CS2043-01A08:

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Software Engineering Project Proposal

**Title of proposed application**:

Social Messenger

**Overview of functionality**:

This application is a private messaging based social media application similar to Discord or WhatsApp. Users can make friends or create groups for users to join, then send messages to these individuals and groups.

**Actors:**

User Actor: Send and receive messages to and from other users.

Administrator Actor: Moderate user messages and interactions

**Use Cases:**

RemoveMessage use case:

Actor: Administrator

Using this use case, an administrator can remove an offensive message from any user.

BanFromGroup use case:

Actor: Administrator

Using this use case, an administrator can ban any user from any group that user is in.

RemoveUser use case:

Actor: Administrator

Using this use case, an administrator can remove any user account from the application.

SendMessage use case:

Actor: User

Using this use case, a user can send a message to users they are friends with or groups they are apart of.

DeleteMessage use case:

Actor: User

Using this use case, a user can delete any message they have sent.

ViewMessage use case:

Actor: User

Using this use case, a user can view a message which has been sent to them, or to a group they are a part of.

SearchUser use case:

Actor: User

Using this use case, a user can search for other users on the application.

SendRequest use case:

Actor: User

Using this use case, a user can send a friend request to another user on the application.

ReplyToRequest use case:

Actor: User

Using this use case, a user can reply to a friend request sent to them, either accepting or declining it. If they accept it, the users will be connected, and can then send messages to each other.

CreateGroup use case:

Actor: User

Using this use case, a user can create a group of multiple users that they are friends with.

JoinGroup use case:

Actor: User

Using this use case, a user can join a pre-created group even if they are not friends with all of the members.

CreateAccount use case:

Actor: User

Using this use case, a user can create a personal account which can be found by other users with the search function.

KickFromGroup use case:

Actor: User

Using this use case, user can remove another user from their group.

LeaveGroup use case:

Actor: User

Using this use case, user can leave a group.