

# HOLLA! The private Messenger

Software Engineering

## Group I

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## **Introduction to the Project**

“HOLLA!” Private Messenger Application is a communication tool designed for secure and private messaging between users. It is intended to facilitate seamless communication within a closed group or team environment, ensuring confidentiality and privacy of conversations.

## **Previously Implemented Features:**

- Welcome page with sign-up and login buttons.
- User interface for sign-up and login.
- Signup page for new users.
- Database integration for storing user and chat data.
- Login page for registered users.
- Home page with registered user names.
- Frontend framework for search functionality.
- Chat window for real-time messaging.

## **Improved Features:**

- Search Functionality Backend

The backend for the search functionality has been added, enabling users to efficiently search through messages.

- Database Security

The database has been secured against drop table commands, protecting user data from malicious attacks and ensuring data integrity.

## **New Features Implemented:**

- Logout Button

The logout button enhances security by allowing users to securely exit their accounts with a single click, preventing unauthorized access on shared devices.

- Emoji Reaction Bar

The emoji reaction bar enriches chats by letting users quickly express emotions and reactions with various emojis, adding a visual element to conversations.

- Group Messaging

The group messaging feature allows users to send the same message to multiple selected contacts simultaneously, streamlining communication for announcements and updates.

- Profile Management

Profile management has been introduced, allowing users to edit their profiles and update personal information including username and password.

### **Scope for Future Improvement:**

- Group chat functionality
- Implement additional features like file attachments
- Implement additional features like offline messaging and notifications
- Optimize and enhance the message storing tables