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COMPUTER SCIENCE ENGINEERING

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Completed the project named as

Phase 1

FRONT END TECHNOLOGY

Blog Site with Comment Section

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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.