

Comp1531 Report

Elicitation Questions:

1. What features do you think should be implemented?
2. How would you use this feature?
3. Why would you use this feature?
4. Is this feature user friendly? (easy to use)
5. Does this feature fulfil your needs? Does it need to do more or is it doing a lot?
6. What features should be improved on? Example, able to make sub channels, more reactions, audio messages etc.
7. What would you use flockr for?
8. Do you find flockr user friendly?
9. Do you think this application can be used in a professional environment? If yes, why? If not, why not?

[Requirements] Elicitation

Interview #1

Name: Dennis Sy

Email: dennissy76@yahoo.com

What features do you think should be implemented?

- Private chat with user DM(Direct Message)
- Add attachment
- Emoji for messages
- Able to send GIF
- Notification - for messages and channels
- Audio message

Is flockr user friendly? (easy to use)

User feels that flockr is clunky.

Which features should be improved on?

- Search doesn't show where the message come from. Better if it showed the channel it came from.

- Invite member should not immediately add the person. Should allow the other user to accept. Should show user if the person has accepted or the invite is pending.
- Messages deleted should say that it was deleted. Should say who deleted it.
- Messages edited should say who edited it.
- Should ask are you sure when removing owner.
- Organise the users in alphabetical order when inviting user.
- Message sendlater should show the user their message and if it has been sent or not.
- Leaders should be listed at the top and members should be at the bottom. Members of the channel should be shown in alphabetical order.
- No channel should have the same name. Can get confusing.
- Search should return all messages that have the same keyword of all users in a channel as long as the user is a member of the channel.
- Standup should have a topic title. Standup can be initiated by leader only.
- Admin option should be viewed by global owners only.
- Should allow to reset password in user profile. Enter old password then new password. Password should be shown encrypted.
- Should not be allowed to change email.
- When clicking on channel, should open in a new tab.
- Permissions: For every feature, the owner should be allowed to set the permission for each user. E.g this person can be allowed to do standup while others cannot.

Interview #2:

Name: Steven Crypt

Email: cryptonight99@gmail.com

What features do you think should be implemented?

- Sort the channels into most recently accessed/reorder channels based on most used
- Turn on/off notifications
- Tag people for notifications
- Add files
- Real time collaboration (drawing/code/text)

How/why would you use these features?

- Sort channels used for convenience - lets user access used channels with more ease
- People often like to turn off/on notifications, particularly with group conversations that have frequent messages and/or important messages and updates.
- Tagging other users is useful for alerting them of when a message is for them (in particular).
- File sharing is essential in team projects - being able to do this in the group messaging software is a winning feature for ease of use.

Which features should be improved on?

- As above, could sort channels
- Messages could be formatted more nicely - change background colour of msgs sent by yourself

Do you think this application can be used in a professional environment? If yes, why? If not, why not?

- It has the potential to be but needs a bit of work:
- Positives: has the basic necessities, messages, channels, reacts, login/logout, accessibility etc.
- Negatives: requires more features used in professional environment such as code sharing, collaboration, group calls, check list etc.

Do you find flockr user friendly?

- Yes, it has a nice simple interface, and clear navigation. A couple unclear menu headings which could probably easily be fixed.

[Requirements] Analysis & Specification - Use Cases

User stories:

- As a student, I want to communicate with my friends by using a flockr with more advanced messaging functions.
 - Private chat with user DM(Direct Message)
 - Add attachment
 - Emoji for messages
 - Able to send edited GIF
 - Audio message

- As an employee in an advertising company, I want to be able to share my processed photos to colleagues and clients for collaboration in a channel.
 - Flockr has an authorization process for users to send requests for uploading a photo.
 - Allow uploading large size photos.
 - Show photos with good resolution.
 - Flock performs an optimization process for photos.
 - Receiver can react to sent photos.

- As a software developer, I want to be able to organise the channels I'm in so the groups most important to me are visible at all times.
 - [easily access all the different teams' channels (organise channels)]
 - The channels list is placed on the left sidebar
 - The channels are ordered, from most used at the top to least used at the bottom.
 - Users can drag channels up or down the list.
 - Users can pin channels in place, and unpin them.
 - No channel should have the same name.

- As the team leader I want to be able to distinguish between my messages and my team members' messages to reduce clutter in messages, easily identifying messages about different team roles and tasks.
 - Message text boxes have light grey fill with small text margins
 - Messages sent by other users have a right border greater than left border (within the messages UI)
 - Messages sent by user have darker fill.
 - Messages sent by user have a left border greater than right border to differentiate between own messages and other users

- The name of the user sending the message is a different (dull) colour to all other users in the channel.
- Message sendlater should show the user their message and if it has been sent or not.
- As the UX designer, I want to be able to share work and files with my colleagues to collaborate with ease and develop a well-integrated high quality user experience.
 - On the left side of the text box to enter messages is a small grey file icon
 - The file icon can be clicked on to open a file explorer screen for their local system.
 - Once a valid file is selected and the user has selected the 'upload' button, the file icon appears in the message text box.
 - The user may use backspace to delete the file, send the file, or upload another file and append the icon to the previous icon in the message box.
- As the backend designer, I want to be able to turn on and off notifications so I can focus on my work in peace.
 - Channel name in channel list has a vertically orientated grey 3-dot icon
 - When pressed, one of the options is to turn on/off notifications.
 - When this option is selected, the user no longer receives notifications from this channel.
 - There is another grey bell icon at the top of the channels list which can turn on/off notifications for all channels.
- As the team leader I want to be able to make sure my team members get the messages I send them so they don't miss important updates/info.
 - If the user types @ into the search bar, a list of names appears of the other users in the channel
 - As the user begins typing letters, the names list reduces to the people whose names contain the given search query (that the user is typing)
 - If the user selects a name and sends the message, the selected user will receive an email with the message and a link to the message in the chat.
 - If the user types an invalid name, the message is sent as normal.
 - The Channel should show messages that are unread by the user.
 - User should receive notifications when message is sent

Use Case: Private chat with user DM(Direct Message)

Goal in Context: Users send direct messages in private chat.

Scope: Web page, authorization system

Level: Primary Task

Preconditions: User have a direct message to be sent in private chat.

Success End Condition: The user sends a message in which can be seen by just User 2

Failed End Condition: the user send a direct message but can be seen by anyone in channel

Primary Actor: User

Trigger: User 1 requests to send a direct message to User 2

MAIN SUCCESS SCENARIO

1. User 1 choose the one in the channel to sent direct message with
2. System authorises user to upload.
3. Uploading the direct message to your server.
4. Validating the direct message.
5. Storing the direct message.
6. Displaying the direct message in the front-end for User 2.

Use Case: Add attachment

Goal in Context: Users add attachment to the message sent.

Scope:web page, authorization system

Level: Senior Task

Preconditions: User has an attachment to be sent.

Success End Condition: Attachment is sent to the channel.

Failed End Condition: Attachment is not sent to the channel.

Primary Actor: User

Trigger: File needs to be sent.

MAIN SUCCESS SCENARIO

1. User 1 requests to upload the attachment to the flockr app.
2. System authorises user to upload.
3. Uploading the attachment to your server.
4. Validating the attachment data.
5. Pack the file needed to a formation that can be attached and for use in other tasks.
6. Storing the attachments.
7. Displaying the attachment in the front-end for User 2.

Use Case:Emoji for messages

Goal in Context: Get emoji for the message which would be sent.

Scope: Web page, authorization system

Level: Primary Task

Preconditions: Has the message and the Emoji for the messages.

Success End Condition: A message with emoji is sent.

Failed End Condition: The message is sent without Emoji.

Primary Actor: User

Trigger:Emoji being sent to make the message not monotonous.

MAIN SUCCESS SCENARIO

1. User 1 requests to upload an Emoji to the flockr app.
2. System authorises user to upload.
3. Uploading the image to your server in a scalable way.
4. Validating the image data.
5. Processing the image, performing cropping, optimization and other tasks.
6. Creating image variants, such as banners and thumbnail.
7. Storing the images.
8. Displaying the image in the front-end for User 2.

Use Case: Sending GIFS

Goal in Context: Able to send GIF

Scope:Web page, authorization system

Level: Senior Task

Preconditions: User has a GIF to be sent in the channel.

Success End Condition: the GIF is sent to the channel.

Failed End Condition: No GIF being sent to the channel.

Primary Actor: User

Trigger: GIF to be sent in the channel

MAIN SUCCESS SCENARIO

1. User 1 requests to upload a GIF to the flockr app.

2. System authorises user to upload.
3. Uploading the GIF to your server in a scalable way.
4. Validating the GIF data.
5. Processing the GIF, performing cropping, optimization, and other tasks.
6. Creating GIF variants.
7. Storing the GIF.
8. Displaying the GIF in the front-end for User 2.

Use Case: Uploading an Image

1. There are two users in a channel.
2. One user sends a dank meme, and the other user, being the Gen-Z, poorly socialised kid he is, wants to only send an emoji react to respond to the emoji.
3. User 1 requests to upload a Dank Meme to the flockr app
4. System authorises user to upload
5. Uploading the image to your server in a scalable way
6. Validating the image data
7. Processing the image, performing cropping, optimization, and other tasks
8. Creating image variants, such as banners and thumbnail
9. Storing the images
10. Displaying the image in the front-end for User 2
11. User 2 requests to laugh react the Dank Meme
12. System authorises user to laugh react the dank meme
13. Upload the laugh react to the server
14. processing the laugh react image
15. Displaying the laugh react in the front-end
16. User 1 feels validated of his taste in memes, and gains self-worth.

[Requirements] Validation

Question: After reviewing the new interface design where we've listed improvements, what are your opinions?

Dennis Sy: "These new features are exactly what I've been looking for. Completely exceeded my expectations."

Steven Crypt: "These new features are awesome, I would love to see them first-hand on the Flockr front-end for a play around. Do let me know when you can get these out!"

[Design] Interface Design

Function Name	HTTP Method	Parameters	Return Type	Exceptions	Description/Improvements
channel_details	GET	(token, channel_id, u_id)	{ name, owner_members, all_members }	InputError when Channel ID is not a valid channel AccessError when Authorised user is not a member of channel with channel_id	Returns a sorted list of members by their status as either owner or members, and then alphabetically Front-end displays two lists separately, channel owners, and channel members
channels_list	GET	(token)	{ channels }	N/A	Add a favourite section that the user can pick so that backend can sort the list with favourites at the top. Order the list of channels by most recently accessed and most often used. The ability to personalise how the lists are displayed on the front-end, and saving this list as the "preferred list" in the back-end
message_edit	PUT	(token, message_id, message)	{u_id}	AccessError when none of the following are true:	Return the user who edited the message so frontend can process and display who edited it.

				<ul style="list-style-type: none"> • 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 	
message_remove	DELETE	(token, message_id)	{u_id}	<p>InputError when Message (based on ID) no longer exists</p> <p>AccessError when none of the following are true:</p> <p>Message with message_id was sent by the authorised user making this request</p> <p>The authorised user is an owner of this channel or the flockr</p>	Return the user who removed the message so frontend can process and display who removed it.
channel_message	GET	(token, channel_id,	{ messages, start, end }	InputError when any of:	Return the user who sent the message. Frontend then adds a

s		start)		<ul style="list-style-type: none"> Channel ID is not a valid channel start is greater than the total number of messages in the channel <p>AccessError when</p> <ul style="list-style-type: none"> Authorised user is not a member of channel with channel_id 	<p>colour fill if the token is equal to the person who sent the message.</p> <p>Add a tagging feature, such that:</p> <ul style="list-style-type: none"> When the user types @ in the message bar, a vertical list of names of channel members (excluding current user) is produced As the user begins to type, the list of names reduce to those that match the current search query If a user is tagged in the message, the tagged user will receive an email containing the message and a link to the message in the chat <p>Add notifications feature, such that for channels:</p> <ul style="list-style-type: none"> Channel names in the channel list have a vertically orientated 3-dot icon When pressed, an option is to turn on/off notifications for that channel <p>For all channels:</p> <ul style="list-style-type: none"> A grey bell icon at the top of the channels list can turn on/off notifications for all channels <p>Set up the front-end such that notifications pop up for:</p>
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					<ul style="list-style-type: none"> - New messages in groups where the feature is turned on - Messages where the current user is tagged <p>File sharing, being able to share files in the group messaging software will be a winning feature for the ease of use.</p>
Search	GET	(token, query_str)	{ messages, channel_id }	N/A	Return channel_id to allow the frontend to show which channel the message is located.
photo_send	POST	(token,x_start,y_start,x_end,y_end,background_color,special_effect)	{}	<p>InputError when any of:</p> <ul style="list-style-type: none"> • img_url returns an HTTP status other than 200. • any of x_start, y_start, x_end, y_end not within dimensions of the image at the URL. • image uploaded not a JPG • Background_color or not in color bank • Special_effect not in effect 	Given a URL of an image on the internet, crops the image within bounds (x_start, y_start) and (x_end, y_end). Background_color and special_effect are added to the image.

				bank	
emoji_send	POST	(token,message,emoji)	{emoji_id}	<p>InputError when any of:</p> <ul style="list-style-type: none"> • Emoji_id not in Emoji bank <p>AccessError when: the authorised user has not sent the message that they are trying to add Emoji to</p>	Add an Emoji specified by Emoji_id to a message from authorised_user

