Flask Application with ChatGPT Integration

Dynamic Comments, Summaries, and Email Drafting

Introduction

- This Flask application integrates with OpenAI's ChatGPT API to:
- Generate comments and feedback for products.
- Create subject lines and summaries dynamically.
- Analyze sentiment based on descriptions.
- Draft personalized email content.

Features and Workflow

- 1. User provides input via a web form.
- 2. Flask routes handle API requests and responses.
- 3. ChatGPT generates:
- Comments
- Subject lines and summaries
- Sentiment analysis
- Email drafts
- 4. Results are displayed to the user in the web

Core Code Structure

- 1. `ask_chatgpt()`: Central function for API requests.
- 2. '/process' route:
- Receives JSON payload.
- Calls ChatGPT API using `ask_chatgpt()`.
- Returns responses as JSON.
- 3. Frontend templates render results dynamically.

Challenges and Solutions

- Challenges:
- Handling API errors or invalid responses.
- Ensuring fast response times.

- Solutions:
- Added error handling in `ask_chatgpt()`.
- Optimized JSON parsing and data validation.

Potential Enhancements

- Add user authentication for secure access.
- Store generated data in a database for future use.
- Implement support for multiple languages.
- Extend functionality for customized prompts.