

W15A_DREAM - Iteration 3 Report

[Requirements] Elicitation

5 Questions:

1. What communication tools/apps are you currently using and can you provide a brief reason on why you're using it?
2. What do you think could be improved on in your communication tool/app?
3. What issues have you run into when using your communication/app recently?
4. Do you believe that your communication tool/app allows you to effectively communicate to your team? Why/why not?
5. What new features would you like to add to your communication tool/app?

Person 1 - Clyde Hua:

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1. Discord, Instagram, Snapchat, Outlook Email, Microsoft Teams, Gmail, a lot of people use it, so you use it as well, it's convenient.
2. There are bugs, for Discord sharing your screen does not share properly, some apps have to reconfigure screens to display sharing.
3. You get auto muted on Discord mobile, and have to exit out and rejoin
4. Yes, people use the same app, everyone is in the same group chat. You can easily ping people.
5. Microsoft teams, to be able to completely block them off, not just mute them. Blocking includes disabling the wanted person from sending messages to you, still being able to see past messages, but cannot interact with them.

Person 2 - Joshua Hutchinson:

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1. Snapchat - It has quick easy photos to send to friends along with captioning the photos.
Instagram - I mainly use this for messaging some friends
Discord - I use this app a lot for voice calling multiple friends while playing games
MS teams - I only use this for educational purposes where a lot of uni courses communicate through this app
2. Snapchat have really missed on the discover stories and spotlight,
I honestly think I shouldn't be pinged multiple times if I get multiple messages in a short time, it gets annoying. If there are multiple messages from the same source, I think an improvement would be not to ping for every message. This is why I'm on do not disturb for any app because the pings are annoying
3. The MS teams pop up at the bottom right of the screen always minimises any full screen application I have open.
I also always have to mute the app when I'm in a group call (especially on teams) as when I'm trying to listen, I constantly just hear the group chat going off.
4. Snapchat is pretty bad at effectively communicating to a team, files are easily lost in a group chat, this is the same with Instagram.
However teams and discord are great as you can have a collection of different chat with different purposes which makes it extremely easy to organise

5. Something so that I didn't have to go on 'do not disturb' for every app I get. There are too many pings. If there was a way to reduce the amount of pings I get, I feel like the apps would get better.

How to solve their problems:

Clyde wants to be able to block other users in order to not be disturbed. The proposed solution would be to add a prompt/button on a user's profile so that user can be blocked by other users.

Joshua wants to be able to share files but in a concise and organised manner. The proposed solution would be allowing for sent files in a channel to be both viewable in chat and also as a file-only list next to the chat.

[Requirements] Analysis & Specification - Use Cases

User stories:

1. As a member of a team project, I want a communication app that has the ability to block off users that I do not appreciate, so that they cannot interrupt my flow of thought or study.

User Acceptance Criteria:

- a. Block button should be on the target user's profile
 - b. Should not see any new messages or notification from the blocked user
 - c. Blocked user should not be able to interact with the person who blocked them
2. As a member of several group chats, I would like to reduce the amount of notifications I get so that I can focus and not be overwhelmed by pop-ups/notifications.

User Acceptance Criteria:

- a. Have a mute button for each individual group chat/channel so that all messages will be muted from that specific chat
 - b. Mute button should have options e.g muting the chat for several hours or until unmuted
 - c. If the notification has a sound, it's volume should be adjustable
3. As a member of a team project, I would like to easily share files in the group chat so that other members can easily access my work if necessary.

User Acceptance Criteria:

- a. Should have a button in the group chat/channel that allows for an individual to share their file
- b. File should be scanned in case it contains something malicious
- c. Other members should be able to click on the file to download it
- d. Files sent in chat should also be organised separately for each chat/channel so that they can be easily accessed later

Use cases:

Use-case list for blocking another user:

1. User A's profile has a prompt to be blocked
2. User B selects prompt to block User A
3. User B can't view new messages or receive any new notifications from User A

Use-case list for file sharing:

1. Channel has a prompt to file share
2. Channel member clicks on prompt and selects their file to be shared
3. Server verifies that the file is safe
4. Channel displays shared file in chat if it is safe
5. Channel displays shared file in the channel's organised file tab
6. Other channel members click on shared file to download

[Requirements] Validation

Clyde's comment on blocking another user: *"Yeah, this is simple and exactly what I was thinking."*

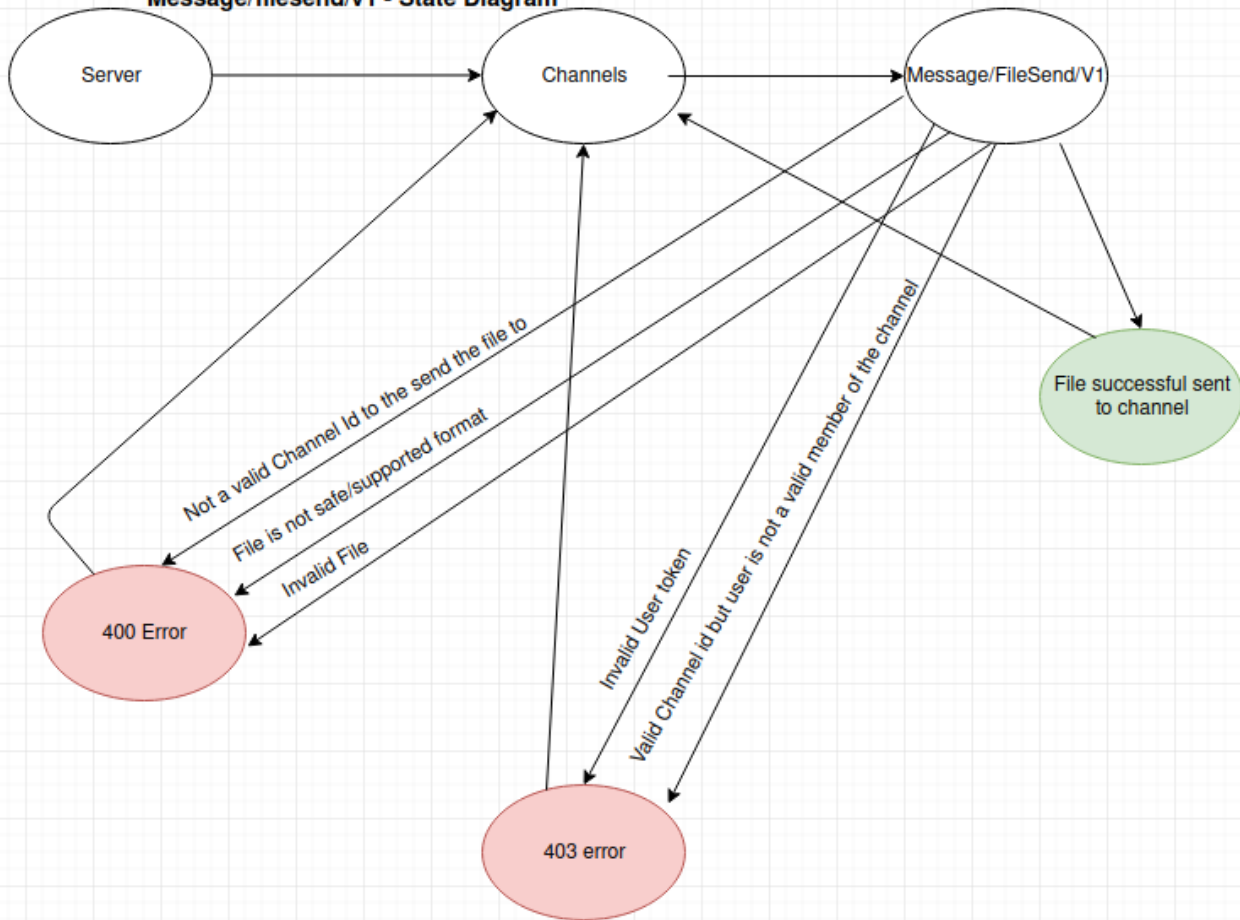
Joshua's comment on file-sharing: *"This is pretty much what I wanted. The organised file tab would be nice to have."*

[Design] Interface Design

Name and Description	HTTP Method	Data Types	Exceptions
user/blockUser/v1 Passing in a valid session token and another valid user, the original user is able to block off messages sent by the other user. Previous messages can still be seen, but cannot be interacted with.	PUT	Body/Query Parameters: (token, userId) Return if no error: { }	400 Error when: <ul style="list-style-type: none">- 'userId' of the user to block does not refer to a valid user- 'userId' is already blocked 403 Error when: <ul style="list-style-type: none">- 'token' is invalid
message/fileSend/v1 Sends a file from the authorised user to the channel specified by 'channelId'. Note: file message should have its own unique ID.	POST	Body/Query Parameters: (token, channelId, file) Return if no error: { }	400 Error when: <ul style="list-style-type: none">- 'file' is not safe- 'channelId' does not refer to a valid channel- 'file' is invalid 403 Error when: <ul style="list-style-type: none">- 'token' is invalid- 'channelId' is valid and the authorised user is not a member of the channel

[Design] Conceptual Modelling - State Diagrams

Message/filesend/v1 - State Diagram



User/Blockuser/v1 - State Diagram

