



# Microsoft Treats Requirements and Design

**PREPARED FOR**

COMP1531

**PREPARED BY**

W14B\_BOOST

# 1. Elicitation

We interviewed two fellow COMP1531 students as potential users of Microsoft Treats.

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## 1. Which method of communication allows you to best communicate with others (text, voice etc.)?

Jack Liu	I think that different methods of communication are suited for different scenarios. I prefer to text if I just want to send short messages like reminders. However, a group meeting would definitely benefit from a voice or even video call, it's more natural and interactive.
Edrick Koda	I feel voice chat? Like if I'm gaming with my friends or doing groupwork definitely voice chat. But text chat is enough for most day to day stuff.

## 2. What messenger apps do you currently use the most and why?

Jack Liu	I'd say Whatsapp or Instagram. They're widely used, so if I meet someone new they're likely to have an account too. It depends on the social circles too. Most of my family are on Whatsapp while I talk with friends on Instagram.
Edrick Koda	Discord. It's great to meet a lot of new people and personally more interactive than other apps as well.

### 3. What are some of your favorite and least favourite features in these apps?

#### Favourites

Jack Liu	Not too sure. Most messenger apps are quite similar in my opinion. Probably the interface? It's very simple to understand and well laid out. Even my grandpa can figure out Whatsapp.
Edrick Koda	It offers so much more than other basic messenger apps. You can have multiple group chats and calls going on in a server for different topics and streams. You can upload and send custom emojis, animated ones too. But actually my real favourite feature is that you can have a custom status, like whether you're online or don't want to be disturbed.

#### Least Favourites

Jack Liu	I hate the fact that in WhatsApp at least, others can always see if you're online or not. Sometimes I want to scroll through my messages without the chance of someone starting a conversation with me.
Edrick Koda	Sometimes the voice chat just decides to die on itself. Like, I'll be able to hear others but they won't be able to hear me. Or Discord will just randomly kick you out of the call and give out a 'Route Error' or something when you try to join back in.

### 4. Online toxicity is sadly becoming increasingly common, when faced with such acts online, in what ways do you usually handle them?

Jack Liu	It's easy to just cut them off by blocking them, or kicking them out of the groupchat. I can't be bothered with toxic people honestly.
Edrick Koda	You could always just block the other user so they can't contact you again, or you could report them to the discord officials but that's personally way too much effort for me.

## 2. Analysis & Specification - Use Cases

### User Stories

**AS A USER, I WANT TO BE ABLE TO COMMUNICATE THROUGH NOT JUST TEXT, BUT VOICE AS WELL SO THAT I CAN BETTER EXPRESS MY THOUGHTS AND IDEAS TO OTHERS.**

- Add a phone icon on the top right of the chats or dm's just below the main treats navbar
- Call starts once pressed, phone icon turns green and blinking to notify a call is active for users not already in the call
- For users in the call, the phone icon will turn red and blinking which when pressed, will allow users to leave
- Other users in the chat will be sent a notification of an ongoing call and can join themselves
- A dropdown list icon will appear beside the phone icon which when pressed, displays the users currently in the call

**AS A USER, I WANT TO BE ABLE TO BLOCK OTHER USERS WHO DON'T HAVE THE RIGHT CONDUCT SO THAT THEY ARE UNABLE TO CONTACT ME AGAIN.**

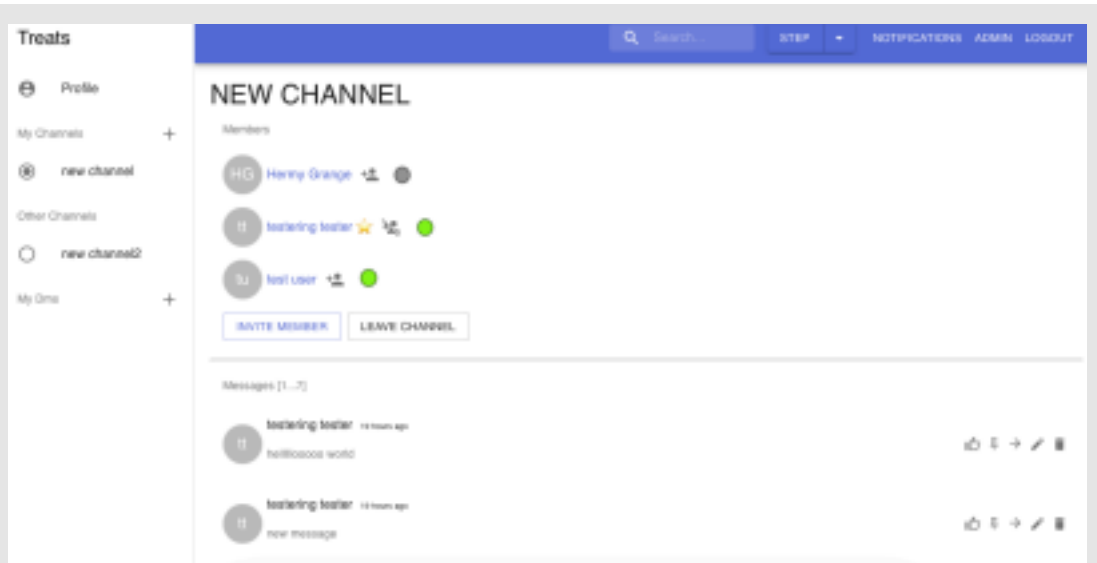
- - When viewing another user's profile, a button will be placed at the very bottom labelled 'Block'
- When pressed, the user blocking will be removed from the list of other Treats users the other user can view, thus he can no longer add the user blocking to a DM anymore.
- The button is switched to an unblock button in case the user changes his mind and wishes to undo the action

**AS A USER, I WANT TO NOTIFY OTHER USERS OF MY CURRENT STATUS SO THAT OTHERS WILL KNOW IF I AM CURRENTLY AVAILABLE OR NOT.**

- In chats, besides the usernames, each user will have a circle which will represent that user's current status.
- The status can be as follows:
  - Red circle for do not disturb
  - Green circle for online
  - Grey circle for offline
- The status will be automatically set as Grey if offline, but the user can customise their personal status when online (their status only and not others) which is set to Green by default and will not change unless manually changed.
- The user can go to their own profiles where there will be a set status dropdown list added and the user can pick which of either 3 statuses they want displayed when they are online

## Use Case

User registers  
(test user in  
this case) -  
status set to  
online with a green  
dot



User sets  
status to Do  
Not Disturb using  
dropdown



User's status  
appears as Do  
Not Disturb with  
a red dot



### 3. Validation

Comments from the target users.	
Jack Liu	Fantastic. I'd probably just hide my status as offline even if I'm not because that would really let me ignore others without them knowing but exactly what I was looking for.
Edrick Koda	Looks suspiciously like a certain platform I know, but definitely useful and a feature I use myself a lot.

### 4. Interface Design

Routes to edit	To do
<ul style="list-style-type: none"><li>- auth/register/v3</li><li>- user/profile/v3</li><li>- users/all/v2</li></ul>	<p>Update user object to include a "status" property (for the return of the user/profile and users/all routes)</p> <p>For auth/register, generate a status for the new user which is set to the default value "online"</p>

Routes to add	To do
<ul style="list-style-type: none"><li>- User/profile/setstatus/v1 (POST)</li><li>- Body parameters: {     status: "Online", "DND" or "Offline"     (one of these 3 values only ) }</li><li>- Token passed in as header</li><li>- Returns {} if no error</li><li>- Returns 400 error if status is not one of 3 values above</li><li>- Return 403 error if user is not authorized</li></ul>	<p>Update the authorized user's status with the status given.</p>

## 5. Conceptual Modelling - State Diagrams

