Elicitation

Questions:

1. When you are using tools like microsoft teams, what is one problem you always have due to the insufficient features the app has?
2. Who are the target users that usually have this problem?
3. What specific objectives do you wish to achieve for this problem?

Interviewees:

1. Name: Jason Zhang
   Email: 2257951043z@gmail.com
   Answers:
   - This app does not have a feature that allows us to view the similarities we share with other users.
   - Users who want to work together with others privately.
   - I can view the top five people who share the most channels with me.
2. Name: Rocky Lin
   Email: ROCKY_LZQ2110@163.com
   Answers:
   - The app can't change the channel's name. It confuses me a lot when I have a lot of channels with the same name.
   - The person who has joined a lot of channels.
   - Channel owners can change the channel name.
3. Name: Catherine Wang
   Email: 1533623489@qq.com
   Answers:
   - The app doesn't allow us to see a person's state like travelling, reading, saving the world, doing nothing, or having fun…
   - Teenagers who want to have some fun when using the app.
   - Users can select their own state, and these states can be seen by other users.

Proposed solution:

We would write four new routes and implement them. The routes are /channels/listcommon/v1, /channel/changename/v1, /user/profile/setstate/v1 and user/profile/getstate/v1.

Consolidation

User stories:

As a person who likes working with others, I want to view the top five people who share the most channels with me, so that I can work privately with others who share similarities with each other.

As a person who has joined a lot of channels, I wish the channel's name can be changed by the channel owner so that It doesn't confuse me when I have a lot of channels with the same name.

As a teenager, I wish users can select their own state, and these states can be seen by other users so that users can have more fun when using it.

Use cases:

1.
   - The app asks the user to login with his/her email and password.
   - The user enters the email and the password.
   - The user selects the option 'Profile'.
   - The user selects an option 'View users sharing the same channels with me'.
   - The app displays the top five users' profiles who share the most channels with the user in descending order.
2.
   - The app asks the user to login with his/her email and password.
   - The user enters the email and the password.
   - The user selects the option 'My Channels'.
   - The user selects a channel which is owned by the user.
   - The user selects the option 'Change Name'.
   - The app asks the user to enter a string as the new name.
   - The user enters the new name.
   - The app displays the name of the channel as the new name.
3.
   - The app asks the user to login with his/her email and password.
   - The user enters the email and the password.
   - The user selects the option 'Profile'.
   - The app displays the user's profiles with a key 'State', which has a default value of empty string.
   - The user can change the value of the 'State' by entering a string.
   - The user selects another user's profile.
   - The app displays the state of the other user by the value of the key 'State'.

Validation

Interface Design

Name & Description	HTTP method	Data Type	Exception
/channels/listcommon/v1 Description: Provide a list of at most 5 users that the authorised user shared the most channels with in descending order.	GET	**Parameters:** {token} **Return Type:** {users}	N/A
/channel/changename/v1 Description: Update the authorized channel's name. Only the channel's owners can change the channel's name.	POST	**Parameters:** {token, channel_id, name } **Return Type:** {}	**InputError** when: - length of name is less than 1 or more than 20 characters - channel_id does not refer to a valid channel **AccessError** when: - channel_id is valid and the authorised user is not

			an owner member of the channel
/user/profile/setstate/v1 Description: Add the given state to a person's profile.	POST	**Parameters:** {token, state} **Return Type:** {}	**InputError** when: ● length of state is less than 1 or more than 20 characters
/user/profile/getstate/v1 Description: For a given user, return whether the user has a state, and what state does the user have. If the user has not set a state, then state returns None.	GET	**Parameters:** {token} **Return Type:** {is_state, state}	N/A

Conceptual modelling