

## EXPERIMENT NO. 4

|                 |             |
|-----------------|-------------|
| Name of Student | Spandan Deb |
| Class Roll No   | 13          |
| D.O.P.          |             |
| D.O.S.          |             |
| Sign and Grade  |             |

**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:

Designed a Flask application to demonstrate URL building and the use of HTTP methods (GET and POST) for handling user input and processing data. Key tasks included creating a homepage with links to "Profile" and "Submit" pages, implementing a dynamic "Profile" page to display usernames, and developing a "Submit" page with a form to collect and display user input. Routes were defined using Flask's `@app.route ()` decorator, and debug mode was enabled for efficient development. The application was thoroughly tested to ensure proper functionality and error handling.

**GitHub Link-**<https://github.com/spandandeb/WebXEx4>

## Output:

# Welcome to the Flask App

[Profile](#) [Submit](#)

This is a simple Flask application demonstrating routing and form handling.

This is the homepage of the flask application it has two navigation links Profile and Submit.



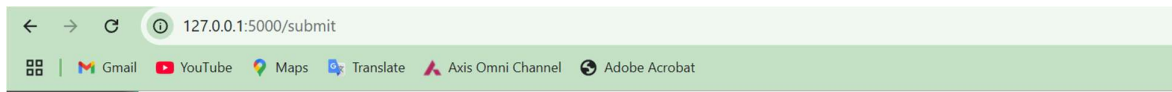
## Submit Information

[Home](#) [Profile](#)

Name:

Age:

This is the page where the user fills the information of the form and submits the form. There are two navigation links Home and Profile where when user clicks home it redirects to the homepage and on profile it redirects to the profile page of the user.



## Submission Confirmation

[Home](#) [View Profile](#) [Submit Again](#)

### Thank you for your submission!

The following information has been received:

- **Name:** Spandan
- **Age:** 20

After submitting the form, the user gets the submission confirmation page where it shows the form details.

## User Profile

[Home](#) [Submit](#)

### Welcome, Spandan!

This is your profile page. The username was passed dynamically in the URL.

This is the user profile page where the name is dynamically accessed from the form. It has two navigation links Home and Submit.

## Conclusion:

This experiment demonstrated Flask routing and HTTP methods. By implementing URL building, dynamic routes, and handling user input with GET and POST requests, I gained hands-on experience in Flask web development. Enabling debug mode also improved my understanding of debugging and error handling, making development more efficient.