E-Commerce Chatbot with Login & Chat-History

1. Problem Statement :-

To simulate a smart e-commerce chatbot where users can search for products, log in to track their activity, and retain conversation history across sessions — built as part of the Uplyft.ai Internship Case Study (June 2025).

2. Key Features :-

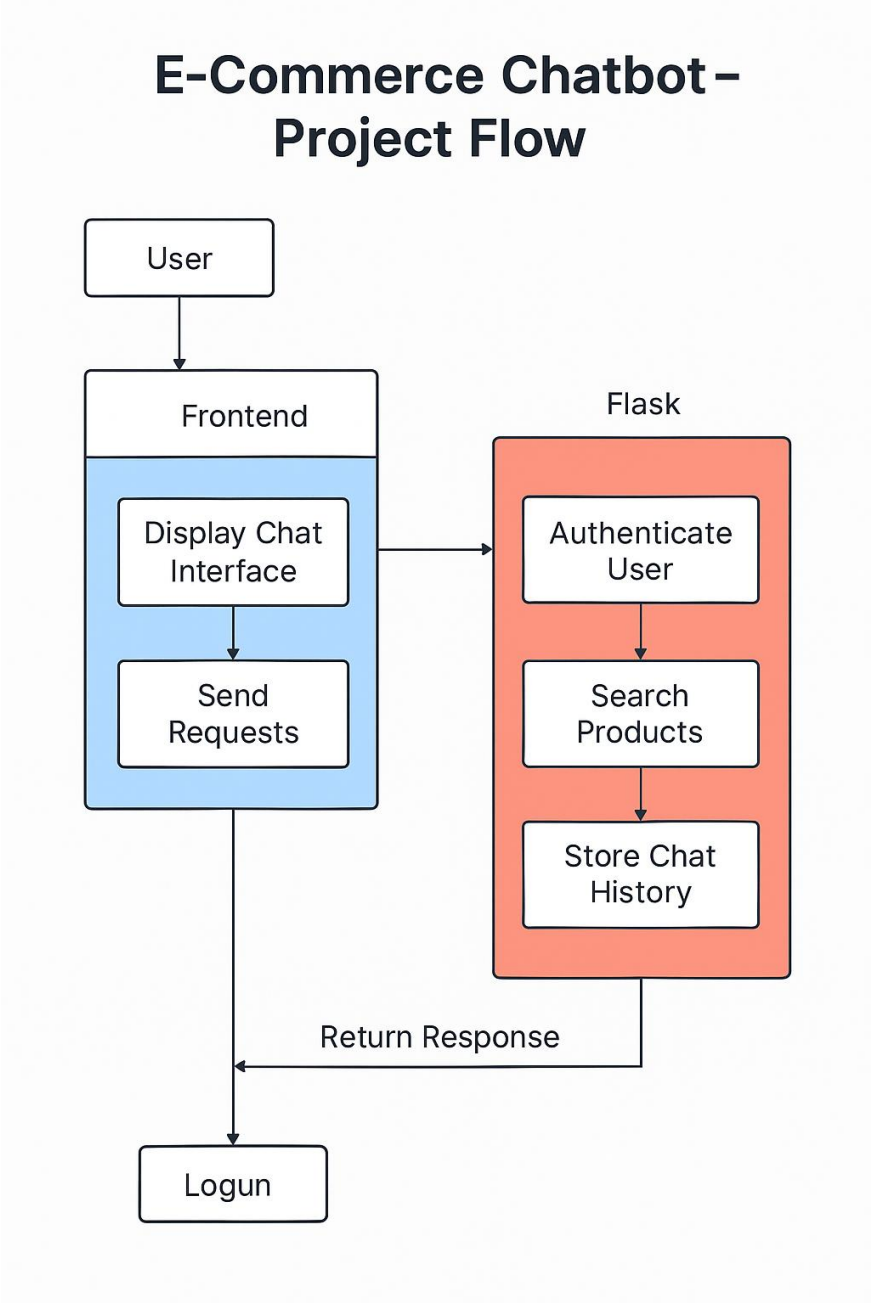
- User login system with static users
- Chatbot that returns product details from products.json
- Per-user chat history stored in chat_history.json
- History is auto-loaded when a user logs in
- Logout functionality
- Frontend and backend are separated
- Hosted locally via Flask backend

3. Technologies Used :-

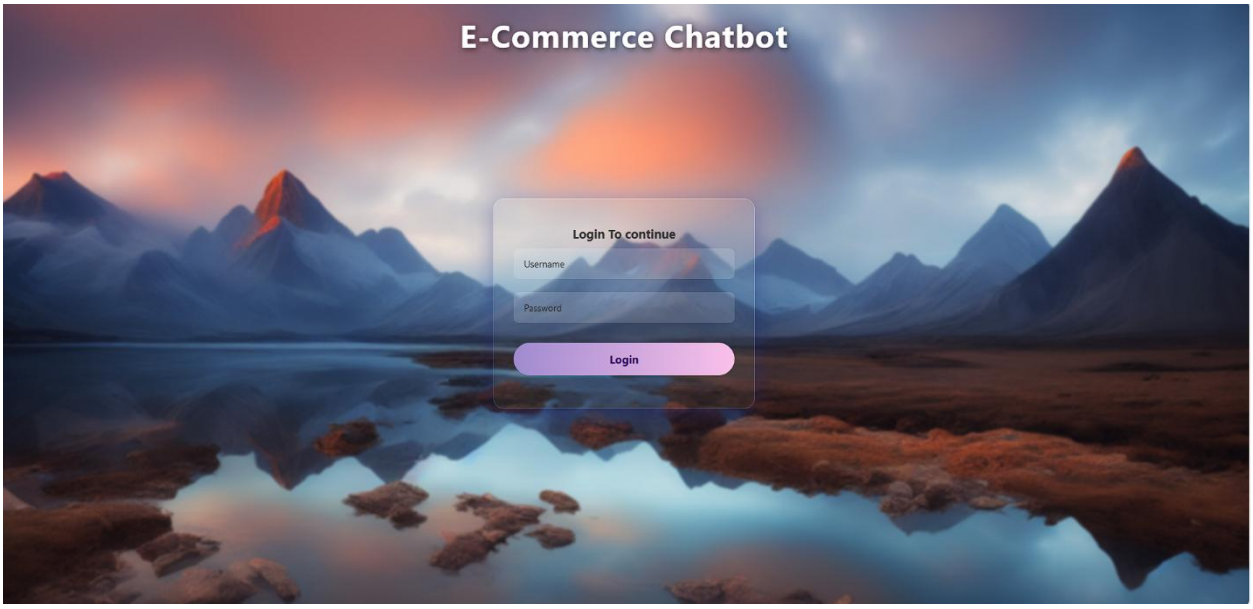
Layer	Tech Used
Frontend	HTML, CSS, JavaScript
Backend	Python, Flask, Flask-CORS
Data Storage	JSON Files
Tools	VS Code, Github

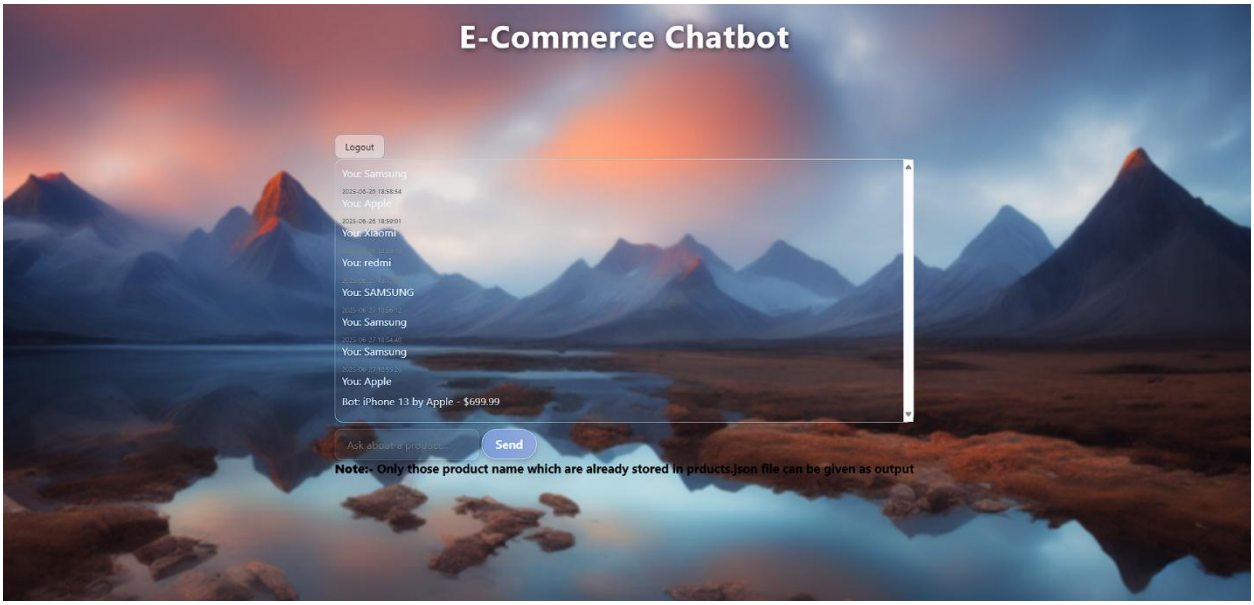
4. Architecture & Flow of Project :-

The frontend interacts with the Flask backend through API routes like /login, /chat, and /history/<username>. The backend reads from and writes to JSON files to simulate a lightweight database.



5. Screenshots :-





6. Learnings/Takeaways :-

This project gave me a complete experience of working on a full-stack web application. I learned how frontend and backend systems interact through APIs, how to handle user authentication manually, and how to save user data persistently using JSON. It also improved my understanding of Flask, JavaScript's fetch API, and project structuring. I also gained experience with

GitHub, documentation writing, and submitting a complete project like in real-world internships.

7. Github Link:-

https://github.com/SwapnilGite1311/Projects/tree/main/uplfyt-chatbot

8. Submitted For :-

Submitted for:
Uplyft.ai Web Development Internship – June 2025

9. Conclusion :-

This project helped me understand the practical application of full-stack development principles. It was a great opportunity to combine frontend and backend logic into a working system. I'm thankful to Uplyft.ai for providing this challenge, which gave me valuable exposure to real-world problem-solving as a developer. I look forward to applying these skills in a collaborative team environment.