9530

St. MOTHER THERESA ENGINEERING COLLEGE

COMPUTER SCIENCE ENGINEERING

NM-ID: 44c524861eaf320982847e4447815cb6

REG NO: 953023104133

DATE:13-09-2025

Completed the project named as

Phase 1

FRONT END TECHNOLOGY

CHAT APPLICATION UI

SUBMITTED BY,

A.vignesh babu

9384947016

Phase 1 - Problem Understanding & Requirements

Problem Statement:
Users need a simple and responsive chat interface where they can send and receive messages in real-time. The application should handle multiple users, message updates, and maintain chat history in an intuitive UI.

Users & Stakeholders:

- End Users (students, professionals, teams)

- Developers (frontend engineers, backend engineers)

- Project mentor/faculty

User Stories:

1. As a user, I should be able to send messages instantly.

2. As a user, I should see real-time updates when someone sends a new message.

3. As a user, I should view a list of active chats/users.

4. As a user, I should be able to see chat history.

MVP Features:

- Chat input box with send button

- Message display area (sender & receiver differentiation)

- User list / active participants

- State updates for new messages

- Basic styling for readability

Wireframes / API Endpoint List:

- **Wireframes**:
    - Chat screen with sidebar (user list) and main chat area
    - Input text field + send button at bottom

- **API Endpoints (future integration)**:
    - POST /messages → send new message
    - GET /messages → fetch chat history
    - GET /users → list of active users

Acceptance Criteria:

- Users can send and view messages in the chat window.
- Messages update dynamically without page reload.
- UI is responsive and user-friendly.
- Basic chat history is maintained in session state.