



Requirements Gathering





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1) Stakeholder Analysis

Key Stakeholders:

- End Users (Chat Website Users): Individuals using the platform for communication.
- Administrators: Manage users, monitor chats, and ensure security.
- **Developers**: Responsible for maintaining and enhancing the system.
- Project Owner: Oversees project goals and ensures requirements are met.
- **Security Team**: Ensures data protection and compliance with privacy policies.

Stakeholder Needs:

Stakeholder	Needs
End Users	Seamless communication, real-time messaging, user-friendly UI
Administrators	User management, message moderation, reporting tools
Developers	Well-structured codebase, documentation, debugging tools
Project Owner	Functional system meeting business goals, scalable solution
Security Team	Data encryption, authentication, and compliance standards





2) <u>User Stories</u>

- 1) As a user, I want to create an account so that I can log in securely.
- 2) As a user, I want to send and receive real-time messages so that I can chat with others.
- **3) As a user**, I want to create and join group chats so that I can communicate with multiple People at once.
- **4)As an admin**, I want to delete inappropriate messages so that I can maintain a safe environment.

3) <u>Use Cases</u>

1) Sending a Message:

Actors: User (Sender), User (Receiver)

System Steps:

- 1. User logs into the system.
- 2. User selects a contact or group.
- 3. User types a message and clicks send.
- 4. System processes and delivers the message in real time.
- 5. Receiver gets a notification and views the message.





2) Deleting a Message:

Actors: User (Message Owner)

System Steps:

- 1. User logs into the system.
- 2. User navigates to the chat containing their message.
- 3. User selects a message they have sent.
- 4. User clicks the delete option.
- 5. System prompts for confirmation.
- 6. User confirms deletion.
- 7. System removes the message from the chat history.

4) Functional Requirements

- 1) Users must be able to register and log in securely.
- 2) Users must be able to send and receive messages in real-time.
- 3) Users must be able to create and join group chats.
- 4) Users must be able to delete their own messages.
- 5) Admins must be able to manage users and remove inappropriate content.





5) Non-Functional Requirements

- 1) The system must handle at least 400 concurrent users.
- 2) Messages should be delivered within 2 seconds.
- 3) The system must use encryption for secure messaging.
- 4) The UI must be intuitive and responsive across devices.
- 5) System uptime should be 99% or higher.