

ProChat Acceptance Test Plan

Purpose

This Acceptance Test Plan outlines the acceptance criteria and approach for the ProChat project. This document is intended to guide and support formal acceptance testing scheduled for Sprint 7.

Acceptance Criteria

In the project's original requirements the following core features were defined for the application. These requirements form the foundation for the acceptance criteria listed in this section.

Features

- A functioning and simple User Interface.
- A clear and secure registration form with non-intrusive fields.
- A simple login screen that displays potential errors.
- A functioning authentication for users with valid credentials.
- A way for users to logout.
- Functionality to modify user information and personalize accounts.
- Ability to send and receive contact requests between users.
- An automatic chat generation for new contacts.
- Functionality for creating group chats.
- Management of contacts and groups.
- Ability to send and receive messages between users.
- Ability to manage sent messages.
- A functioning language selector that updates the UI instantly.

Functional Criteria

Criteria based on the functionalities outlined in the project's user stories and features.

1. Users can authenticate successfully using valid credentials.
2. Invalid login attempts display a clear error message.
3. Users can update their account information.
4. Users are able to add other users as contacts.
5. Users can send messages.
6. The system prevents users from sending empty messages.
7. Users can receive messages.
8. Messages appear in chronological order.
9. Chat history loads when the user opens a conversation.
10. Users can manage sent messages and added contacts.
11. When an exception occurs, the system provides descriptive and actionable error messages to inform the user of the problem.
12. Users can logout, and the session is securely terminated.

Usability Criteria

Criteria based on the efficiency, effectiveness and user satisfaction of the application.

1. The chat interface is intuitive and easy to navigate without prior knowledge.
2. All buttons, icons, and labels are clear and consistent.
3. Scrolling within the chat window is smooth and responsive.
4. Language changes occur seamlessly, without disrupting ongoing tasks or the interface.
5. Layout adapts smoothly to different window sizes.
6. Users can complete common tasks in under a reasonable time threshold.

Performance Criteria

Criteria based on the expected performance of the application.

1. The system handles a number of concurrent users without slowing or freezing.

2. Chat history loads within an acceptable time frame.
3. The application remains responsive during rapid message sending or receiving.
4. The application remains responsive and stable, even under rapid or repeated user inputs.

Acceptance Tests

Requirement / Feature	Acceptance Criteria	Category	Result
User authentication	Users can authenticate successfully using valid credentials	Functional	<input type="checkbox"/>
Invalid login	Invalid login attempts display a clear error message	Functional	<input type="checkbox"/>
Account management	Users can update their account information	Functional	<input type="checkbox"/>
Contacts	Users are able to add other users as contacts	Functional	<input type="checkbox"/>
Send messages	Users can send messages	Functional	<input type="checkbox"/>
Send messages validation	The system prevents users from sending empty messages	Functional	<input type="checkbox"/>
Receive messages	Users can receive messages	Functional	<input type="checkbox"/>

Message order	Messages appear in chronological order	Functional	<input type="checkbox"/>
Chat history	Chat history loads when the user opens a conversation	Functional	<input type="checkbox"/>
Manage messages/contacts	Users can manage sent messages and added contacts	Functional	<input type="checkbox"/>
Error handling	When an exception occurs, the system provides descriptive and actionable error messages	Functional	<input type="checkbox"/>
Logout	Users can logout, and the session is securely terminated	Functional	<input type="checkbox"/>
Interface navigation	The chat interface is intuitive and easy to navigate without prior knowledge	Usability	<input type="checkbox"/>
UI clarity	All buttons, icons, and labels are clear and consistent	Usability	<input type="checkbox"/>
Scrolling	Scrolling within the chat window is smooth and responsive	Usability	<input type="checkbox"/>
Language support	Language changes occur seamlessly, without disrupting ongoing tasks	Usability	<input type="checkbox"/>
Layout responsiveness	Layout adapts smoothly to different window sizes	Usability	<input type="checkbox"/>
Task efficiency	Users can complete common tasks in under a reasonable time threshold	Usability	<input type="checkbox"/>

Concurrent users	The system handles a number of concurrent users without slowing or freezing	Performance	<input type="checkbox"/>
Chat history performance	Chat history loads within an acceptable time frame	Performance	<input type="checkbox"/>
Message responsiveness	The application remains responsive during rapid message sending or receiving	Performance	<input type="checkbox"/>
Stability under input	The application remains responsive and stable, even under rapid or repeated user inputs	Performance	<input type="checkbox"/>