

Assignment:

- AI Assistant with Context & Document
- I have built an AI-powered chat assistant where users can securely log in, maintain ongoing chat histories, and have context-aware conversations. It also allows users to upload documents and ask natural language questions, with the AI responding based on the document content.

Changes Implemented:

- Chat Threads Support: Implemented session-based storage so each message is linked to a chat session, ensuring full conversation history instead of isolated queries.
- User-Specific Chats: Added authentication and user linking, so each chat session and message belongs only to the logged-in user, keeping data private.
- Conversation Context: Enabled session-based context in API calls, allowing the AI to use past messages so follow-up questions stay meaningful.

Outcome:

The result of this project is a functional AI-powered chat platform where users can:

- Securely interact through login authentication.
- Maintain ongoing chat histories linked to their account.
- Have context-aware conversations with proper session handling.
- Upload their own documents and ask questions in natural language.

This makes the assistant both secure and intelligent, resembling a personalized AI trained on user-specific data.