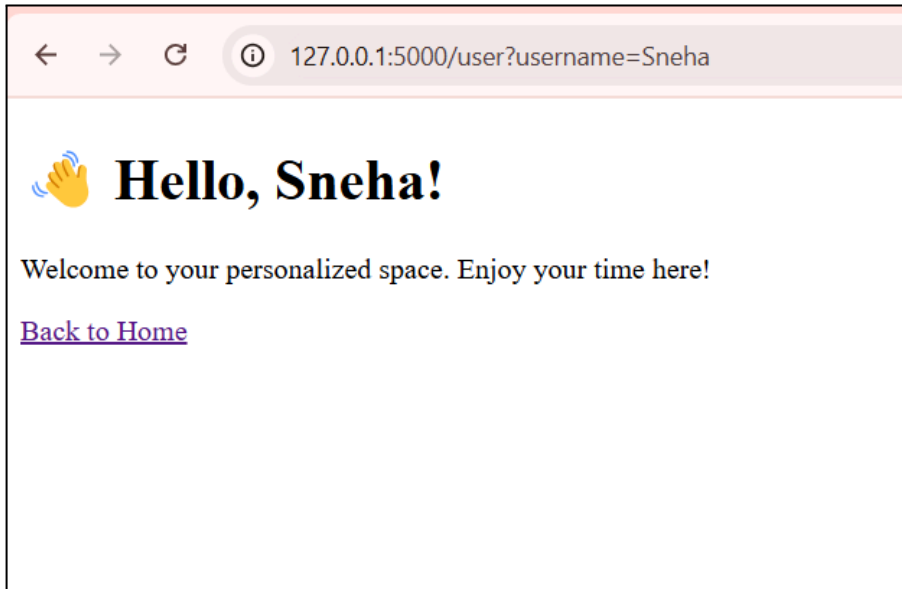
Output:

- **Home Page:**
"Welcome to My Flask App" message.
Links for "Sneha's Page" and "User's Page."



- **User Page:**

Displays a personalized greeting such as "Hello, Sneha! 🖐️" based on the username passed in the URL.



Conclusion:

In this experiment, I successfully developed a Flask application demonstrating template rendering using the `render_template()` function. By creating dynamic routes and using Jinja2 templates, I displayed personalized user greetings based on URL parameters. The separation of business logic and presentation using HTML templates ensured clean and maintainable code. Additionally, I applied CSS for styling, enhancing the visual appeal of the application. This experiment helped me understand how to build interactive and user-friendly web applications using Flask.