User stories

Critical
1. As a user, I would like to create an account, so I can use the system
2. As a user, I would like to log in the system with my account, in order to use the app

High
1. As a user, I would like to to search for another user that is using the system
2. As a user, I would like to send messages to other users who are using the system
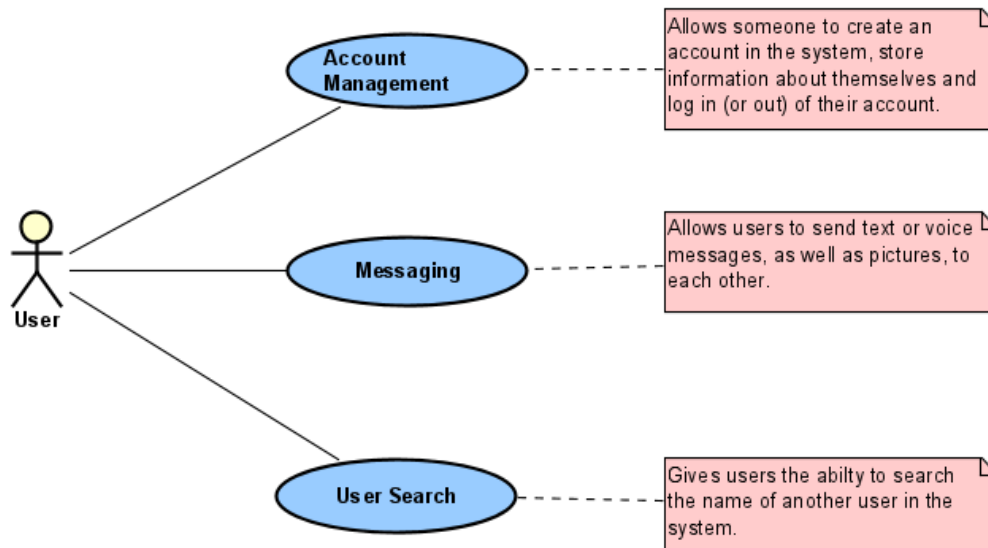
Low
1. As a user, I would like to be able to see a list of active and inactive users, so I can see the total amount of users in the system
2. As a user I would like to be able to send pictures.
3. As a user I would like to be able to send a voice message
4. As a user, I would like to be able to view the profiles of other users, so I can see some information about themselves
5. As a user i would like to have secure connection so no one can snoop through my messages
6. As a user, I would like to store information about myself, so that other users can see it

Non-functional
1. As an owner i would like the system to be split into 3 parts so if one part fails the system doesn't shut down
2. As an owner I would like the system to be built using java and c#
3. As an owner I would like the the system to use sockets
4. As an owner I would like the system to use web services
5. As a user I would like to have an easy interface to use

Use Case Diagram

- **Account Management** — Allows someone to create an account in the system, store information about themselves and log in (or out) of their account.
- **Messaging** — Allows users to send text or voice messages, as well as pictures, to each other.
- **User Search** — Gives users the abilty to search the name of another user in the system.

Use Case Descriptions

Use Case Description
Use Case: Account Management
Goal: Account creation, store information about one's self, logging into the account, logging out of the account
Actor: User

Scenario 1: Account creation

Pre-condition: Not an already existing user of the system

Actor User	System
1. Open up account access page 2. Enter username 3. Enter password 4. Click 'Create New Account' button **[E1],[E2]**	1. Opens respective window in the browser 4. Create new account in the system
Errors	
Actor User	System
[E1]: Incorrect Input 4.1 Must correct to appropriate input **[E2]:** Account already exists 4.2 Must put in a different user name	4.1 Displays Error Message 'Username is not available' 4.2 Displays Error Message 'Username has been taken''

Scenario 2: Store Information

Pre-condition: Must be an already existing user in the system

Actor User	System
1. Open up account management page 2. Enter new Username and password **[E3]** 3. Enter E-mail **[E1], [E2]** 4. Click 'Save' button	1. Opens respective window in the browser 4. Save the information in the system
Errors	

Actor User	System
[E1]: Incorrect E-mail 4.1 Must correct to appropriate input **[E2]:** E-mail already in use 4.2 Must put in a different e-mail **[E3]:** Incorrect Username 4.3 Must put in a different username	4.1 Displays Error Message 'Please enter a different E-mail' 4.2 Displays Error Message 'E-mail is already in use' 4.3 Displays Error Message 'Please enter a different username'

Scenario 3: Account Login

Pre-condition: Must be an already existing user in the system

Actor User	System
1. Open up account login page 2. Enter Username 3. Enter Password 4. Click 'Login' button **[E1] [E2]**	2. Opens respective window in the browser 4. Save the information in the system
Errors	
Actor User	System
[E1]: Incorrect username 4.1 Must put in a correct username **[E2]:** Incorrect password 4.2 Must put in a correct password	4.1 Displays Error Message 'Please enter a different username' 4.2 Displays Error Message 'Please enter a different password'

Scenario 3: Account Logout	
Pre-condition: Must be an already existing user in the system	
Actor User	**System**
1. Open up account management page 2. Click 'Logout' button	1. Opens respective window in the browser 2. Logs the user out of the system

Use case description

Use case: Messaging

Summary: Allow the users to communicate between themselves

Actors: User

Pre-condition: Must be an existing user in the system

Actor	**System**
1. Type the message in message field 2. Click the "Send" button **[E1] [E2]**	2.1 Verify and send message to the other user 2.2 Message is visible

Errors	
Actor User	**System**
[E1]: 2.1 User spams the chat with messages; More than one message in the span of 3 seconds	2.1 Displays Error Message 'You are sending messages too fast, please wait'
[E2] 2.2 User sends a video message	2.2 Displays Error Message 'Message format is not supported'

Use case description

Use case: User search

Goal: Allow users to look up other users in the system

Actor: User

Pre-condition: Must be an existing user in the system

Actor	**System**

1. Click on the search bar on the main page. 2. Enter the name of the user you wish to search **[E1]** 3. Click the "Go" button	3.1 Looks up the name in the existing database

Errors	
Actor User	**System**
[E1]: 2.1 User enters a name that does not exist	2.1 Displays Error Message 'Incorrect name entered'