9530

St. MOTHER THERESA ENGINEERING COLLEGE

COMPUTER SCIENCE ENGINEERING

NM-ID: 71856FC448CCC6D8F6B4A2C16426F85E

REGNO: 953023104132

DATE: 18-09-2025

Completed the project named as

Phase 1

FRONT END TECHNOLOGY

CHAT APPLICATION UI

SUBMITTED BY,

M.VASANTHAN

8608675119

Phase1-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 (front end 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.