

# Habit Tracker App

## Application Proposal and Specification:

My proposed app is a habit tracker. The purpose of this is to allow users to easily see a list of habits they want to keep and hopefully stay motivated to keep them. These habits can be measurable things such as how much water you have drunk, or something which is true or false such as having brushed your teeth.

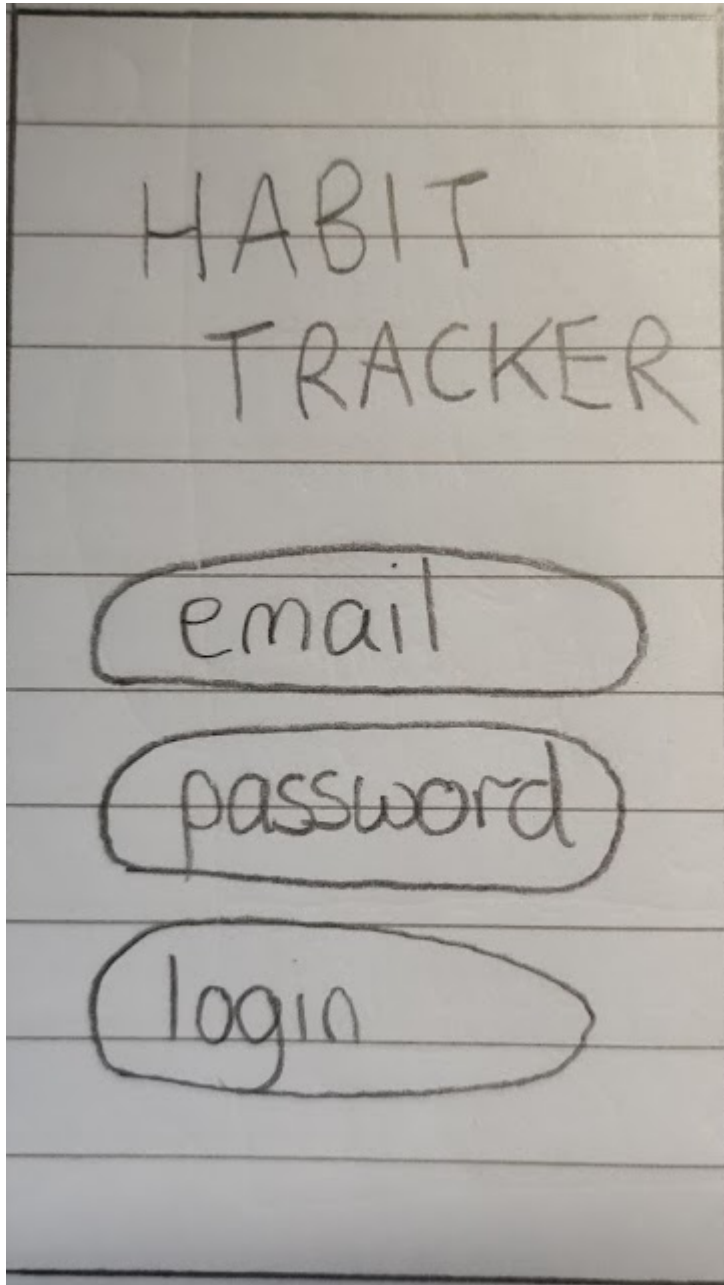
If a habit is measurable, the user will be able to see a graph of that habit against the past month. This could help a user to see if they could improve upon their habit, i.e. by drinking more water. Alternatively, if a habit is something which you either do or you don't, the user will be able to see a calendar displaying what days you managed to do the habit. This should motivate the user to keep up a streak. Furthermore, for both types of habit you should be able to see other statistics relevant to that habit.

When a user first creates an account there will be a couple of default habits set up. In addition, the user will be able to create extra habits and delete both the default habits or habits that they have created. Once a habit has been created there will also be the opportunity to edit details about the habit such as changing the name of the habit, or setting up notifications to remind you to do the habit.

There will also be a social element to the app, where user's will be able to search for other users and view their habits, if the user has selected them to be public. In addition, users will be able to follow others, so they can easily locate their friends' profiles. Additionally, users will be able to set a username and profile picture linked to their accounts so others can more easily locate them.

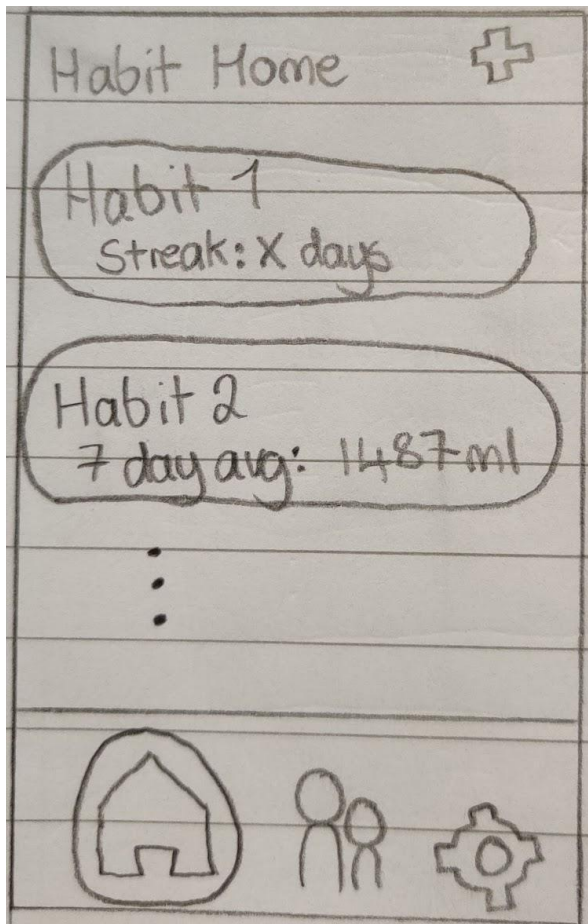
## Mock Screens:

Login page:



- Here is the login page for when a user first loads the app.
- It will display the name of the app (when decided upon) or just the words 'habit tracker'.
- They are able to enter their email/username and their password in order to log in.
- This allows them to access their data from online on firebase.
- If they've logged in before and don't have internet access, some functionality may still be available through some locally stored data.

Home page:



- Here is where you go after logging in.
- You will see a list of your habits, by clicking on one, you'll go to the view a habit page.
- In the top right is a plus symbol, by pressing this you'll go to the create a habit page.
- At the bottom is the navbar, the house button takes you to the home page, the two people take you to your social page, and the cog takes you to the settings page.
- This navbar has the same function on each page, it will always take you to the same pages listed above.

View a habit page:

The sketch shows a habit tracking interface. At the top, there is a header 'Habit Name' with a left-pointing arrow and a pencil icon to its right. Below this is a calendar for 'March 2022'. The days of the week are abbreviated as M, T, W, T, F, S, S. The dates are arranged in a grid. Days 1 through 6 are circled, indicating the habit was completed. Day 7 is in a square box, indicating it is the current day. Days 8 through 31 are not circled, indicating the habit was not completed. Below the calendar, there is a section for 'Today:' with a checked checkbox, 'Current Streak: 4', and 'Best Streak: 9'. At the bottom, there are three icons: a house (home), two people (profile), and a gear (settings).

- Here is what you will see after clicking on a habit from the home page.
- You will see either a calendar, like above, or a graph (if the habit is measurable). The calendar has a circle around a day if the user did their habit, or no circle if they did not. A square shows what day it is right now.
- By using the arrows next to the date above the graph/calendar, the user will be able to view this data for each month.
- There is a checkbox, like above, or a place for input (if the habit is measurable) for the user to input their habit each day.
- Then it will show data about streaks, like above, or show 7 day, 30 day and 365 day average (if the habit is measurable).
- In the top right there is a back arrow, which will return you to the home page, or the pencil icon, which will take you to the edit a habit page.

Create a habit page:

Create Habit ←

Name

Colour

Measurable? ☐

Unit(plural)

Notification? ☐

XX:XX

Public? ☐

Create

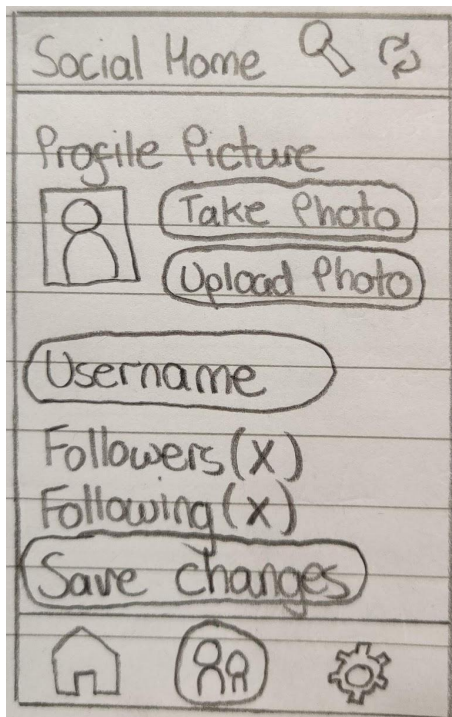
- This is the create a habit page.
- Here the user will be able to set the name of a new habit and give it a colour.
- They can define whether it is measurable or not, if so they will be able to give its a unit, e.g. if the habit is measured in minutes, then the unit will be labelled minutes.
- They can choose whether they want a notification each day, if so they can set the time that they want it.
- Finally they can decide whether the habit is public or not. If it is public, other users will be able to see this user's habit.
- Once they are done they can tap create and the habit will now be added to the list on the home page, which is where the user will be directed.
- The arrow in the top right will take them

## Edit a habit page:

Hand-drawn sketch of an 'Edit Habit' page. The page has a title 'Edit Habit Name' with a back arrow. Below are input fields for 'Name' and 'Colour', a 'Notification?' toggle with a checkbox and 'XX:XX' time input, and a 'Public?' toggle with a checkbox. A 'Confirm Changes' button is at the bottom. A navigation bar at the very bottom contains icons for a home, user, and settings.

- On the edit a habit page, the user can rename the habit, or change the colour.
- They can also turn on/off notifications and change the time of it.
- Finally, they can toggle between making the habit public or not.
- By tapping confirm changes any changes will be updated and the user will be redirected to the view a habit page of the habit they were editing.
- The arrow in the top right will take the user back to the view a habit page of the habit they were editing. A confirmation box will pop up asking if the user wants to save or discard any changes.

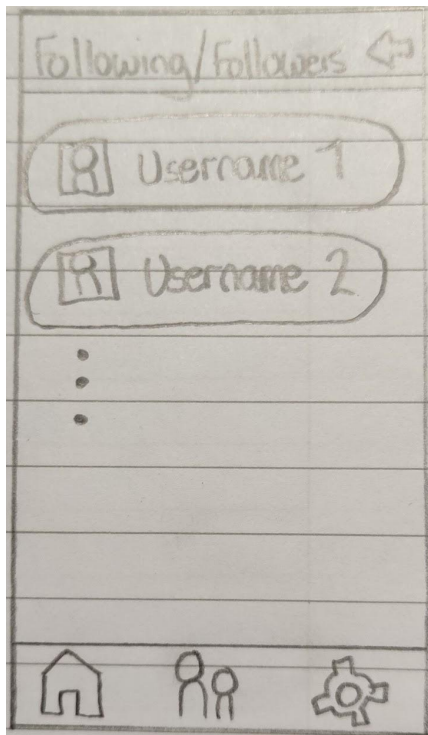
## Your social page:



- Here is the social home page where the user will see details about their profile.
- They will be able to view their profile picture or add/change it by selecting a profile from their camera roll, or by taking a photo.
- They can also view and edit their username.
- By tapping save changes these changes will be enacted.
- To access the social section of the app, an internet connection will be required.
- The user can also see their amount of followers and people they are following. By tapping on this it will take them to the following/followers page.
- The magnifying glass icon in the top right will allow the user to search for other people's profiles.
- The two arrows in a circle will allow you to sync with your contacts if you allow the permissions to see contacts pop-up. If any contacts have an email matching a habit tracker account, their accounts will be listed for you to view.



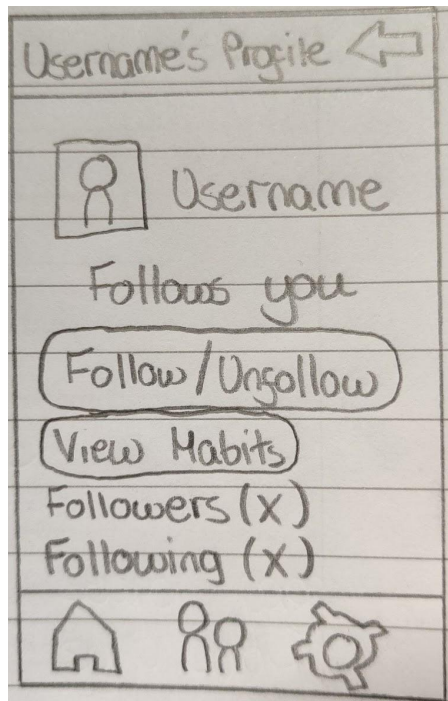
Following/followers page:



- This is the following/followers page.
- This will display all those accounts that either you are following or are following you.
- By tapping the arrow in the top right, you will return to the social page.
- By tapping on an account, it will take you to someone else's profile page.



Someone else's profile page:



- Here is someone else's profile page
- You will be able to view the user's username, profile picture, and if they follow you or not.
- There will be a button for you to press to either follow or unfollow the user.
- You will also be able to see the user's number of followers and following.
- There will also be a button to view their habits which will list their habits that they have set to public. It will look visually the same as the home page, but just without the ability to add a new habit. By tapping on one of these habits, it will take you to the view someone else's habit page.
- By clicking the arrow in the top right, it will take you to the previous page.

View someone else's habit page:

The sketch shows a habit tracking interface. At the top, there is a label 'Habit Name' followed by a left-pointing arrow and a pencil icon. Below this is a calendar for March 2022. The days of the week are abbreviated as M, T, W, T, F, S, S. The dates are arranged in a grid: 1-6 in the first row, 7-13 in the second, 14-20 in the third, 21-27 in the fourth, and 28-31 in the fifth. The date 7 is highlighted with a square box. Below the calendar, the text 'Today:' is followed by a checked box. Underneath, it says 'Current Streak: 4' and 'Best Streak: 9'. At the bottom, there are three icons: a house, two people, and a gear.

M	T	W	T	F	S	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Today: ☒

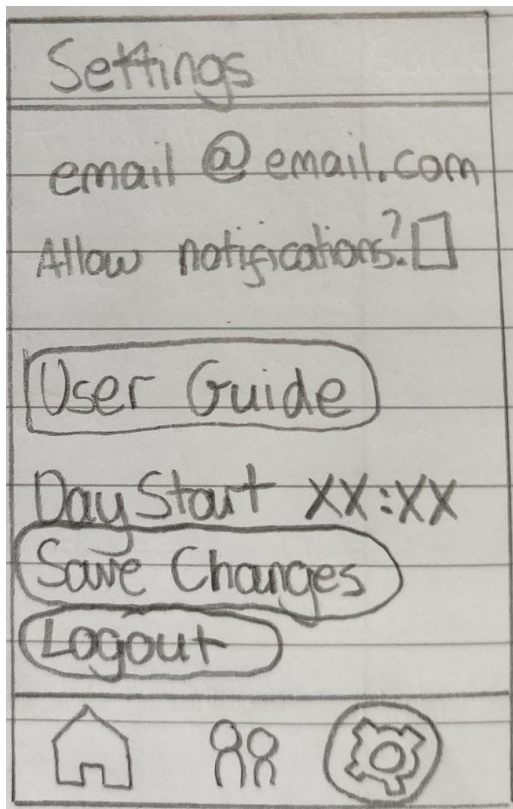
Current Streak: 4

Best Streak: 9

Home | Profile | Settings

- This is the view someone else's habit page.
- It is visually the same as the view a habit page, but the pencil icon in the top right won't be displayed, and the user won't be able to input if the person has done the habit or not.
- Tapping the arrow in the top right will take you back to that person's profile page.

## Settings page:



- Here is the settings page.
- The user will be able to see the email address of the account they are logged in with.
- They will be able to toggle a master switch that allows all notifications or none.
- There will be a button they can press which will take them to the user guide which will use a WebView.
- There will be a day start setting which the user will use to choose any time in the 24 hour clock. What this does is determine what time the day starts, i.e. from what time a new day of habit tracking starts and they can input their new data.
- Tapping save changes will save any changes.
- Tapping logout will return the user to the login page.