# Planning

**Elicitation**

Questions for the target users
1. What problems or difficulties are you having while using Memes?
2. What is your least favourite feature?
3. Do you see yourself using this website?
4. Do you see yourself recommending this website to other people?

User 1
Name: Mourya
Email: davemourya@gmail.com

Answers:
1. Message React only has one working react.
2. Message React is my least favourite feature as only one react is available.
3. Yes, I would.
4. Yes, I do see myself recommending this website to other people.

User 2
Name: Leon
Email: leon.shakya968@gmail.com

Answers:
1. Upon registration I mistyped my password. This then required me to reset my password.
2. The register screen does not have a "confirm password" field.
3. I do, but security concerns me.
4. I will recommend this website, but again, the security of the website concerns me.

User 3
Name: Hamza
Email: hschelsea01@gmail.com

Answers:
1. I have difficulty messaging people as the interface is difficult to understand.

2. Overly complicated for new people.
3. I do, after you get over the initial learning curve.
4. Yes, as it is an effective way to communicate.

Solution to User 1
- Update messages react by including more than one react. Other reactions that could be included are a laughing, crying and thumbs down emoji.

Solution to User 2
- Make the website more secure, by making the register screen include a "confirm password" screen, so that the user does not make an accidental typo while creating their password.

Solution to User 3
- Could include a small tutorial on how to use the website. This could include a small video, or an overlay highlighting each of the buttons, with a text attachment on the website for new users such that they understand what everything does.

**Use Cases**

User Story 1
- As a High School student I would like to register to the UNSW Memes website so that I can react to and share my hilarious memes with a large community of people. This would include being able to log into and out of my account so that people will know that it was me who sent them that meme.

    Acceptance Criteria
    - User is able to register an account
    - User is able to login to account through email and password
    - User is able to log out of their account
    - User is able to react to messages
    - User is able to share messages

User Story 2
- As a University student, who runs a society, I would like to create a private channel, such that only people on the society board are able to send messages in the channel. This means that I would also like to have some security.

    Acceptance Criteria
    - User is able to create a channel that is private
    - They are able to invite certain users to the channel
    - Only certain users are allowed to join the channel
    - Passwords are hashed
    - Passwords can be changed if the User can prove that the account they are changing is theirs.

User Story 3
- As an accountant , I would like to create a group with my colleagues so that we can discuss our work and organise meetups with each other.

    Acceptance Criteria
    - User is able to create a dm with the members they want to include
    - User is able to leave and remove the dm
    - User is able to send messages in the dm

Use case solution for User Story 1

Steps:

1. Input first name, last name, email and password and click register to make an account
2. Join, be invited or create a channel or dm
3. Navigate to desired channel or dm through the list on the left side of the interface
4. Type a message or send a meme in the given input box
5. Click send to show other users that it was you who sent it
6. React to messages by clicking the like button
7. Share messages by clicking on the right arrow and choosing a channel to send it to with an additional, optionally message
8. Log out by clicking the button on the top right of the screen, once user is finished
9. Log in again using email and password when user would like to send more memes

**Validation**

Comments from User 1
- User 1 was very satisfied with them being able to express more emotions through emojis, saying that responding becomes more personal and shows what they think of the memes they are interacting with.

Comments from User 2
- User 2 was very appreciative of the idea to have a "confirm password" line in the register spot. They were excited to know that we are taking approaches in patching up some of the security issues of the website.

Comments from User 3
- .User 3 loves the idea of including a tutorial on how to use the website. They said it will go a long way in terms of ease of access, especially for older people who are not as tech savvy.

**Interface Design**

| Name and Description | HTTP Method | Data Types | Exceptions |
|---|---|---|---|
| message/reactLaugh/v1<br><br>Given a message within a channel or DM the authorised user is part of, adds a "laughing emoji" to that particular message. | POST | Body Parameters: { messageId, reactId }<br><br>Return type if no error:{} | 400 Error when any of:<br><br>messageId is not a valid message within a channel or DM that the authorised user is part of reactId is not a valid react ID - currently, the only valid react ID the frontend has is 1<br><br>the message already contains a react with ID reactId from the authorised user |
| message/reactCry/v1<br><br>Given a message within a channel or DM the authorised user is part of, adds a "crying emoji" to that particular message. | POST | Body Parameters: { messageId, reactId }<br><br>Return type if no error:{} | 400 Error when any of:<br><br>messageId is not a valid message within a channel or DM that the authorised user is part of reactId is not a valid react ID - currently, the only valid react ID the frontend has is 1<br><br>the message already contains a react with ID reactId |

| | | | from the authorised user |
|---|---|---|---|
| message/reactDislike/v1<br><br>Given a message within a channel or DM the authorised user is part of, adds a "thumbs down emoji" to that particular message. | POST | Body Parameters: { messageId, reactId }<br><br>Return type if no error:{} | 400 Error when any of:<br><br>messageId is not a valid message within a channel or DM that the authorised user is part of reactId is not a valid react ID - currently, the only valid react ID the frontend has is 1<br><br>the message already contains a react with ID reactId from the authorised user |
| message/unreactLaugh/v1<br><br>Given a message within a channel or DM the authorised user is part of, removes a "laughing emoji" to that particular message. | POST | Body Parameters: { messageId, reactId }<br><br>Return type if no error:{} | 400 Error when any of:<br><br>messageId is not a valid message within a channel or DM that the authorised user is part of reactId is not a valid react ID - currently, the only valid react ID the frontend has is 1<br><br>the message already contains a react with ID reactId from the authorised |

| | | | user |
|---|---|---|---|
| message/unreactCry/v1<br><br>Given a message within a channel or DM the authorised user is part of, removes a "crying emoji" to that particular message. | POST | Body Parameters: { messageId, reactId }<br><br>Return type if no error:{} | 400 Error when any of:<br><br>messageId is not a valid message within a channel or DM that the authorised user is part of reactId is not a valid react ID - currently, the only valid react ID the frontend has is 1<br><br>the message already contains a react with ID reactId from the authorised user |
| message/unreactDislike/ v1<br><br>Given a message within a channel or DM the authorised user is part of, removes a "thumbs down emoji" to that particular message. | POST | Body Parameters: { messageId, reactId }<br><br>Return type if no error:{} | 400 Error when any of:<br><br>messageId is not a valid message within a channel or DM that the authorised user is part of reactId is not a valid react ID - currently, the only valid react ID the frontend has is 1<br><br>the message already contains a react with ID reactId from the authorised user |

|  |  |  |  |
|---|---|---|---|
|  |  |  |  |

| Variable name | Type |
|---|---|
| has suffix Id | number |

# State Diagrams

State diagram for message/reactLaugh/v1