Flask_Joke_APP

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1. Introduction

This Python code sets up a basic web application using the Flask framework. Its primary functionality is to display a simple home page and provide random jokes through the /joke endpoint. The application interacts with an external API (JokeAPI) to fetch jokes in real time and renders them as HTML content.

2. Libraries Used

- Flask: A micro web framework used for handling HTTP requests and defining routes in the web application.
- Requests: A Python library used to send HTTP requests to the external joke API and retrieve joke data.

3. Functions and Workflow

• Home Route (/)

```
@app.route('/')
def home():
    return "<h1>Hello World</h1> Visit <a href='/joke'>/joke</a> for a random joke"
```

- Displays a welcome message.
- Provides a hyperlink to the /joke route for accessing a random joke.
- Joke Route (/joke)

- Sends a GET request to the JokeAPI using the URL:

https://v2.jokeapi.dev/joke/Any?type=single

- Checks if the request is successful and the response does not contain an error.
- If successful:
- Extracts the joke from the JSON response.
- Displays the joke on a webpage along with options to get another joke or go back to the home page.
- If unsuccessful:
- Displays an error message: "Couldn't fetch a joke. Try again later!"
- If an exception occurs (e.g., network failure), it returns: "Joke service unavailable. Try again later!"

4. Code Execution and Output

- When run, the app listens on localhost:5000.
- Visiting / displays the home page with a link to /joke.
- Visiting /joke shows a random joke retrieved from JokeAPI.
- HTML responses are dynamically generated using Python f-strings with embedded joke content.

5. Screenshot of Output

