## **INTI International College Penang**

**School of Computing** 

- 3+0 Bachelor of Science (Hons) in Computer Science, in collaboration with Coventry University, UK
- 3+0 Bachelor of Science (Hons) in Computing, in collaboration with Coventry University, UK

#### **Coursework cover sheet**

# Section A - To be completed by the student

Group Members	Full Name	CU St	tudent ID Numbers
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Semester: April 2024	1		
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Module Code and Tit	tle:		
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6002CEM– Mobile A <sub>l</sub>	op Development		
Assignment No. / Tit	le: Coursework	% of Module M	lark
		75%	
CW2 – Project			
Hand out date:		Due date:	
12-Apr-2024 (Friday	of Week 2)	24-June-2024	4 (Monday of Week

Penalties: No late work will be accepted. If you are unable to submit coursework on time due to extenuating circumstances you may be eligible for an extension. Please consult the lecturer.

on plagiarism and cheating and Faculty cours	read and agree to abide by the University regulations sework policies and procedures. I/we confirm that this nt to appropriate storage of our work for plagiarism
Signature(s): <u>yijia</u>	TEH
(AIL IY NAT)	(TEH GER MIN)

# Marking Rubric

Your report will be marked against the following criteria:

our report witt t	r marked against the	Tottowing critoria.		,	
	0-9	10-14	15-17	18-20	Marks Given
<b>Application</b>	App with one screen	App with more than one	App with more than two	App with more than three	
complexity –	and one feature.	screen and more than one	screens with more than	screens with more than three	
		feature.	two features.	features.	
Coverage &					
Functionalities					
	Basic complexity (basic	Basic-medium complexity	Medium complexity	High complexity (good usage	
(20%)	usage of elementary UI	(basic- medium usage of UI	(medium-good usage of UI	of UI interface elements).	
	interface).	interface elements).	interface elements).		
	,	,	,		
	0-2	3-4	5-7	8-10	
Application	No cloud/local data	Local or cloud persistence	Local or cloud persistence	Local or cloud persistence	
complexity –	persistence or other	services and no	services and with /	services with authorization.	
-	cloud services (e.g.	authentication.	without authorization.		
Proper methods	authentication –				
for persistence	authorization services/				
of data	other external APIs).				
OR	OR	OR	AND	AND	
integration with	Attempt to use	Use of at least one external	Use of <b>one</b> external APIs	Use of <b>more than one</b>	
API	persistence method or	APIs or sensor.	or sensor.	external API or sensors	
	API but has errors and			intensively.	
(10%)	is not working.				
	0-1	2-3	4	5	
Application of	No use of any MVVM or	Might be using some type of	Demonstrate some level	Demonstrate good MVVM	
MVVM design	other design concept.	separation of concern which	of use of MVVM design	design concept.	
concept		is not MVVM.	without error.		
(5%)					
	0-9	10-14	15-17	18-20	
Application UI	Poor UI design. The	GUI design is acceptable, but	GUI design is acceptable,	GUI design is user-friendly,	
Design	work looks more like a	much improvement is	but some areas need	easy to understand and has	
	draft and unfinished	needed on the choice of	improvement such as	suitable choice of colour	
(20%)	work.	colour palette and / or the	choice of colour palette or	palettes. The design is	
		ease of use. Need major	ease of use. The overall	appropriate for its purpose.	
		modifications to make it	design might need minor		
		suitable for its purpose.	modifications to make it		
			suitable for its purpose.		

	0-2	3-4	5-7	8-10	
Report -	Failed to include all	Include some of the required	Include all required	Include all required	
Contents	required sections.	sections but organization	sections and somehow	sections.	
	Information presented	required improvement.	organized.		
(10%)	is irrelevant to the			All information/ explanation/	
	report.	Some	Some of information/	discussion are very clear,	
		information/explanation/	explanation/ discussion	comprehensive and no	
		discussion are unclear or	required minor	improvement needed.	
		lack of clarity	clarification.		
		Simple use case diagram	Acceptable use case	Comprehensive use case	
		with basic notations used,	diagram and all notations	diagram and all notations	
		however, with many	are clear and used	are clear and used correctly	
		mistake/errors.	correctly with minor	with zero mistake/error.	
		motako/errere.	mistake/errors.	With 2010 Thiotako, 61101.	
	0-2	3-4	5-7	8-10	
Report - Format	Missing cover and table	Missing cover or table of	Complete with cover and	Complete with cover and	
	of contents.	contents.	table of contents.	tables of contents.	
(10%)					
	Mindingonal at the				
	Missing most of the	Missing labels or headers for	Missing some labels and /	All figures are properly	
	labels and captions for figures and tables.	some sections.	Missing some labels and / or captions for figures and	All figures are properly labelled and captioned.	
	ligures and tables.	Some sections.	tables.	tabetted and captioned.	
			tables.		
	Missing screenshots of	Very few screenshots of the	Adequate screenshots of	Very comprehensive	
	the program output.	program output.	the program output.	screenshots of the program	
				output.	
	0-2	3-4	5-7	8-10	
Submission –	Many required files are	Most of the essential files are	All required files are	All required files are	
Completeness	missing.	submitted on time and some	submitted on time, but	submitted on time and in	
and punctuality	OD	files might not be in the	some files are not in the	correct format as instructed.	
(100/)	OR	format as instructed. Some	format requested.		
(10%)	Submission doloyed in	missing files such as README.			
	Submission delayed in more than 1 hour but	neaulile.			
	less than 24 hours.	OR			
	1033 triair 24 flours.				
		Submission delayed in less			
		than an hour.			

	0-2	3-4	5-7	8-10	
VIVA	The presentation was	The presentation was	The presentation was	The presentation was	
Presentation	not smooth, or the	acceptable, but many	acceptable, with some	smooth and clear. The	
- Clarity,	student was speaking	improvements are needed	room for improvement.	student spoke with	
Relevance and	with a very unclear	for the student, such as		confidence and clarity. The	
Confidence	voice. Presentation was	relevance of contents, clarity		explanation was straight to	
	messy, much	of voice, confidence, and		the point and no-frills.	
(10%)	unnecessary	smoothness.			
	elaborations.				
	0-1	2-3	4	5	
VIVA	The student was not	The student was able to	The student was able to	The student was able to	
Presentation	able to answer most of	answer some of the	answer most of the	answer all the questions	
- Q & A	the questions and	questions and showed slight	questions with confidence	with confidence and showed	
	showed very little	confusion in his/her own	and showed good	outstanding knowledge in	
(5%)	knowledge in his/her	area of work.	knowledge in his/her own	his/her own area of work.	
	own area of work.		area of work.		

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# 1.0 Introduction

In today's fast-paced world, individuals often struggle to maintain emotional balance and well-being due to overwhelming responsibilities and continuous stimuli from social media and work (Waris Qidwai, 2016). This can lead to stress, anxiety, and emotional exhaustion, worsened by a lack of tools and support for managing emotions. "Habitual Heart" is developed to address these challenges by promoting emotional awareness and cultivating positive habit formation by recognising the impact of habits on daily life and emotional health (José Antonio Ruiz-Hernández, 2022).

"Habitual Heart" is a mobile app designed to help users cultivate beneficial habits and improve emotional well-being. The application provides features like habit tracking, emotional reflection, and meditation tools. The functions enabled users to set and monitor goals effectively. The app aims to empower individuals to make lasting positive changes, enhance productivity, and achieve overall life fulfilment. "Habitual Heart" supports users in overcoming the challenges of habit development and achieving sustainable improvements through tools like habit goal setting.

# 2.0 Use Case Diagrams

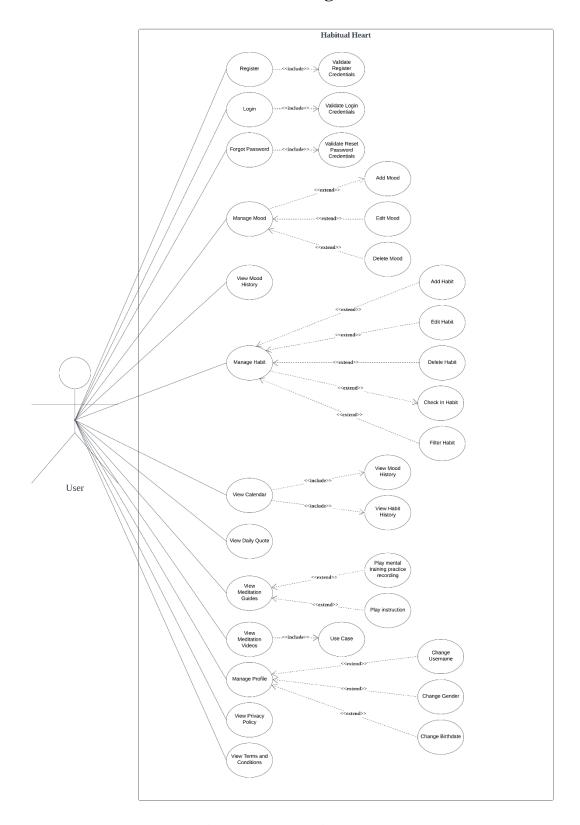


Figure 1 Use Case Diagram

The use case diagram for the "Habitual Heart" application outlines the various functionalities available to users. The primary actor as the user who interacts with the system

to manage moods, habits, and other related activities. The main use cases include registering, logging in, and resetting passwords, each with a validation process to ensure correct and valid user information. Besides that, users can manage their moods and habits by adding, editing, deleting, and viewing mood and habits history. The application also allows users to view a calendar that displaying the mood and habit histories. Moreover, users can access daily inspirational quotes, meditation guides, and meditation videos, with functionalities to play the practice recordings and instructions. Lastly, users can manage the user profiles by changing the username, gender, and birthdate, and view the application's privacy policy and terms and conditions.

## 3.0 Modules and Screenshots

## 1. Sign In Module, Forgot Password Module - Tan Yi Jia

When the app is first launched, the login page is showed as shown in Figure 2. Log in consists of only 2 inputs, email and password. If the email and password are empty, or email and password are invalid, an error message will pop out as shown in Figure 3. Figure 4 shoes if user have registered the account but not yet verify the email account, a message will show to ask user to verify the email account, then only can sign in.

If the user clicked on the "Sign Up" button, they will be directed to the Sign Up Module - **Tan Yi Jia**.

If the user clicked on the "Forgot Password?" button, a reset password email will send to the user's email that filled in in the email text field. If the text field is empty, or the email does not exist, an error message will show as shown in Figure 8.

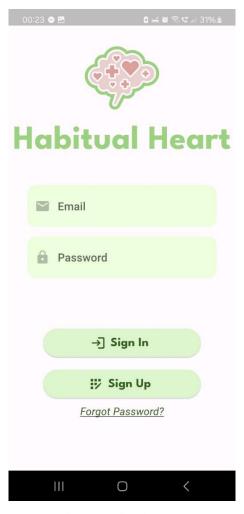


Figure 2 Sign in Page

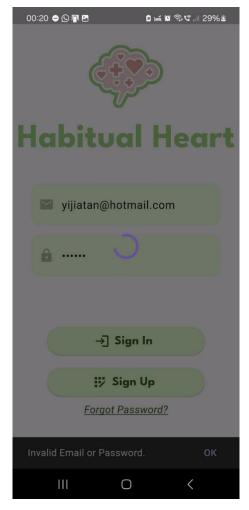


Figure 3 Message shown when not all fields are filled or invalid email or invalid password

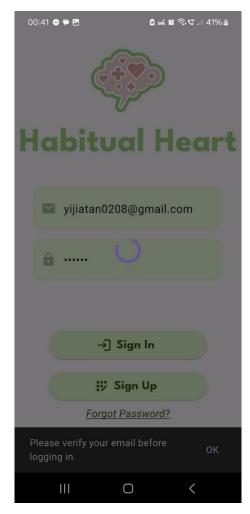


Figure 4 Message shown when email is not verified

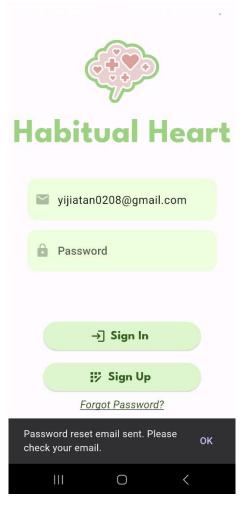


Figure 5 Reset Password

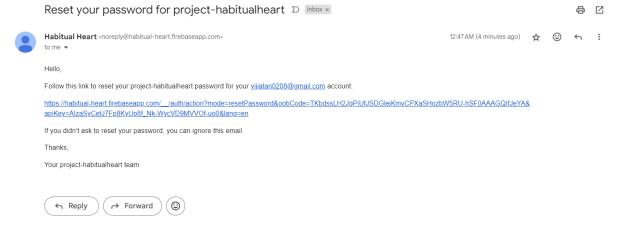


Figure 6 Reset Password Email

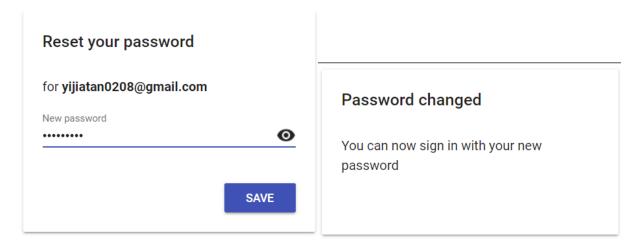


Figure 7 Changed Password

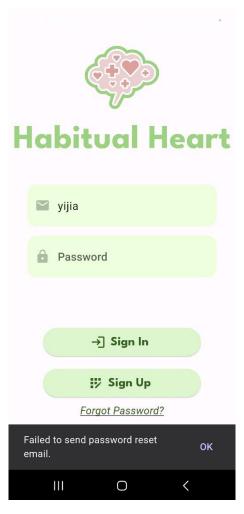


Figure 8 Failed to Send Reset Password Email

## 2. Sign Up Module - Tan Yi Jia

This module allows users to create an account by filling in their username, email, password, and confirm password fields (Figure 9). Each field must be completed for validation to proceed, and additionally, the password and confirm password fields must match (Figure 10).

If validation is successful, users are then redirected to the Sign In module with a confirmation message shows upon successful registration (Figure 11). Thus, a confirmation email is sent to verify the email address, ensuring it is valid (Figure 12).

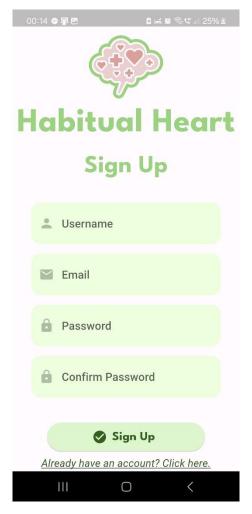


Figure 9 Sign Up Module

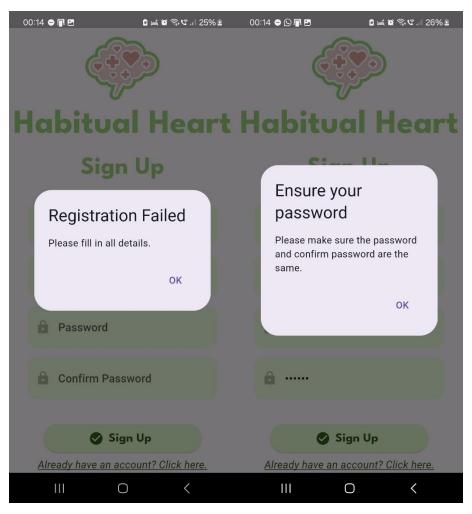


Figure 10 Error messages for the validation for account registration



Figure 11 Account Created Message

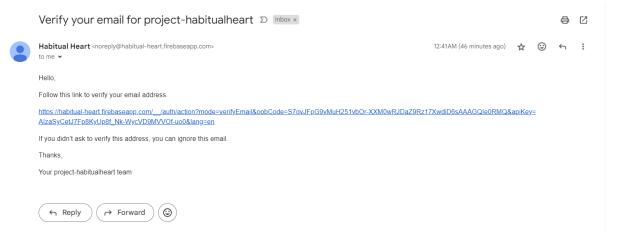


Figure 12 Confirmation Email to verify email existences

## 3. Home Page Module – Tan Yi Jia, Teh Ger Min

After signed in to the app, users are greeted with the current date and a display of their mood for the day, represented by an icon. If no mood has been recorded for today, users can select the icon and log their current mood in the Mood Creation Module – Tan Yi Jia. Below the mood section, the Habits List showcases a personalized list of habits, each indicating their current status and streaks, as illustrated Habit Module – Teh Ger Min.



Figure 13 Home Page

#### 4. Mood Creation Module - Tan Yi Jia

The mood creation module is to let users log their current mood and add descriptive details. Users can select their mood from predefined options (Excellent, Good, Neutral, Bad, Terrible), each associated with an icon. The user can pick the date and time for the mood entry using a date-time picker (Figure 15). They can also add a description to provide more context about their mood (Figure 14).

Upon saving, the mood data (including the selected mood, timestamp, and description) is stored in the Firestore database. The home page then displays the current day's mood with its corresponding icon and provides navigation to detailed mood entries as shown in Figure 16. In the mood details page, it displays the details of a specific mood entry, including the mood type, description, and timestamp, and provides options to edit or delete the entry.

When the user clicked edit button, it will proceed to a new page that allows users to update their mood records by selecting a new mood, modifying the description, and adjusting the timestamp (Figure 17). If the user clicked delete button, a confirmation message will pop out to confirm user wants to delete the mood entry (Figure 18).

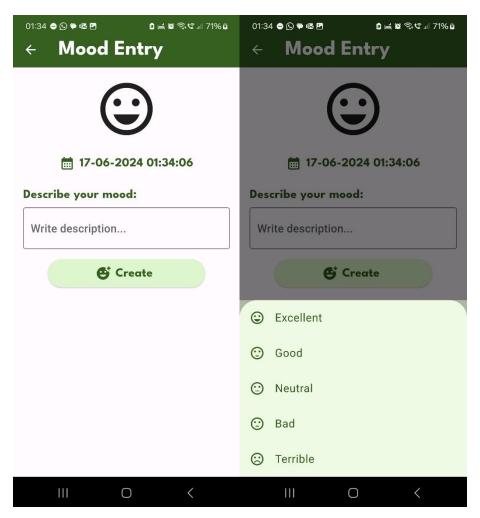


Figure 14 Mood Entry Creation

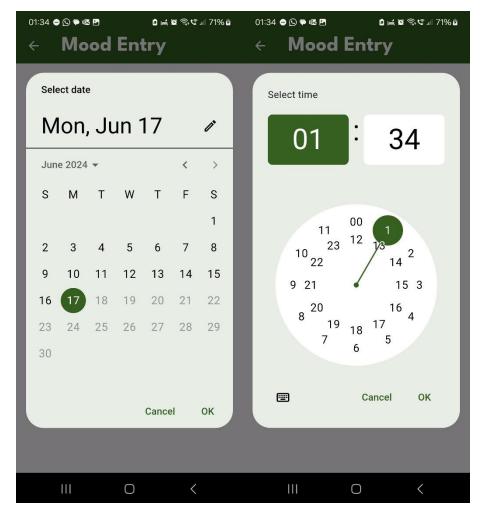


Figure 15 Mood's Date and Time Entry



Figure 16 Mood Details

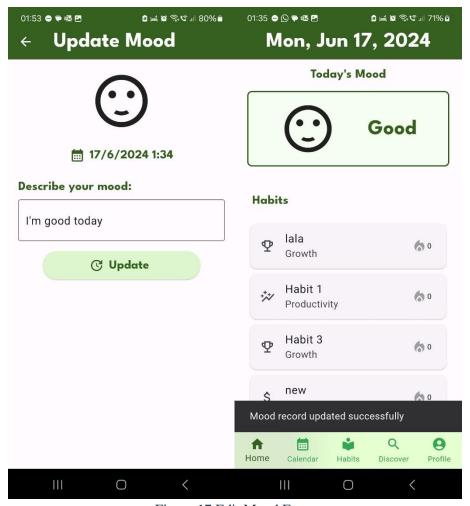


Figure 17 Edit Mood Entry

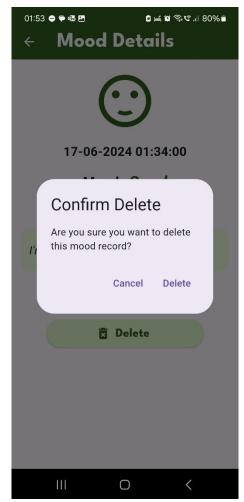


Figure 18 Delete Mood Entry

#### 5. Calendar Module – Teh Ger Min

The calendar page lets users quickly review users' mood entries (Figure 19). This page displays a calendar where each day is marked with the user's recorded mood, providing an overview of the emotional patterns over time. Additionally, users can select any specific date on the calendar to view a list of the associated habit check-ins for that day.

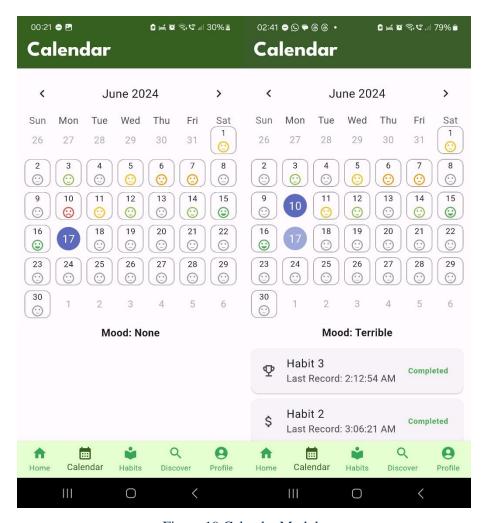


Figure 19 Calendar Module

#### 6. Habits Module – Teh Ger Min

In this habits page, users can see the list of habits users have created before. Each habit is displayed with the habit's name, category, status which is shown by a fire icon, and streak number. Users can filter the habits by category by clicking on the filter button at the top of the page, making user easier to manage and organize the habits. (Figure 20)

Users can slide a specific habit card to reveal options for editing or deleting the habit. This slidable feature provides quick access to these actions without navigating away from the main habits page, enhancing user experience and efficiency. (Figure 21)

After clicking on the Edit button, the system will navigate the user to the modify habit page. On this page, users can change the habit's name, description, category, or daily count. Once the user clicks on the Save changes button, the app will navigate back to the habits page, displaying the updated habit list with the newly modified habit details. (Figure 22)

After clicking on the Delete button, the system will display a confirmation dialog to ensure the user intended to delete the habit. This dialog also reminds the user that all associated habit records will be deleted. Upon confirming the deletion by clicking on the Delete button in the dialog, the system will remove the habit and all associated habit's records and refresh the habits page to reflect the changes. (Figure 23)

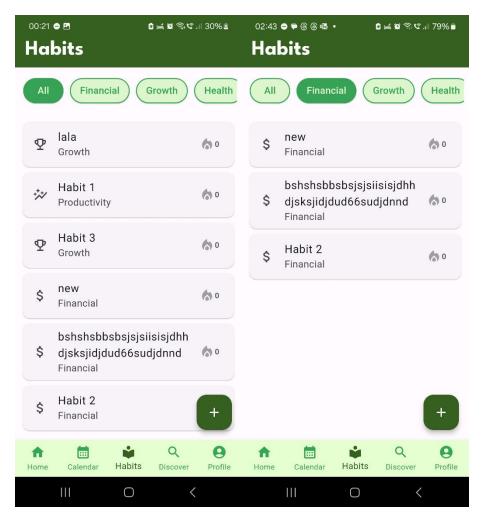


Figure 20 Habits Module

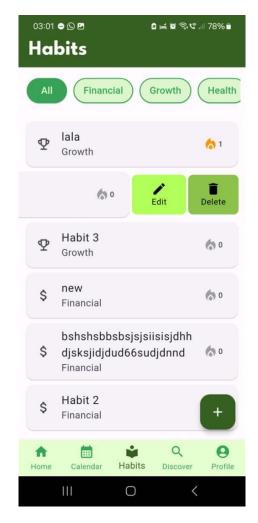


Figure 21 Slidable Habit Card

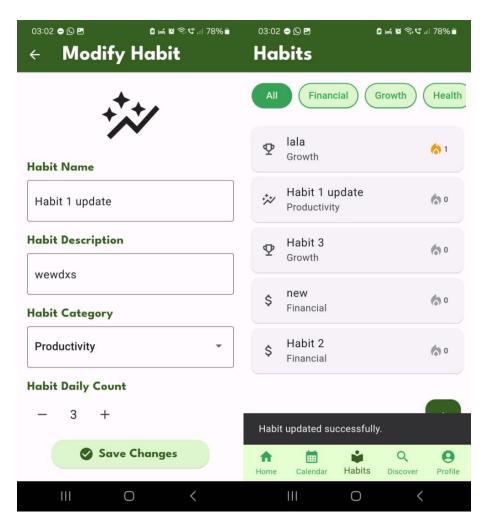


Figure 22 Edit Habit Entry

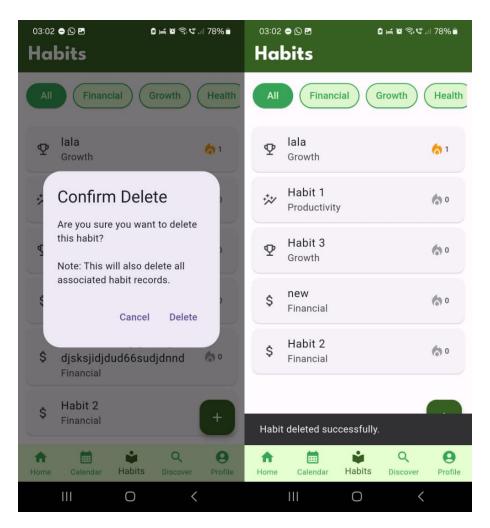


Figure 23 Delete Habit Entry

## 7. Habits Creation Module - Teh Ger Min

In the new habit page, users are required to fill in the habit's name, category, and daily count. The description field is optional, allowing users to provide additional details if user wish. Once all the necessary information is entered, users can click on the Submit button to add the new habit to the system. This enabling user to easily expand the habit list and begin tracking the habit progress.



Figure 24 Habit Entry Creation

#### 8. Habit Check in Module - Teh Ger Min

When users want to check in a specific habit, user need to click on the specific habit card. After clicking on the habit card, the app navigates users to the habit check-in page. On this page, users must click the submit button to check in one time for the habit, which saves one record for this habit. Users need to check in three times to complete this habit for the current day. Once the specific habit is completed for the current day, the habit's fire icon will light up, indicating the habit's completion status for the day. The number beside the fire icon represents the streak number, which will increase by 1 each time the specific habit is completed for the current day. This visual feedback helps users easily track users daily habit completion and streak progress.

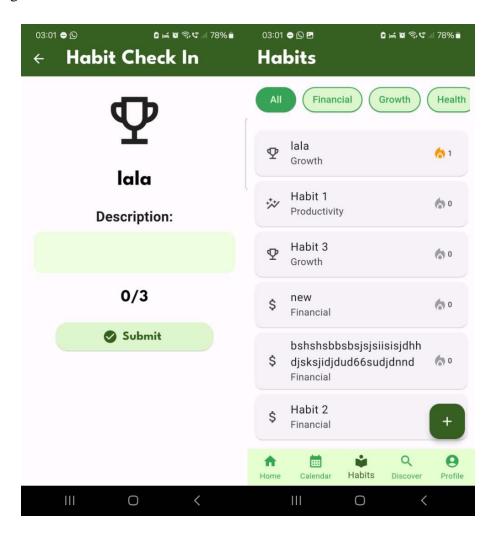


Figure 25 Habit Check in Entry

#### 9. Discover Module - Tan Yi Jia

The Discover module has three main sections. The first section displays a daily motivational quote retrieved from an API, featuring the quote and the author's name in a graceful design.

The second section is "Meditation Guides" which displaying various meditation tools in a grid layout. Users can tap to access detailed guides. The guides include the detailed instructions and audio guidance for deep breathing techniques (Figure 28), mindfulness meditation sessions with themed durations (Figure 27), and guided sleep meditation accompanied by soothing music (Figure 29).

The final section, "Meditation Videos," lists YouTube meditation videos, allowing users to launch and view them by tapping on the titles. Thus, the video's link opens either in the YouTube app or a web browser (Figure 30).

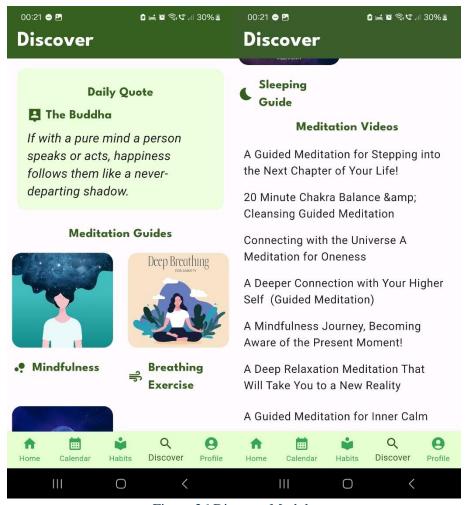


Figure 26 Discover Module

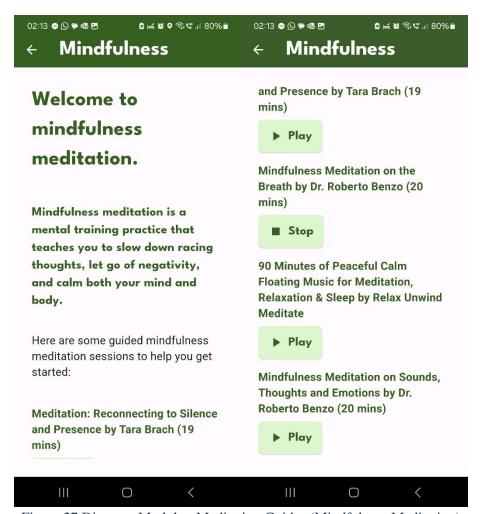


Figure 27 Discover Module - Meditation Guides (Mindfulness Meditation)

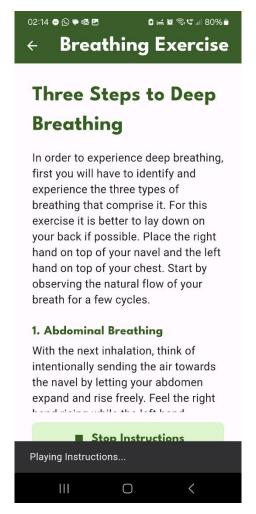


Figure 28 Discover Module - Meditation Guides (Breathing Exercise)

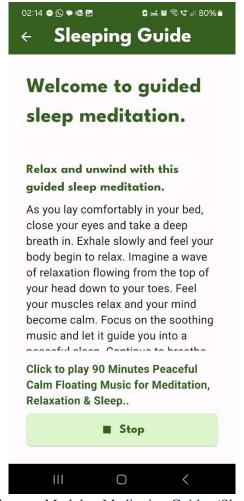


Figure 29 Discover Module - Meditation Guides (Sleeping Guide)

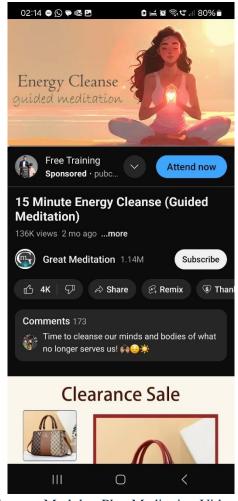


Figure 30 Discover Module - Play Meditation Videos in YouTube

## 10. User Profile Module - Tan Yi Jia

The User Profile module serves as a centralized hub for users to manage their account information and access various features related to their profile. The profile page displays the user's profile information: username. It fetches the user's data from the Firestore database and displays it prominently on the page. Besides that, users can edit their profile information by clicking the "Edit Profile" button. It will navigate the user to a dedicated page where they can modify their profile details, such as their username, or other personal information (Figure 32).

Next, users can enable or disable daily reminders for receiving the mood creation notification. User can also view the mood history through this module which allowing users to view and track their mood history or emotional well-being over time (Figure 33).

Next, this module includes sections for displaying legal information related to the application, such as the Privacy Policy and Terms and Conditions (Figure 34). Users can access these pages by tapping on the respective buttons or links. Finally, the module included a "Sign Out" button that allows users to securely sign out of the application, ending their current session with proceed back to the Sign In module.

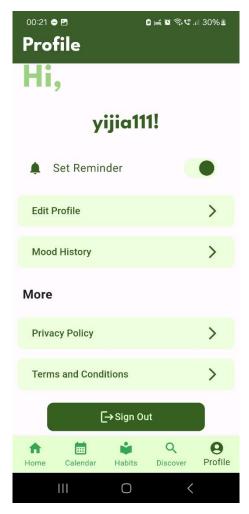


Figure 31 User Profile Module

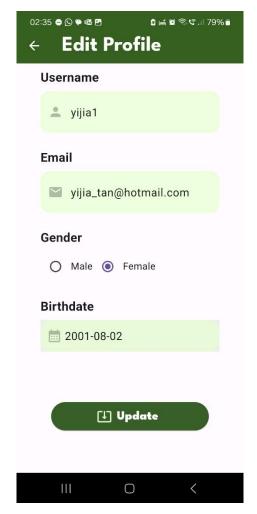


Figure 32 Update User Profile Information



Figure 33 Mood History

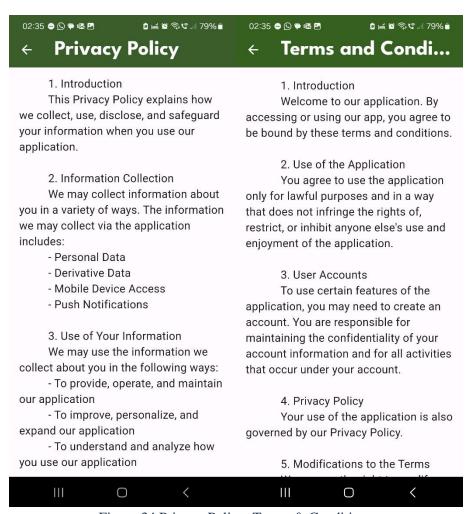


Figure 34 Privacy Policy, Terms & Conditions

# 4.0 Strengths of the App

Firstly, the application offers a comprehensive suite of features that support both mood and habit management, allowing users to track and improve their emotional well-being and productivity simultaneously. These features include essential functionalities such as adding, editing, and deleting moods and habits, as well as viewing histories for both. Users can precisely track their progress and make the necessary routine modifications through this kind of detail. Additionally, the app incorporates motivational elements like daily quotes and meditation guides, which provide users with ongoing support and encouragement. The ability to manage personal profiles and view important policies directly within the app adds to its convenience and user-friendliness.

# 5.0 Limitations of the App

Although the "Habitual Heart" application has many advantages, but also has several drawbacks. The lack of interaction with other wellness and productivity apps is a major disadvantage. This restriction may make the app less helpful ultimately for users who depend on this to handle different parts of daily lives across multiple apps. Furthermore, the app currently lacks strong analytics capabilities, which are essential for customers who want to do extensive statistical research on their data. Users may find it more difficult to understand their behaviour patterns and make wise selections if this is missing.

## **6.0 Future Enhancements**

Future improvements have been proposed to overcome those highlighted weaknesses and further improve the application. One key improvement is the introduction of detailed analytics. Providing users with advanced analytical tools is important for the app. This can offer deeper insights into the user's mood and habit data, which helps the user make more informed decisions. Besides that, expanding integrations with popular health and productivity apps is another crucial enhancement. This feature would allow users to seamlessly connect "Habitual Heart" with other tools they are currently using to create a more cohesive and comprehensive approach to personal well-being and productivity. Additionally, incorporating community features such as social sharing and progress tracking can foster a sense of community and provide users with additional motivation. Finally, adding gamification elements, such as rewards and challenges, can boost user engagement and make the process of habit and mood tracking more enjoyable. These enhancements aim to create a more robust, user-friendly, and engaging application that better meets the needs of its users.

# 7.0 Reflections from the Group Members

## 7.1 Tan Yi Jia

Throughout the development of the "Habitual Heart" application, I have gained invaluable experience and skills, particularly in areas where I previously had limited knowledge. One of the most significant learning experiences has been working with Flutter for the first time. Flutter is different from other UI frameworks I have used in the past. Flutter offers a unique approach to UI design by using a widget-based architecture, which allows for the creation of highly customizable and responsive interfaces. This was a departure from the traditional, component-based frameworks. The widget-centric design paradigm in Flutter promotes a more modular and reusable approach to UI components, which can enhance both development efficiency and code maintainability. Additionally, Flutter's "hot reload" feature significantly sped up the development process by allowing real-time updates without needing to restart the application, thus making the iterative design and testing cycle much more efficient.

Another area where I have seen considerable growth is in my understanding and utilization of Firebase. Before embarking on this project, my experience with backend services was mostly centered around traditional server setups and SQL databases. Firebase introduced me to a different way of handling backend operations, emphasizing real-time data synchronization, and seamless user authentication with Firebase's various features. For example, Firestore is used for database management, and Firebase Authentication is used for user management. This has increased my perspective on backend development. This transition from a more conventional backend setup to a cloud-centric, real-time approach has not only enhanced my technical skill set but also provided me with insights into building modern, scalable applications. In conclusion, the process of developing the "Habitual Heart" application has been hard but enjoyable. This has improved my knowledge of Firebase and Flutter and made me realize how important flexibility and ongoing education are to software developers.

### 7.2 Teh Ger Min

Working on the Habitual Heart project has been a transformative experience, enriching my development skills and broadening my technical horizons. This was my first time using the Flutter framework and Dart language, and I quickly realized the power and versatility they offer for front-end development. Flutter's ability to create beautiful, responsive interfaces with ease made the development process enjoyable and efficient.

I thoroughly enjoyed the development journey in this project. Creating a mobile app from scratch was both challenging and fun. I found immense satisfaction in seeing the app come to life, from designing the UI to implementing the functionality. The hands-on experience has been invaluable and has deepened my passion for mobile app development.

Through this project, I also learned about the Model-View-ViewModel (MVVM) architecture, which helped me understand the importance of a manageable and structured design. Implementing MVVM ensured that our codebase remained tidy and clear, making it easier to maintain and scale the app in the future.

Another significant learning experience was using Firebase, an online NoSQL database. This was my first exposure to a NoSQL database, and I was pleasantly surprised by its flexibility and ease of use. Firebase's support for real-time data synchronization and its scalable nature made it an excellent choice for our project, allowing us to store and manage data effortlessly.

Collaborating with my groupmate Yi Jia was a highlight of this project. We had a productive and enjoyable partnership, sharing ideas and solving problems together. This collaboration not only made the development process smoother but also enriched the overall experience, demonstrating the value of teamwork in software development.

I am also deeply thankful to our lecturer, Miss Karen. Her guidance and practical classes were instrumental in our success. She provided us with the knowledge and support needed to tackle the challenges we faced, and her encouragement kept us motivated throughout the project.

In conclusion, the Habitual Heart project has been a rewarding journey of learning and growth. It has equipped me with new skills, introduced me to powerful tools and frameworks, and highlighted the importance of collaboration and structured design. I look forward to

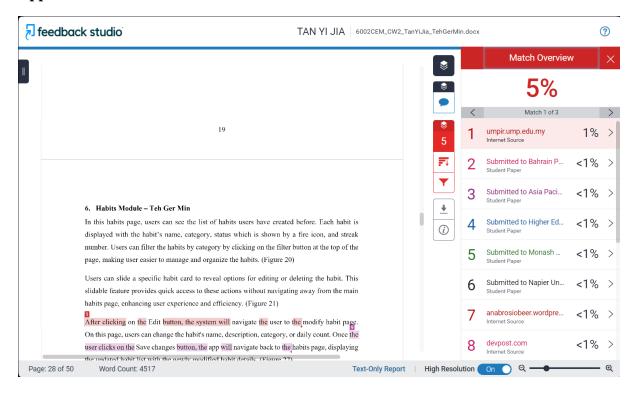
applying these lessons in future projects and continuing to explore the exciting world of mobile
app development.

# 8.0 Appendix

## Appendix A – GitHub

GitHub link: https://github.com/yjia28tan/HabitualHeart

## **Appendix B – Turnitin**



## 9.0 References

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## **Code References**

### Tan Yi Jia

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