PLANNING

Thu13 Grape Team1

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1.ELICITATION

INTERVIEW-1

Name: Qitong Jiang

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Q1: What tools do you currently use for teamwork?

Wechat.

Q2: Why do you prefer Wechat for teamwork?

Wechat is a commonly used communication tool for us. Almost everyone checks their Wechat every day. Although it's not exactly an app for teamwork, It's easy to contact everyone on Wechat, which makes the communication between team members more efficient.

Q3: Comparing with Wechat, do you think there's any advantage for using flockr?

Well, flockr is a website designed for teamwork, while Wechat is a more personal communication tool like messenger. So, if I'm doing a project with team members that I'm not familiar with, flockr can help protect my private information as well as working with my teammates.

Q4: What problems do you think you might have with flockr?

I think not everyone will check flockr frequently every day, so there might be a problem when we suddenly have some emergency issues for the project. In Wechat, messenger for Microsoft Team, we can @ the people in the group while sending a message and they're gonna receive a notification immediately for that message. But for flockr, it might be hard to find everyone immediately.

Name: QIbai CHEN - 2 -

Email: st4rdust0516@gmail.com

Q1: What tools do you currently use for teamwork?

WhatsApp and Messenger, but I prefer to use WhatsApp.

Q2: Why do you prefer WhatsApp for teamwork?

Because there are many international students in my major, they are not only from China, so there are not many opportunities to use WeChat, WhatsAPP can open Read Receipts. After posting tasks or sharing opinions, you can clearly see that those people have seen the messages. This can avoid some contradictions and increase work efficiency.

Q3: Compared with WhatsApp *, do you think there's any advantage for using flockr?*

To be honest, I don't think flockr has any advantages compared to WhatsApp, because WhatsApp basically covers all the functions in flockr, and WhatsApp can be downloaded to mobile, and flockr prefers to use it on the web, so In terms of convenience or functionality, WhatsApp is better to use in group activities.

Q4: What problems do you think you might have with flockr?

I think it is very important to have a voting system. Many times in group cooperation, there will be differences in opinions due to disagreement. Therefore, setting up a voting system can help the group increase the efficiency of decision-making.

Name: Yuqing Li

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Q1: What tools do you currently use for teamwork?

Wechat.

Q2: Why do you prefer Wechat for teamwork?

Well, first of all, Wechat is the most popular social app among us, no matter in work or daily life. People almost won't log out, which makes it easy to contact each other at any time. However, the most important reason I think is the strong and fancy functions it has, which makes work done conveniently and quickly.

Q3: Comparing with Wechat, do you think there's any advantage for using flockr?

Ummm, it might be a good idea to have an independent software aiming for formal work communication, which does not have many fancy stuffs to distract you.

Q4: What problems do you think you might have with flockr?

As it is designed for teamwork communication, I think more functions needed for message related stuff. For example, it's of great convenience to have access to all the important messages collected from channels in a place where they are easy to find. I think many people, like me, have the habit of referencing the important information delivered by others, and don't want to miss any tiny stuff. It also makes referencing more convenient than searching back historical communications.

2.ANALYSIS & SPECIFICATION - USE CASES

USER STORY 1:

As a user, I wanna have a quick way to inform my teammates outside the flockr so that they will not miss the urgent information or event when they are not on flockr.

● The notification process is triggered when right click on a message in a channel and click "send notification.

● The person who sent the message is a valid flockr user with a valid token.

● The user who sent the message is the owner of this channel or the owner of flockr.

● An email will be sent to all the channel members including the name of the authorised user and the message.

- **Use Case:** Send notification to channel members

- **Goal in Context:** Users need to create voting information in their channel and select their preferred options

- **Scope:** Database, frontend interface

- **Level:** Primary task

- **Preconditions:** The user should be a registered member of flockr with login status. The message is sent by the user or the user is either the owner of the flockr or the owner of the channel.

- **Success End Conditions:** Successfully send emails including the notification message to all channel members.

- **Failed End Conditions:** Unable to send emails

- **Primary Actor:** User

- **Trigger:** Right click on the message and click "send notification"

MAIN SUCCESS SCENARIO

Step1. User A send a message

Step2. User A click "send notification" for the message

Step3. All users in the channel receive the email including the message.

USER STORY 2:

As a team leader, I want to have a vote function so that we could generate which option can reach the greatest agreement in the team.

- The "create poll" button is places at the top right of the channel page

- The person who creates the poll is a valid flockr user with a valid token.

- The person who votes in the poll is a valid flockr user with a valid token.

- The person who creates the poll is a valid member in that channel.

- The person who votes in the poll is a valid member in that channel.

- Each option is between 1 and 50 characters inclusively in length.

- Current opening poll including the details is shown in the messages list.

- The current number of votes for each option will be included in the details

- Users can vote to the channel by clicking the preference option and then the "vote" button.

- **Use Case:** Conduct group voting

- **Goal in Context:** Users need to create poll information in their channel and select their preferred options

- **Scope:** Database, frontend interface

- **Level:** Primary task

- **Preconditions:** The user should be a registered member of flockr with login status, and is member of the channel

- **Success End Conditions:** Successfully display voting results and non-voting personnel

- **Failed End Conditions:** Unable to vote, unable to return correct results

- **Primary Actor:** User

- **Trigger:** create polly when user clicks the "create" button, vote when user clicks 'Vote' button

MAIN SUCCESS SCENARIO

Step1. User A clicks the "create poll"' button in the channel and creates 2 options

Step2. Information for the poll is shown, which indicates that option1 has zero vote, option2 has zero vote.

Step3. User B clicks "option1" and then click "vote"

Step4. Information for the poll is shown, which indicates that option1 has one vote, option2 has zero vote.

Step5. User C clicks "option2" and then click "vote"

Step6. Information for the poll is shown, which indicates that option1 has one vote, option2 has one vote.

As a team member, I want to collect the important messages in a particular space so that I can access them easily and quickly when referencing.

- A new button called 'my favourites' is added in the function button field of channel messages.

- Given a message within a channel，user can add it to 'my favourites'.

- User can find all the messages collected as a list in 'my favourites'.

- They can also be removed by the user when the message is no longer needed.

USECASE-3:

- **Use Case:** Collecting messages

- **Goal in Context:** Users need to collect and find particular messages in their personal fields

- **Scope:** Database, frontend interface

- **Level:** Primary task

- **Preconditions:** The user should be a registered member of flockr with login status, and is member of the channel

- **Success End Conditions:** The message is added successfully and can be found in 'my favourites'

- **Failed End Conditions:** The message cannot be added to 'my favourites'

- **Primary Actor:** User

- **Trigger:** User clicks 'add to favourites' button

MAIN SUCCESS SCENARIO

Step1. User A sends a message 'Hi' in the channel.

Step2. User B sends a message 'Bye' in the channel after.

Step2. User C clicks 'add to favourites' button for that two messages separately.

Step3. User C clicks the 'my favourites' button.

Step4. Flockr provides a list of two messages 'Hi' and 'Bye' to C.

Step5. User C clicks 'remove from favourites' button for message 'Bye'.

Step6. User C clicks the 'my favourites' again.

Step7. Only one message 'Hi' provided.

3.VALIDATION

COMMENT FOR USECASE-1:

I think it basically achieves what I want and it's enough for some common situations for teamwork. For the future improvement, I think it would be more convenient if I can choose to send notifications to a specific member but not always send notifications to all team members (Qitong Jiang).

COMMENT FOR USECASE- 2:

Yes, it can basically meet the group's requirements for initiating a vote. For later improvement, I think it is possible to set a time limit for voting. It may be that the group members' schedules are different due to different regions, and timely voting for statistics will be inaccurate. Therefore, voting within a limited time can be a target for improvement (QIbai Chen).

COMMENT FOR USERCASE-3:

I think it satisfies the basic demand for collecting messages I need. However, I am not sure whether it just gives me the exact messages without any details or not. It will be better to include details like sending time and senders (Yuqing Li).

4.INTERFACE DESIGN

Table 1: Interface design for notification

Function Name	HTTP method	Parameters	Return type	Exceptions	Description
message/notification	POST	(token channel_id message)	{ is_success }	**AccessError** when none of the following are true: ● Token is not valid ● Message with message_id was sent by the authorised user making this request ● The authorised user is an owner of this channel or the flockr	Given a message_id for a message, This message is sent to all channel members in that channel via email. function is called frontend by right click the message and clicking the "send notification" The function returns True if the notification sent successfully

Table 2: Interface design for creating and vote in a poll

Function Name	HTTP method	Parameters	Return type	Exceptions	Description
poll/created	POST	(token channel_id options)	{ poll_id, option_ids }	**InputError** when any of: ● Channel ID is not a valid channel ● Option out of range ● u_id does not refer to a valid user ● options is not between 1 and 50 characters inclusively in length **AccessError** when ● Token is not valid ● Authorised user is not a member of channel with channel_id ● The authorised user is not an owner	Create a new poll in the channel

poll/vote	POST	(token
		
		poll_id
		
		option_id
		
		)
			{
			
			POLL_DATA
			
			}
				InputError when any of:
				
				● pull_id is not valid
				
				● option_id is not valid
				
				AccessError when
				
				● Token is not valid
				
				● Authorised user is not a member of channel with channel_id
					For a given poll,
					
					add a vote to the poll with the given option
					
					The function returns the POLL_DATA
					
					which include the number of votes and user's u_ids for each option

Table 3: Interface Design for message favourites

Function name	HTTP method	Parameters	Return type	Exceptions	Description
message/favourites /add	POST	(token, message_id)	{}	**InputError** when any of: • message_id is not a valid message within a channel that the authorised user has joined • message with message_id has already been added in the list of 'favourites' **AccessError** when • Token is not valid	Given a message within a channel the authorised user is part of, add this message to the 'my favourites'
message/favourites /remove	DELETE	{token, message_id)	{}	**InputError** when any of: • message_id is not a valid message within a channel that the authorised user has joined • message with message_id is not in the 'my favourites; **AccessError** when • Token is not valid	Remove the message with message_id that added before in the 'my favourites'
message/favourites /list	GET	(token)	{ messages }	**AccessError** when • Token is not valid	Provide a list of all messages added to 'my favourites' by the authorised user

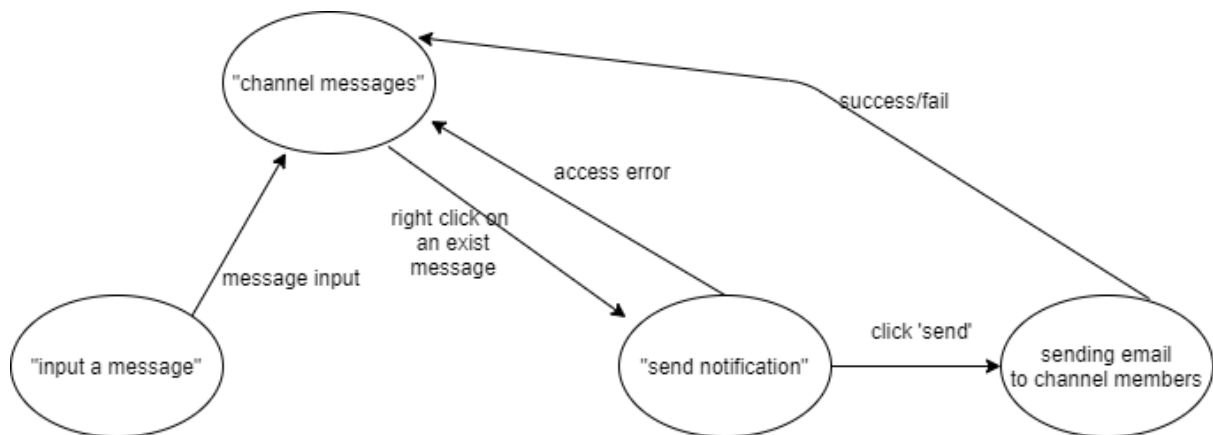# 5.CONCEPTUAL MODELLING (STATE)

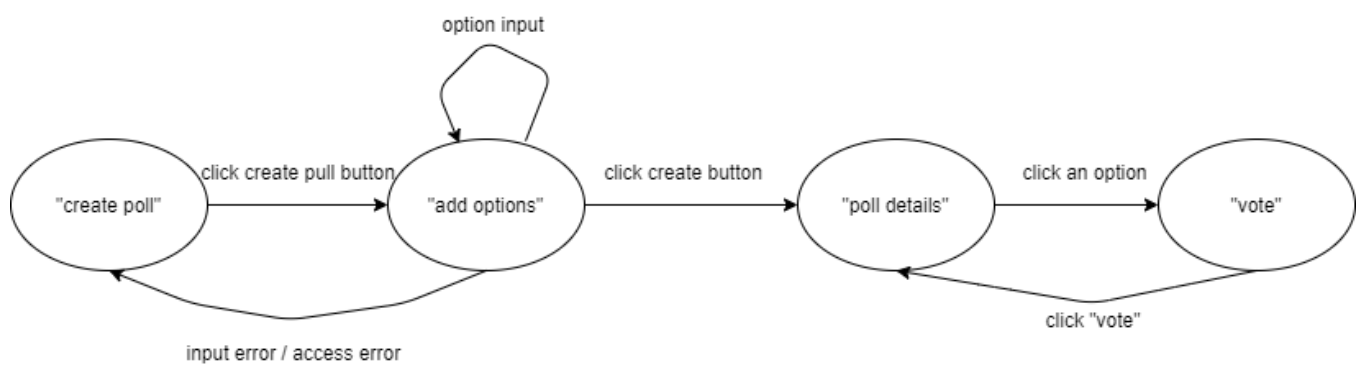*Figure1: State diagram for sending notification*

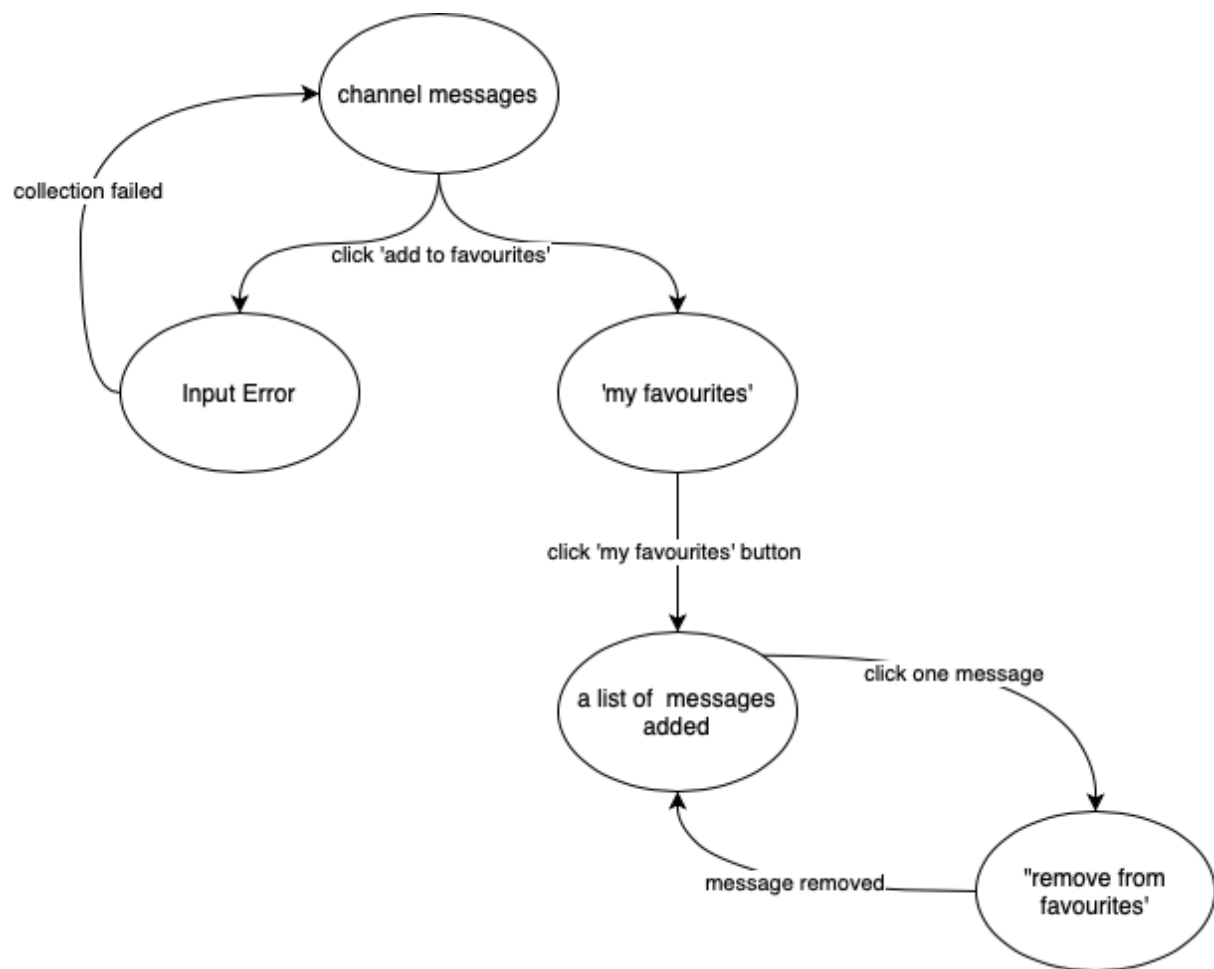*Figure 2: State diagram for creating a poll and sending a vote*

Figure 3: State diagram for the message favourites