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St.MOTHER THERESA ENGINEERING COLLEGE

COMPUTER SCIENCE ENGINEERING

NM-ID: B25DF1300AAA8C3BA30436DCABF82430

REG NO: 953023104008

DATE: 07-10-2025

Completed the project named as

Phase 5

FRONT END TECHNOLOGY

CHAT APPLICATION UI

SUBMITTED BY,

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Project Demonstration & Documentation

In this final phase, we propose to **demonstrate the completed Chat Application UI** and prepare all necessary documentation for evaluation and submission. The focus will be on showcasing the application's functionality, presenting our development journey, and ensuring that everything is well-documented for future use or deployment.

Final Demo Walkthrough

We will conduct a full walkthrough of the chat application, demonstrating all implemented features including user listing, message sending and receiving, real-time state updates, and responsive UI behaviour. The demo will highlight each module's role in the overall system, showing the interaction between components and how the data flows through the application. This will be presented live or through a pre-recorded video to ensure smooth delivery during evaluation.
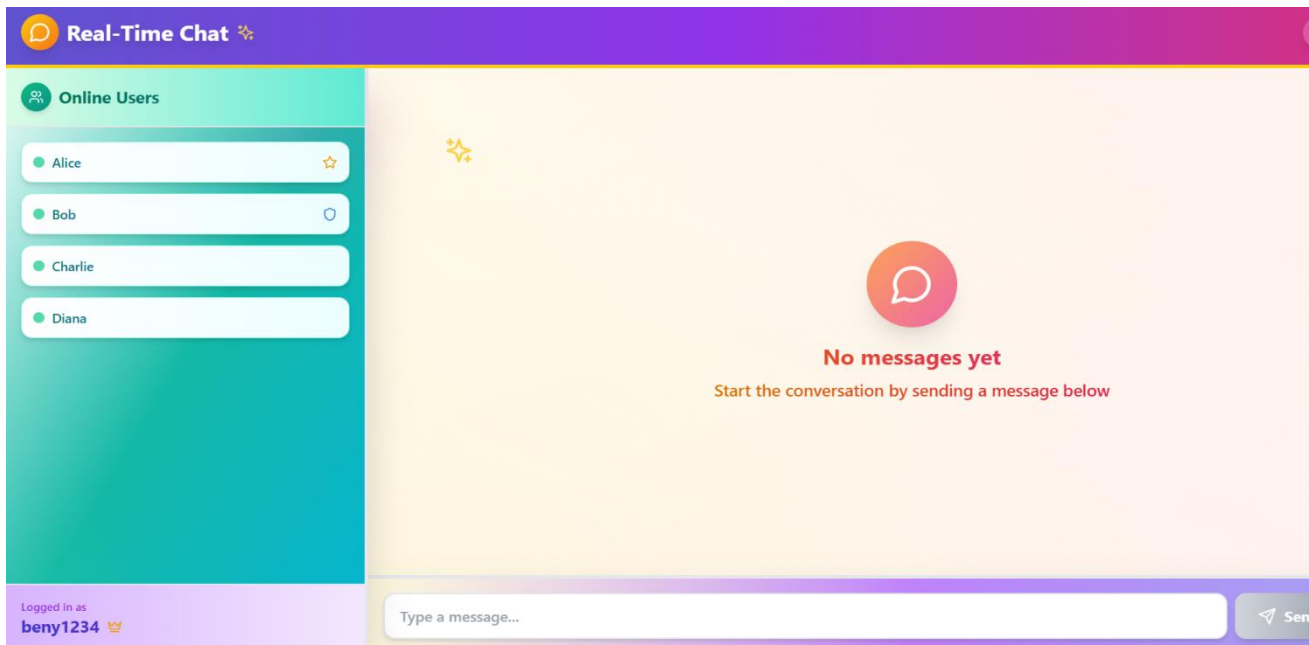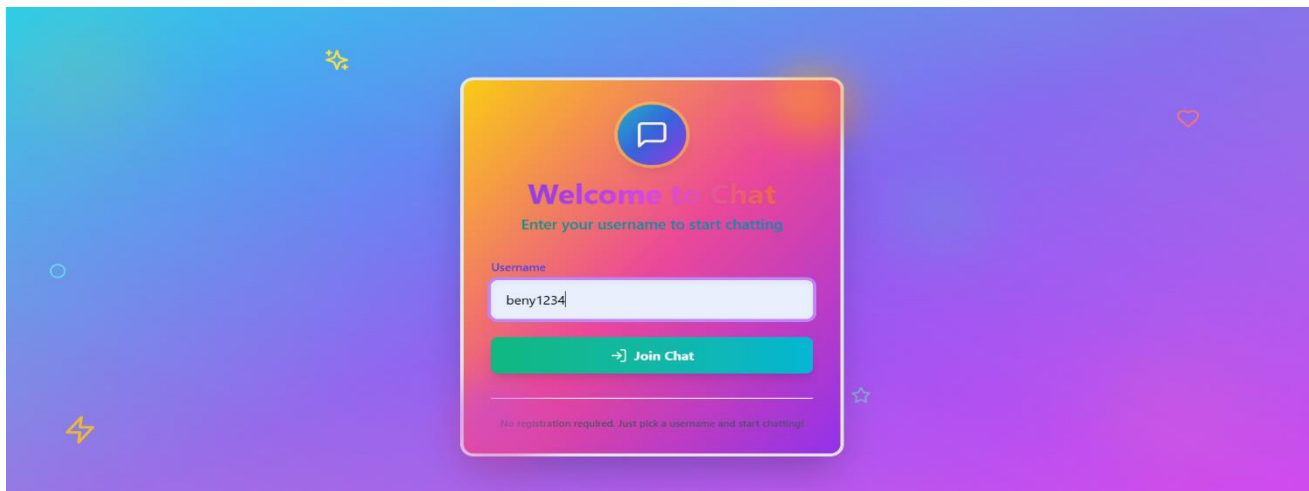
Project Report

We will prepare a structured project report covering the entire lifecycle of the Chat Application UI. The report will include:

- Problem statement and objectives
- System design (including module diagrams and flow diagrams)
- Implementation details (frontend, state management, mock data handling)
- Testing strategy and results
- Screenshots and relevant code snippets
- Future enhancements and scalability considerations

This report will follow academic/project guidelines and will be submitted as part of the final evaluation package.

Screenshots / API Documentation

We will include high-quality annotated screenshots of the application's interface at different stages (Login/User list, Chat Window, Message Input, etc

Challenges & Solutions

We will document the **technical and non-technical challenges** faced during the development process, such as state synchronization issues, component re-rendering, styling conflicts, and time constraints. For each challenge, we will describe the **solution or workaround** implemented, highlighting problem-solving and team collaboration skills. This section gives insight into the learning and decision-making process behind the project.

GitHub README & Setup Guide

We will create a detailed **README file** in the GitHub repository. It will include:

- Project overview and features
- Tech stack used
- Step-by-step setup instructions (installation, running the app locally)
- Deployment details
- Contribution guidelines and acknowledgments

This ensures that anyone who accesses the repository can easily understand, set up, and run the project without confusion.

Final Submission (Repo + Deployed Link)

For the final evaluation, we will submit:

- The **GitHub repository link** containing the full source code, documentation, and project history.
- REPOSITORY LINK: https://github.com/bamirthalingam2005/Amirthalingam.git
- The **deployed application link** (using platforms like Vercel, Netlify, or Git Hub Hosting), so evaluators can interact with the live version of the Chat Application UI.
- LINK:https://bamirthalingam2005.github.io/Amirthalingam/
- All supporting documents including the project report and screenshots will also be shared as part of the submission package.