

## M2: Project Description and Requirements

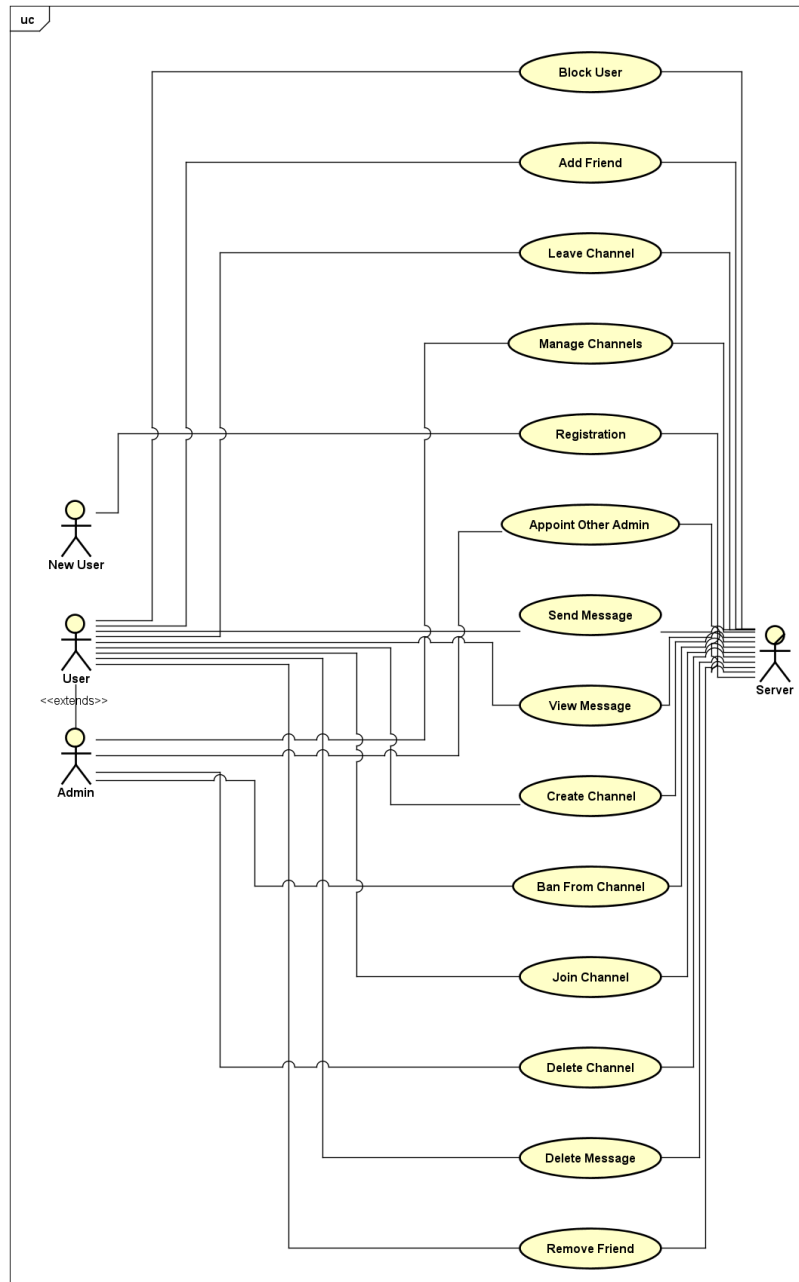
Discord Clone is our project. Our project is a chat application created to communicate and collaborate with others around the world. It offers a wide variety of features, allowing users to create an account in order to effectively communicate with others. Our project will allow users to add friends to directly talk with them in private messages or even create lobbies which contain channels and allows multiple users to seamlessly connect together.

With the system, new users can register for an account, while users with an account can log in to their accounts. Users are able to join and leave channels, send direct messages privately and within channels. Users can input their personal information, add and remove friends and invite other users to their channel. Admins also have requirements which are being able to manage channels, removing users from channels and appointing other users to become the admins of channels.

The functional requirements of our system include hiding channels that users are not in, a database that contains all channels including message and channel history, users that are connected or banned and admins. The system stores channel ID's to invite other users to the channel, it stores user's personal information and prevents the public from viewing it and the system stores a list of admins and regular users. Lastly, the system requires that users can only view friends and channels when logged in.

## Use case diagrams.

As a user, I want to be able to use a safe and reliable communication app, so that I can communicate with my classmates and friends. As a user, I want to be able to create channels in a trustworthy server, so that my personal information is secure and easily accessible. As a user, I want to be able to add, remove or block people, so that I can prevent scammers and bots to protect my personal privacy. As a user, I want to be able to directly message people, so that I can privately communicate with them without making a channel. As a user, I want to be able to use an app that requires an account, so that random people can't view my account information.



## **Requirements:**

### User Requirements

Allow users to log into account

Allow new Users to Register for an account

Allow Users to join & Leave Channels

Allow users to Send messages to each other and within a channel

Users can Add/remove friends

Invite other users to Channels

Users should be able to input personal info

### Admin Requirements

Admins should be allowed to manage channels

Admins should be able to remove members of channels

Appoint other users to be admins of a channel

### System Requirements

Hide Channels user is not in

Database containing all Channels, including message/channel history, connected users, banned users and admins.

User can only view channels and friends when logged in

Store channel ID's to invite other users to channel

System should store user's personal information and not display it publically

System should store a list of Admins and Regular users

### **User Stories:**

As a user, I want to be able to use a safe and reliable communicate app, so that I can communicate with my classmates and friends.

As a user, I want to be able to create channels in a trustworthy server, so that my personal information is secure and easily accessible.

As a user, I want to be able to add/remove/block people, so that I can prevent scammers/bots and protect my personal privacy.

As a user, I want to be able to directly message people, so that I can privately communicate with them without making a channel.

As a user, I want to be able to use an app that requires an account, so that random people can't view your account/information.