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**COMPUTER SCIENCE ENGINEERING**

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**DATE:19-09-2025**

**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.

