

Elicitation

Interviewee: Kayosh Thiyagaraja

Email: Kaythiyaga@gmail.com

Q. What are the main communication barriers that you have experienced when working as a team in terms of communication tools that you have used?

The main problems I have experienced is prolonged reply times along with missing deadlines due to that and miscommunication.

Q. In regards to reply times, how often would you want team members to reply back?

Within 1 day

Q. What features would you want to see implemented in your current communication tool to help with the problems that you are experiencing?

- A bump feature that notifies other users for urgent tasks
- An automatic reminder for tasks that have been tagged with a deadline

Proposed Solution:

- A bump button that enables users to input the task along with the time they want it to be bumped in the chat

Interviewee: Cathy Xu

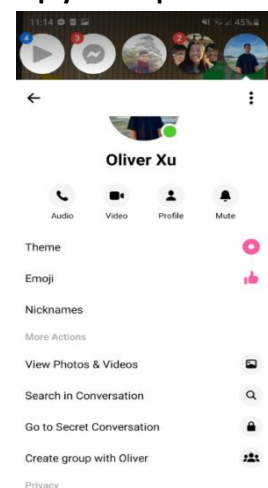
Email: cathy.xu35@gmail.com

Q. What are the main communication barriers that you have experienced when working as a team in terms of communication tools that you have used?

Currently, I use messenger where its hard to keep deadlines on track as messages are often lost. Additionally, it doesn't have a do to lists which makes collaboration in teams harder.

Q. What features would you want in your current communication tool to help you keep deadlines on track?

On this page, it'll be great to have a section that says tasks and by clicking into it, you can see the deadlines for each task



Q. What features would you want in your current communication tool to help you with your to-do list?

On the same page as before, have a section that says task where by clicking into it, you can see the tasks each person needs to complete along with the ability to tick them off

Proposed Solution:

- A task section that enables users to input to-do tasks and its deadlines and tick them off
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Interviewee: Matt Chua

Email: mattchua17@gmail.com

Q. What are the main communication barriers that you have experienced when working as a team in terms of communication tools that you have used?

One communication barrier I've faced is lacking a proper visual aid during team discussions. Even with the option to share screens, it is sometimes difficult to convey ideas through images and text. This applies especially to design related tasks that are more abstract. Another barrier would be referencing links or accessing files that have been shared, which can sometimes be difficult to locate as messages in group chats build up. Lastly, audio quality is also an issue I've faced during team calls which can be caused by having a large number of people, differences in devices and internet connections.

Q. How would you want things to be visually represented other than sending images/sharing screens?

I would more like an advanced way in the drawing/editing features that messenger provides.

Q. How would you want to access referencing links/files without them being lost in the chat?

Having a side tab for shared links with everything compiled.

Proposed Solution:

- Having the ability to edit/draw on images that users send
- Having a tab that lists out all the referenced links/files any important texts/links/files that can be accessed

Analysis & Specification – Use Cases

User Story & UAC 1

As a **team member**, I want to **be able to set reminders** so my team can **see when tasks are due**

- A reminder/bump button near the message bar that enables users to set a reminder/bump
- Once a user clicks on the reminder/bump button, ability to enter the task name along with the time all members in chat will be reminded/bumped
 - o A field containing a placeholder with a grey-coloured text 'Task name'
 - o A field containing a placeholder with a grey-coloured text 'Reminder time'
 - o The placeholder disappears once the user starts typing
- Ability for all members to receive the notification of the reminder/bump when the time arrives

User Story & UAC 2

As a **team member**, I want to **be able to set tasks and deadlines** so my team **can be on the same page regarding current and future tasks**

- A task tab that appears to the right with a button which enables users to set tasks, their deadline and ability to tick it off
 - o A field containing a placeholder with a grey-coloured text 'Task name'
 - o A field containing a placeholder with a grey-coloured text 'Due date'
 - o A circular button that checks off the task
- Lists out the task and deadline in the task tab

Use Case: Set tasks and deadlines

Goal in Context: Users be able to set tasks and deadlines where everyone can see

Scope: Dreams

Level: Primary Task

Preconditions: User is an authorised user

User is a member of the channel/dm

Success End Condition: User has set the task and its deadline

Failed End Condition: User didn't set any task or deadline

Primary Actor: User

Trigger: User opens up the task tab

MAIN SUCCESS SCENARIO: User logs in and sets a task and deadline to a dedicated channel

- Step 1 – User loads Dreams
- Step 2 – Dreams asks for email and password
- Step 3 – User enters email and password
- Step 4 – Dreams checks if email and password are valid
- Step 5 – Dreams logs in user
- Step 6 – Dreams shows the user the channel he/she is a part of
- Step 7 – User goes to the channel he/she wants to set the task and deadline
- Step 8 – User opens the task bar
- Step 9 – User clicks the add task button
- Step 10 – Dreams shows the required input fields

Step 11 – User inputs the task name and deadline

Step 13 – Dreams processes the task and deadline

User Story & UAC 3

As a **team member**, I want to **be able to edit/draw on photos** so I can **communicate my idea better with my team**

- A button that enables users to edit/draw on photos/images sent
 - Button to draw lines
 - Button to import shapes
 - Button to use different colours
- Another button that enables users to send the edited photo/image

User story & UAC 4

As a **team member**, I want to **be able keep important links/files/messages** so I can **instantly find these links/files/messages without wasting time**

- A button that opens/closes a tab to store important information
- Within this tab:
 - A button that enables users to input files from their own computer
 - A message bar that enables users to sent important links/messages

Validation

Interviewee: Kayosh Thiyagaraja

Email: Kaythiyaga@gmail.com

Q. Would this solve your problem?

Yes

Q. Any comments or any specific features you want in addition for this?

Not really

Interviewee: Cathy Xu

Email: cathy.xu35@gmail.com

Q. Would this solve your problem?

Yes

Q. Any comments or any specific features you want in addition for this?

It would be nice if I could add additional sub-tasks or something like a description under each main task

Interviewee: Matt Chua

Email: mattchua17@gmail.com

Q. Would this solve your problem?

Yes

Q. Any comments or any specific features you want in addition for this?

Can add something like a header for each link/file so I know what they contain without opening it

Interface Design

For this report, we will be focusing on the User Story of 'As a **team member**, I want to **be able to set tasks and deadlines** so my team **can be on the same page regarding current and future tasks**'

where the solution will include:

- A task tab that appears to the right with a button which enables users to set tasks, their deadline and ability to tick it off
 - o A field containing a placeholder with a grey-coloured text 'Task name'
 - o A field containing a placeholder with a grey-coloured text 'Due date'
 - o A circular button that checks off the task
- Lists out the task and deadline in the task tab

Name & Description	HTTP Method	Data Types	Exceptions
tasktab/create/v1 Creates a new tasktab within the dedicated channel or dm	POST	Parameters: (token, channel_id, dm_id) Return Type: {tasktab_id}	InputError when: <ul style="list-style-type: none">- channel_id or dm_id is not a valid id- an existing taskbar already exists in the channel or dm AccessError when: <ul style="list-style-type: none">- token is not a member of the channel or dm the tasktab is created in
tasktab/input/v1 Inputs a task in the taskbar	POST	Parameters: (token, tasktab_id, task_name, time_deadline) Return Type: {task_id}	InputError when: <ul style="list-style-type: none">- tasktab_id is not a valid id- time_deadline is a time in the past AccessError when: <ul style="list-style-type: none">- token is not a member of the channel or dm where tasktab_id is in
tasktab/listall/v1 Provide a list of all the taskbars (and their associated details)	GET	Parameters: (token) Return Type: {tasktab}	N/A

tasktab/tickoff/v1 Given a task_id , this task is removed from its dedicated tasktab	DELETE	Parameters: (token, task_id) Return Type: {}	InputError when: <ul style="list-style-type: none"> - task_id is not a valid id AccessError when: <ul style="list-style-type: none"> - token is not a member of the channel or dm where the tasktab_id in which task_id is located in
tasktab/delete/v1 Given a tasktab_id, delete the entire tasktab from its dedicated channel or dm	DELETE	Parameters: (token, tasktab_id) Return Type: {}	InputError when: <ul style="list-style-type: none"> - tasktab_id is not a valid id AccessError when: <ul style="list-style-type: none"> - token is not a member of the channel or dm where the tasktab_id is in

- tasktab is a list of dictionaries containing tasks
- tasks is a list of dictionaries containing task_name and time_deadline

Conceptual Modelling (State)

