# Python\_Activity48

## Flask Activity: Build Your First Web App

Title: "Hello Flask – My First Web App"

# **Objectives:**

By the end of this activity, students will:

- Successfully install Flask
- Understand the basics of routing (@app.route)
- Render an HTML page using Flask templates
- Handle basic form input

## Instructions:

## **X** Part 1: Installation (Individual or Group)

Ask students to:

- 1. Open a terminal or command prompt
- 2. Create a new project folder:

```
mkdir flask_hello_app
cd flask_hello_app
```

3. Create a virtual environment and activate it:

```
python -m venv venv
# Windows
venv\Scripts\activate
# macOS/Linux
source venv/bin/activate
```

4. Install Flask:

```
pip install flask
```

5. Create a file named app.py

#### Part 2: Create a Basic Web App

In app.py , have them paste this code:

```
Code block
    from flask import Flask, render_template, request
1
 2
 3
    app = Flask(__name__)
 4
    @app.route('/')
 5
 6
    def home():
        return render_template('index.html')
 7
8
    @app.route('/greet', methods=['POST'])
9
    def greet():
10
       name = request.form['name']
11
        12
13
14
    if __name__ == '__main__':
       app.run(debug=True)
15
```

#### Part 3: Create an HTML Form

Create a folder called templates and inside it, a file index.html:

```
Code block
1
   <!DOCTYPE html>
  <html>
2
3
   <head>
4
        <title>Flask Hello</title>
   </head>
5
   <body>
6
7
        <h1>Welcome to Your First Flask App!</h1>
        <form method="POST" action="/greet">
8
            <label>Enter your name:</label>
9
```

## ► Part 4: Run the App

Back in the terminal:

```
python app.py
```

Go to: http://127.0.0.1:5000

## 📤 Deliverables:

Students must:

- Show the working app (via screenshot or live demo)
- Submit:
  - Folder: Kyamson\_Activity48
  - o app.py
  - o index.html

## 🏁 Wrap-up Reflection (Comment your answer):

- 1. What does @app.route do?
- 2. What happens when you submit the form?
- 3. What is a template in Flask?