COLLEGE CODE :- 9509

COLLEGE NAME :- Holy Cross Engineering College

DEPARTMENT :- CSE

STUDENT NM-ID:-

5D5F2F6D4F5A20898384EE7F5251FE7B

DATE :- 29/09/2025

Completed the project named as

Phase__TECHNOLOGY PROJECT NAME :

CHAT UI APPLICATION

SUBMITTED BY,

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Phase 5 — Project Demonstration & Documentation

1. Final Demo Walkthrough

Overview:

The Chat Application UI provides a clean and responsive interface that allows users to send and receive messages in real-time. The design focuses on simplicity, readability, and modern aesthetics using React + CSS.

Demo Features:

- Login / Join Page: User enters a name to join the chat room.
- Chat Window: Real-time message updates with smooth scrolling.
- Message Input Box: Send messages instantly.
- Active Users Section: Displays the list of users currently online.
- Timestamp: Shows when each message was sent.
- Responsive UI: Works across desktop and mobile devices.

2. Project Report

Title: Chat Application UI

Technology Stack: React.js, CSS, JavaScript, Node.js (for backend API), Socket.io (for real-time chat)

Objective:

To design a modern, responsive chat interface that supports smooth real-time communication and provides a visually appealing user experience.

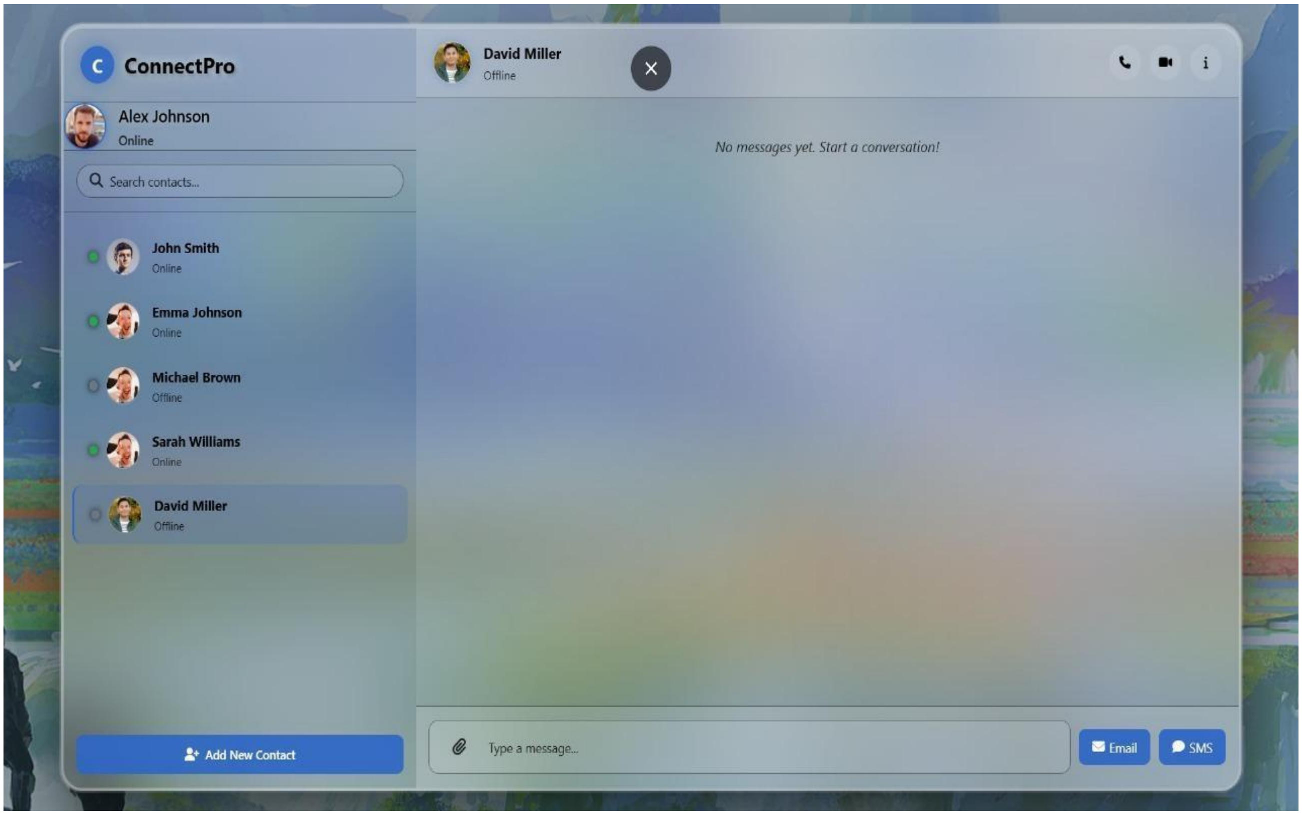
Modules:

1. Frontend (React):
   - o Components: ChatWindow, Message, InputBox, UserList
   - o State management using React Hooks
2. Backend (Optional / Future Integration):
   - o Node.js server with Socket.io for message broadcasting
3. Styling:
   - o Custom CSS with Flexbox and Grid layout for responsiveness

Key Features:

- Live messaging
- Auto-scroll on new messages
- Minimalist design
- User status indicator

3. Screenshots / API Documentation.



4. Challenges & Solutions:

Challenge	Solution
Designing responsive layout	Used Flexbox & media queries in CSS
Auto-scroll for new messages	Used useEffect with scrollIntoView()
Managing chat states	Used React hooks (useState, useEffect) efficiently
Keeping UI consistent	Created reusable components for message and input box

- Final Submission:

REPO LINK: https://github.com/Muppidathi-17/Phase

Deployed Link: https://chatify-ten-sand.vercel.app/