Date	20 October 2023
Team ID	590913
Project Name	ChatConnect - A Real-Time Chat and Communication App
Maximum Marks	4 Marks

Solution Architecture:

Leveraging cutting-edge technology, our chat application optimizes communication with a strong focus on privacy and user security. By implementing RSA encryption with client-side key generation, we not only guarantee robust data protection but also put user privacy at the forefront. We understand the need for immediate message deletion to give users full ownership of their conversations. The architecture is built for seamless scalability to accommodate a growing user base.

Our chat application leverages cutting-edge technology to ensure efficient, secure, and real-time communication.

- Data Gathering
- User Authentication
- Message Processing
- Real Time Messaging
- End-to-End Encryption

Solution Architecture

Send
Message

Encryption

Authenticate

Edit Profile

UI

Save
Messages

Firebase

Receive
Message

Decryption

User