

UniMessenger

NAME: SATHWIK HJ	SRN: PES1UG21CS544
NAME: SAMARTH S BHAT	SRN: PES1UG21CS525
NAME: SEJAL VASUDEV	SRN: PES1UG21CS5
NAME: SAMARTH HIREMATH	SRN: PES1UG21CS523

PROJECT TITLE: Chat Application

Overview:

Creating a real-time chat application with user authentication, private messaging, and group chat functionality is a comprehensive project that involves various components and features.

- 1) User Authentication: Implement a user registration and login system.
- 2) User Profiles: Allow users to create and edit their profiles, including adding a profile picture and setting a display name.
- 3) Private Messaging: Enable users to send private one-on-one messages to other users. Implement a real-time chat interface for private conversations. Include features like typing indicators, message read receipts, and message timestamps.
- 4) Group Chat: Allow users to create and manage group chat rooms. Implement group chat features such as inviting users to join, leaving groups, and setting group avatars and names.
- 5) Online/Offline Status: Show users are online/offline status in the chat. Implement a feature to see when a user was last active.
- 6) Encryption and Security: Ensure end-to-end encryption for private messages to protect user privacy. Implement security measures to prevent unauthorized access or data breaches.
- 7) Feedback and Reporting: Allow users to provide feedback and report issues or inappropriate content.
- 8) Scalability: Design the chat application with scalability in mind to accommodate a growing user base and increasing message volume.