

Training Day-8 report

01 July, 2025

Today, I worked on **extending the messaging project** by implementing features for **editing and deleting messages**, as well as the ability to **send files** through the chat interface. Although both features are still incomplete, initial groundwork has been laid.

Work-Undertaken:

- Started modularizing the existing codebase to improve readability, maintainability, and scalability.
- Began developing the functionality for users to **edit and delete messages**.
- Initiated support for **file sharing**, including uploading and downloading file attachments.

Challenges Faced:

1. Modularization-Delays:

- Spent a significant portion of the day **refactoring code into modules**, which took more time than anticipated.
- As a result, progress on new features was slower.

2. File-Handling-Issues:

- Encountered a problem where the **file link, after download, converted into a base64 string** instead of displaying or previewing correctly.
- Suspect the issue lies in how the file is being served or how headers/content types are managed.

Key-Learnings:

- Reinforced the importance of **modular code design** in larger projects.
- Identified that implementing file upload/download systems requires careful handling of MIME types and browser-side rendering expectations.
- Recognized the need for better time allocation between refactoring and feature development.

Conclusion:

While the core features for editing, deleting, and file sharing remain under development, today's effort laid the foundation by reorganizing the codebase and starting the necessary logic. I plan to continue working on and debugging these features tomorrow.