A black background with text and a picture of a person

AI-generated content may be incorrect. A black and white logo

AI-generated content may be incorrect.

**9530**

**St. MOTHER THERESA ENGINEERING COLLEGE**

COMPUTER SCIENCE ENGINEERING

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**Completed the project named as**

**Phase 1**

FRONT END TECHNOLOGY

**CHAT APPLICATION UI**

SUBMITTED BY,

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**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.