

Use Case:	User Creation
Primary Actor:	System user
Preconditions:	User is not logged into the system
Scenario:	<ol style="list-style-type: none"> 1. User signs up to create a user in the system 2. User enters his/her details in the sign-up form 3. System displays all mandatory fields 4. User submits the form 5. System confirms the user creation
Exceptions:	<ol style="list-style-type: none"> 1. User did not fill the mandatory fields, system should display appropriate error 2. User uses a user name or email that already exists, system should display appropriate error

Use Case:	User SignIn
Primary Actor:	System user
Preconditions:	User is not logged into the system
Scenario:	<ol style="list-style-type: none"> 1. User enters the credentials in sign in form 2. User gets signed in and ready to use chat app
Exceptions:	<ol style="list-style-type: none"> 1. User provided incorrect, credentials, system should display appropriate error 2. User never signed up

Use Case:	User Search
Primary Actor:	System user
Preconditions:	User is logged into the system

Scenario:	<ol style="list-style-type: none"> 1. User enters name of user or username of the user in search 2. Systems shows the matching users with username or displays none in case of no match
Exceptions:	<ol style="list-style-type: none"> 1. The user matching searched string doesn't exist.

Use Case:	User to User online chat
Primary Actor:	System user
Preconditions:	Both users are online and actor user is signed in
Scenario:	<ol style="list-style-type: none"> 1. User enters name of user or username or email of the user in search 2. Systems shows the matching users with username, name and email. 3. User selects the particular user to chat with 4. System shows the chat box which is private to both user 5. User enters a text message and selects send 6. Message to another user should be sent 7. The other user should also be able to do the same
Exceptions:	<ol style="list-style-type: none"> 1. The other user is not online. This issue would be addressed in user to user offline chat 2. The other user gets deleted before sending the message. The message never gets delivered and system shows the message. 3. The user exceeds the message length limit, system shows the error message

Use Case:	User to User offline chat
Primary Actor:	System user
Preconditions:	Both users are in the system and only actor user is online
Scenario:	<ol style="list-style-type: none"> 1. User enters name of user or username or email of the user in search 2. Systems shows the matching users with username, name and email. 3. User selects the particular user to chat with an offline user 4. System shows the chat box which is private to both user 5. User enters a text message and selects send 6. Message to another user should be sent 7. The other user should be able to see the messages when he/she comes online

Exceptions:	<ol style="list-style-type: none"> 1. The other user gets deleted before sending the message. The message never gets delivered and system shows the message.
-------------	---

Use Case:	Create Group
Primary Actor:	System user
Preconditions:	User is logged into the system
Scenario:	<ol style="list-style-type: none"> 1. User enters the group name. 2. The new group with provided name is created and acting user is a moderator by default.
Exceptions:	<ol style="list-style-type: none"> 1. A group with the same name already exists.

Use Case:	Update Group
Primary Actor:	System user
Preconditions:	User is logged into the system
Scenario:	<ol style="list-style-type: none"> 1. The system lists all the groups where the actor user is member and displays which of the groups he/she can update. 2. User provides the name of the group they want to update. 3. The system shows options to "Add/delete Users", "Add/delete moderators" and "Rename group".
Exceptions:	<ol style="list-style-type: none"> 1. User is not a part of any group. 2. User is not a moderator of any of the listed groups. 3. If a user can modify a group, he enters the incorrect name. 4. User is removed as a moderator by another moderator before he/she can update the group.

Use Case:	Add users to group
Primary Actor:	System user
Preconditions:	User is logged into the system and is a moderator of the group.

Scenario:	<ol style="list-style-type: none"> 1. User enters usernames who needs to be added to the group as per the system request. 2. The users who are not part of the group already will be added to the group. 3. The system provides adequate feedback after the operation is performed.
Exceptions:	<ol style="list-style-type: none"> 1. User being added is already a member. 2. User being added doesn't exist. 3. The actor user's moderator rights are revoked before the operation is performed. 4. The user being added is deleted before the operation gets completed.

Use Case:	Delete users from Group
Primary Actor:	System user
Preconditions:	User is logged into the system and is a moderator of the group.
Scenario:	<ol style="list-style-type: none"> 1. System lists all the members of the group with demarcation of which users are moderators and which are not. 2. Actor user provides the name of the user he/she wants to delete. 3. The user is removed from the group and system provides correct feedback.
Exceptions:	<ol style="list-style-type: none"> 1. User being deleted is already deleted by another moderator. 2. User is no longer a part of the entire system.

Use Case:	Add moderator to the group
Primary Actor:	System user
Preconditions:	User is logged into the system and is a moderator of the group.
Scenario:	<ol style="list-style-type: none"> 1. User chooses a group in which he/she wants to add a moderator. 2. The system lists all the existing members of the group showing who is and isn't a moderator. 3. The actor user provides the name of the user he wants to make a moderator. 4. System provides appropriate response.
Exceptions:	<ol style="list-style-type: none"> 1. The user provides incorrect name of the member. 2. The user is already a moderator. 3. The actor user gets removed as a moderator by other moderator before the operation is performed.

	<ol style="list-style-type: none"> 4. The user is no longer a member of the group. 5. The user is deleted from the system.
--	--

Use Case:	Delete moderator from the group
Primary Actor:	System user
Preconditions:	User is logged into the system and is a moderator of the group.
Scenario:	<ol style="list-style-type: none"> 1. The user chooses the group from where the moderator needs to be deleted. 2. The system lists all the members and shows who is and isn't a moderator. 3. The actor user provides the name of the user he wants to remove as a moderator. 4. The system provides correct feedback.
Exceptions:	<ol style="list-style-type: none"> 1. The user provides incorrect name of the member. 2. The user is already removed as a moderator. 3. The actor user gets removed as a moderator by other moderator before the operation is performed. 4. The user is no longer a member of the group. 5. The user is deleted from the system.

Use Case:	Rename the group
Primary Actor:	System user
Preconditions:	User is logged into the system and is a moderator of the group.
Scenario:	<ol style="list-style-type: none"> 1. The user chooses which group needs to be renamed. 2. Provides new name of the group. 3. The system provides appropriate feedback
Exceptions:	<ol style="list-style-type: none"> 1. The user provides incorrect name of the group. 2. The actor user gets removed as a moderator by other moderator before the operation is performed. 3. The user is no longer a member of the group. 4. The user is deleted from the system. 5. The new name is already a name of other group.

Use Case:	Group chat
Primary Actor:	System user

Preconditions:	User is logged into the system and is a member of the group.
Scenario:	<ol style="list-style-type: none"> 1. The system asks for the name of the group user wants to chat in. 2. The system then searches all the groups where the user is member of and provides the list of groups which match the string. 3. User selects the group to send message in. 4. The chat is initiated.
Exceptions:	<ol style="list-style-type: none"> 1. The user provides incorrect name of the group. 2. The user is not a member of any group. 3. The actor user gets removed as a member by other moderator before the operation is performed. 4. The user is deleted from the system.

Use Case:	Delete the group
Primary Actor:	System user
Preconditions:	User is logged into the system and is a moderator of the group.
Scenario:	<ol style="list-style-type: none"> 1. The system lists all the groups where the user is a member of and it shows which groups can be deleted by the user. 2. The user provides the name of the group to be deleted from that list. 3. The system provides appropriate feedback.
Exceptions:	<ol style="list-style-type: none"> 1. The user provides incorrect name of the group. 2. The actor user gets removed as a moderator by other moderator before the operation is performed. 3. The user is no longer a member of the group. 4. The user is deleted from the system. 5. User enters the name of the group for which he/she is not a moderator of.

Use Case:	Follow a user
Primary Actor:	System user
Preconditions:	User is logged into the system
Scenario:	<ol style="list-style-type: none"> 1. The user searches the user they want to follow. 2. The system lists all the users matching with that string. 3. The actor user provides the name of the user they want to follow. 4. The system provides the correct output.
Exceptions:	<ol style="list-style-type: none"> 1. The actor user is deleted from the system before the operation gets performed.

	<ol style="list-style-type: none"> 2. The user that is being followed gets deleted from the system before the operation gets performed. 3. The actor provides incorrect name. 4. The actor tries to follow themselves.
--	---

Use Case:	List followers
Primary Actor:	System user
Preconditions:	User is logged into the system
Scenario:	<ol style="list-style-type: none"> 1. The actor user wants to list his/her followers. 2. The system lists the followers and displays which one of them are online and offline.
Exceptions:	<ol style="list-style-type: none"> 1. The actor user is deleted from the system before the operation gets performed. 2. The follower user that is being followed gets deleted from the system before the operation gets performed. 3. The actor user has no followers to display. 4. The actor user is removed from the system.

Use Case:	Translate message
Primary Actor:	System user
Preconditions:	User is logged into the system
Scenario:	<ol style="list-style-type: none"> 1. The actor user selects the option to send the translated message. 2. The system presents the option to provide the language acronym to send message. 3. Once the language is selected, the message sent will be translated to the selected language.
Exceptions:	<ol style="list-style-type: none"> 1. The actor user is deleted from the system before the operation gets performed. 2. The other user gets deleted from the system before the operation gets performed. 3. The translation for that phrase for that language is incorrect. 4. API is not available to function correctly.

Use Case:	Recall messages
Primary Actor:	System user

Preconditions:	User is logged into the system
Scenario:	<ol style="list-style-type: none"> 1. The actor user selects a user to chat with. 2. The other user is not online. 3. The actor users sends the message. 4. Then actor user decides to recall the messages. 5. The system asks for how many numbers of messages to recall. 6. The system then removes the last n number of undelivered messages.
Exceptions:	<ol style="list-style-type: none"> 1. The actor user is deleted from the system before the operation gets performed. 2. The actor user is removed from the system. 3. The messages are read before they get recalled.

Use Case:	Unread message
Primary Actor:	System user
Preconditions:	User is logged into the system
Scenario:	<ol style="list-style-type: none"> 1. The actor user wants to get all the messages while they were offline. 2. They select the appropriate option to get the messages. 3. The system responds with all the user and group messages for the actor user.
Exceptions:	<ol style="list-style-type: none"> 1. The actor user is deleted from the system before the operation gets performed. 2. The messages are recalled before the operation gets performed. 3. The group with all its messages is deleted before the operation gets performed.

Use Case:	Super user
Primary Actor:	System user
Preconditions:	User is logged into the system
Scenario:	<ol style="list-style-type: none"> 1. The actor user is a superuser and wants to get all the chat for a user or a group. 2. The system asks for the options to choose from. 3. The super user provides whether he wants user chat or group chat. 4. The system shows option to get all messages or messages between specific timespan. 5. Based upon the input, system provides correct output.
Exceptions:	<ol style="list-style-type: none"> 1. The super user gets their right revoked. 2. The chat between the users is deleted.

	<ul style="list-style-type: none">3. The group is deleted.4. The requested timespan has no messages.
--	---