



IT-314 Software Engineering

Lab - 3 (Task - 2)

Group - 12

202201115 - Parjanya Rajput

202201119 - Sahil Sutariya

202201132 - David Lochan Baro

202201140 - Harsh Gajjar

202201143 - Rutvik Vegad

202201153 - Dev Dodiya

202201158 - Janvi Ramani

202201172 - Dhruvin Akhaja

202201178 - Vedant Savani

Task 2:

Develop the product backlog.

- The product backlog must be written in the form of user stories. (both front and back of the card)
 - Consider all the stakeholders.
 - Actors
 - Administrator
 - External Systems
 - Others

1. Create User

→ Front:

- ◆ As a **user**, I want to create a profile so that I can access the chat application.

→ Back:

◆ Acceptance Criteria:

- A new user can be created with a unique username and password.
- The user should receive a confirmation email upon successful account creation.
- Ensure the system assigns default roles and permissions to the user.

2. Authenticate User

→ Front:

- ◆ As a **system**, I want to authenticate users during login so that only authorized users can access the application.

→ Back:

◆ Acceptance Criteria:

- The system requires valid credentials for login.
- Implement two-factor authentication for added security.

3. User Profiles

→ Front:

- ◆ As a **user**, I want to create and update my profile so that I can showcase my interests, expertise, and background to others in the community.

→ Back:

◆ Acceptance Criteria:

- Users can upload a profile picture.
- Users can add a bio, interests, and expertise.
- Users can view and edit their profile information.

4. Forgot Password

→ Front:

- ◆ As a **user**, I want to reset my password if I forget it so that I can regain access to my account.

→ Back:

◆ Acceptance Criteria:

- The system provides an option on the login screen to reset the password.
- Users can request a password reset by entering their registered email address.
- A password reset link or temporary password is sent to the user's email.
- The user is required to set a new password upon using the reset link or temporary password.
- Ensure the password reset process is secure and logged for monitoring.

5. Reset User Password

→ Front:

- ◆ As a **user**, I want to reset my password so that I can assign a new better password.

→ Back:

◆ Acceptance Criteria:

- The system allows users to reset their password securely.
- User should be logged in and authenticated
- User is prompted to enter their old password

6. Report Another User

→ Front:

- ◆ As a **user**, I want to report another user if they are behaving inappropriately so that the administrators can review and take action if necessary.

→ Back:

◆ Acceptance Criteria:

- The system provides an option to report a user directly from the chat interface or user profile.
- Users can specify the reason for the report and add any relevant comments.
- The report is submitted to the administrators for review.
- The system should confirm the report submission and ensure user anonymity.
- Admin is notified immediately and can review the report along with the chat history if needed.

7. Suspend/Restore User Accounts

→ Front:

- ◆ As an **admin**, I want to suspend or restore user accounts to manage user access based on user activity/report.

→ Back:

◆ Acceptance Criteria:

- The system enables the admin to suspend a user's account temporarily.
- Suspended users cannot log in until restored.
- The system should log the reason for suspension.

8. Delete User

→ Front:

- ◆ As an **admin**, I want to delete a user so that they no longer have access to the chat application.

→ Back:

◆ Acceptance Criteria:

- The system allows the admin to delete a user from the user list.
- Deleting a user should remove all associated data securely.
- Ensure the user receives a notification of account deletion.

9. Realtime Chat

- **Front:** As a **user**, I want to chat with another user in real-time so that we can have immediate, private conversations.

→ Back:

◆ Acceptance Criteria:

- ◆ Users can initiate a chat with another user.
- ◆ Messages appear instantly in the chat window.

10. Group Chat Room

→ Front:

- ◆ As a **user**, I want to create and join group chat rooms dedicated to specific topics so that I can engage in discussions with multiple people on a shared interest.

→ Back:

◆ Acceptance Criteria:

- Users can create and join group chat rooms.
- Messages in group chats are visible to all participants.

11. Media Sharing

→ Front:

- ◆ As a **user**, I want to share images, files, and other media along with text in chats so that I can communicate more effectively.

→ **Back:**

- ◆ **Acceptance Criteria:**

- Users can attach and send images, files, and other media in a chat.
- Images, files, and other media are displayed inline with text in the chat window.
- Users can view, download, or delete shared images, files, and other media.

12. Auto-Save Conversations

→ **Front:**

- ◆ As a **user**, I want to have my conversations auto-saved so that I can access my chat history anytime.

→ **Back:**

- ◆ **Acceptance Criteria:**

- Conversations are saved in real-time.
- Users can search and retrieve past conversations easily.

13. Spam Detection and Prevention

→ **Front:**

- ◆ As a **system**, I want to detect and prevent spam messages so that the chat environment remains safe and clean.

→ **Back:**

- ◆ **Acceptance Criteria:**

- The system flags messages with spam-like characteristics.
- Automatically block users or messages identified as spam.
- Notify the administrator of repeated spam attempts.

14. Search chat

→ **Front:**

- ◆ As a **user**, I want to search within my chats or group chats so that I can quickly find specific messages or people.

→ **Back:**

- ◆ **Acceptance Criteria:**

- Users can search by keyword across all chats, contacts, and group names.
- The search bar is accessible from the main chat list screen.

15. Notifications Management

→ **Front:**

- ◆ As a **user**, I want to change notifications settings(eg turn off notifications) so that I am not disturbed with it

→ **Back:**

- ◆ **Acceptance Criteria:**

- Users receive notifications for new messages and mentions according to his preferences
- Users can customize notification preferences (e.g., sound, vibration).
- Notifications are displayed both in-app and as push notifications.

16. Send Notifications for System Updates

→ **Front:**

- ◆ As an **admin**, I want to send notifications to all users when there is a system update so that all users are informed of important changes or maintenance.

→ **Back:**

- ◆ **Acceptance Criteria:**

- The system allows the administrator to compose and send a notification to all users.
- Notifications should be delivered in real-time.
- Ensure the notification process is logged and can be tracked for confirmation.

17. Profile Privacy Settings

→ **Front:**

- ◆ As a **user**, I want to control who can view my profile information so that I can manage my privacy.

→ **Back:**

- ◆ **Acceptance Criteria:**

- Users can set their profile to public & private
- Profile visibility is configurable per information type (e.g., bio, interests).
- Users receive notifications when someone views their profile (optional).

18. User blocking and unblocking

→ **Front:**

- ◆ As a **user**, I want to block and unblock other users so that I can avoid unwanted interactions and have the option to restore communication if needed.

→ **Back:**

- ◆ **Acceptance Criteria:**

- Users can block another user, preventing them from sending messages, viewing status updates, or accessing the user's profile information.
- Blocked users do not receive any notification that they have been blocked.
- Users can view and manage their blocked users list in the settings.
- Users can unblock a previously blocked user from the blocked users list, restoring the ability for communication and profile visibility.

19. Read receipts

→ Front:

- ◆ As a **user**, I want to see if my messages have been read so that I know whether the recipient has seen them.

→ Back:

◆ Acceptance Criteria:

- Users can see when their messages have been read.
- Users can enable or disable this feature in settings.

20. Customization

→ Front:

- ◆ As a **user**, I want to customize the chat application's appearance and settings so that it fits my personal preferences.

→ Back:

◆ Acceptance Criteria:

- Users can change the theme (e.g., light/dark mode).
- Users can adjust font size.
- Users can enable or disable read receipts.

21. Status

→ Front:

- ◆ As a **user**, I want to share status updates (e.g., photos, videos, text) that last for 24 hours so that I can keep my contacts informed about what I'm doing or thinking.

→ Back:

◆ Acceptance Criteria:

- Users can create a status update using photos, videos, or text.
- Status updates are visible to contacts for 24 hours before disappearing automatically.
- Users can control who sees their status updates by adjusting privacy settings (e.g., My Contacts, My Contacts Except, Only Share With).
- Users can view who has seen their status update.
- Users can reply to a contact's status update directly from the status screen.

