EXPERIMENT NO. 5

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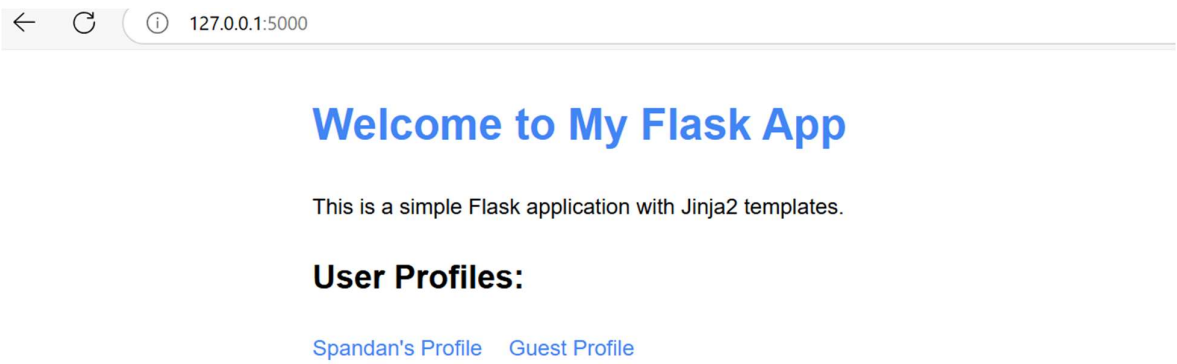
AIM: To create a Flask application that demonstrates template rendering by dynamically generating HTML content using the render_template () function.

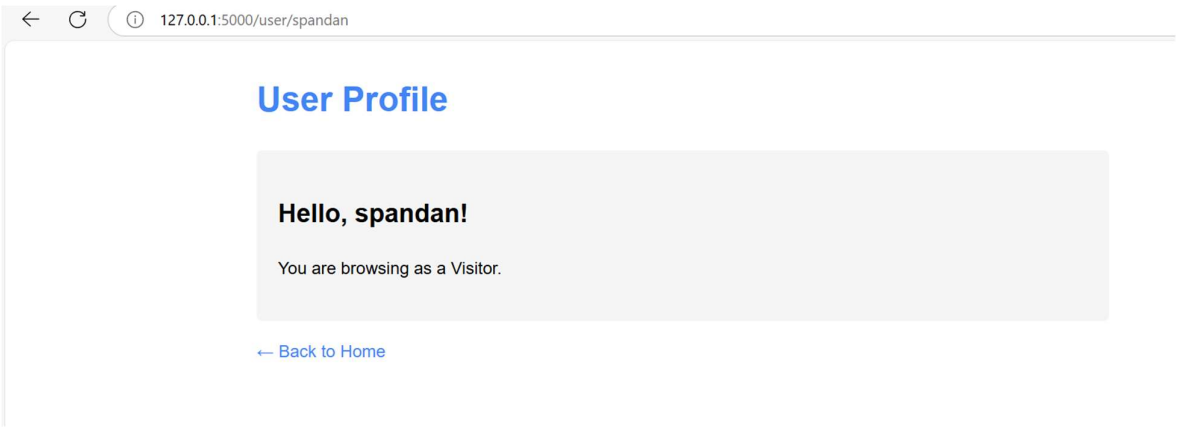
Overview Of Tasks Performed:
Created a Flask application to demonstrate template rendering using the render_template () function. A homepage route was developed to display a welcome message with links to user profiles. A dynamic route was implemented to render personalized greetings based on the username passed in the URL. Jinja2 templating features were used to embed dynamic data into HTML templates. The application was tested to ensure proper functionality, and debug mode was enabled for efficient development.

GitHub link-https://github.com/spandandeb/WebXEx5

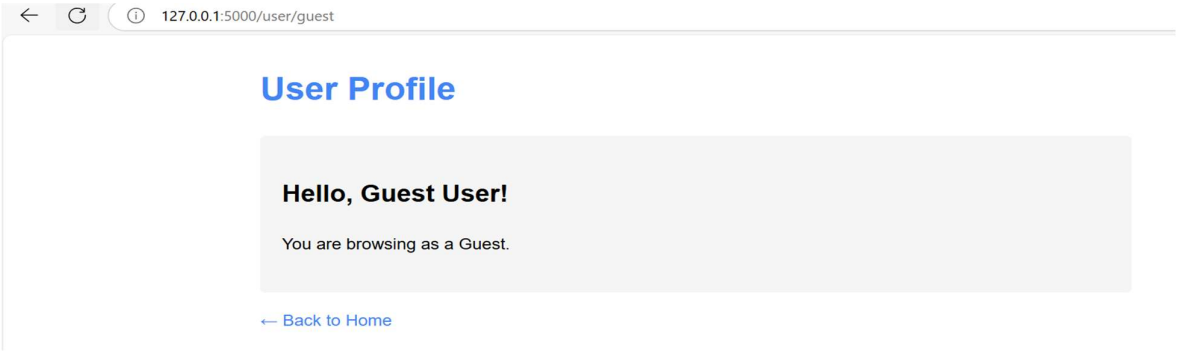
Output:



This screenshot shows the homepage of a Flask application that uses Jinja2 templates to render dynamic content. The page welcomes users to "My Flask App" and provides links to user profiles for "Spandan" and a "Guest.



This screenshot shows a user profile page from a Flask application, displaying a personalized greeting for the user "spandan." The page also provides a link to return to the homepage



This screenshot shows a user profile page from a Flask application, displaying a personalized greeting for a "Guest User." The page indicates that the user is browsing as a "Guest" and provides a link to return to the homepage. The URL http://127.0.0.1:5000/user/guest demonstrates the use of dynamic routing in Flask to render user-specific content.

Conclusion:

This experiment successfully demonstrated the use of template rendering in Flask. By utilizing the render_template () function, dynamically generated HTML content and integrated backend data with frontend templates using Jinja2. This approach improves code organization, enhances reusability, and enables the development of interactive web applications.