HOUSEMATEHEAVEN: HOUSEMATE FINDER MOBILE APPLICATION FOR UNIVERSITY STUDENT

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HOUSEMATEHEAVEN: HOUSEMATE FINDER MOBILEAPPLICATION FOR UNIVERSITY STUDENT

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Report Submitted to Fulfil the Partial Requirements for the Bachelor ofInformation Technology (Hons) In Software Engineering University Kuala Lumpur

FEBRUARY 2023

DECLARATION

I declared this report is my original work and all references have been citedaccordingly as required by the University.

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DEDICATION

I would like to dedicate this Final Year Project report to everyone in the field of Software Engineering who want to start the project in developing mobile application in HousemateHeaven: Housemate Finder Mobile Application For University Student. Dedication also goes to my family members and supervisor, Ts. Dr. Husna Sarirah Husin. Last but not least, thank you to my friends and everyone that involved and contribute throughout completing this project in both directly and indirectly. Thank you so much for helping me to finish my final year project.

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LIST OF ABBREVIATION

University Kuala Lumpur	UNIKI
Malaysian Institute of Information Technology	MIIT
Word Breakdown System	WBS
Entity Relationship Diagram	ERD
Test Case	TC

ABSTRACT

The study is about to design a android-based mobile application. The mobile application will be called HousemateHeaven. HousemateHeaven mobile application main function is to help university student in finding housemate during their university years. The application will be beneficial to university student in finding housemate easily by using a user-friendly mobile application.

CHAPTER 1: INTRODUCTION

1.1 PROJECT INTRODUCTION

Housemate definition is a person who lives in the same

house with another (Housemate Definition & Meaning,

2022). Every year, there are always a complaint from

university student about how hard is it to find

housemate to rent a house around their university area.

That is why HousemateHeaven been developed.

HousemateHeaven is intended to be a mobile application

that will be an ease to university student in finding

housemate or roommate during their university years.

This application will be using Flutter as a backbone of the

project. Student can expect that this application will be a

good application for them in solving their finding in

searching for person to share house with.

1.2 PROJECT OBJECTIVE

I. To study the requirements in developing a mobile

application for findinghousemate, which is named as

HousemateHeaven mobile application.

II.To design a good functional application with a nice

looking interface.

III.To develop the HousemateHeaven

application using iterative andincremental

model in SDLC methodology

1

1.3 PROJECT PROBLEM STATEMENT

1. Problem in Finding Housemate

- A lot of student faced a same problem in finding

housemate nowadays. Although they have been sharing

their search in social media, it still been ignored because

the posting did not reach the target audience. Using the

old way of sharing flyer also did not work anymore.

2. Difficulty to find similar application that focus in Malaysia

- After researching for a while, a housemate finder

application that focusing in Malaysia is quite hard to find.

The application mostly focus in am Europe Country like

France, England and Germany. Student that studying in

Malaysia will have a hard time to use this application

because most user in other application mostly originate

from outside of Malaysia.

3. Rental is high in certain place

- In certain places, rental of house can be unexpectedly

high due to how develop the town is. For example, range

of rental around Kuala Lumpur is around RM 1 300 - RM

1 800. This amount is too high if student want to rent the

house.

1.4 PROJECT SCOPE

Module Admin:

I. Module Login

- Admin need to login into HousemateHeaven application by entering emailand password.
- II. Module Adjust
- Admin can edit or delete any student that register in the HousemateHeavenapplication.
- Admin can edit or delete any shootout form that violet term and condition of the HousemateHeaven application.
- IV. Module Search
- Admin can search any student profile
- Admin can search any shootout form
- V. Module Logout
- Admin can logout from the application by clicking logout button. Module Student :
- I. Module Register
- Student must sign up to access the system as a new user. The student needto enter information like full name, username, email, password, university name and student id.
- I. Module Login
- Student need to login into application by entering email and password.
- II. Module Shootout
- Student can create new form
- Student can edit their form
- Student can view others form
- Student can favourite form
- III. Module Profile
- Student can view their profile
- Student can edit their profile.
- V. Module Search
- `- Student can search for a form by using search button.
- IV. Module Favourite
- Student can view their favourite form

VII. Module Logout

- Student can logout from the application by clicking on the logout buttonVII Module Forgot Password
- Student can reset their password by entering their email

1.5 PROJECT EXPECTED OUTCOME

- I.Student and Admin able to register in the application by entering theirinformation.
- II. Student and Admin able to login in application by entering their username and password.
- III. Admin are able to edit and delete any recruitment posting.
- IV. Student are able to post their recruitment in housemate requirement page.
- V. Student are able to rate their housemate in the application.
- VI. Student are able to edit their profile.
- VII. Admin and Student are able to use search button by filter the category. VIII. Student are able to view other student rating.

CHAPTER 2 : LITERATURE REVIEW

2.1 INTRODUCTION

In this chapter, literature review about this project will be discussed. All information that will be collected will be used as references to do the project based on research that will be conduct. In this literature review, all information that been got by researching journal of the research paper from researchers and information taken from website will be discussed and hopefully it will help to clear all the problems that have been occur in the research before the development of the project started.

2.2 FACTORS IN CHOOSING HOUSEMATE

In choosing housemate, there have been many studies done to investigate the factors or criteria in choosing housemate. According to Clark and Keith Tuffin (2015), the factor of choosing a housemate are based on age, gender and ethnicity. This is supported by research that had been done by Ahrentzen (2003), that said that one of the factor in choosing housemate is related to age range. The atmosphere in the house will be different for each group of age. Sometimes, younger people tends to be a housemate with a group of people around their age then with older people because of things like conversation topic of younger generation mostly about current trends in social media. The same thing can be said for older generation because that generation will likely talk about something related to current issue in the

world like politic and economic.

The next criteria for choosing a housemate may be due to an economic factor, as stated by Kenyon and Health (2001). It is because there is big differences in rental around rural areas and city areas. The amount of rental fees in city area tends to be higher than rural area because of how development progress in city like public transportation, tall buildings and shopping malls growing faster.

Furthermore, in the research by Despres (1994), the need of housemate to fill the family role to other housemate is also been included among the factors. Housemate needs to be treated like a family because housemate live under same roof like how a family does. A person who learning at university—that has long distance from their house will feel lonely because of absence of their family around them. The feeling will be overcome when they have an interaction among their housemate like what they used to with their family.

2.3 EFFECTS ON INTERACTIONS AND RELATIONSHIPS BETWEEN HOUSEMATES

Based on previous studies, there are many effects on interactions and relationships between housemates. One of it is research from Ozturk and Mutlu (2010), social interactions are importance for humans and their happiness. When a person interact with each other, they will feel happy because it fills the void of loneliness in them because there is someone they

can share things with. This research is supported by a research by Lizzy Onvlee (2020) that said that social interaction between housemates has an impact on the happiness of student. Student is also a human, so they need glimpse of happiness in their life too. When we are in a happy mood, everything will seems run so smoothly. Other than that, a research by Walsh (2015) said that social interaction can be seen as important source of emotional and practical support to a person. If a person has a problem with something, they need another person to support them emotionally by having conversation with them. This situation can happen between housemates when one of them is having problem with something. That is why according to research by Chatman, Broaddus and Spevack (2019), social interactions are more important than housing characteristics because of how social interactions can have many effects on someone. In this case, it it important for housemates to always have social interactions between each one of them.

2.4 USABILITY FACTORS IN MOBILE APPLICATION

When we talk about usability factors in mobile application, it related to how user feels about how well the application can be an user-friendly application. According to research by Harrison, Flood and Duce (2013), there are three factors that can affect usability of mobile application which are user, task and context of use. These factors are proven as a critical factors to the usability of an application as supported by a researched by Nielson (1994). The firstfactor is user. The end user need to be put as priority in the development of an application because in the end of the

day, they will use the system. In the view from mobile application development, user experience will be based on how well interface will be because of how small mobile application compared to the website. This is what based on research done by Hoehle and Venkatesh (2015) that said most of the time user interface is been sacrificed for unnecessary amount of information that want to be display. Next factor is task. It refers to goal of the user in the mobile application. For example, user might have download the mobile application for entertainment, functionality utility or communication based on research by Kang (2014). The user goals cannot be achieved if the application is to complex for them like there are too many additional features that been added to application.

Last but not least, context of use is one of the important factors of usability in mobile application. This factor also can be said as what environment does the user will use the application. According to research by Venkatesh, Morris, Davis and Davis (2003), user will likely adapt new technology when it offers expected outcome. This can means that mobile application will be used more when it offers what user want in the situation. For example, public transportation mobile application will be used more when user want to know the exact time the public bus arrived. Mobile application also can be accessed anytime like in the middle of walking to the office. This is supported of a research by Schildbach and Rukzio (2010) that stated, using mobile application while walking can slow down walker's average speed. The user walking's speed is affected because of how focus user on their mobile application during that time.

2.5 DEVELOPMENT OF MOBILE APPLICATION

A)Flutter

Flutter is open source UI software development kit that been used to develop cross-platform applications for Android, IOS, Linux, macOS, Windows, Google Fuchsia and the web from a single code base. It is created by Google and released in 2017. Flutter is widely used for mobile application development around the world.

B)Firebase

Firebase provides detailed documentation and cross-platform SDKs to help you build and ship apps on Android, iOS, the web, C++, and Unity. Firebase is a database that commonly used for mobile application and web development because it is a real time database.

2.6 OVERVIEW SIMILAR APPLICATION

A)Flatmates



Figure 1 : Flatmates

Flatmates is a mobile application that can be used to search for a roommate. This application is focusing on people that lives in Australia. Every year, this application done a survey to see what is happening in the world of share housing.

B)Roomster



Figure 2 : Roomster

Roomster is a mobile application that can be used to search for a housemate. This application is available in 192 countries and has 18 languages option but mostly focus on famous city around the world like Paris and London. People can search for room with a pet friendly environment in the search filter function.

2.7 PROJECT COMPARISION

	Flatmates	Roomster	HousemateHe
			aven
Logo	F		HOUSEMATEHEAVEN
Platform	Mobile and Web	Mobile	Mobile
Function Find roommate		Find roommate Find	
			housemate
Country	Australia	192 countries	Malaysia
Speciality	Have a survey	Able to search for	Focusing on
	every year	a room that pet	Malaysia's
		friendly	University
			Student

Table 1: Project Comparison

2.8 CONCLUSION

This chapter reviews the factors and criteria in choosing housemates which are the age, gender and economic factors. In addition, literature review was done on effects of interactions and relationships of housemates. On another note, usability factors in mobile application are discussed and descriptions of the list of software to develop mobile application are presented along with comparison between existing mobile application.

CHAPTER 3 : RESEARCH METHODOLOGY

3.1 PROJECT COST

The budget for this project is estimated to be RM 0. It is because all thehardware and software that being used is free.

3.2 INTRODUCTION

This chapter will consist of understanding of the project planning and requirement specification of the project. This is because of understanding new mechanism is difficult and it requires high critical thinking skills. Proper understanding about the application will lead to easy resolution to any problem occur.

3.3 ITERATIVE AND INCREMENTAL

Methodology Model that being used in HousemateHeaven application is Iterative and Incremental Model. It is a model that is an incremental model that is developed in multiple cycles of iterations (Iterative and Incremental Development (IID), 2020). This model is like waterfall model but unlike waterfall model, it will cycle through the phase several times.

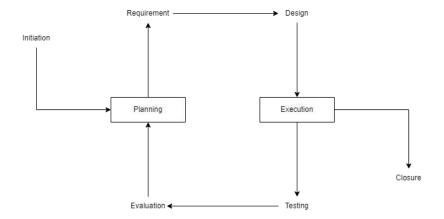


Figure 3: Iterative and Incremental Model

The application will be using this model because requirement changes can be done through out the development stage. This will make it easier to change the functionality and improve the application. Customers can provide feedback in each increment during the development. It will make the final product will reach the expectation in customer's eyes

3.4 WORD BREAKDOWN SYSTEM(WBS)

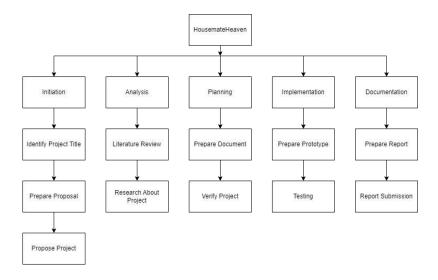


Figure 4: WBS

3.5 HARDWARE AND SOFTWARE REQUIREMENT

A)Software Requirement

NO.	ITEMS
1	ANDROID STUDIO
2	FLUTTER
3	VISUAL STUDIO CODE
4	FIREBASE-FIRESTORE

Table 2 : Software Requirement

B)Hardware Requirement

NO.	ITEM
1	LAPTOP
2	MOBILE PHONE

Table 3 : Hardware Requirement

3.5 PROJECT COST

NO.	ITEMS	COST(RM)	TOTAL(RM)
1	HARWARE		
1.1	LAPTOP	SELF-	-
		OWNED	
1.2	MOBILE PHONE	SELF-	-
		OWNED	
2	SOFTWARE		
2.1	ANDROID STUDIO	-	-
2.3	VISUAL STUDIO	-	-
	CODE		
2.4	FLUTTER	-	-
2.5	FIREBASE	-	-

Table 4 : Project Cost

3.6 GANTT CHART

Refer to Appendix A.

3.7 FUNCTIONAL REQUIREMENTS

Req.	Desc.	Test	Release	Priority	Status
ID		Case			
RQ-1	HousemateHe	TC_009	1.0.0	High	Developed
	aven mobile				
	application				
	shallbe able to				
	allow student				
	register to the				
	application.				
RQ-2	HousemateHe	TC_010	1.0.0	High	Developed
	aven mobile				
	application				
	shallbe able to				
	allow student				
	to login to				
	application.				
RQ-3	Student that	TC_011		High	Not
	use				Developed
	HousemateHe				
	aven mobile				
	application				
	shallbe able to				
	pick between				
	the roles				
	given.				

RQ-4	Upon login to HousemateH eaven mobile application, student shall be greetwith tutorial on how touse the application in hompage	TC_012	1.00	Medium	Developed
RQ-5	In shootout section of HousemateHe aven mobile application, student shall be able to create form upon choosing "Want to Find Housemate "role.	TC_013	1.0.0	High	Developed
RQ-6	In shootout section of HousemateHe aven mobile application, student shall be able toedit form upon choosing "Want to Find	TC_014	1.00	High	Not Developed

	Housemate "role.			
RQ-7	In shootout	TC_015	High	Not
	section of			Developed
	HousemateHe			
	aven mobile			
	application,			
	student shall			
	be able to			
	delete form			
	upon choosing			
	" Want to			
	Find			
	Housemate			
	" role.			
RQ-8	In shootout	TC_016	High	Not
	section of			Developed
	HousemateHe			
	aven mobile			
	application,			
	student shall			
	be able tosee			
	the form that			
	has been			
	created form			
	upon choosing			
	" Want to Find			
	Housemate			
	" role.			

RQ-9	In shootout	TC_017	High	Not
	section of			Developed
	HousemateHe			
	aven mobile			
	application,			
	student shall			
	be able tosee			
	form that has			
	beencreated			
	by other			
	students upon			
	choosing			
	" Want to Find			
	Rental House			
	" role.			
RQ-	In shootout	TC_018	High	Not
10	section of			Developed
	HousemateHe			
	aven mobile			
	application,			
	student shall			
	be able to			
	bookmark any			
	form upon			
	choosing			
	" Want to Find			
	Rental House			
	" role.			
RQ-	In search	TC_019	High	Not
	section of			

11	HousemateHe aven mobile application, student shall be able to search form from other students upon choosing any role.				Developed
RQ-	In search	TC_020		High	Not
12	section of				Developed
	HousemateHe				
	aven mobile				
	application,				
	student shall				
	be able to				
	search other				
	students'				
	profile upon				
	choosing any				
DO.	role.	TO 004	4.00	11.1	D
RQ-	In profile	TC_021	1.00	High	Developed
13	section of HousemateHe				
	aven mobile				
	application,				
	student shall				
	be able toview				
	their profile				
RQ-	In profile	TC_022		High	Not
14	section of	_			Developed
	HousemateHe				.

	aven mobile				
	application,				
	student shall				
	be able to				
	edit their profile				
RQ-	Student shall	TC_023	1.00	High	Developed
15	be able to				
	logout from				
	HousemateHea				
	ven mobile				
	application				
	upon login to				
	the				
	application				
RQ-	HousemateHe	TC_001		High	Not
16	aven mobile				Developed
	application				
	shallbe able to				
	allow admin to				
	login to				
	application by				
	entering				
	information				
	that has been				
	set.				
RQ-	In search	TC_003		High	Not
17	section of				Developed
	HousemateH				
	eaven mobile				
	application,				
	admin shall				
	be able to				
	search form				

	that has been created by student			
RQ-	In search	TC_002	High	Not
18	section of HousemateHe aven mobile application, admin shall be able to search student's profile		91.	Developed
RQ- 19	In search section of Housemate Heaven mobile application, admin shalle be able to edit student profile	TC_004	High	Not Developed
RQ- 20	In search section of HousemateHe aven mobile application, admin shall be able to delete student's profileupon	TC_005	High	Not Developed

	searching it.			
RQ- 21	In search section of HousemateHe aven mobile application, admin shall be able to edit form t	TC_006	High	Not Developed
RQ- 22	In search section of HousemateHea ven mobile application, admin shall be able todelete form	TC_007	High	Not Developed
RQ- 23	Admin shall be able to logout from HousemateHe aven mobile application upon login to application	TC_008	High	Not Developed

Table 5 : Functional Requirement

3.8 NON-FUNCTIONAL REQUIREMENT

Number	Description					
QR-1	The user interface of the HousemateHeaven Mobile					
	Applicationshall be neat to be seen by user.					
QR-2	The loading between section to another					
	section inHousemateHeaven Mobile Application					
	shall take 1 second at most.					
QR-3	When the user updated their information, the					
	HousemateHeavenMobile Application database shall be					
	updated.					
QR-4	The user information like password shall be protected by the					
	system in HousemateHeaven Mobile Application.					
QR-5	HousemateHeaven mobile application shall be easy to use					
	by newregister user					
QR-6	HousemateHeaven mobile application server shall be stable mo	ost				
	of the time					
QR-7	All HousemateHeaven mobile application function shall be able	to				
	use without constraint					
QR-8	Data that has been recorded in HousemateHeaven mob	oile				
	application shall be consistent at anytime.					

Table 6: Non-Functional Requirement

3.9 CONSTRAINTS

- I. Other works might disturb project planning process.
- II. The project will be not submitted in time.
- III. There will be a chance when platform that be used will not work.
- IV. Available in Android only.
- V. Loading time between page will take a long time to switch.

3.10 CONCLUSION

In conclusion, this chapter summarized how the project will be implemented. All of the project model, platform, hardware and software have been listed and the budget has been shown.

CHAPTER 4 : PROTOTYPE DEVELOPMENT

4.1 INTRODUCTION

In this chapter, methodology that been used to refer in development of the project is examined. It also include a use case to show how the project will work. This chapter also will specify the software and hardware that been used for prototype development. In the last part of this chapter, system interface of the prototype will be shown.

4.2 PROTOYPE DEVELOPMENT

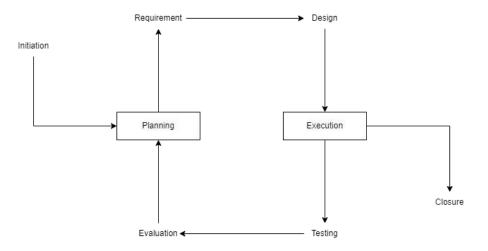


Figure 5: Iterative and Incremental Model

4.2.1 Product Requirement

4.2.1.1 Hardware Requirement

A) Personal Laptop

Personal laptop being used as a tool to develop the prototype ofapplication. It can easily be used in variety of location.

	Specification
Operating System	Windows 11
Browser	Google Chrome,
	Microsoft Edge
Random Access Memory	16GB or above
(RAM)	
Central Processing Unit	Intel Core i5
(CPU)	

Table 7: Personal Laptop Specification

B) Personal Mobile Phone

Personal mobile phone is a portable device that can be easily used and carried because of it small size. It is a tool that been used to test the prototype of application

	Specification
Platform	Android 12
Random Access Memory	8GB + 6GB
(RAM)	

Network	5G	

Table 8 : Personal Mobile Phone Specification

4.2.1.2 Software Requirement

- A) Android Studio
- **B) Visual Studio Code**
- C) Flutter
- D) Dart Language
- E) Firebase-Firestore

4.2.2 Functional Requirement

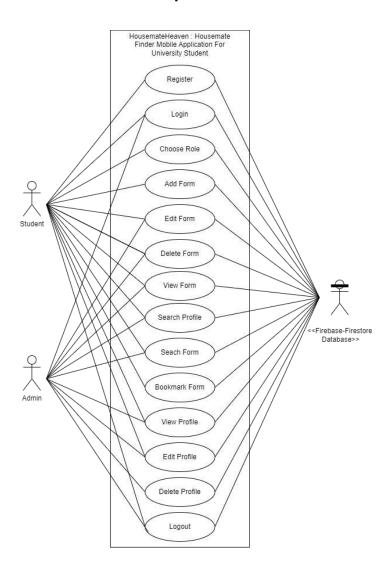


Figure 6 : Use Case Diagram

4.2.3 Database Design

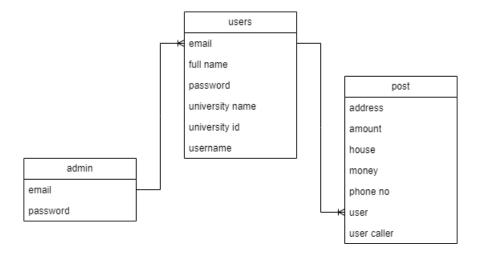


Figure 7 : ERD Diagram

4.3 APPLICATION INTERFACE

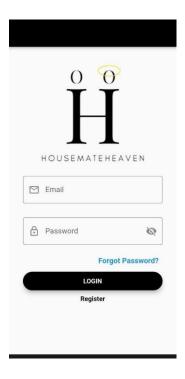


Figure 8 : Login Page



Figure 9 : Forgot Password Page

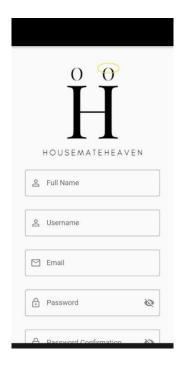


Figure 10 : Register Page



Figure 11 : Role Page



Figure 12 : Homepage

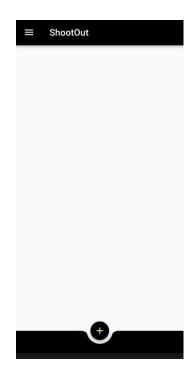


Figure 13 : Shootout Page

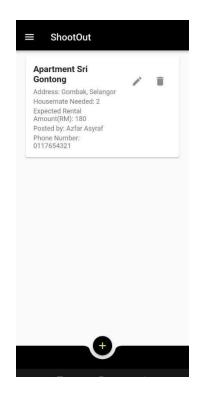


Figure 14 : Shootout Page Version 2

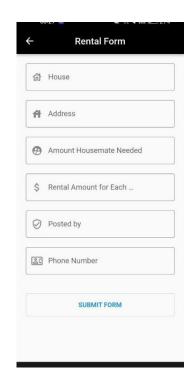


Figure 15 : Rental Form

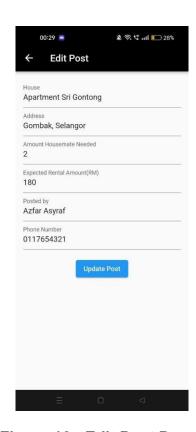


Figure 16 : Edit Post Page

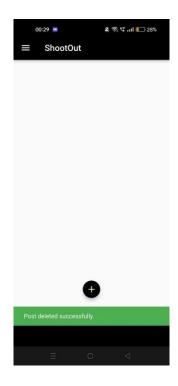


Figure 17: Pop-up Notification Version 1

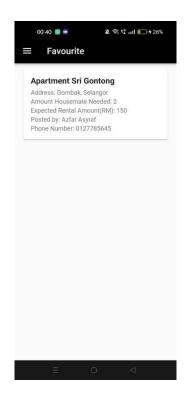


Figure 18; Favourite Page



Figure 19 : Profile Page



Figure 20 : Search Page

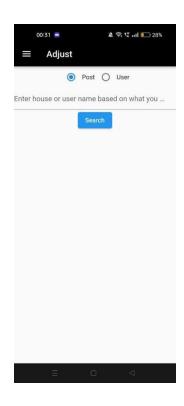


Figure 21 : Adjust Page - Post



Figure 22 : Adjust Page - User

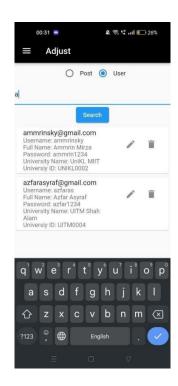


Figure 23 : Adjust Page - User Result

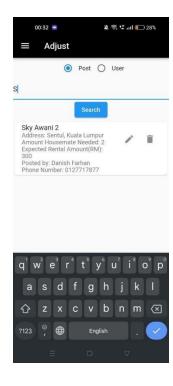


Figure 24 - Adjust Page - Post Result

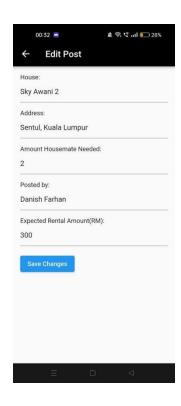


Figure 25 : Edit Post Page for Admin

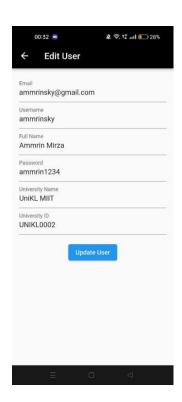


Figure 26 : Edit User Page for Admin

4.4 CONCLUSION

In conclusion, methodology that been used for development of HousemateHeaven prototype is iterative and incremental model. In the designphase of the model, use case and ERD diagram been showed to show the flow of the application. In the last part of the chapter, the limitations of the application are been talked. Limitations been highlighted during prototype development to make sure that the final product able to satisfy client requirement and is well-designed.

CHAPTER 5 : TESTING AND RESULTS

5.1 INTRODUCTION

In this part, testing phase of HousemateHeaven mobile application will be explained. Testing is needed in developing software because of to improve the standard of the system which includes functionality and capabilities of the system. It also important to avoid any errors or defects that may happen during development of the system.

5.2 TESTING APPROACH

The test approach that will be used for HousemateHeaven will be Regression Testing. The system will be tested by developer. The testing will be done at Universiti Kuala Lumpur - Malaysian Institute of Information Technology (UniKL MIIT) during a gap between lecture session.

5.3 TESTING PREPARATION

5.3.1 Software Preparation

- A) Visual Studio Code
- B) Firebase-Firestore

5.3.2 Hardware Preparation

No.	Items	Description
1	Laptop	Asus Nitro 5
2	RAM	16 GB
3	Operating System	Windows 11
4	CPU	Intel® Core(TM) i5-10300H, 2.50
		GHz
5	Hard Disk4	475 GB

Table 9 : Hardware Preparation

5.4 TESTING SCHEDULE

Task	Milestone	Date
Planning	Completion of	26/12/2022
	Section 1 and 2	
Analysis and	Completion of	6/1/2023
Design	Section 3	
Test Environment	Completion of	5/4/2023
Set-Up	Section 4	
Test	Completion of	12/5/2023
Implementation	Section 5	
and Execution		
Test Monitoring	Submission of	3/6/2023
and Controlling	Software Test	
	Plan	

Table 10 : Testing Schedule

5.5 TEST CASES

5.5.1 Test Case : Module Admin Login

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance
	Sarirah Husin		Testing
Risk Level	High		
Test Design	Use Case Testing		
Technique			
Test Type	Functional Testing		
Test Case	TC_001		
Number			
Test Case Name	Login		
Test Case	To test login to application as admin		
Description	Description		
Item(s) to be tested			
1 Email			
2 Password			
Pre-Condition:	Pre-Condition: None		
Post Condition:	Able to login as adı	min	
	Specifi	cations	
	put		d Output
Email: adminhh@gmail.com L		Login successful	
Password: adminhh1234			
	Procedu	ral Steps	
1 Enter email an	d password		
2 Click Login			

Table 11 : Test Case Statement - Login

5.5.2 Test Case: Module Admin Search

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance
	Sarirah Husin		Testing
Risk Level	High		
Test Design	Use Case Testing		
Technique			
Test Type	Functional Testing		
Test Case	TC_002		
Number			
Test Case Name	Search Profile		
Test Case	To search for any student profile as admin		
Description			
	Item(s) to	be tested	
1 Search profile f	1 Search profile function		
Pre-Condition:	Login as admin and	d one or more studer	nt data exist
Post Condition:	Able to search for s	tudent profile	
	Specific	cations	
Inj	out	Expected	d Output
Keyword : Ammrin	Keyword : Ammrin Mirza Display Ammrin Mirza profile		
Procedural Steps			
1 Click search by user			
I Click search by	user		
2 Enter keyword	user		

Table 12: Test Case Statement - Search Profile

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance
	Sarirah Husin		Testing
Risk Level	High		
Test Design	Use Case Testing		
Technique			
Test Type	Functional Testing		
Test Case	TC_003		
Number			
Test Case Name	Search Form		
Test Case	To search any form that created by student by admin		
Description			
	Item(s) to be tested		
1 Search form fu	1 Search form function		
Pre-Condition:	Login as admin and	d one or more studer	nt data exist
Post Condition:	Able to search for s	student profile	
	Specifi	cations	
In	put	Expected	d Output
Keyword : Sky Awani Display Sky Awani related form			
Reyword . Sky Awa	ani 	Display Sky Awani	related form
Reyword . Sky Awa	ani Procedu		related form
1 Click search by	Procedu		related form
	Procedu		related form

Table 13: Test Case Statement - Search Form

5.5.3 Test Case: Module Admin Adjust

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance
	Sarirah Husin		Testing
Risk Level	High		
Test Design	Use Case Testing		
Technique			
Test Type	Functional Testing		
Test Case	TC_004		
Number			
Test Case Name	Edit Profile		
Test Case	To edit student profile as admin		
Description			
Item(s) to be tested			
1 Edit student pr	ofile function		
Pre-Condition:	Already search for	student profile and it	exist
Post Condition:	Able to edit the stud	dent profile	
	Specifi	cations	
Inj	out	Expected	d Output
Click edit button	Click edit button Edit can be done		
	Procedural Steps		
1 Search for stud	ent profile		
2 Click edit button on student profile			

Table 14: Test Case Statement - Edit Profile

Tested	Ву:	Ts. Dr. Husna	Test Level:	User Acceptance
		Sarirah Husin		Testing
Risk Le	vel	High		
Test De	esign	Use Case Testing		
Techni	que			
Test Ty	pe	Functional Testing		
Test Ca	ase	TC_005		
Numbe	r			
Test Ca	se Name	Delete Profile		
Test Ca	ase	To test delete any student profile function as admin		
Descrip	otion			
	Item(s) to be tested			
1 Del	1 Delete student profile function			
Pre-Co	ndition:	Already search for	student profile and it	exist
Post Co	ondition:	Able to delete the s	tudent profile	
		Specifi	cations	
	lnį	out	Expected	d Output
Click de	Click delete button Delete successfully		,	
	Procedural Steps			
1 Sea	1 Search student profile			
2 Click delete button on student profile				

Table 15: Test Case Statement - Delete Profile

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance
	Sarirah Husin		Testing
Risk Level	High		
Test Design	Use Case Testing		
Technique			
Test Type	Functional Testing		

Test Case	TC_006		
Number			
Test Case Name	Edit Form		
Test Case	To test edit form fu	nction as admin	
Description			
	Item(s) to	be tested	
1 Edit form funct	Edit form function		
Pre-Condition:	Search any form that created by student		
Post Condition:	Able to edit the form		
	Specifications		
In	Input Expected Output		
Click edit form but	rm button Form can be edit		
Procedural Steps			
1 Search form cr	eated by student		
2 Click edit button			

Table 16: Test Case Statement - Edit Form

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance
	Sarirah Husin		Testing
Risk Level	High		
Test Design	Use Case Testing		
Technique			
Test Type	Functional Testing		
Test Case	TC_007		
Number			
Test Case Name	Delete Form		
Test Case	To test delete form function as admin		
Description			
	Item(s) to	be tested	
1 Delete function			
Pre-Condition:	Search any form cr	eated by student	
Post Condition:	Able to delete the f	orm	
	Specifi	cations	
In	put	Expected	d Output
Click delete button Form successfully d			deleted
Procedural Steps			
1 Search any for	m created by studen	t	

Table 17: Test Case Statement - Delete Form

5.5.4 Test Case: Module Admin Logout

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance	
	Sarirah Husin		Testing	
Risk Level	High			
Test Design	Use Case Testing			
Technique				
Test Type	Functional Testing			
Test Case	TC_008			
Number				
Test Case Name	Logout			
Test Case	To test logout from the application as admin			
Description				
	Item(s) to	be tested		
1 Logout function	1			
Pre-Condition:	Login to application	as admin		
Post Condition:	Logout from applica	ation		
Specifications				
In	put	Expected	d Output	
In Click logout button		Expected Logout successfully	•	
		Logout successfully	•	
	Procedu	Logout successfully	•	

Table 18 : Test Case Statement - Logout

5.5.5 Test Case: Module Student Register

Te	sted By:	Ts. Dr. Husna	Test Level:	User Acceptance	
		Sarirah Husin		Testing	
Risk Level High					
Te	Test Design Use Case Testing				
Te	chnique				
Te	st Type	Functional Testing			
Te	st Case	TC_009			
Nu	mber				
Tes	st Case Name	Register			
Te	st Case	To test register fund	ction as student		
De	scription				
		Item(s) to	be tested		
1	Full name				
2	2 Username				
3	3 Email				
4	4 Password				
5	Password confi	rmation			
6	University name	е			
7	University ID				
Pre	e-Condition:	Student does not h	ave an account yet		
Ро	st Condition:	Student can registe	er to application		
		Specific	cations		
	Inp	out	Expecte	d Output	
Ful	ll name :		All information regis	ster into database	
Us	ername :				
Email :					
Pa	ssword :				
Pa	ssword confirma	ition :			
Un	iversity name :				
Un	iversity id :				

	Procedural Steps				
1	Click register option				
2	Enter full name, username, email, password, password confirmation,				
	university name and university id				
3	Click register button				

Table 19 : Test Case Statement - Register

5.5.6 Test Case : Module Student Login

Те	sted By:	Ts. Dr. Husna	Test Level:	User Acceptance	
		Sarirah Husin		Testing	
Ris	sk Level	High			
Те	st Design	Use Case Testing			
Те	chnique				
Те	st Type	Functional Testing			
Te	st Case	TC_010			
Nu	ımber				
Te	st Case Name	Login			
Te	Test Case To test login function as student				
Description					
		Item(s) to	be tested		
1	1 Email				
2	Password				
Pr	e-Condition:	Student already ha	ve an account		
Ро	st Condition:	Student can login t	o application		
		Specifi	cations		
	In	put	Expecte	d Output	
En	nail :		Login successful		
Pa	Password:				
		Procedu	ral Steps		
1	1 Enter email and password				
2	2 Click login button				

Table 20 : Test Case Statement - Login

5.5.7 Test Case: Module Student Role

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance	
	Sarirah Husin		Testing	
Risk Level	High			
Test Design	Use Case Testing			
Technique				
Test Type	Functional Testing			
Test Case	TC_011			
Number				
Test Case Name	Choose Role			
Test Case	Case To test choose role function as student			
Description				
	Item(s) to	be tested		
1 Choose role fu	nction			
Pre-Condition:	Student already log	in to application		
Post Condition:	Student can choose	e role		
	Specifi	cations		
In	put	Expected	d Output	
Click any role		Login as the picked	l role	
	Procedural Steps			
1 Login to applica	ation as student			
2 Click any role				

Table 21 : Test Case Statement - Choose Role

5.5.8 Test Case: Module Student Homepage

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance	
	Sarirah Husin		Testing	
Risk Level	High			
Test Design	Use Case Testing			
Technique				
Test Type	Functional Testing			
Test Case	TC_011			
Number				
Test Case Name	View Tutorial			
Test Case	To test view tutorial function as student			
Description				
	Item(s) to	be tested		
1 View tutorial fu	nction			
Pre-Condition:	Student already ch	oose role		
Post Condition:	Student can view to	utorial in homepage		
	Specifi	cations		
In	out	Expected	d Output	
Click homepage se	ection	Tutorial can be see	n	
Procedural Steps				
1 Login to applica	1 Login to application as student			
2 Choose any rol	2 Choose any roles			
3 Click homepag	e section			

Table 22: Test Case Statement - View Tutorial

5.5.9 Test Case: Module Student Shootout

Tested By:	1	Ts. Dr. Husna	Test Level:	User Acceptance
		Sarirah Husin		Testing
Risk Level		High		
Test Desig	ın	Use Case Testing		
Technique				
Test Type		Functional Testing		
Test Case		TC_012		
Number				
Test Case	Name	Create Form		
Test Case		To test create form	function as student	
Descriptio	n			
		Item(s) to	be tested	
1 Create	form fur	nction		
Pre-Condi	tion:	Student choose "Want to Search For Housemate "role		
Post Cond	ition:	Student can create a form		
		Specifi	cations	
	Input Expected Output			d Output
House nam	ne :		Form can be create	ed
House add				
Housemate		d :		
Rental Amo	ount :			
Posted By:	_			
Phone Nun	nber:	_		
	" 1 2 2		ral Steps	
	Choose "Want to Search for Housemate "role			
	nootout			
	dd butto			
		ame, house addres		ed, rental amount,
·		phone number inforr	nation	
5 Click su	ıbmit bu	itton		

Table 23 : Test Case Statement - Create Form

Те	sted By:	Ts. Dr. Husna	Test Level:	User Acceptance	
		Sarirah Husin		Testing	
Ris	sk Level	High			
Те	st Design	Use Case Testing			
Те	chnique				
Те	st Type	Functional Testing			
Те	st Case	TC_013			
Nu	ımber				
Те	st Case Name	Edit Form			
		Item(s) to	be tested		
1	1 Edit form function				
Pr	e-Condition:	Student already created one or more form			
Po	Post Condition: Student able to edit the form				
		Specifi	cations		
	Inț	out	Expecte	d Output	
Cli	ck edit form butte	on	Form can be edit		
		Procedu	ral Steps		
1	Click form				
2	Click edit button				
3	Change any information				
4	Click confirm				
Те	st Case	To edit form function	n as student		
De	Description				

Table 24 : Test Case Statement - Edit Form

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance		
	Sarirah Husin		Testing		
Risk Level	High				
Test Design	Use Case Testing				
Technique					
Test Type	Functional Testing				
Test Case	TC_014				
Number					
Test Case Name	Delete Form				
Test Case	To test delete form function as student				
Description					
	Item(s) to	be tested			
1 Delete form fur	nction				
Pre-Condition:	Student already cre	eated one or more fo	rm		
Post Condition:	Student can delete	form			
	Specifi	cations			
In	put	Expected	d Output		
Click delete form button Form can be deleted			ed		
	Procedural Steps				
1 Click form					

Table 25: Test Case Statement - Delete Form

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance
	Sarirah Husin		Testing
Risk Level	High		
Test Design	Use Case Testing		
Technique			
Test Type	Functional Testing		
Test Case	TC_015		

Number				
Test Case Name	View Form			
Test Case	To test view form fu	unction as student		
Description				
	Item(s) to	be tested		
1 View form func	tion			
Pre-Condition:	One or more form data exists			
Post Condition:	Student can view fo	orm		
	Specifi	cations		
In	put	Expected Output		
Click shootout section L		List of form can be viewed		
Procedural Steps				
1 Click shootout	1 Click shootout section			
2 Student can vie	2 Student can view form			

Table 26 : Test Case Statement - View form

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance		
	Sarirah Husin		Testing		
Risk Level	High				
Test Design	Use Case Testing				
Technique					
Test Type	Functional Testing				
Test Case	TC_016				
Number					
Test Case Name	Bookmark Form				
Test Case	To test bookmark form function as student				
Description					
Item(s) to be tested					
1 Bookmark form function					
Pre-Condition:	One or more form data exists				
Post Condition:	Student can bookmark form				
Specifications					
In	put	Expected	d Output		
In Click love button	put	Expected Form successfully I	•		
	put Procedu	Form successfully I	•		
		Form successfully I	•		

Table 27: Test Case Statement - Bookmark Form

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance
	Sarirah Husin		Testing
Risk Level	High		
Test Design	Use Case Testing		
Technique			
Test Type	Functional Testing		
Test Case	TC_008		

Number	lumber									
Test Case Name	est Case Name Logout									
Test Case	To test logout from	the application as admin								
Description										
	Item(s) to be tested									
1 Logout function	1									
Pre-Condition:	Login to application	n as admin								
Post Condition:	Logout from applica	ation								
	Specifi	cations								
In	put	Expected Output								
Click logout button		Logout successfully								
	Procedu	ral Steps								
1 Login to applica	ation									
2 Click logout bu	tton									

Table 28: Test Case Statement - Logout

5.5.10 Test Case: Module Student Search

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance							
	Sarirah Husin		Testing							
Risk Level	High									
Test Design	Use Case Testing									
Technique	que									
Test Type	est Type Functional Testing									
Test Case TC_017										
Number										
Test Case Name Search Form										
Test Case To test search form function as student										
Description										
	Item(s) to	be tested								
1 Search form fu	nction									
2 Keyword										
Pre-Condition:	One or more form of	data exists.								
Post Condition:	Able to search any	form								
	Specifi	cations								
In	out	Expected	d Output							
Keyword : " Sky Av	vani 2 "	Sky Awani 2 relate	ed form can be							
		searched								
	Procedu	ral Steps								
1 Click search se	ection									
2 Enter form deta	ail									
3 Click search bu	Click search button									

Table 29: Test Case Statement - Search Form

5.5.11 Test Case: Module Student Favourite

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance								
	Sarirah Husin		Testing								
Risk Level	High										
Test Design Use Case Testing											
Technique											
Test Type	Functional Testing	Functional Testing									
Test Case TC_018											
Number											
Test Case Name	View Bookmark										
Test Case	To test view bookm	ark function as stud	ent								
Description											
	Item(s) to	be tested									
1 View bookmark	function										
Pre-Condition:	Student already log	in or already bookm	ark any form								
Post Condition:	Student can view b	ookmark									
	Specifi	cations									
In	out	Expected	d Output								
Click bookmark se	ction	Bookmark form can be viewed									
	Procedu	ral Steps									
1 Click bookmark	section										
2 Able to view bo	okmark form										

Table 30 : Test Case Statement - View Bookmark

5.5.12 Test Case: Module Student Profile

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance				
	Sarirah Husin		Testing				
Risk Level	High						
Test Design	Use Case Testing						

Technique	Technique								
Test Type	Functional Testing								
Test Case	TC_019								
Number									
Test Case Name	View Profile								
Test Case	To test view profile	function as student							
Description									
	Item(s) to	be tested							
1 View profile fun	ection								
Pre-Condition:	Student already reg	gister							
Post Condition:	Able to view profile								
	Specifi	cations							
Inj	out	Expected Output							
Click profile section	1	Profile can be viewed							
	Procedu	ral Steps							
1 Click profile sec	ction								
2 Profile can view	ved								

Table 31: Test Case Statement - View Profile

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance							
	Sarirah Husin		Testing							
Risk Level	High									
Test Design	Use Case Testing									
Technique										
Test Type	Functional Testing									
Test Case TC_020										
Number										
Test Case Name Edit Profile										
Test Case	To test edit profile f	unction as student								
Description										
	Item(s) to	be tested								
1 Edit profile fund	ction									
Pre-Condition:	Student already rec	gister								
Post Condition:	Able to edit profile									
	Specifi	cations								
In	out	Expected	d Output							
Click edit button		Edit can be done								
	Procedu	ral Steps								
1 Click edit butto	n									
2 Change any inf	ormation									
3 Click confirm b	utton									

Table 32: Test Case Statement - Edit Profile

5.5.13 Test Case : Module Student Logout

Tested By:	Ts. Dr. Husna	Test Level:	User Acceptance				
	Sarirah Husin		Testing				
Risk Level	High						
Test Design	Use Case Testing						

Technique							
Test Type	Functional Testing						
Test Case	TC_021						
Number							
Test Case Name	Logout						
Test Case	To test logout funct	ion as student					
Description							
	Item(s) to	be tested					
1 Logout function	1						
Pre-Condition:	Login to application	as student					
Post Condition:	Able to logout from	the application					
	Specifi	cations					
Inj	out	Expected Output					
Click Logout Buttor	า	Logout successful					
	Procedu	ral Steps					
1 Login to applica	ation as student						
2 Click logout but	tton						

Table 33: Test Case Statement - Logout

5.5.14 Test Case : Module Student Forgot Password

Те	sted By:	Ts. Dr. Husna	Test Level:	User Acceptance								
		Sarirah Husin		Testing								
Ris	sk Level	High										
Те	st Design	sign Use Case Testing										
Те	chnique	nnique										
Te	st Type	Functional Testing	Functional Testing									
Те	st Case	TC_022										
Nu	Number											
Те	st Case Name	Forgot Password										
Test Case To test forgot password function as student												
Description												
		Item(s) to	be tested									
1	Forgot passwor	rd function										
Pr	e-Condition:	Already register as	a student in applicat	tion								
Ро	st Condition:	Able to login using	new password									
		Specifi	cations									
	Inț	out	Expected	d Output								
En	nail:		Able to login using	new password								
		Procedu	ral Steps									
1	Click forgot pas	ssword button in logi	n screen									
2	Enter email											
3	Click send ema	il										
4	Check email for	r the reset password	link									
5	Change to new	password										
6	Login to applica	ation using new pass	word									

Table 34: Test Case Statement - Forgot Password

5.6 TEST RESULTS

Test Sequence	Remarks (PASSED/
	FAILED)
Register as Student	PASSED
Login as Student	PASSED
Pick role	PASSED
View Tutorial	PASSED
Create Form	PASSED
Edit Form	PASSED
Delete Form	PASSED
Search Form	PASSED
Search User	PASSED
Search Form	PASSED
Bookmark Form	PASSED
View Bookmark	PASSED
View Profile	FAILED
Edit Profile	FAILED
Logout	PASSED
Login as Admin	PASSED
Search User	PASSED
Search Form	PASSED
Edit Form	PASSED
Delete Form	PASSED
Logout	PASSED
Forgot Password	PASSED

Table 35: Test Results

5.7 TEST SUMMARY

Total No.	Total No.	Total No.	Total No. Of.
OfTest	OfTest	OfPassed	Failed Test
Cases	Cases	Test	Cases
Planned	Executed	Cases	
22	22	20	2

Table 36: Test Summary

5.8 CONCLUSION

Testing is an important part in development of the application. That is why in this chapter, testing was done to ensure detect any defects or erros in the development of HousemateHeaven application. Testing approach that been used to develop the application is user acceptance testing.

CHAPTER 6: CONCLUSION

6.1 CONCLUSION

In this chapter, all finding of previous chapters will be summarized that will prove that HousemateHeaven mobile application is indeed build and developed correctly. Most of the requirements and modules successfully followed. The application also able to manage end user expectation. The HousemateHeaven mobile application focus on two main users which are admin and university student. Admin will be responsible in managing the data of the system while university student will be the main user that will use the main function of the application which is to find housemate. Research that been conducted during the development of the system also will be important in improving the system. Methodology that been used which is Iterative and Incremental model is a model that been referred to conduct the development of HousemateHeaven mobile application. Furthermore, most of the challenges that faced developer In developing the successfully been overcome to complete the modules of requirement of the mobile application. The development of the application follow the timeline, budget and requirement that proposed during the proposal to develop it. Testing of HousemateHeaven mobile application is done by using User Acceptance testing method. Testing of it has been done by tester after the development of the system. By doing the testing, the application can be improve and develop into more stable application.

6.3 LIMITATIONS

Limitation of development refer to operation that the system unable to operate successfully. This limitation will future. first improved in The limitation HousemateHeaven for user which in this case is student, cannot know the distance between the rental house and their university automatically. The second limitation is student might not be able to see or edit their profile information because of bug happened development of application. Next, student need to logout and login again to change their role do differentfunctional in the application. Lastly, student might need to press the same button repeatedly before the application accept the action because of bug in the application.

6.2 RECOMMENDATIONS

The successes of HousemateHeaven mobile application will be more possible by considering recommendations that has been provided by some parties. The first recommendation is to improve the interface of the application to make it more user friendly. This will improve the end user experience in using this application. Security of the system need to be improved more to provide more safety validation to the users. For example, a process to check the background of the user before approving them to register to application and an obligation to make sure user use an unique password. Next, the application need to have customer service operation in it. It is important because If some of the users are having problem in using the application, they

can contact customer support to help them with it. The responsive and reliability of the customer service will be important aspect. Furthermore, HousemateHeaven mobile application need to follow regulation and laws to keep operate and make sure that users of the application will have more confidence in using the application. The application need to provide End-user License Agreement (EULA) in the system. This will make sure that HousemateHeaven will not break the rules in managing user data and not involved in any cases that will need interfere from the court in future. Finally, the application must fix the bug or any errors in the development to make surethat HousemateHeaven mobile application will be more smooth to use by the user without any constraint that will effect performance of the system.

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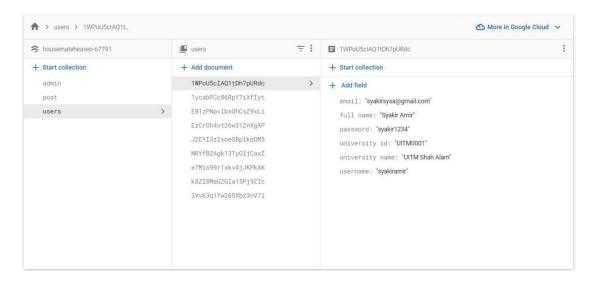
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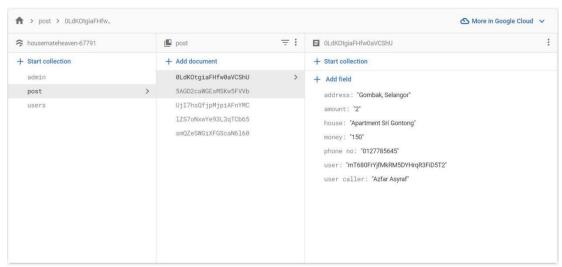
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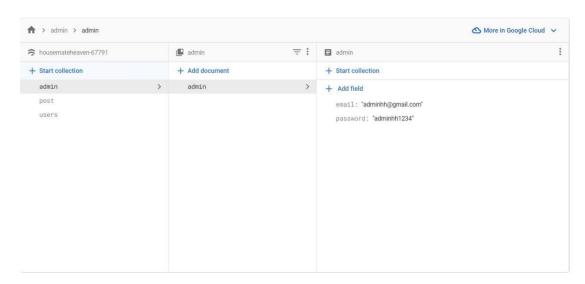
APPENDIX A: GANTT CHART

	FYP1							FYP2																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Initiation																												
Find Project Idea																												
Decide Project Idea																												
Planning																												
Project Proposal																												
Software Test Plan																												
Software Requirement Specification																												
Execution																												
Coding																												
Develop Database																												
Monitoring and Control																												
Monitor Project Progress																												
Prevent Chance for Disruption																												
Closure																												
Project Submitted																												

APPENDIX B: FIREBASE-FIRESTORE







APPENDIX C: CODING

Main.dart import 'package:flutter/material.dart'; import 'package:housemateheaven/auth.dart'; import 'package:housemateheaven/pages student/homepage.dart'; import 'package:housemateheaven/pages studentrent/homepage2.dart'; import 'package:housemateheaven/post model.dart'; import 'package:housemateheaven/role.dart'; import 'login.dart'; import 'onboarding.dart'; import 'pages studentrent/favourite provider.dart'; import 'register.dart'; import 'package:provider/provider.dart'; import 'package:firebase_core/firebase_core.dart'; import 'package:firebase_auth/firebase_auth.dart'; import 'package:cloud firestore/cloud firestore.dart'; void main() async { WidgetsFlutterBinding.ensureInitialized(); await Firebase.initializeApp(); runApp(MultiProvider(providers: [ChangeNotifierProvider(create: () => FavoritePostsProvider()), StreamProvider<List<PostModel>>.value(value: FirebaseFirestore.instance .collection('post') .snapshots() .map((QuerySnapshot snapshot) { return snapshot.docs.map((DocumentSnapshot doc) { return PostModel(

id: doc.id,

house: doc['house'],

```
address: doc['address'],
          amount: doc['amount'],
          money: doc['money'],
          phoneno: doc['phone no'],
          usercaller: doc['user caller'],
          user: doc['user'],
        );
       }).toList();
      }),
      initialData: [], // Provide an empty list as initial data
     ),
   ],
   child: HousemateHeavenApp(),
  ),
 );
}
class HousemateHeavenApp extends StatelessWidget {
 HousemateHeavenApp({Key? key}) : super(key: key);
 @override
 Widget build(BuildContext context) {
  return StreamBuilder<User?>(
   stream: FirebaseAuth.instance.authStateChanges(),
   builder: (context, snapshot) {
     if (snapshot.hasData) {
      final currentUser = snapshot.data;
      return MaterialApp(
       debugShowCheckedModeBanner: false,
       home: Scaffold(
        appBar: AppBar(
          backgroundColor: Colors.black,
        ),
```

```
body: Role(),
       ),
      );
    } else {
      return MaterialApp(
       debugShowCheckedModeBanner: false,
       home: Scaffold(
        appBar: AppBar(
          backgroundColor: Colors.black,
        ),
        body: Auth(),
       ),
      );
    }
   },
  );
}
}
Register.dart
import 'package:firebase core/firebase core.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:flutter/material.dart';
import 'package:housemateheaven/login.dart';
class RegisterPage extends StatefulWidget {
 final VoidCallback showLoginPage;
 const RegisterPage({
  Key? key,
  required this.showLoginPage,
  }) : super(key: key);
```

```
@override
 State<RegisterPage> createState() => RegisterPageState();
}
class RegisterPageState extends State<RegisterPage> {
 final TextEditingController fullnameController = TextEditingController();
 final TextEditingController usernameController = TextEditingController();
 final TextEditingController emailController = TextEditingController();
 final TextEditingController _passwordController = TextEditingController();
 final
            TextEditingController
                                        _confirmpasswordController
                                                                           =
TextEditingController();
 final TextEditingController uninameController = TextEditingController();
 final TextEditingController uniidController = TextEditingController();
 bool isPasswordVisible = false;
 @override
 void dispose(){
  fullnameController.dispose();
  usernameController.dispose();
  emailController.dispose();
  _passwordController.dispose();
  _confirmpasswordController.dispose();
  uninameController.dispose();
  uniidController.dispose();
  super.dispose();
 }
 Future<void> signUp() async {
 try {
  if (passwordConfirmed()) {
   await FirebaseAuth.instance.createUserWithEmailAndPassword(
```

```
email: _emailController.text.trim(),
     password: _passwordController.text.trim(),
   );
   await addUserDetails(
     _fullnameController.text.trim(),
     _usernameController.text.trim(),
     _emailController.text.trim(),
     _passwordController.text.trim(),
     _uninameController.text.trim(),
     _uniidController.text.trim(),
   );
  }
 } catch (e, stackTrace) {
  print('Error during sign up: $e');
  print('Stack trace: $stackTrace');
 }
}
 bool passwordConfirmed(){
  if( passwordController.text.trim() ==
   _confirmpasswordController.text.trim()) {
     return true;
   } else {
     return false;
   }
 }
 Future addUserDetails(String fullName, String username, String email,
String password, String uniName, String uniID) async {
  await FirebaseFirestore.instance.collection('users').add({
   'full name': fullName,
   'username': username,
```

```
'email': email,
  'password': password,
  'university name': uniName,
  'university id': uniID,
 });
}
void togglePasswordVisibility() {
 setState(() {
  _isPasswordVisible = !_isPasswordVisible;
 });
}
@override
Widget build(BuildContext context) {
 return SafeArea(
  child: Scaffold(
  body: SingleChildScrollView(
   child: Container(
     padding: const EdgeInsets.all(30.0),
     child: Column(
      mainAxisAlignment: MainAxisAlignment.spaceEvenly,
      children: [
       Image(image: AssetImage('assests/image/logowhite.jpeg')),
     Form(
      child: Container(
       padding: const EdgeInsets.symmetric(vertical: 20.0),
      child: Column(
       crossAxisAlignment: CrossAxisAlignment.start,
       children: <Widget>[
        TextField(
```

```
controller: _fullnameController,
   decoration: InputDecoration(
    prefixIcon: Icon(Icons.person_outline_outlined),
   labelText: "Full Name",
   hintText: "Full Name",
   border: OutlineInputBorder(),
   ),
  ),
 const SizedBox(height: 30.0),
TextField(
   controller: _usernameController,
   decoration: InputDecoration(
   prefixIcon: Icon(Icons.person_outline_outlined),
   labelText: "Username",
   hintText: "Username",
   border: OutlineInputBorder(),
   ),
  ),
 const SizedBox(height: 30.0),
TextField(
   controller: emailController,
   decoration: InputDecoration(
   prefixIcon: Icon(Icons.email_outlined),
   labelText: "Email",
   hintText: "Email",
   border: OutlineInputBorder(),
   ),
 const SizedBox(height: 30.0),
TextField(
      controller: _passwordController,
      obscureText: !_isPasswordVisible,
      decoration: InputDecoration(
```

```
prefixIcon: Icon(Icons.lock_outline),
       labelText: "Password",
       hintText: "password",
       border: OutlineInputBorder(),
       suffixIcon: IconButton(
         onPressed: togglePasswordVisibility,
         icon: Icon( isPasswordVisible
           ? Icons.visibility
           : Icons.visibility off),
       ),
      ),
 const SizedBox(height: 30.0),
TextField(
      controller: _confirmpasswordController,
      obscureText: !_isPasswordVisible,
      decoration: InputDecoration(
       prefixIcon: Icon(Icons.lock_outline),
       labelText: "Password Confirmation",
       hintText: "Password Confirmation",
       border: OutlineInputBorder(),
       suffixIcon: IconButton(
         onPressed: togglePasswordVisibility,
         icon: Icon(_isPasswordVisible
           ? Icons.visibility
           : Icons.visibility_off),
       ),
      ),
 const SizedBox(height: 30.0),
TextField(
   controller: _uninameController,
   decoration: InputDecoration(
```

```
prefixIcon: Icon(Icons.school_outlined),
   labelText: "University Name",
   hintText: "University Name",
   border: OutlineInputBorder(),
   ),
  ),
 const SizedBox(height: 30.0),
TextField(
   controller: _uniidController,
   decoration: InputDecoration(
   prefixIcon: Icon(Icons.school),
   labelText: "University ID",
   hintText: "University ID",
   border: OutlineInputBorder(),
   ),
  ),
 const SizedBox(height: 30.0),
Container(
 height: 40,
 child: Material(
  borderRadius: BorderRadius.circular(20),
  shadowColor: Colors.black,
  color: Colors.black,
  elevation: 7,
  child: GestureDetector(
   onTap: signUp,
   child: Center(
     child: Text(
      'SIGN UP',
      style: TextStyle(
       color: Colors.white,
       fontWeight: FontWeight.bold,
       fontFamily: 'Montserrat'
```

```
),
            ),
           ),
        const SizedBox(height: 10.0),
       Row(
        mainAxisAlignment: MainAxisAlignment.center,
        children: <Widget>[
          InkWell(
           onTap: widget.showLoginPage,
           child: Text(
            'Return to Login Page',
            style: TextStyle(
              color: Colors.black,
             fontFamily: 'Montserrat',
             fontWeight: FontWeight.bold
            ),
        ],
       )
      ],
     ),
     ),
    )
  ],
);
```

```
}
}
Login.dart
import 'package:firebase auth/firebase auth.dart';
import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'package:housemateheaven/forgetpassword.dart';
import 'package:housemateheaven/pages student/homepage.dart';
import 'package:housemateheaven/register.dart';
import 'package:housemateheaven/role.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:firebase auth/firebase auth.dart';
import 'package:cloud firestore/cloud firestore.dart';
import 'pages admin/admin page.dart';
class LoginPage extends StatefulWidget {
 final VoidCallback showRegisterPage;
 const LoginPage({Key? key, required this.showRegisterPage}) : super(key:
key);
 @override
 State<LoginPage> createState() => LoginPageState();
}
class _LoginPageState extends State<LoginPage> {
 final emailController = TextEditingController();
 final passwordController = TextEditingController();
 bool isPasswordVisible = false;
 bool isAdmin = false;
 static const String defaultAdminEmail = "adminhh@gmail.com";
```

```
static const String defaultAdminPassword = "adminhh1234";
@override
void dispose() {
 _emailController.dispose();
 _passwordController.dispose();
 super.dispose();
}
void togglePasswordVisibility() {
 setState(() {
  _isPasswordVisible = !_isPasswordVisible;
});
}
Future<void> checkIfUserIsAdmin(User user) async {
 try {
  DocumentSnapshot adminSnapshot = await FirebaseFirestore.instance
     .collection('admin')
     .doc('admin')
     .get();
  if (adminSnapshot.exists) {
   String adminEmail = adminSnapshot['email'];
   setState(() {
     _isAdmin = user.email == adminEmail;
   });
  }
 } catch (e) {
  print('Error checking if user is admin: $e');
 }
```

}

```
Future<void> signIn() async {
  try {
   final email = _emailController.text.trim();
   final password = passwordController.text.trim();
   if (email == defaultAdminEmail && password == defaultAdminPassword)
{
    setState(() {
      _isAdmin = true;
    });
   } else {
     UserCredential userCredential =
       await FirebaseAuth.instance.signInWithEmailAndPassword(
      email: email,
      password: password,
     );
     checkIfUserIsAdmin(userCredential.user!);
   }
   if (_isAdmin) {
     // Redirect the admin user to a specific page
     Navigator.pushReplacement(
      context,
      MaterialPageRoute(builder: (context) => Admin()),
     );
   } else {
     // Redirect regular users to a different page
     Navigator.pushReplacement(
      context,
      MaterialPageRoute(builder: (context) => Role()),
     );
```

```
}
 } catch (e) {
  // Handle login errors
  print('Error logging in: $e');
}
void navigateToRegisterPage() {
 // Call the callback function to navigate to the register page
 widget.showRegisterPage();
}
@override
Widget build(BuildContext context) {
 return SafeArea(
  child: Scaffold(
   body: SingleChildScrollView(
     child: Container(
      padding: const EdgeInsets.all(30.0),
      child: Column(
       mainAxisAlignment: MainAxisAlignment.spaceEvenly,
       children: [
        Image(image: AssetImage('assests/image/logowhite.jpeg')),
        Form(
          child: Container(
           padding: const EdgeInsets.symmetric(vertical: 20.0),
           child: Column(
            crossAxisAlignment: CrossAxisAlignment.start,
            children: [
              TextField(
               controller: _emailController,
               decoration: InputDecoration(
                prefixIcon: Icon(Icons.email_outlined),
```

```
labelText: "Email",
  hintText: "Email",
  border: OutlineInputBorder(),
 ),
),
const SizedBox(height: 30.0),
TextField(
 controller: _passwordController,
 obscureText: !_isPasswordVisible,
 decoration: InputDecoration(
  prefixIcon: Icon(Icons.lock_outline),
  labelText: "Password",
  hintText: "password",
  border: OutlineInputBorder(),
  suffixIcon: IconButton(
   onPressed: togglePasswordVisibility,
   icon: Icon(_isPasswordVisible
      ? Icons.visibility
      : Icons.visibility_off),
  ),
 ),
),
const SizedBox(height: 10.0),
Align(
 alignment: Alignment.centerRight,
 child: TextButton(
  onPressed: () {
   Navigator.push(
     context,
     MaterialPageRoute(
      builder: (context) => const ForgetPassword(),
    ),
   );
```

```
},
  child: Text(
   'Forgot Password?',
   style: TextStyle(
     fontSize: 16,
    fontWeight: FontWeight.bold,
   ),
  ),
 ),
Container(
 height: 40,
 child: Material(
  borderRadius: BorderRadius.circular(20),
  shadowColor: Colors.black,
  color: Colors.black,
  elevation: 7,
  child: GestureDetector(
   onTap: signIn,
   child: Center(
     child: Text(
      'LOGIN',
      style: TextStyle(
         color: Colors.white,
        fontWeight: FontWeight.bold,
        fontFamily: 'Montserrat'),
     ),
 ),
const SizedBox(height: 10.0),
Row(
```

```
mainAxisAlignment: MainAxisAlignment.center,
                children: <Widget>[
                 InkWell(
                  onTap: navigateToRegisterPage,
                  child: Text(
                    'Register',
                    style: TextStyle(
                      color: Colors.black,
                      fontFamily: 'Montserrat',
                      fontWeight: FontWeight.bold),
                  ),
                 )
                ],
             ],
            ),
        ],
    ),
   ),
  );
 }
}
Role.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/pages_student/homepage.dart';
import 'package:housemateheaven/pages_studentrent/homepage2.dart';
import 'package:housemateheaven/widget/navdrawer2.dart';
import 'widget/navdrawer.dart';
```

```
class Role extends StatefulWidget {
 const Role({Key? key}) : super(key: key);
 @override
 State <Role> createState() => RoleState();
}
class RoleState extends State <Role> {
 @override
 Widget build(BuildContext context) {
  var height = MediaQuery.of(context).size.height;
  return Scaffold(
   body: Container(
    padding: EdgeInsets.all(30.0),
    child: Column(
      mainAxisAlignment: MainAxisAlignment.spaceEvenly,
      children: [
       Image(image: AssetImage('assests/image/logowhite.jpeg'), height:
height * 0.3),
       Column(
        children: [
         Text(
           "Welcome to HousemateHeaven Application",
           style: Theme.of(context).textTheme.headline4,
         ),
         Text(
           "Please Choose Your Role for Us to Determine Which Functionlity
You Want To Use",
           style: Theme.of(context).textTheme.bodyText1,
         ),
        1,
       ),
```

```
Row(
         children: [
          Expanded(
           child: ElevatedButton(
            onPressed: (){
            Navigator.push(
            context,
            MaterialPageRoute(builder: (context) => const HomePage()),);
            },
            child: Text('Find Housemate')
           ),
          ),
          const SizedBox(width: 10.0,),
          Expanded(
           child: ElevatedButton(
            onPressed: (){
            Navigator.push(
            context,
            MaterialPageRoute(builder: (context) => const HomePage2()),);
            },
            child: Text('Looking For A House To Share')
           ),
          ),
        ],
       ),
      ],
     ),
    ),
  );
}
}
```

User.dart

```
import 'package:flutter/material.dart';
import 'package:housemateheaven/pages student/homepage.dart';
import 'package:housemateheaven/pages_studentrent/homepage2.dart';
import 'package:housemateheaven/widget/navdrawer2.dart';
import 'widget/navdrawer.dart';
class Role extends StatefulWidget {
 const Role({Key? key}) : super(key: key);
 @override
 State <Role> createState() => RoleState();
}
class RoleState extends State <Role> {
 @override
 Widget build(BuildContext context) {
  var height = MediaQuery.of(context).size.height;
  return Scaffold(
   body: Container(
    padding: EdgeInsets.all(30.0),
    child: Column(
      mainAxisAlignment: MainAxisAlignment.spaceEvenly,
      children: [
       Image(image: AssetImage('assests/image/logowhite.ipeg'),
                                                                    height:
height * 0.3),
       Column(
        children: [
         Text(
           "Welcome to HousemateHeaven Application",
           style: Theme.of(context).textTheme.headline4,
         ),
```

```
Text(
           "Please Choose Your Role for Us to Determine Which Functionlity
You Want To Use",
           style: Theme.of(context).textTheme.bodyText1,
         ),
        1,
       ),
       Row(
        children: [
         Expanded(
           child: ElevatedButton(
            onPressed: (){
            Navigator.push(
            context,
            MaterialPageRoute(builder: (context) => const HomePage()),);
            },
            child: Text('Find Housemate')
           ),
         ),
         const SizedBox(width: 10.0,),
         Expanded(
           child: ElevatedButton(
            onPressed: (){
            Navigator.push(
            context,
            MaterialPageRoute(builder: (context) => const HomePage2()),);
            },
            child: Text('Looking For A House To Share')
           ),
         ),
        1,
       ),
      ],
```

```
),
   ),
  );
 }
User model.dart
import 'package:cloud_firestore/cloud_firestore.dart';
class UserModel {
 final String? id;
 final String email;
 final String fullName;
 final String password;
 final String uniName;
 final String uniID;
 final String username;
 const UserModel({
  this.id,
  required this.email,
  required this.fullName,
  required this.password,
  required this.uniName,
  required this.uniID,
  required this.username,
 });
 toJson() {
  return {"email": email, "full name": fullName, "password": password,
"university name": uniName, "university id": uniID, "username": username};
 }
```

```
//map user fetch from firebase to usermodel
 UserModel? _userFromFirebaseSnapshot(DocumentSnapshot? snapshot) {
 if (snapshot == null || !snapshot.exists) {
  return null;
 }
 final data = snapshot.data() as Map<String, dynamic>;
 return UserModel(
  id: snapshot.id,
  email: data['email'] ?? ",
  fullName: data['full name'] ?? ",
  password: data['password'] ?? ",
  uniName: data['university name'] ?? ",
  uniID: data['university id'] ?? ",
  username: data['username'] ?? ",
 );
 }
}
Text box.dart
import 'package:flutter/material.dart';
class MyTextBox extends StatelessWidget {
 final String text;
 final String sectionName;
 final void Function()? onPressed;
 const MyTextBox({
  required this.text,
  required this.sectionName,
```

```
required this.onPressed,
});
@override
Widget build(BuildContext context) {
 return Container(
  decoration: BoxDecoration(
   color: Colors.grey[200],
   borderRadius: BorderRadius.circular(8),
  ),
  padding: const EdgeInsets.only(left: 15, bottom: 15),
  margin: const EdgeInsets.only(left: 20, right: 20, top: 20),
  child: Column(
   crossAxisAlignment: CrossAxisAlignment.start,
   children: [
     Row(
      mainAxisAlignment: MainAxisAlignment.spaceBetween,
      children: [
       //sectionname
       Text(
        sectionName,
        style: TextStyle(color: Colors.grey[500]),
       ),
       IconButton(
        onPressed: onPressed,
        icon: Icon(
          Icons.settings,
          color: Colors.grey[400],
         ),
       ),
      ],
     ),
```

```
//text
      Text(text),
     ],
    ),
  );
 }
}
Post_model.dart
import 'pages_student/post.dart';
import 'package:flutter/material.dart';
class PostModel {
 final String id;
 final String house;
 final String address;
 final String amount;
 final String money;
 final String phoneno;
 final String usercaller;
 final String user;
 PostModel({
  required this.id,
  required this.house,
  required this.address,
  required this.amount,
  required this.money,
  required this.phoneno,
  required this.usercaller,
  required this.user,
 });
}
```

```
Generated plugin registered.dart
import 'package:cloud firestore web/cloud firestore web.dart';
import 'package:firebase_auth_web/firebase_auth_web.dart';
import 'package:firebase core web/firebase core web.dart';
import 'package:flutter web plugins/flutter web plugins.dart';
// ignore: public member api docs
void registerPlugins(Registrar registrar) {
 FirebaseFirestoreWeb.registerWith(registrar);
 FirebaseAuthWeb.registerWith(registrar);
 FirebaseCoreWeb.registerWith(registrar);
 registrar.registerMessageHandler();
}
Forgetpassword.dart
import 'package:flutter/material.dart';
import 'package:firebase core/firebase core.dart';
import 'package:firebase auth/firebase auth.dart';
import 'package:cloud firestore/cloud firestore.dart';
import 'package:housemateheaven/login.dart';
import 'package:get/get.dart';
class ForgetPassword extends StatefulWidget {
 const ForgetPassword({super.key});
 @override
 State<ForgetPassword> createState() => _ForgetPasswordState();
}
class ForgetPasswordState extends State<ForgetPassword> {
```

```
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   backgroundColor: Colors.black,
   title: Text('Forget Password'),
  ),
  body: SingleChildScrollView(
   padding: EdgeInsets.all(16),
   child: Column(
     children: [
      Container(
       alignment: Alignment.center,
       height: 250.0,
       child: Image.asset('assests/image/logowhite.jpeg'),
      ),
      SizedBox(height: 10.0),
      Container(
       margin: EdgeInsets.symmetric(horizontal: 30.0),
       child: TextFormField(
        controller: forgetPasswordController,
        decoration: InputDecoration(
          prefixIcon: Icon(Icons.email),
          hintText: 'Email',
          enabledBorder: OutlineInputBorder(),
        ),
       ),
      SizedBox(height: 10.0),
      ElevatedButton(
       onPressed: () async {
```

```
var forgotEmail = forgetPasswordController.text.trim();
          try {
           FirebaseAuth.instance
              .sendPasswordResetEmail(email: forgotEmail)
              .then((value) => {
                  print("Email Sent"),
                  Navigator.push(
                   context,
                   MaterialPageRoute(
                    builder: (context) => LoginPage(showRegisterPage: ()
{ },),
                   ),
                  ),
                });
          } on FirebaseAuthException catch (e) {
           print("Error $e");
          }
         },
         child: Text("Forgot Password"),
       ),
      ],
     ),
    ),
  );
 }
}
Authentication repository.dart
import 'package:firebase core/firebase core.dart';
import 'package:firebase auth/firebase auth.dart';
import 'package:cloud firestore/cloud firestore.dart';
import 'package:flutter/material.dart';
```

```
import 'package:housemateheaven/auth.dart';
import 'package:housemateheaven/login.dart';
import 'package:get/get.dart';
import 'package:housemateheaven/role.dart';
class AuthenticationRepository extends GetxController {
 static AuthenticationRepository get instance => Get.find();
 //variables
 final _auth = FirebaseAuth.instance;
 late final Rx<User?> firebaseUser;
 @override
 void onReady(){
  firebaseUser = Rx<User?>( auth.currentUser);
  firebaseUser.bindStream(_auth.userChanges());
  ever(firebaseUser, setInitialScreen);
}
 _setInitialScreen(User? user) {
  user == null ? Get.offAll(() => const Auth()) : Get.offAll(() => const Role());
}
 Future<void>
                 createUserWithEmailAndPassword(String
                                                             email,
                                                                      String
password) async {
  try{
   await _auth.createUserWithEmailAndPassword(email: email, password:
password);
  } on FirebaseAuthException catch(e){
  } catch (_){}
```

```
}
 Future<void> loginWithEmailAndPassword(String email, String password)
async {
  try{
           auth.signInWithEmailAndPassword(email: email,
                                                                password:
password);
  } on FirebaseAuthException catch(e){
   } catch (_){}
 }
 Future<void> logout() async => await _auth.signOut();
}
Auth.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/login.dart';
import 'package:housemateheaven/register.dart';
class Auth extends StatefulWidget {
 const Auth({Key? key}) : super(key: key);
 @override
 State<Auth> createState() => _AuthState();
}
class _AuthState extends State<Auth> {
 bool showLoginPage = true;
 void toggleScreens(){
  setState(() {
   showLoginPage =! showLoginPage;
```

```
});
 }
 @override
 Widget build(BuildContext context) {
 if (showLoginPage){
  return LoginPage(showRegisterPage: toggleScreens);
 } else {
  return RegisterPage(showLoginPage: toggleScreens);
 }
 }
}
Navdrawer admin.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/login.dart';
import 'package:housemateheaven/main.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud_firestore/cloud_firestore.dart';
import '../pages_admin/admin_page.dart';
class NavDrawerAdmin extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return Drawer(
   child: ListView(
    padding: EdgeInsets.zero,
    children: <Widget>[
      DrawerHeader(
       child: Text(
```

```
'Menu',
         style: TextStyle(color: Colors.white, fontSize: 25),
       ),
       decoration: BoxDecoration(
         color: Colors.black,
       ),
      ),
      ListTile(
       leading: Icon(Icons.home),
       title: Text('Adjust'),
       onTap: () {
        // Open home page
         Navigator.push(
          context,
          MaterialPageRoute(
           builder: (context) => const Admin(),
          ),
         );
       },
      ),
      ListTile(
       leading: lcon(lcons.exit_to_app),
       title: Text('Logout'),
       onTap: () {
         FirebaseAuth.instance.signOut().then((value) {
          Navigator.pushAndRemoveUntil(
           context,
           MaterialPageRoute(builder:
                                                      (context)
                                                                             =>
LoginPage(showRegisterPage: () { },)),
           (Route<dynamic> route) => false,
          );
         }).catchError((error) {
          print('Logout error: $error');
```

```
});
       },
      ),
    ],
}
Navdrawer.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/login.dart';
import 'package:housemateheaven/main.dart';
import 'package:housemateheaven/pages_student/homepage.dart';
import 'package:housemateheaven/pages_student/shootout.dart';
import 'package:housemateheaven/pages_student/studentprofile.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud firestore/cloud firestore.dart';
class NavDrawer extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return Drawer(
   child: ListView(
     padding: EdgeInsets.zero,
     children: <Widget>[
      DrawerHeader(
       child: Text(
        'Menu',
        style: TextStyle(color: Colors.white, fontSize: 25),
       ),
```

```
decoration: BoxDecoration(
   color: Colors.black,
   ),
),
ListTile(
 leading: lcon(lcons.home),
 title: Text('Homepage'),
 onTap: () {
      //Open home page
      Navigator.push(
       context,
       MaterialPageRoute(
         builder: (context) => const HomePage(),
       ),
      );
     },
),
ListTile(
 leading: Icon(Icons.campaign),
 title: Text('ShootOut'),
 onTap: () {
      //Open shootout
      Navigator.push(
       context,
       MaterialPageRoute(
         builder: (context) => ShootOut(),
       ),
      );
     },
),
ListTile(
 leading: lcon(lcons.verified_user),
 title: Text('Profile'),
```

```
onTap: () {
            //Open profile page
             Navigator.push(
              context,
              MaterialPageRoute(
               builder: (context) => const StudentProfile(),
             ),
            );
           },
      ),
      ListTile(
       leading: Icon(Icons.exit_to_app),
       title: Text('Logout'),
       onTap: () {
         FirebaseAuth.instance.signOut().then((value) {
          Navigator.pushAndRemoveUntil(
           context,
           MaterialPageRoute(builder:
                                                      (context)
                                                                             =>
LoginPage(showRegisterPage: () { },)),
           (Route<dynamic> route) => false,
          );
        }).catchError((error) {
          print('Logout error: $error');
        });
       },
      ),
     ],
  );
```

Navdrawer2.dart

```
import 'package:flutter/material.dart';
import 'package:housemateheaven/login.dart';
import 'package:housemateheaven/main.dart';
import 'package:housemateheaven/pages studentrent/favourite.dart';
import 'package:firebase core/firebase core.dart';
import 'package:firebase auth/firebase auth.dart';
import 'package:cloud firestore/cloud firestore.dart';
import 'package:housemateheaven/pages studentrent/homepage2.dart';
import 'package:housemateheaven/pages studentrent/search2.dart';
import 'package:housemateheaven/pages_studentrent/shootout2.dart';
import 'package:housemateheaven/pages studentrent/studentprofile2.dart';
class NavDrawer2 extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return Drawer(
   child: ListView(
    padding: EdgeInsets.zero,
    children: <Widget>[
      DrawerHeader(
       child: Text(
        'Menu',
        style: TextStyle(color: Colors.white, fontSize: 25),
       ),
       decoration: BoxDecoration(
         color: Colors.black,
         ),
      ),
      ListTile(
       leading: Icon(Icons.home),
       title: Text('Homepage'),
       onTap: () {
```

```
//Open home page
      Navigator.push(
       context,
        MaterialPageRoute(
         builder: (context) => const HomePage2(),
       ),
      );
     },
),
ListTile(
 leading: lcon(lcons.campaign),
 title: Text('ShootOut'),
 onTap: () {
      //Open shootout
      Navigator.push(
       context,
        MaterialPageRoute(
         builder: (context) => ShootOut2(),
       ),
      );
     },
),
ListTile(
 leading: Icon(Icons.search),
 title: Text('Search'),
 onTap: () {
      //Open search page
      Navigator.push(
       context,
       MaterialPageRoute(
         builder: (context) => const Search2(),
       ),
      );
```

```
},
),
ListTile(
 leading: Icon(Icons.bookmark),
 title: Text('Favourite'),
 onTap: () {
      //Open bookmark
      Navigator.push(
        context,
        MaterialPageRoute(
         builder: (context) => const Favourite(favoritePosts: [],),
        ),
      );
     },
),
ListTile(
 leading: lcon(lcons.verified_user),
 title: Text('Profile'),
 onTap: () {
      //Open profile page
      Navigator.push(
        context,
        MaterialPageRoute(
         builder: (context) => const StudentProfile2(),
        ),
      );
     },
),
ListTile(
 leading: lcon(lcons.exit_to_app),
 title: Text('Logout'),
 onTap: () {
  FirebaseAuth.instance.signOut().then((value) {
```

```
Navigator.pushAndRemoveUntil(
           context,
           MaterialPageRoute(builder:
                                                   (context)
                                                                         =>
LoginPage(showRegisterPage: () { },)),
           (Route<dynamic> route) => false,
          );
        }).catchError((error) {
          print('Logout error: $error');
        });
       },
      ),
    ],
  );
 }
}
Admin editpost.dart
import 'package:flutter/material.dart';
import 'package:cloud firestore/cloud firestore.dart';
class EditPostPage extends StatefulWidget {
 final DocumentSnapshot postSnapshot;
 const EditPostPage({Key? key, required this.postSnapshot}) : super(key:
key);
 @override
 EditPostPageState createState() => EditPostPageState();
}
class EditPostPageState extends State<EditPostPage> {
 TextEditingController houseController = TextEditingController();
```

```
TextEditingController addressController = TextEditingController();
TextEditingController amountController = TextEditingController();
TextEditingController moneyController = TextEditingController();
TextEditingController usercallerController = TextEditingController();
@override
void initState() {
 super.initState();
 // Initialize the text controllers with the existing post data
 _houseController.text = widget.postSnapshot['house'];
 _addressController.text = widget.postSnapshot['address'];
 _amountController.text = widget.postSnapshot['amount'];
 _moneyController.text = widget.postSnapshot['money'];
 usercallerController.text = widget.postSnapshot['user caller'];
}
@override
void dispose() {
 // Dispose the text controllers
 houseController.dispose();
 _addressController.dispose();
 _amountController.dispose();
 _moneyController.dispose();
 _usercallerController.dispose();
 super.dispose();
}
void saveChanges() {
 // Get the updated values from the text controllers
 String updatedHouse = houseController.text;
 String updatedAddress = addressController.text;
 String updatedAmount = amountController.text;
```

```
String updatedMoney = _moneyController.text;
 String updatedusercaller = usercallerController.text;
 // Update the post data in the Firestore database
 String postId = widget.postSnapshot.id;
 FirebaseFirestore.instance
   .collection('post')
   .doc(postId)
   .update({
  'house': updatedHouse,
  'address': updatedAddress,
  'amount': updatedAmount,
  'money': updatedMoney,
  'usercaller':updatedusercaller,
 }).then((_) {
  print('Post updated successfully');
  // Show a success message or navigate back to the previous screen
 }).catchError((error) {
  print('Error updating post: $error');
  // Show an error message or handle the error appropriately
 });
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   backgroundColor: Colors.black,
   title: Text('Edit Post'),
  body: SingleChildScrollView(
   child: Container(
     padding: const EdgeInsets.all(16.0),
```

```
child: Column(
 crossAxisAlignment: CrossAxisAlignment.start,
 children: [
  Text('House:'),
  TextField(
   controller: _houseController,
  ),
  SizedBox(height: 16.0),
  Text('Address:'),
  TextField(
   controller: _addressController,
  ),
  SizedBox(height: 16.0),
  Text('Amount Housemate Needed:'),
  TextField(
   controller: _amountController,
  ),
  SizedBox(height: 16.0),
  Text('Posted by:'),
  TextField(
   controller: _usercallerController,
  ),
  SizedBox(height: 16.0),
  Text('Expected Rental Amount(RM):'),
  TextField(
   controller: _moneyController,
  ),
  SizedBox(height: 16.0),
  ElevatedButton(
   onPressed: _saveChanges,
   child: Text('Save Changes'),
  ),
 ],
```

```
),
    ),
  );
Admin edituser.dart
import 'package:flutter/material.dart';
import 'package:cloud_firestore/cloud_firestore.dart';
class EditUserPage extends StatefulWidget {
 final DocumentSnapshot userSnapshot;
 const EditUserPage({Key? key, required this.userSnapshot}) : super(key:
key);
 @override
 EditUserPageState createState() => EditUserPageState();
}
class EditUserPageState extends State<EditUserPage> {
 TextEditingController _emailController = TextEditingController();
 TextEditingController _usernameController = TextEditingController();
 TextEditingController _fullNameController = TextEditingController();
 TextEditingController _passwordController = TextEditingController();
 TextEditingController _uniNameController = TextEditingController();
 TextEditingController uniIDController = TextEditingController();
 @override
 void initState() {
  super.initState();
  // Initialize the text controllers with the current user information
```

```
_emailController.text = widget.userSnapshot['email'];
 _usernameController.text = widget.userSnapshot['username'];
 _fullNameController.text = widget.userSnapshot['full name'];
 _passwordController.text = widget.userSnapshot['password'];
 _uniNameController.text = widget.userSnapshot['university name'];
 uniIDController.text = widget.userSnapshot['university id'];
}
@override
void dispose() {
 _emailController.dispose();
 _usernameController.dispose();
 _fullNameController.dispose();
 _passwordController.dispose();
 _uniNameController.dispose();
 _uniIDController.dispose();
 super.dispose();
}
void updateUser() {
 // Get the updated values from the text controllers
 String updatedEmail = _emailController.text.trim();
 String updatedUsername = _usernameController.text.trim();
 String updatedFullName = fullNameController.text.trim();
 String updatedPassword = _passwordController.text.trim();
 String updatedUniName = uniNameController.text.trim();
 String updatedUniID = uniIDController.text.trim();
 // Update the user document in Firestore
 FirebaseFirestore.instance
   .collection('users')
   .doc(widget.userSnapshot.id)
   .update({
```

```
'email': updatedEmail,
  'username': updatedUsername,
  'full name': updatedFullName,
  'password': updatedPassword,
  'university name': updatedUniName,
  'university id': updatedUniID,
 }).then((value) {
  // Show a success message or navigate back to the previous screen
  print('User updated successfully');
  Navigator.pop(context); // Navigate back to the previous screen
 }).catchError((error) {
  // Show an error message
  print('Error updating user: $error');
 });
}
@override
Widget build(BuildContext context) {
return Scaffold(
 appBar: AppBar(
  backgroundColor: Colors.black,
  title: Text('Edit User'),
 ),
 body: Padding(
  padding: const EdgeInsets.all(16.0),
  child: SingleChildScrollView(
   child: Column(
     children: [
      TextField(
       controller: _emailController,
       decoration: InputDecoration(labelText: 'Email'),
      ),
      TextField(
```

```
controller: _usernameController,
       decoration: InputDecoration(labelText: 'Username'),
      ),
      TextField(
       controller: _fullNameController,
       decoration: InputDecoration(labelText: 'Full Name'),
      ),
      TextField(
       controller: _passwordController,
       decoration: InputDecoration(labelText: 'Password'),
      ),
      TextField(
       controller: _uniNameController,
       decoration: InputDecoration(labelText: 'University Name'),
      ),
      TextField(
       controller: _uniIDController,
       decoration: InputDecoration(labelText: 'University ID'),
      ),
      SizedBox(height: 16.0),
      ElevatedButton(
       onPressed: _updateUser,
       child: Text('Update User'),
      ),
    ],
);
```

Admin page.dart

```
import 'package:flutter/material.dart';
import 'package:housemateheaven/widget/navdrawer admin.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:firebase auth/firebase auth.dart';
import 'package:cloud firestore/cloud firestore.dart';
import 'admin editpost.dart';
import 'admin edituser.dart';
enum SearchCategory {
 Post,
 User,
}
class Admin extends StatefulWidget {
 const Admin({Key? key}) : super(key: key);
 @override
 State<Admin> createState() => AdminState();
}
class _AdminState extends State<Admin> {
 final TextEditingController _searchController = TextEditingController();
 List<DocumentSnapshot> _searchResults = [];
 SearchCategory _selectedCategory = SearchCategory.Post;
 void _performSearch(String query) {
  String startRange = query;
  String endRange = query + '\uf8ff';
  CollectionReference collection;
  if ( selectedCategory == SearchCategory.Post) {
   collection = FirebaseFirestore.instance.collection('post');
```

```
collection
    .where('house', isGreaterThanOrEqualTo: startRange)
    .where('house', isLessThan: endRange)
    .get()
    .then((QuerySnapshot snapshot) {
  setState(() {
   _searchResults = snapshot.docs;
  });
 }).catchError((error) {
  print('Error performing search: $error');
 });
 } else {
  collection = FirebaseFirestore.instance.collection('users');
  collection
    .where('email', isGreaterThanOrEqualTo: startRange)
    .where('email', isLessThan: endRange)
    .get()
    .then((QuerySnapshot snapshot) {
  setState(() {
   _searchResults = snapshot.docs;
  });
 }).catchError((error) {
  print('Error performing search: $error');
 });
 }
}
void deletePost(DocumentSnapshot postSnapshot) {
 String postId = postSnapshot.id;
```

```
FirebaseFirestore.instance
    .collection('post')
    .doc(postId)
    .delete()
    .then((value) {
  print('Post deleted successfully');
  setState(() {
   _searchResults.remove(postSnapshot);
  });
 }).catchError((error) {
  print('Error deleting post: $error');
 });
}
void _deleteUser(DocumentSnapshot userSnapshot) {
 String userId = userSnapshot.id;
 FirebaseFirestore.instance
    .collection('users')
    .doc(userId)
    .delete()
    .then((value) {
  print('User deleted successfully');
  setState(() {
   _searchResults.remove(userSnapshot);
  });
 }).catchError((error) {
  print('Error deleting user: $error');
 });
}
void _editPost(DocumentSnapshot postSnapshot) {
```

```
Navigator.push(
 context,
 MaterialPageRoute(
  builder: (context) => EditPostPage(postSnapshot: postSnapshot),
 ),
);
}
void editUser(DocumentSnapshot userSnapshot) {
 Navigator.push(
 context,
 MaterialPageRoute(
  builder: (context) => EditUserPage(userSnapshot: userSnapshot),
 ),
);
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  drawer: NavDrawerAdmin(),
  appBar: AppBar(
   backgroundColor: Colors.black,
   title: Text('Adjust'),
  ),
  body: Column(
   children: [
    Row(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
       Radio<SearchCategory>(
        value: SearchCategory.Post,
        groupValue: _selectedCategory,
```

```
onChanged: (SearchCategory? value) {
           setState(() {
            _selectedCategory = value!;
          });
         },
        ),
        Text('Post'),
        Radio<SearchCategory>(
         value: SearchCategory.User,
         groupValue: _selectedCategory,
         onChanged: (SearchCategory? value) {
           setState(() {
            _selectedCategory = value!;
          });
         },
        ),
        Text('User'),
       ],
      ),
      TextField(
       controller: _searchController,
       decoration: InputDecoration(
        hintText: 'Enter house or user name based on what you choose
above',
       ),
      ),
      ElevatedButton(
       onPressed: () {
        String searchQuery = _searchController.text;
        _performSearch(searchQuery);
       },
       child: Text('Search'),
      ),
```

```
Expanded(
 child: ListView.builder(
  itemCount: searchResults.length,
  itemBuilder: (context, index) {
   DocumentSnapshot snapshot = _searchResults[index];
   if ( selectedCategory == SearchCategory.Post) {
    // Display post data in a Card
    String house = snapshot['house'];
    String address = snapshot['address'];
    String amount = snapshot['amount'];
    String money = snapshot['money'];
    String phoneno = snapshot['phone no'];
    String usercaller = snapshot['user caller'];
    return Card(
     child: ListTile(
       title: Text(house),
       subtitle: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
         Text('Address: $address'),
         Text('Amount Housemate Needed: $amount'),
         Text('Expected Rental Amount(RM): $money'),
         Text('Posted by: $usercaller'),
         Text('Phone Number: $phoneno'),
        ],
       ),
       trailing: Row(
        mainAxisSize: MainAxisSize.min,
        children: [
         IconButton(
           onPressed: () => _editPost(snapshot),
```

```
icon: Icon(Icons.edit),
      ),
      IconButton(
       onPressed: () => _deletePost(snapshot),
       icon: Icon(Icons.delete),
      ),
     ],
   ),
  ),
 );
} else {
 // Display user data in a Card
 String email = snapshot['email'];
 String username = snapshot['username'];
 String fullName = snapshot['full name'];
 String password = snapshot['password'];
 String uniName = snapshot['university name'];
 String uniID = snapshot['university id'];
 return Card(
  child: ListTile(
   title: Text(email),
   subtitle: Column(
     crossAxisAlignment: CrossAxisAlignment.start,
     children: [
      Text('Username: $username'),
      Text('Full Name: $fullName'),
      Text('Password: $password'),
      Text('University Name: $uniName'),
      Text('University ID: $uniID'),
     ],
    ),
   trailing: Row(
```

```
children: [
                IconButton(
                  onPressed: () => _editUser(snapshot),
                  icon: lcon(lcons.edit),
                ),
                IconButton(
                 onPressed: () => _deleteUser(snapshot),
                 icon: Icon(Icons.delete),
                ),
               ],
              ),
           );
          }
        },
       ),
      ),
     ],
}
Edit post.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/pages_student/post.dart';
import 'package:housemateheaven/post_model.dart';
import 'package:provider/provider.dart';
import 'package:housemateheaven/pages_student/list.dart';
class EditPost extends StatefulWidget {
 final String postld;
```

mainAxisSize: MainAxisSize.min,

```
EditPost({required this.postId});
 @override
 _EditPostState createState() => _EditPostState();
}
class EditPostState extends State<EditPost> {
 PostService postService = PostService();
 TextEditingController _houseController = TextEditingController();
 TextEditingController _addressController = TextEditingController();
 TextEditingController _amountController = TextEditingController();
 TextEditingController _moneyController = TextEditingController();
 TextEditingController _phonenoController = TextEditingController();
 TextEditingController usercallerController = TextEditingController();
 @override
 void initState() {
  super.initState();
  // Fetch the post details using the postId
  fetchPostDetails();
 }
 Future<void> _fetchPostDetails() async {
  try {
   PostModel post = await _postService.getPostByld(widget.postId);
   if (post != null) {
     // Set the fetched post details to the respective text controllers
     houseController.text = post.house;
     _addressController.text = post.address;
     _amountController.text = post.amount;
     _moneyController.text = post.money;
     phonenoController.text = post.phoneno;
```

```
_usercallerController.text = post.usercaller;
   }
  } catch (e) {
   print('Error fetching post details: $e');
 }
 Future<void> updatePost() async {
  try {
   // Retrieve the updated values from the text controllers
   String updatedHouse = _houseController.text;
   String updatedAddress = _addressController.text;
   String updatedAmount = _amountController.text;
   String updatedMoney = _moneyController.text;
   String updatedphoneno = phonenoController.text;
   String updatedusercaller = usercallerController.text;
   // Call the post service to update the post
   await
               postService.updatePost(widget.postId,
                                                            updatedHouse,
updatedAddress,
                    updatedAmount,
                                       updatedMoney,
                                                          updatedphoneno,
updatedusercaller);
   // Show a success message or perform any necessary actions after
updating the post
   ScaffoldMessenger.of(context).showSnackBar(
    SnackBar(
     content: Text('Post updated successfully.'),
     backgroundColor: Colors.green,
    ),
   );
   // Navigate back to the previous screen
   Navigator.pop(context);
```

```
} catch (e) {
  // Handle any error that occurred during the update process
  print('Error updating post: $e');
  // Show an error message or perform any necessary error handling
 }
}
@override
void dispose() {
 _houseController.dispose();
 _addressController.dispose();
 _amountController.dispose();
 _moneyController.dispose();
 _phonenoController.dispose();
 _usercallerController.dispose();
 super.dispose();
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   backgroundColor: Colors.black,
   title: Text('Edit Post'),
  ),
  body: Padding(
   padding: EdgeInsets.all(16),
   child: Column(
     children: [
      TextField(
       controller: houseController,
       decoration: InputDecoration(labelText: 'House'),
      ),
```

```
TextField(
        controller: _addressController,
        decoration: InputDecoration(labelText: 'Address'),
       ),
       TextField(
        controller: _amountController,
        decoration:
                       InputDecoration(labelText:
                                                                  Housemate
                                                      'Amount
Needed'),
       ),
       TextField(
        controller: _moneyController,
                         InputDecoration(labelText:
                                                         'Expected
        decoration:
                                                                        Rental
Amount(RM)'),
       ),
       TextField(
        controller: _usercallerController,
        decoration: InputDecoration(labelText: 'Posted by'),
       ),
       TextField(
        controller: _phonenoController,
        decoration: InputDecoration(labelText: 'Phone Number'),
       ),
       SizedBox(height: 16),
       ElevatedButton(
        onPressed: _updatePost,
        child: Text('Update Post'),
       ),
      ],
  );
```

```
Homepage.dart
import 'package:flutter/material.dart';
import 'package:introduction_screen/introduction_screen.dart';
import '../widget/navdrawer.dart';
class HomePage extends StatefulWidget {
 const HomePage({
  Key? key,
 }) : super(key: key);
 @override
 _HomePageState createState() => _HomePageState();
}
class _HomePageState extends State<HomePage> {
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   drawer: NavDrawer(),
   appBar: AppBar(
    backgroundColor: Colors.black,
    title: Text('HousemateHeaven'),
   ),
   body: PageView(
    children: [
      Center(
       child: Container(
        child: Column(
         mainAxisAlignment: MainAxisAlignment.center,
         children: [
           Image.asset('assests/image/logowhite.jpeg'),
           SizedBox(height: 40),
```

```
Text(
      'Welcome to HousemateHeaven',
      style: TextStyle(
       color: Colors.black,
       fontSize: 20,
       fontWeight: FontWeight.bold,
      ),
      textAlign: TextAlign.center,
     ),
     Text(
      'This is a tutorial if you selected Find Housemate role.',
      style: TextStyle(
       color: Colors.black,
       fontSize: 16,
      ),
      textAlign: TextAlign.center,
     ),
     SizedBox(height: 10),
     Text(
      'Swipe right for more.',
      style: TextStyle(
       color: Colors.black,
       fontSize: 16,
       fontWeight: FontWeight.bold,
      ),
      textAlign: TextAlign.center,
     ),
   ],
  ),
 ),
Center(
 child: Container(
```

```
child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
           Image.asset('assests/image/sections.jpeg'),
           SizedBox(height: 20),
           Text(
            'There are four sections and you need to press section that you
want to use.',
            style: TextStyle(
              color: Colors.black,
              fontSize: 16,
            ),
            textAlign: TextAlign.center,
            SizedBox(height: 10),
           Text(
            'Swipe right for more.',
            style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
            ),
            textAlign: TextAlign.center,
           ),
          ],
        ),
       ),
      Center(
       child: Container(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
```

```
Text(
            'ShootOut:',
            style: TextStyle(
              color: Colors.black,
              fontSize: 16,
             fontWeight: FontWeight.bold,
            ),
            textAlign: TextAlign.center,
           ),
           SizedBox(height: 40),
           Image.asset('assests/image/shootout.jpeg'),
           SizedBox(height: 40),
           Text(
            'In the shootout section, you can create a form that can be
viewed by other users. You can create a form by clicking the add button
located in the middle of the page. After creating a form, you can view, edit or
delete it in this section',
            style: TextStyle(
              color: Colors.black,
              fontSize: 16,
            ),
            textAlign: TextAlign.center,
           ),
           SizedBox(height: 10),
           Text(
            'Swipe right for more.',
            style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
            ),
            textAlign: TextAlign.center,
           ),
```

```
],
         ),
       ),
      ),
      Center(
       child: Container(
         child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
           Text(
            'Profile:',
            style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
            ),
            textAlign: TextAlign.center,
           ),
           SizedBox(height: 40),
           Image.asset('assests/image/profile.jpeg'),
           SizedBox(height: 40),
           Text(
            'In the profile section, you can view details that you registered
earlier. You can also edit any detail that you want',
            style: TextStyle(
              color: Colors.black,
              fontSize: 16,
            textAlign: TextAlign.center,
           SizedBox(height: 10),
           Text(
             'Swipe right for more.',
```

```
style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
             ),
            textAlign: TextAlign.center,
           ),
          ],
        ),
       ),
      ),
      Center(
       child: Container(
         child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
           Text(
            'Logout:',
            style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
            ),
            textAlign: TextAlign.center,
           ),
           SizedBox(height: 40),
           Image.asset('assests/image/logout.jpeg'),
           SizedBox(height: 40),
           Text(
            'In the logout section, you can logout from the application by
pressing it.',
            style: TextStyle(
              color: Colors.black,
```

```
fontSize: 16,
             ),
            textAlign: TextAlign.center,
           ),
           SizedBox(height: 10),
           Text(
            'That is all for tutorial on how to use the application. Hope you
will have a great time with HousemateHeaven!!!',
             style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
             ),
            textAlign: TextAlign.center,
           ),
          ],
         ),
       ),
     ],
  );
 }
}
List.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/pages_student/edit_post.dart';
import 'package:housemateheaven/pages_student/post.dart';
import 'package:housemateheaven/post model.dart';
import 'package:provider/provider.dart';
import '../user.dart';
```

```
import '../user_model.dart';
class ListPost extends StatefulWidget {
 const ListPost({Key? key}) : super(key: key);
 @override
 State<ListPost> createState() => ListPostState();
}
class _ListPostState extends State<ListPost> {
 PostService _postService = PostService();
 UserService _userService = UserService();
 Future<void> _deletePost(String postId) async {
  try {
    await _postService.deletePost(postId);
    ScaffoldMessenger.of(context).showSnackBar(
     SnackBar(
      content: Text('Post deleted successfully.'),
      backgroundColor: Colors.green,
     ),
    );
    // Refresh the list of posts
    setState(() {});
  } catch (e) {
    print('Error deleting post: $e');
    ScaffoldMessenger.of(context).showSnackBar(
     SnackBar(
      content: Text('Error deleting post. Please try again.'),
      backgroundColor: Colors.red,
     ),
    );
```

```
}
 }
 void _editPost(String postId) {
  Navigator.push(
   context,
   MaterialPageRoute(
     builder: (context) => EditPost(postId: postId),
   ),
  );
 }
 @override
 Widget build(BuildContext context) {
  return Consumer<List<PostModel>>(
   builder: (context, posts, _) {
     return ListView.builder(
      itemCount: posts.length,
      itemBuilder: (context, index) {
       final post = posts[index];
       return StreamBuilder<UserModel>(
        stream: _userService.getUserInfo(post.user),
        builder:
                   (BuildContext
                                     context,
                                                AsyncSnapshot<UserModel>
snapshot) {
          if (!snapshot.hasData) {
           return Center(child: CircularProgressIndicator());
          final userModel = snapshot.data!;
          return Padding(
           padding: EdgeInsets.symmetric(horizontal: 16, vertical: 8),
           child: Card(
            elevation: 2,
            child: ListTile(
```

```
contentPadding: EdgeInsets.symmetric(vertical: 12, horizontal:
16),
              title: Text(
               post.house,
               style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold),
              ),
              subtitle: Column(
               crossAxisAlignment: CrossAxisAlignment.start,
               children: [
                SizedBox(height: 8),
                Text(
                 'Address: ${post.address}',
                 style: TextStyle(fontSize: 14),
                ),
                SizedBox(height: 4),
                Text(
                 'Housemate Needed: ${post.amount}',
                 style: TextStyle(fontSize: 14),
                ),
                SizedBox(height: 4),
                Text(
                 'Expected Rental Amount(RM): ${post.money}',
                 style: TextStyle(fontSize: 14),
                ),
                SizedBox(height: 4),
                Text(
                 'Posted by: ${post.usercaller}',
                 style: TextStyle(fontSize: 14),
                SizedBox(height: 4),
                Text(
                 'Phone Number: ${post.phoneno}',
                 style: TextStyle(fontSize: 14),
```

```
),
                ],
               ),
               trailing: Row(
                mainAxisSize: MainAxisSize.min,
                children: [
                 IconButton(
                  icon: lcon(lcons.edit),
                  onPressed: () {
                    _editPost(post.id);
                  },
                 ),
                 IconButton(
                  icon: Icon(Icons.delete),
                  onPressed: () {
                    _deletePost(post.id);
                  },
                 ),
                ],
               ),
          );
         },
        );
      },
     );
   },
  );
}
```

Post.dart

```
import 'package:cloud firestore/cloud firestore.dart';
import 'package:firebase core/firebase core.dart';
import 'package:firebase auth/firebase auth.dart';
import 'package:housemateheaven/post model.dart';
import 'package:housemateheaven/user model.dart';
class PostService {
 List<PostModel> postListFromSnapshot(QuerySnapshot snapshot) {
  return snapshot.docs.map((doc) {
   return PostModel(
    id: doc.id,
    house: doc['house'] ?? ",
    address: doc['address'] ?? ",
    amount: doc['amount'] ?? ",
    money: doc['money'] ?? ",
    phoneno: doc['phone no']??",
    usercaller: doc['user caller'] ?? ",
    user: doc['user'] ?? ",
   );
  }).toList();
 }
 Future<void> savePost(String house, String address, String amount, String
money, String phoneno, String usercaller) async {
  User? currentUser = FirebaseAuth.instance.currentUser;
  if (currentUser != null) {
   // Get the current user's UID
   String uid = currentUser.uid;
   await FirebaseFirestore.instance.collection("post").add({
    'house': house.
    'address': address.
    'amount': amount,
```

```
'money': money,
    'phone no': phoneno,
    'user caller': usercaller,
    'user': uid, // Set the user field to the current user's UID
   });
  }
 }
 Stream<List<PostModel>> getPostsByUser(String uid) {
  return FirebaseFirestore.instance
     .collection("post")
     .where('user', isEqualTo: uid)
     .snapshots()
     .map( postListFromSnapshot);
 }
 Future<PostModel> getPostById(String postId) async {
  DocumentSnapshot
                                   snapshot
                                                                         await
FirebaseFirestore.instance.collection('post').doc(postId).get();
  return PostModel(
   id: snapshot.id,
   house: snapshot['house'] ?? ",
   address: snapshot['address'] ?? ",
   amount: snapshot['amount'] ?? ",
   money: snapshot['money'] ?? ",
   phoneno: snapshot['phone no'] ?? ",
   usercaller: snapshot['user caller'] ?? ",
   user: snapshot['user'] ?? ",
  );
 }
```

Future<void> updatePost(String postId, String house, String address, String

```
amount, String money, String phoneno, String usercaller) async {
  await FirebaseFirestore.instance.collection('post').doc(postId).update({
   'house': house,
   'address': address,
   'amount': amount,
   'money': money,
   'phoneno': phoneno,
   'user caller': usercaller,
  });
 }
 Future<void> deletePost(String postId) async {
  await FirebaseFirestore.instance.collection('post').doc(postId).delete();
 }
}
Rentalform.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/pages student/shootout.dart';
import 'package:housemateheaven/pages student/post.dart';
class RentalForm extends StatefulWidget {
 const RentalForm({Key? key}) : super(key: key);
 @override
 State<RentalForm> createState() => _RentalFormState();
}
class RentalFormState extends State<RentalForm>{
 final PostService postService = PostService();
 String house = ";
```

```
String address = ";
 String amount = ";
 String money = ";
 String phoneno = ";
 String usercaller = ";
         houseController,
                                addressController,
                                                          amountController,
 var
_moneyController, _phonenoController, _usercallerController;
 void _updateText(){
 }
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    backgroundColor: Colors.black,
    title: const Text("Rental Form"),
    centerTitle: true,
   ),
   body: Container(
    padding: EdgeInsets.all(20.0),
    child: ListView(
      children: [
       TextFormField(
        onChanged: (val) {
          setState(() {
           house = val;
         });
        },
        controller: _houseController,
```

```
decoration: InputDecoration(
  labelText: 'House',
  prefixIcon: Icon(Icons.house_outlined),
  border: OutlineInputBorder(),
 ),
),
const SizedBox(height: 20.0),
TextFormField(
 onChanged: (val) {
  setState(() {
   address = val;
  });
 },
 controller: _addressController,
 decoration: InputDecoration(
  labelText: 'Address',
  prefixIcon: Icon(Icons.house),
  border: OutlineInputBorder(),
 ),
),
const SizedBox(height: 20.0),
TextFormField(
 onChanged: (val) {
  setState(() {
   amount = val;
  });
 },
 controller: _amountController,
 decoration: InputDecoration(
  labelText: 'Amount Housemate Needed',
  prefixIcon: Icon(Icons.supervised_user_circle),
  border: OutlineInputBorder(),
 ),
```

```
),
const SizedBox(height: 20.0),
TextFormField(
 onChanged: (val) {
  setState(() {
   money = val;
  });
 },
 controller: _moneyController,
 decoration: InputDecoration(
  labelText: 'Rental Amount for Each Person(RM)',
  prefixIcon: Icon(Icons.attach_money),
  border: OutlineInputBorder(),
 ),
),
const SizedBox(height: 20.0),
TextFormField(
 onChanged: (val) {
  setState(() {
   usercaller = val;
  });
 },
 controller: _usercallerController,
 decoration: InputDecoration(
  labelText: 'Posted by',
  prefixIcon: Icon(Icons.verified_user_outlined),
  border: OutlineInputBorder(),
 ),
),
const SizedBox(height: 20.0),
TextFormField(
 onChanged: (val) {
  setState(() {
```

```
phoneno = val;
         });
        },
        controller: _phonenoController,
        decoration: InputDecoration(
         labelText: 'Phone Number',
          prefixIcon: Icon(Icons.contact_phone_outlined),
         border: OutlineInputBorder(),
        ),
       ),
       SizedBox(height: 40.0,),
       myBtn(context),
      ],
    ),
   )
  );
 OutlinedButton myBtn(BuildContext context) {
  return OutlinedButton(
    style: OutlinedButton.styleFrom(minimumSize: const Size(200, 50)),
    onPressed: (){
      _postService.savePost(house, address, amount, money, phoneno,
usercaller);
      Navigator.push(
       context,
       MaterialPageRoute(builder: (context){
        return ShootOut();
       })
      );
    },
    child: Text(
      "Submit Form".toUpperCase(),
```

```
style: const TextStyle(fontWeight: FontWeight.bold),
    ),
   );
 }
}
Shootout.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/pages student/rentalform.dart';
import 'package:housemateheaven/pages_student/post.dart';
import 'list.dart';
import '../widget/navdrawer.dart';
import 'package:firebase core/firebase core.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud firestore/cloud firestore.dart';
import 'package:provider/provider.dart';
import 'package:flutter/material.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud firestore/cloud firestore.dart';
import 'package:provider/provider.dart';
import 'package:housemateheaven/post model.dart';
class ShootOut extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  final postService = PostService();
  final user = FirebaseAuth.instance.currentUser;
  return StreamProvider<List<PostModel>>.value(
   value: postService.getPostsByUser(user?.uid ?? "),
   initialData: [], // Provide initial empty list
   child: Scaffold(
    drawer: NavDrawer(), // Make sure you have implemented NavDrawer
```

```
correctly
    appBar: AppBar(
      backgroundColor: Colors.black,
      title: Text('ShootOut'),
    ),
    body: Column(
      children: [
       Expanded(
        child: ListPost(),
       ),
     ],
    ),
    floatingActionButton: FloatingActionButton(
      onPressed: () {
       Navigator.push(
        context,
        MaterialPageRoute(builder: (context) {
         return RentalForm();
        }),
       );
      },
      child: lcon(lcons.add),
      backgroundColor: Colors.black,
      foregroundColor: Colors.yellow,
      mini: true,
    ),
    floatingActionButtonLocation:
FloatingActionButtonLocation.centerDocked,
    bottomNavigationBar: BottomAppBar(
      color: Colors.black,
      shape: CircularNotchedRectangle(),
      child: Row(
       mainAxisSize: MainAxisSize.max,
```

```
mainAxisAlignment: MainAxisAlignment.spaceBetween,
       children: <Widget>[
        IconButton(icon: Icon(Icons.menu), onPressed: () {}),
        IconButton(icon: Icon(Icons.search), onPressed: () {}),
       ],
      ),
   ),
  );
 }
}
Studentprofile.dart
import 'package:flutter/material.dart';
import '../widget/navdrawer.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:housemateheaven/text box.dart';
class StudentProfile extends StatefulWidget {
 const StudentProfile({Key? key}) : super(key: key);
 @override
 State<StudentProfile> createState() => _StudentProfileState();
}
class _StudentProfileState extends State<StudentProfile> {
 final currentUser = FirebaseAuth.instance.currentUser;
 final usersCollection = FirebaseFirestore.instance.collection("users");
```

```
Future<void> editField(String field) async {
 String newValue = "";
 await showDialog(
  context: context,
  builder: (context) => AlertDialog(
   backgroundColor: Colors.grey[900],
   title: Text(
     "Edit $field",
     style: const TextStyle(color: Colors.white),
   ),
   content: TextField(
     autofocus: true,
     style: TextStyle(color: Colors.white),
     decoration: InputDecoration(
      hintText: "Enter new $field",
      hintStyle: TextStyle(color: Colors.grey),
     ),
     onChanged: (value) {
      newValue = value;
     },
   ),
   actions: [
     TextButton(
      child: Text(
       "Cancel",
       style: TextStyle(color: Colors.white),
      onPressed: () => Navigator.pop(context),
     TextButton(
      child: Text(
       "Save",
       style: TextStyle(color: Colors.white),
```

```
),
      onPressed: () => Navigator.of(context).pop(newValue),
     ),
   ],
  ),
 );
 if (newValue.trim().length > 0) {
  await usersCollection.doc(currentUser!.uid).update({field: newValue});
 }
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   backgroundColor: Colors.black,
   title: Text('Student Profile'),
  ),
  body: FutureBuilder<DocumentSnapshot>(
   future: usersCollection.doc(currentUser!.uid).get(),
   builder: (context, snapshot) {
     if (snapshot.connectionState == ConnectionState.waiting) {
      return Center(child: CircularProgressIndicator());
     } else if (snapshot.hasError) {
      return Center(child: Text('Error: ${snapshot.error}'));
     }
     else{
     final userData = snapshot.data!.data() as Map<String, dynamic>?;
```

```
return ListView(
 children: [
  const SizedBox(height: 50),
  Icon(
   Icons.person,
   size: 72,
  ),
  Text(
   currentUser?.email ?? 'N/A',
   textAlign: TextAlign.center,
   style: TextStyle(color: Colors.grey[700]),
  ),
  Padding(
   padding: const EdgeInsets.only(left: 25.0),
   child: Text(
     " Details ",
     style: TextStyle(color: Colors.grey[600]),
   ),
  ),
  MyTextBox(
   text: userData?['username'] ?? ",
   sectionName: 'username',
   onPressed: () => editField('username'),
  ),
  MyTextBox(
   text: userData?['full name'] ?? ",
   sectionName: 'full name',
   onPressed: () => editField('full name'),
  ),
  MyTextBox(
   text: userData?['password'] ?? ",
   sectionName: 'password',
   onPressed: () => editField('password'),
```

```
),
         MyTextBox(
          text: userData?['university name'] ?? ",
          sectionName: 'university name',
          onPressed: () => editField('university name'),
         ),
         MyTextBox(
          text: userData?['university id'] ?? ",
          sectionName: 'university id',
          onPressed: () => editField('university id'),
         ),
       ],
      );
      }
     },
    ),
  );
 }
}
Favourite provider.dart
import 'package:flutter/material.dart';
import '../post_model.dart';
class FavoritePostsProvider extends ChangeNotifier {
 List<PostModel> favoritePosts = [];
 List<String> bookmarkedPostIds = [];
  void toggleBookmark(PostModel post) {
  if (bookmarkedPostIds.contains(post.id)) {
    bookmarkedPostIds.remove(post.id);
    favoritePosts.removeWhere((favPost) => favPost.id == post.id);
```

```
} else {
    bookmarkedPostIds.add(post.id);
   favoritePosts.add(post);
  notifyListeners();
 }
 void addFavoritePost(PostModel post) {
  bookmarkedPostIds.add(post.id);
  favoritePosts.add(post);
  notifyListeners();
 }
 void removeFavoritePost(PostModel post) {
  bookmarkedPostIds.remove(post.id);
  favoritePosts.remove(post);
  notifyListeners();
 }
}
Favourite.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/widget/navdrawer2.dart';
import '../post_model.dart';
import '../widget/navdrawer2.dart';
import 'favourite_provider.dart';
import 'package:provider/provider.dart';
class Favourite extends StatelessWidget {
 const Favourite({Key? key, required List favoritePosts}) : super(key: key);
 @override
```

```
Widget build(BuildContext context) {
 final favoritePostsProvider = Provider.of<FavoritePostsProvider>(context);
 final favoritePosts = favoritePostsProvider.favoritePosts;
 return Scaffold(
  drawer: NavDrawer2(),
  appBar: AppBar(
   backgroundColor: Colors.black,
   title: Text('Favourite'),
  ),
  body: ListView.builder(
   itemCount: favoritePosts.length,
   itemBuilder: (context, index) {
    final post = favoritePosts[index];
     return Padding(
      padding: EdgeInsets.symmetric(horizontal: 16, vertical: 8),
      child: Card(
       elevation: 2,
       child: ListTile(
         contentPadding: EdgeInsets.symmetric(vertical: 12, horizontal: 16),
        title: Text(
          post.house,
          style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold),
         ),
         subtitle: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
          SizedBox(height: 8),
          Text(
           'Address: ${post.address}',
           style: TextStyle(fontSize: 14),
          ),
```

```
SizedBox(height: 4),
           Text(
            'Amount Housemate Needed: ${post.amount}',
            style: TextStyle(fontSize: 14),
           ),
           SizedBox(height: 4),
           Text(
            'Expected Rental Amount(RM): ${post.money}',
            style: TextStyle(fontSize: 14),
           ),
            SizedBox(height: 4),
           Text(
            'Posted by: ${post.usercaller}',
            style: TextStyle(fontSize: 14),
           ),
            SizedBox(height: 4),
           Text(
            'Phone Number: ${post.phoneno}',
            style: TextStyle(fontSize: 14),
           ),
          ],
          ),
         ),
       ),
      );
     },
  );
}
```

Homepage2.dart

import 'package:flutter/material.dart';

```
import 'package:introduction_screen/introduction_screen.dart';
import '../widget/navdrawer2.dart';
class HomePage2 extends StatefulWidget {
 const HomePage2({
  Key? key,
 }) : super(key: key);
 @override
 _HomePage2State createState() => _HomePage2State();
}
class _HomePage2State extends State<HomePage2> {
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   drawer: NavDrawer2(),
   appBar: AppBar(
    backgroundColor: Colors.black,
    title: Text('HousemateHeaven'),
   ),
   body: PageView(
    children: [
      Center(
       child: Container(
        child: Column(
         mainAxisAlignment: MainAxisAlignment.center,
         children: [
           Image.asset('assests/image/logowhite.jpeg'),
           SizedBox(height: 40),
           Text(
            'Welcome to HousemateHeaven',
            style: TextStyle(
```

```
color: Colors.black,
              fontSize: 20,
              fontWeight: FontWeight.bold,
             ),
            textAlign: TextAlign.center,
           ),
           Text(
             'This is a tutorial if you selected Looking For A House To Share
role.',
             style: TextStyle(
              color: Colors.black,
              fontSize: 16,
             ),
            textAlign: TextAlign.center,
           ),
           SizedBox(height: 10),
           Text(
             'Swipe right for more.',
             style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
             ),
            textAlign: TextAlign.center,
           ),
          ],
         ),
       ),
      ),
      Center(
       child: Container(
         child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
```

```
children: [
           Image.asset('assests/image/sections2.jpeg'),
           SizedBox(height: 20),
           Text(
             'There are six sections and you need to press section that you
want to use.',
             style: TextStyle(
              color: Colors.black,
              fontSize: 16,
             ),
            textAlign: TextAlign.center,
            SizedBox(height: 10),
           Text(
             'Swipe right for more.',
             style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
             ),
            textAlign: TextAlign.center,
           ),
          ],
        ),
       ),
      ),
      Center(
       child: Container(
         child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
           Text(
             'ShootOut:',
```

```
style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
             ),
            textAlign: TextAlign.center,
           ),
           SizedBox(height: 40),
           Image.asset('assests/image/shootout.jpeg'),
           SizedBox(height: 40),
           Text(
            'In the shootout section, you can view form that created by other
users. You also can bookmark form that you want here.',
             style: TextStyle(
              color: Colors.black,
              fontSize: 16,
            ),
            textAlign: TextAlign.center,
           ),
           SizedBox(height: 10),
           Text(
            'Swipe right for more.',
            style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
             ),
            textAlign: TextAlign.center,
           ),
          1,
         ),
       ),
      ),
```

```
Center(
       child: Container(
         child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
           Text(
            'Search:',
            style: TextStyle(
              color: Colors.black,
             fontSize: 16,
              fontWeight: FontWeight.bold,
            ),
            textAlign: TextAlign.center,
           ),
           SizedBox(height: 40),
           Image.asset('assests/image/search.jpeg'),
           SizedBox(height: 40),
           Text(
            'In the search section, you can search for form that created by
other users.'.
            style: TextStyle(
              color: Colors.black,
             fontSize: 16,
            ),
            textAlign: TextAlign.center,
           ),
           SizedBox(height: 10),
           Text(
            'Swipe right for more.',
            style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
```

```
),
            textAlign: TextAlign.center,
           ),
          ],
       ),
      ),
      Center(
       child: Container(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
           Text(
            'Favourite:',
            style: TextStyle(
              color: Colors.black,
              fontSize: 16,
             fontWeight: FontWeight.bold,
            ),
            textAlign: TextAlign.center,
           ),
           SizedBox(height: 40),
           Image.asset('assests/image/favourite.jpeg'),
           SizedBox(height: 40),
           Text(
            'In the favourite section, you can view form that has been
bookmarked from shootout section.',
            style: TextStyle(
              color: Colors.black,
             fontSize: 16,
            ),
            textAlign: TextAlign.center,
           ),
```

```
SizedBox(height: 10),
     Text(
      'Swipe right for more.',
      style: TextStyle(
       color: Colors.black,
       fontSize: 16,
       fontWeight: FontWeight.bold,
      ),
      textAlign: TextAlign.center,
     ),
   ],
  ),
 ),
),
Center(
 child: Container(
  child: Column(
   mainAxisAlignment: MainAxisAlignment.center,
   children: [
     Text(
      'Profile:',
      style: TextStyle(
       color: Colors.black,
       fontSize: 16,
       fontWeight: FontWeight.bold,
      ),
      textAlign: TextAlign.center,
     ),
     SizedBox(height: 40),
     Image.asset('assests/image/profile.jpeg'),
     SizedBox(height: 40),
     Text(
      'In the profile section, you can view details that you registered
```

```
earlier. You can also edit any detail that you want',
             style: TextStyle(
              color: Colors.black,
              fontSize: 16,
             ),
             textAlign: TextAlign.center,
            ),
           SizedBox(height: 10),
            Text(
             'Swipe right for more.',
             style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
             ),
             textAlign: TextAlign.center,
           ),
          ],
         ),
        ),
      Center(
        child: Container(
         child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
           Text(
             'Logout:',
             style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
             ),
```

```
textAlign: TextAlign.center,
           ),
           SizedBox(height: 40),
           Image.asset('assests/image/logout.jpeg'),
           SizedBox(height: 40),
           Text(
             'In the logout section, you can logout from the application by
pressing it.',
             style: TextStyle(
              color: Colors.black,
              fontSize: 16,
             ),
             textAlign: TextAlign.center,
           SizedBox(height: 10),
           Text(
             'That is all for tutorial on how to use the application. Hope you
will have a great time with HousemateHeaven!!!',
             style: TextStyle(
              color: Colors.black,
              fontSize: 16,
              fontWeight: FontWeight.bold,
             ),
             textAlign: TextAlign.center,
           ),
          ],
         ),
       ),
      ),
     ],
    ),
  );
```

```
}
List2.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/pages student/edit post.dart';
import 'package:housemateheaven/pages studentrent/post2.dart';
import 'package:housemateheaven/pages studentrent/post details.dart';
import 'package:housemateheaven/pages student/post.dart';
import 'package:housemateheaven/post model.dart';
import 'package:provider/provider.dart';
import 'favourite_provider.dart';
class ListPost2 extends StatefulWidget {
 const ListPost2({Key? key}) : super(key: key);
 @override
 State<ListPost2> createState() => ListPostState();
}
class ListPostState extends State<ListPost2> {
 PostService2 _postService = PostService2();
 List<String> bookmarkedPostIds = []; // List to store the IDs of bookmarked
posts
 @override
 Widget build(BuildContext context) {
  final posts = Provider.of<List<PostModel>>(context);
  final favoritePostsProvider = Provider.of<FavoritePostsProvider>(context);
  bookmarkedPostIds = favoritePostsProvider.bookmarkedPostIds;
  return ListView.builder(
```

```
itemCount: posts.length,
   itemBuilder: (context, index) {
     final post = posts[index];
     final isBookmarked = bookmarkedPostIds.contains(post.id); // Check if
the post is bookmarked
     return Padding(
      padding: EdgeInsets.symmetric(horizontal: 16, vertical: 8),
      child: Card(
       elevation: 2,
       child: ListTile(
         contentPadding: EdgeInsets.symmetric(vertical: 12, horizontal: 16),
        title: Text(
          post.house,
          style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold),
        ),
        subtitle: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
           SizedBox(height: 8),
           Text(
            'Address: ${post.address}',
            style: TextStyle(fontSize: 14),
           ),
           SizedBox(height: 4),
           Text(
            'Amount Housemate Needed: ${post.amount}',
            style: TextStyle(fontSize: 14),
           SizedBox(height: 4),
           Text(
            'Expected Rental Amount(RM): ${post.money}',
            style: TextStyle(fontSize: 14),
```

```
),
           SizedBox(height: 4),
          Text(
           'Posted by: ${post.usercaller}',
           style: TextStyle(fontSize: 14),
          ),
          SizedBox(height: 4),
          Text(
           'Phone Number: ${post.phoneno}',
           style: TextStyle(fontSize: 14),
          ),
         ],
       ),
       trailing: Row(
         mainAxisSize: MainAxisSize.min,
         children: [
          IconButton(
           icon: Icon(
             isBookmarked? Icons.bookmark : Icons.bookmark_border,
             color: isBookmarked? Colors.orange: null,
           ),
           onPressed: () {
            favoritePostsProvider.toggleBookmark(post);
           },
          ),
         ],
       ),
     ),
   );
  },
 );
}
```

```
}
Post details.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/post model.dart';
class PostDetails extends StatelessWidget {
 final PostModel post;
 const PostDetails({Key? key, required this.post}) : super(key: key);
 @override
 Widget build(BuildContext context) {
  // Implement the UI for displaying the post details
   return Scaffold(
    appBar: AppBar(
     title: Text('Post Details'),
    ),
    body: Center(
     child: Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
        Text('Post ID: ${post.id}'),
        Text('House: ${post.house}'),
        Text('Address: ${post.address}'),
        Text('Amount: ${post.amount}'),
        Text('Money: ${post.money}'),
        Text('Phone Number: ${post.phoneno}'),
        Text('Name: ${post.usercaller}'),
      ],
     ),
```

),

);

```
}
}
Post2.dart
import 'package:cloud firestore/cloud firestore.dart';
import 'package:firebase core/firebase core.dart';
import 'package:firebase auth/firebase auth.dart';
import 'package:housemateheaven/post model.dart';
class PostService2 {
 List<PostModel> _postListFromSnapshot(QuerySnapshot snapshot) {
  return snapshot.docs.map((doc) {
   return PostModel(
    id: doc.id,
    house: doc['house'] ?? ",
    address: doc['address'] ?? ",
    amount: doc['amount'] ?? ",
    money: doc['money'] ?? ",
    phoneno: doc['phone no'] ?? ",
    usercaller: doc['user caller'] ?? ",
    user: doc['user'] ?? ",
   );
  }).toList();
 }
 Future<void> savePost(String house, String address, String amount, String
money, String phoneno, String usercaller) async {
 User? currentUser = FirebaseAuth.instance.currentUser;
 if (currentUser != null) {
  // Get the current user's UID
  String uid = currentUser.uid;
  // Create a new document reference in the "post" collection
```

```
DocumentReference
                                              postRef
FirebaseFirestore.instance.collection("post").doc();
  // Create a new document reference in the "users" collection with the same
ID as the post
  DocumentReference
                                              userRef
                                                                             =
FirebaseFirestore.instance.collection("users").doc(postRef.id);
  // Batch write to update both collections atomically
  WriteBatch batch = FirebaseFirestore.instance.batch();
  // Set the user document with the post ID
  batch.set(userRef, {});
  // Set the post document with the user ID
  batch.set(postRef, {
   'house': house,
   'address': address.
   'amount': amount,
   'money': money,
   'phone no': phoneno,
   'user caller': usercaller,
   'user': uid,
  });
  // Commit the batch write
  await batch.commit();
 }
}
 Stream<List<PostModel>> getPostsByUser(String uid) {
  return FirebaseFirestore.instance
     .collection("post")
```

```
.snapshots()
     .map(_postListFromSnapshot);
 }
 Future<PostModel> getPostById(String postId) async {
  DocumentSnapshot
                                   snapshot
                                                                        await
FirebaseFirestore.instance.collection('post').doc(postId).get();
  return PostModel(
   id: snapshot.id,
   house: snapshot['house'] ?? ",
   address: snapshot['address'] ?? ",
   amount: snapshot['amount'] ?? ",
   money: snapshot['money'] ?? ",
   phoneno: snapshot['phone no'] ?? ",
   usercaller: snapshot['user caller'] ?? ",
   user: snapshot['user'] ?? ",
  );
 }
}
Search2.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/widget/navdrawer2.dart';
import '../widget/navdrawer.dart';
import 'package:firebase core/firebase core.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud firestore/cloud firestore.dart';
class Search2 extends StatefulWidget {
 const Search2({Key? key}) : super(key: key);
 @override
```

```
State<Search2> createState() => _Search2State();
}
class _Search2State extends State<Search2> {
 final TextEditingController _searchController = TextEditingController();
 List<DocumentSnapshot> _searchResults = [];
 void _performSearch(String query) {
  String startRange = query;
  String endRange = query + '\uf8ff';
  FirebaseFirestore.instance
     .collection('post')
     .where('house', isGreaterThanOrEqualTo: startRange)
     .where('house', isLessThan: endRange)
     .get()
     .then((QuerySnapshot snapshot) {
   setState(() {
     _searchResults = snapshot.docs;
   });
  }).catchError((error) {
   print('Error performing search: $error');
  });
 }
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   drawer: NavDrawer2(),
   appBar: AppBar(
    backgroundColor: Colors.black,
    title: Text('Search'),
   ),
```

```
body: Column(
 children: [
  TextField(
   controller: _searchController,
   decoration: InputDecoration(
    hintText: 'Enter house name',
   ),
  ),
  ElevatedButton(
   onPressed: () {
    String searchQuery = _searchController.text;
    _performSearch(searchQuery);
   },
   child: Text('Search'),
  ),
  Expanded(
   child: ListView.builder(
    itemCount: _searchResults.length,
    itemBuilder: (context, index) {
      DocumentSnapshot postSnapshot = searchResults[index];
      // Extract post data from the snapshot
      String house = postSnapshot['house'];
      String address = postSnapshot['address'];
      String amount = postSnapshot['amount'];
      String money = postSnapshot['money'];
      String phoneno = postSnapshot['phone no'];
      String usercaller = postSnapshot['user caller'];
      // Display the post data in a Card
      return Card(
       child: ListTile(
        title: Text(house),
```

```
subtitle: Column(
             crossAxisAlignment: CrossAxisAlignment.start,
              children: [
               Text('Address: $address'),
               Text('Amount Housemate Needed: $amount'),
               Text('Expected Rental Amount(RM): $money'),
               Text('Posted by: $usercaller'),
               Text('Phone Number: $phoneno'),
             ],
            ),
           ),
          );
        },
       ),
      ),
    ],
   ),
  );
 }
}
```

Shootout2.dart

```
import 'package:flutter/material.dart';
import 'package:housemateheaven/pages_student/rentalform.dart';
import 'package:housemateheaven/pages_studentrent/list2.dart';
import 'package:housemateheaven/pages_studentrent/post2.dart';
import 'package:housemateheaven/pages_student/post.dart';
import 'package:housemateheaven/widget/navdrawer2.dart';
import '../pages_student/list.dart';
import '../widget/navdrawer.dart';
import 'package:firebase_core/firebase_core.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud firestore/cloud firestore.dart';
```

```
import 'package:provider/provider.dart';
import 'package:flutter/material.dart';
import 'package:firebase auth/firebase auth.dart';
import 'package:cloud firestore/cloud firestore.dart';
import 'package:provider/provider.dart';
import 'package:housemateheaven/post model.dart';
class ShootOut2 extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  final postService = PostService2();
  return StreamProvider<List<PostModel>>.value(
   value:
postService.getPostsByUser(FirebaseAuth.instance.currentUser?.uid ?? "),
   initialData: [],
   child: Scaffold(
    drawer: NavDrawer2(), // Make sure you have implemented NavDrawer
correctly
    appBar: AppBar(
      backgroundColor: Colors.black,
      title: Text('ShootOut'),
    ),
    body: Column(
      children: [
       Expanded(
        child: ListPost2(),
       ),
      ],
    floatingActionButtonLocation:
FloatingActionButtonLocation.centerDocked,
     bottomNavigationBar: BottomAppBar(
```

```
color: Colors.black,
      shape: CircularNotchedRectangle(),
      child: Row(
       mainAxisSize: MainAxisSize.max,
       mainAxisAlignment: MainAxisAlignment.spaceBetween,
       children: <Widget>[
        IconButton(icon: Icon(Icons.menu), onPressed: () {}),
        IconButton(icon: Icon(Icons.search), onPressed: () {}),
       ],
      ),
}
Studentprofile2.dart
import 'package:flutter/material.dart';
import 'package:housemateheaven/text box.dart';
import 'package:housemateheaven/widget/navdrawer2.dart';
import 'package:firebase core/firebase core.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:cloud_firestore/cloud_firestore.dart';
class StudentProfile2 extends StatefulWidget {
 const StudentProfile2({Key? key}) : super(key: key);
 @override
 State<StudentProfile2> createState() => _StudentProfile2State();
}
class StudentProfile2State extends State<StudentProfile2> {
 final currentUser = FirebaseAuth.instance.currentUser;
```

```
final usersCollection = FirebaseFirestore.instance.collection("users");
String username = ";
String fullName = ";
String password = ";
String universityName = ";
String universityId = ";
@override
void initState() {
 super.initState();
 fetchData();
}
Future<void> fetchData() async {
 final snapshot = await usersCollection.doc(currentUser!.uid).get();
 final userData = snapshot.data() as Map<String, dynamic>?;
 if (userData != null) {
  setState(() {
   username = userData['username'] ?? ";
   fullName = userData['full name'] ?? ";
   password = userData['password'] ?? ";
   universityName = userData['university name'] ?? ";
   universityId = userData['university id'] ?? ";
  });
 }
}
Future<void> editField(String field) async {
 String newValue = "";
 await showDialog(
  context: context,
```

```
builder: (context) => AlertDialog(
 backgroundColor: Colors.grey[900],
 title: Text(
  "Edit $field",
  style: const TextStyle(color: Colors.white),
 ),
 content: TextField(
  autofocus: true,
  style: TextStyle(color: Colors.white),
  decoration: InputDecoration(
   hintText: "Enter new $field",
   hintStyle: TextStyle(color: Colors.grey),
  ),
  onChanged: (value) {
   newValue = value;
  },
 ),
 actions: [
  TextButton(
   child: Text(
     "Cancel",
     style: TextStyle(color: Colors.white),
   ),
   onPressed: () => Navigator.pop(context),
  ),
  TextButton(
   child: Text(
     "Save",
     style: TextStyle(color: Colors.white),
   ),
   onPressed: () => Navigator.of(context).pop(newValue),
  ),
 ],
```

```
),
 );
 if (newValue.trim().length > 0) {
  await usersCollection.doc(currentUser!.uid).update({field: newValue});
 }
}
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   backgroundColor: Colors.black,
   title: Text('Student Profile'),
  ),
  body: FutureBuilder<DocumentSnapshot>(
   future: usersCollection.doc(currentUser!.uid).get(),
   builder: (context, snapshot) {
     if (snapshot.connectionState == ConnectionState.waiting) {
      return Center(child: CircularProgressIndicator());
     } else if (snapshot.hasError) {
      return Center(child: Text('Error: ${snapshot.error}'));
     }
     else{
     final userData = snapshot.data!.data() as Map<String, dynamic>?;
 return ListView(
  children: [
   const SizedBox(height: 50),
       Icon(
        Icons.person,
        size: 72,
```

```
),
   Text(
     currentUser?.email ?? 'N/A',
     textAlign: TextAlign.center,
     style: TextStyle(color: Colors.grey[700]),
   ),
   Padding(
     padding: const EdgeInsets.only(left: 25.0),
     child: Text(
      " Details ",
      style: TextStyle(color: Colors.grey[600]),
     ),
   ),
MyTextBox(
 text: username,
 sectionName: 'username',
 onPressed: () => editField('username'),
),
MyTextBox(
 text: fullName,
 sectionName: 'full name',
 onPressed: () => editField('full name'),
),
MyTextBox(
 text: password,
 sectionName: 'password',
 onPressed: () => editField('password'),
),
MyTextBox(
 text: universityName,
 sectionName: 'university name',
 onPressed: () => editField('university name'),
```

```
),
    MyTextBox(
    text: universityId,
    sectionName: 'university id',
    onPressed: () => editField('university id'),
    ),
    ),
    );
    }
},
),
);
}
```