

Training Day-6 report

28 June, 2025

Today, I continued developing the **message application**. Building upon yesterday's progress where basic message sending and receiving features were established, my primary goal today was to introduce **session handling and user authentication**.

Work-Undertaken:

- Implemented **user sessions** to maintain persistent login states.
- Developed **basic authentication logic**, allowing users to log in before accessing chat features.
- Worked on enhancing the chat system to display the **sender's name** and **message timestamp** for each message.

Challenges Faced:

1. Routing-Logic:

- Encountered confusion while structuring routes for authenticated vs. unauthenticated users.
- Needed to conditionally redirect users based on session status, which required adjusting the route middleware and handlers.

2. Frontend-Backend-Integration:

- Modified the backend to send additional data (username and timestamp).
- Initially forgot to update the **frontend scripts** to handle and display this data, leading to display errors.
- Resolved the issue by synchronizing data flow between backend responses and frontend rendering logic.

Key-Learnings:

- Understood how **sessions and authentication** work in a Node.js/Express environment.
- Gained experience in **designing flexible routing** based on user state.
- Reinforced the importance of keeping the **frontend and backend aligned**, especially when modifying data structures.

Conclusion:

The focus of the day was on improving the **core functionality** of the chat application, especially around personalization and user flow control. While the user interface still needs refinement, the backend infrastructure is becoming more capable and structured.

Thanks.