#### 1. Overview

This document will serve as a summary of Lab 2. The summary includes the expected deliverables of the lab, as well as the detailed write-up of the respective deliverables.

# 2. Deliverables

The following defines the deliverables to be submitted to the Lab TA prior to Lab 3:

- 2.1 Refine Use Case Models
- 2.2 Build the Conceptual Model
- 2.3 Build the Dynamic Model

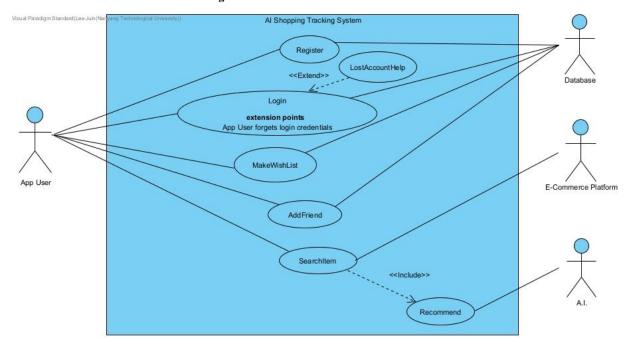
#### 3. Refined Use Case Models

The preliminary Use Case Diagram produced in Lab 1 is revised according to the feedbacks given.

#### 3.1 Feedbacks

The preliminary Use Case Diagram is cluttered with many intersecting lines between use cases. The overall functionality of the system judged based on the Use Case Diagram and Use Case Description is decent, though further features may be added.

#### 3.2 Refined Use Case Diagram



# 4. Refined Use Case Descriptions

The initial Use Case Descriptions produced in Lab 1 is revised according to new flow of events which are discovered when building the conceptual and dynamic models.

# 4.1 Revision History

Name	Date	Reason For Changes	Version
Lee Juin	6 <sup>th</sup> September 2022	Update Use Case ID	1.1

# 4.2 Refined Use Case Descriptions

Use Case ID:	UC001	UC001			
Use Case Name:	Register				
Created By:	Lee Juin		Created By:	Lee Juin	
Date Created:	25 <sup>th</sup> Augus	t 2022	Date Created:	30 <sup>th</sup> August 2022	
	Actor:	App User (Initiating	), Database		
	escription:	use case.		stored in the Database using this	
Prec	onditions:		pase must be up and online.  User must be connected to the	ne Internet.	
Postc	onditions:		User has successfully registen with a unique username an		
		Or			
		The App User is notified of the reason(s) why the registration of an account is unsuccessful.			
	Priority:				
Frequen	Frequency of Use:				
is redir  2. The Ap at least repeate  3. The Ap Privacy  4. The syst the con  5. The Ap email is 6. The syst			ed to the registration page.  Jser inputs a valid email, a u upper-case letter, a lower-case assword into the respective Jser checks the tick box of " olicy" and clicks on "Sign U n verifies the username is un aints.  Jser inputs a One-Time Pass ox by the system.	sword (OTP) that is sent to his/her remation in the database securely.	
Alternative Flows:		Privacy Policy".  1. When the message "and Privacy and Privacy Policy".	App User clicks on "Sign U	acknowledging our Terms of Use ssion form.	

# AF-2: The App User left input field(s) blank. When the App User clicks on "Sign Up", the system displays the message "Please ensure all fields have been filled up before submitting!" above the submission form. 2. The system returns to Step 2 and waits for the App User inputs. AF-3: The App User inputs a taken username. The system displays the message "Username has been taken. Please try again!" above the submission form. The system returns to Step 2 and waits for the App User inputs. AF-4: The App User inputs a password that do not satisfy the given requirements. The system displays the message "Password does not meet the required standards" above the submission form. The system returns to Step 2 and waits for the App User inputs. AF-5: The App User inputs mismatched passwords. The system displays the message "Passwords do not match" above the submission form. The system returns to Step 2 and waits for the App User inputs. AF-6: The App User inputs an incorrect OTP. The system displays the "Security Check" submission form again. The system displays the message "Incorrect OTP! Please try again!" above the submission form. The system returns to Step 5 waits for the App User inputs. EX-1: The App User repeatedly attempts to register for an account for more than **Exceptions:** ten times despite errors in input. On the 11th attempt, when the App User clicks on "Sign Up", the system displays the message "Too many attempts! Please try again in 10 minutes." above the submission form. The "Sign Up" button is unavailable for ten minutes. The system only accepts registration from the App User's IP address after ten minutes. EX-2: The App User did not receive the OTP in his/her email inbox. The "Resend another OTP" button is available after 60 seconds. The App User clicks on the "Resend another OTP" button to resend another OTP to his/her email inbox. 3. The system returns to Step 5 and waits for the App User inputs. EX-3: The App User requests for more than three resent of OTP. The system displays the message "Please try again with a different email" above the submission form. The system returns to Step 2 and waits for the App User inputs. **Includes: Special Requirements: Assumptions:** Notes and Issues:

Use Case ID:	UC002				
Use Case Name:	Login				
Created By:	Lee Juin		Created By:	Lee Juin	
Date Created:	25 <sup>th</sup> August 2022		Date Created:	30 <sup>th</sup> August 2022	
	Actor:	App User (Initiating	), Database		
Do	escription:	The App User can lo stored securely in the		the correct credentials that are	
Prec	onditions:	2. The App U	ase must be up and online.  Jer must be connected to the  Jer has a registered account		
Poste	conditions:	Or	Jser is notified of the reason	into his/her application account.  (s) why he/she is unable to login to	
	Priority:				
Frequen	ncy of Use:				
Flow	Flow of Events:		<ol> <li>At the home page of the website, the App User clicks on "Log in" and is redirected to the login page.</li> <li>The App User inputs his/her username and password.</li> <li>The App User clicks on "LOGIN".</li> <li>The system verifies the credentials provided with the Database.</li> <li>When the information is verified, the App User is redirected to his/her account dashboard.</li> </ol> AF-1: If the App User inputs an incorrect username or password		
		1. When the message "form. 2. The system  AF-2: The App User  1. When the message "gabove the sage"	App User clicks on "LOGIN Invalid username and/or pase or returns to Step 2 and waits releft input field(s) blank  App User clicks on "LOGIN	N", the system displays the sword!" above the submission of for the App User inputs.  N", the system displays the been filled up before submitting!"	
E	xceptions:	1. On the six "LOGIN", try again a 2. The "LOG	th attempt at logging in, who the system displays the mea fter 10 minutes" above the s IN" button is unavailable for n only accepts registration fi	ssage "Account suspended. Please submission form.	
		1. The App U			

Includes:	
Extends:	LostAccountHelp
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	UC003					
Use Case Name:	LostAccou	LostAccountHelp				
Created By:	Lee Juin	Juin		Cr	reated By:	Lee Juin
Date Created:	25 <sup>th</sup> Augus	t 2022		Date	e Created:	30 <sup>th</sup> August 2022
	Actor:	App User (	(Initiating)	, Database		
De	escription:	The App U this use cas		quest for help if	he/she lost	access to his/her account using
Prec	onditions:	2. Т	The App U	ser must be up a ser must be com ser has forgotter	nected to th	
Postc	onditions:	Or h	nis/her cree	lentials.		red his/her account by changing o seek further assistance.
	Priority:					
Frequen	cy of Use:					
Flow	of Events:	2. 1 3. 1 4. 1 5. 1 6. 1 7. 1 8. 1 9. 1	The system The App U Account". The system The App U his/her ema The system The App U CChange". The system tatisfies the Information The App U	displays the receiver inputs his/her displays a "Secure inputs the orall inbox." I displays a "Charter inputs a new a verifies that the egiven requirement in the database	urity Checl he-time pass ange Securi set of user username ents before securely.	on the login page. Int page. Id email and clicks on "Recover k" submission form. Is sword (OTP) that has been sent to Ity Details" submission form. In ame and password and clicks on Its unique, and the password Its updating the App User's Its essful change in credentials and is
Alternat	Alternative Flows:		The "Reser The App User The system App User When the Address, the The system App User When the A	and another OTP" Ser clicks on the P to his/her emain returns to Step  entered an incorrect App User realises a returns to Step  entered an incorrect App User clicks a returns to Step  entered an incorrect App User clicks are the mail not reg	"Resend a ill inbox. 5 and waits rect, but re s that he/sh as on "Not a and waits rect, and no make the control of the control	his/her email inbox  available after 60 seconds. nother OTP" button to resend  as for the App User inputs.  gistered email address  e has inputted an incorrect email email@serviceprovider.com?".  as for the App User inputs.  out registered email address  er Account", the system displays bove the submission form.  as for the App User inputs
E	xceptions:	EX-1: The	App User	forgot his/her re	gistered en	nail.
		1. T	The App U	ser clicks on "C	ontact Supp	port".

	<ol> <li>The system redirects the App User to the FAQ page that contains the support email address.</li> <li>The App User contacts the support via email to retrieve access of his/her account.</li> </ol>
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	UC004				
Use Case Name:	SearchItem	1			
Created By:	Jerick Lim Kai Zheng		Last Updated By:	Jerick Lim Kai Zheng	
Date Created:	22 <sup>nd</sup> Augus	st 2022	Date Last Updated:	30 <sup>th</sup> August 2022	
	Actor:	App User (Initiating)	, AI		
D	escription:	the information of th		th keywords. The AI will retrieve the platforms for the App User to to provide the best deal.	
Prec	conditions:	<ol> <li>The App U</li> <li>The App U</li> </ol>	p and online.  Ser is connected to the Interser registered for an account ser has logged in to his/her	nt with the Database.	
Posto	conditions:		ser obtained a list of search eters inputted.	ed items based on the keywords	
		Or  The App U inputted.	ser is unable to obtain a sea	rch result based on the keywords	
	Priority:				
Freque	ncy of Use:				
Flow	Flow of Events:		rches, based on the keyword platforms. rieves the information of the platforms such as rating, prethod, rebates, and delivery plays the searched items alor of results retrieved. commends at least three others ease <i>Recommend</i> . vides a set of parameters surpate, delivery fee, payment refer sorts the results using the displays the list of times based.	e searched items from the e- ice, number of items sold, of fee. ong with the searched keyword and er items to the App User using the ch as price, number of purchases, methods and rating to sort the me parameters and clicks on	
Alternat	Alternative Flows:		F-1: The AI returns a list of items which includes sold out items.		
		on the key  2. A "Sold Or out.  3. The AI rett keyword.	word inputted by the App U ut" symbol is further display urns to Step 1 and waits for	yed over the items which are sold the App User to input another	
		<ol> <li>The AI dis</li> <li>The AI dis</li> </ol>	plays a list of 100 random it plays "Random items" insteplays 100 as the number of	ems. and of the searched keywords.	

	The AI returns to Step 1 and waits for the App User to input another keyword.		
	AF-3: The parameters set by the App User does not match any searched items		
	<ol> <li>The AI will not display any search results.</li> <li>The system will display a message "No items that matches the filters set!" instead.</li> <li>The AI returns to Step 7 and waits for the App User to re-adjust the parameters.</li> </ol>		
	AF-4: There is no relevant rebate of the searched item		
	<ol> <li>The AI will not show any rebates.</li> <li>A message that says, "No relevant rebates." is displayed instead at the rebate column.</li> </ol>		
Exceptions:	EX-1: The AI System is unable to retrieve any items based on the keyword.		
	<ol> <li>The AI will not display any search results.</li> <li>The system will display a message "No results found! Sorry we cannot find any results for your search item." instead.</li> <li>The AI will not allow the App User to adjust the parameters.</li> <li>The AI will return to Step 1 and waits for the App User to input another keyword.</li> </ol>		
Includes:	Recommend		
Special Requirements:			
Assumptions:			
Notes and Issues:			

Use Case ID:	UC005				
Use Case Name:	Recommen	nd			
Created By:	Jerick Lim	Kai Zheng	Last Updated By:	Jerick Lim Kai Zheng	
Date Created:	22 <sup>nd</sup> Augus	st 2022	Date Last Updated:	30 <sup>th</sup> August 2022	
	Actor:	App User (Initiating)	, AI		
De	escription:	Based on the searche using this use case.	d items, the AI recommend	s the App User other similar items	
	onditions:	<ol> <li>The AI System is up and online.</li> <li>The App User is connected to the Internet.</li> <li>The App User registered for an account with the Database.</li> <li>The App User has logged in to his/her account.</li> </ol>			
Postc	onditions:	App User obtains a l	ist of recommended items b	ased on the searched items.	
	Priority:				
	cy of Use:				
riow	Flow of Events:		<ol> <li>The App User inputs a keyword and clicked on the search icon.</li> <li>The AI returns a list of items based on the keyword.</li> <li>The AI recommends at least three other related items based on the searched item.</li> <li>When the App User scrolls to the bottom of the page, the App User can view the section of "You may also like:" which displays the recommended items.</li> </ol>		
Alternat	Alternative Flows:		ble to retrieve any items bas	ed on the keyword.	
			<ol> <li>The AI display three items based on the keyword instead as recommended items to the App User.</li> <li>The AI returns to Step 1 and waits for the App User to input another keyword.</li> </ol>		
E	Exceptions:		inputs nothing and clicked	on the search icon.	
			<ol> <li>When the App User inputs nothing, the AI will display 100 random items.</li> <li>The AI will not display any recommended items.</li> </ol>		
	Includes:				
Special Requ	irements:				
Ass	umptions:				
Notes a	nd Issues:				

Use Case ID:	UC006				
Use Case Name:	AddFriend				
Created By:	Oi Yeek Sheng		Last Updated By:	Oi Yeek Sheng	
Date Created:	22 <sup>nd</sup> Augus	st 2022	Date Last Updated:	30 <sup>th</sup> August 2022	
	Actor:	App User (Initiating	Actor), Database		
	escription:	App User can also re case.	ceive birthday notification of	request using this use case. The of his/her friends using this use	
Prec	conditions:		ser must be logged in to an ser must have enabled the I	account. Receive Birthday Notification	
Posto	conditions:	The App Us	ser successfully sent a friend	d request to another App User.	
		Or			
		The App Us	ser accepts the friend reques	st of another App User.	
		Or			
		The App Us	ser rejects the friend request	of another App User.	
		Or			
		The App Us advance	eer is prompted about his/he	r friends' birthday 7 days in	
	Priority:				
Frequer	Frequency of Use:				
Flow	of Events:	App User. 2. If the usern send a frier 3. When the conown aviguration list and bir 4. The App User. 5. When the App User.	name searched is available in nd request to that user. other App User accepts the fate to his/her friend's Profile thday date. (ser may opt in to the Receiv	ng the unique username of each In the Database, the App User may friend request, the App User can be page and view the friend's wish we Birthday Notification feature. Ther App User, the App User is To days in advance.	
Alternat	tive Flows:	AF-1: If the other Ap	p User rejects the friend red	quest	
			The system sends an email to the App User about the friend request being rejected.		
			AF-2: The App User has not set up his/her birthday details		
		the App Use birthday. 2. If the App attempts to	user is asked to set up his/her User chooses not to set up h Step 4, the system displays		
E	xceptions:	EX-1: If the searched	l username is not available		
			n displays the message "The Please insert a valid usernan		

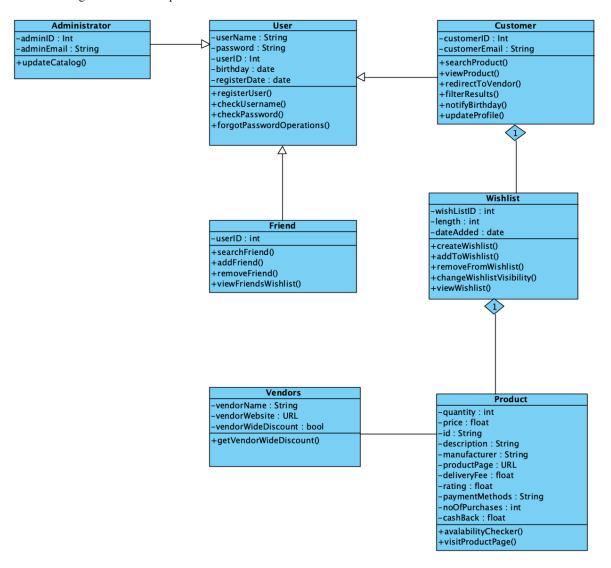
	EX-2: The App User's friend has not set up his/her birthday details				
	1. The App User will not be notified of his/her friend's birthday.				
Includes:					
Special Requirements:					
Assumptions:					
Notes and Issues:					

Use Case Name: MakeWishList  Created By: Oi Yeek Sheng	Use Case ID:	UC007				
Date Created: 22nd August 2022 Date Last Updated: 30th August 2022  Actor: App User (Initiating Actor), Database  Description: The App User can create a wish list of items sold on E-commerce platforms and can view his/her, and his/her friends' wish list using this use case.  Preconditions: The App User must be logged in to an account.  Postconditions: The App User successfully adds an item to his/her wish list.  Or  The App User successfully adds an item to his/her wish list.  Priority:  Frequency of Use:  Flow of Events: 1. The App User searches for an item using the search function provided in the system.  2. If the item is available on at least one e-commerce platform, the system displays the items available to his App User.  3. The App User selects the item to be added to his/her wish list.  4. The App User can view his/her wish list underneath his/her profile.  5. The App User can view his/her wish list underneath his/her profile.  6. The App User can view his/her friends' wish list by clicking on the Profile toon next to each entry on the friends' list.  Alternative Flows: AF-1: If the item is sold out on the supported e-commerce platforms  1. The item is sold out on the supported e-commerce platforms  AF-2: If the App User has not yet created a wish list  1. When the App User enters his/her Profile page, the App User is prompted with a warning message that says "Warning! The added item is currently sold out and may not to available anytime soon!"  AF-2: If the App User has not yet created a wish list  1. When the App User can enter shis/her Profile page, the App User is prompted with a message to create his/her wish list fibe/she chooses to.  2. The App User my respond with "Serve!" or "Maybe later".  3. The former will create an empty wish list for the App User to add items later. The latter will cancel the prompted e-commerce platforms  1. The system commends at least one similar item to the user.  3. If the App User selects the recommended item, the system will add the item to his/her wish list.  EX-2	Use Case Name:	MakeWishList				
Actor: App User (Initiating Actor), Database  Description: The App User can create a wish list of items sold on E-commerce platforms and can view his/her, and his/her friends' wish list using this use case.  Preconditions: The App User must be logged in to an account.  Postconditions: The App User successfully adds an item to his/her wish list.  Or The system displays the App User's, or his/her friend's wish list.  Priority: Frequency of Use:  Flow of Events: 1. The App User searches for an item using the search function provided in the system.  2. If the item is available on at least one e-commerce platform, the system displays the item available to the App User.  3. The App User searches for an item using the search function provided in the system.  4. The App User can view his/her wish list underneath his/her profile.  5. The App User can view his/her wish list underneath his/her profile.  6. The App User can view his/her friends' wish list by clicking on the Profile toon next to each entry on the friends havingation panel.  6. The App User can view his/her friends' wish list by clicking on the Profile toon next to each entry on the friends' list.  Alternative Flows: AF-1: If the item is sold out on the supported e-commerce platforms  AF-1: If the item is sold out on the supported e-commerce platforms  1. The item is displayed with a "Sold Out" message.  2. When the App User adds the item to his/her wish list if he/she chooses to. The App User may respond with "Sourt" or "Maybe later".  3. The App User may respond with "Sourt" or "Maybe later".  3. The App User may respond with "Sourt" or "Maybe later".  3. The App User may respond with "Sourt" or "Maybe later".  4. The App User may respond with "Sourt" or "Maybe later".  5. The App User may respond with source or "Maybe later".  6. The App User may respond with source or "Maybe later".  7. The App User may respond with source or "Maybe later".  8. The App User will cancel the prompted message.  Exceptions:  Exceptions:  Exceptions:  6. The App User deters h	Created By:	Oi Yeek Sl	neng	Last Updated By:	Oi Yeek Sheng	
Description: The App User can create a wish list of items sold on E-commerce platforms and can view his/her, and his/her friends' wish list using this use case.  Preconditions: The App User must be logged in to an account.  Postconditions: The App User successfully adds an item to his/her wish list.  Or The system displays the App User's, or his/her friend's wish list.  Priority:  Frequency of Use:  I. The App User searches for an item using the search function provided in the system. If the item is available on at least one e-commerce platform, the system displays the items available to the App User. I. The App User selects the item to be added to his/her wish list. I. The App User can view his/her wish list underneath his/her profile. I. The App User any click on the Friends availation panel. I. The App User can view his/her friends' wish list by clicking on the Profile icon next to each entry on the friends' list.  Afternative Flows:  Afternative Flows:  AF-1: If the item is sold out on the supported e-commerce platforms  I. The item is displayed with a "Sold Out" message. When the App User adds the item to his/her wish list, the App User is prompted with a warning message that says "Warning! The added item is currently sold out and may not be available anytime soon!"  AF-2: If the App User has not yet created a wish list  I. When the App User nay respond with "Sure!" or "Maybe later",  The former will create an empty wish hist for the App User to add items later. The latter will cancel the prompted message.  Exceptions:  Exceptions:  Exceptions:  Ex-1: If the item is not sold on the supported e-commerce platforms  I. The system commends at least one similar item to the user.  If the App User selects the recommended item, the system will add the item to his/her wish list.  EX-2: If the App User's friend has not yet created any wish list!" underneath the profile.	Date Created:	22 <sup>nd</sup> Augus	st 2022	Date Last Updated:	30 <sup>th</sup> August 2022	
rean view his/her, and his/her friends' wish list using this use case.  Preconditions:  The App User must be logged in to an account.  The App User successfully adds an item to his/her wish list.  Priority:  Frequency of Use:  I. The App User searches for an item using the search function provided in the system.  2. If the item is available on at least one e-commerce platform, the system displays the items available to the App User.  3. The App User searches for an item using the search function provided in the system.  2. If the item is available on at least one e-commerce platform, the system displays the items available to the App User.  3. The App User can view his/her wish list underneath his/her profile.  5. The App User may click on the Friends availation panel.  6. The App User and view his/her friends' wish list by clicking on the Profile icon next to each entry on the friends 'list.  Alternative Flows:  AF-1: If the item is sold out on the supported e-commerce platforms  1. The item is displayed with a "Sold Out" message.  2. When the App User and dish tiem to his/her wish list, the App User is prompted with a warning message that says "Warning! The added item is currently sold out and may not be available anytime soon!"  AF-2: If the App User has not yet created a wish list  1. When the App User may respond with "Sure!" or "Maybe later".  3. The former will creat an empty wish list for the App User is prompted with a message to create his/her wish list it he/she chooses to.  2. The App User may respond with "Sure!" or "Maybe later".  3. The former will creat an empty wish list for the App User to add items later. The latter will cancel the prompted message.  Exceptions:  Exceptions:  Exceptions:  Exceptions:  Exceptions:  Are the App User selects the recommended item, the system will add the item to his/her wish list.  LY-2: If the App User's friend has not yet created a wish list!  1. When the App User enters his/her friend's Profile page, the system displays a message "Sorry! The user has not yet c		Actor:	App User (Initiating	Actor), Database		
Priority:  The App User successfully adds an item to his/her wish list.  Priority:  Frequency of Use:  I. The App User searches for an item using the search function provided in the system.  If the item is available on at least one e-commerce platform, the system displays the items available to the App User.  3. The App User selects the item to be added to his/her wish list.  4. The App User can view his/her wish list underneath his/her profile.  5. The App User may click on the Friends anygation panel.  6. The App User any cive whis/her friends' wish list by clicking on the Profile icon next to each entry on the friends rigation panel.  6. The App User and wish is wish list.  Alternative Flows:  AF-1: If the item is sold out on the supported e-commerce platforms  1. The item is displayed with a "Sold Out" message.  2. When the App User adds the item to his/her wish list, the App User is prompted with a warning message that says "Warning! The added item is currently sold out and may not be available anytime soon!"  AF-2: If the App User has not yet created a wish list  1. When the App User centers his/her Profile page, the App User is prompted with a message to treate his/her wish list for the App User is prompted with a message to create his/her wish list for the App User is prompted with a message to create his/her wish list for the App User is a prompted with a message to create his/her wish list.  Exceptions:  Exceptions:  Exceptions:  Exceptions:  Exceptions:  Exceptions:  Exceptions:  Exceptions:    The system displays the message "No results found."  2. The system recommended item, the system will add the item to his/her wish list.    When the App User selects the recommended item, the system displays a message "Sorry! The user has not yet created any wish list!" underneath the profile.	De	escription:				
Priority:  Frequency of Use:  1. The App User searches for an item using the search function provided in the system. 2. If the item is available on at least one e-commerce platform, the system displays the items available to the App User. 3. The App User selects the item to be added to his/her wish list. 4. The App User can view his/her wish list underneath his/her profile. 5. The App User may click on the Friends navigation panel. 6. The App User and view on the Friends navigation panel. 7. The App User can view his/her friends' wish list by clicking on the Profile icon next to each entry on the friends' list.  Alternative Flows:  Altern	Prec	onditions:	The App User must b	be logged in to an account.		
Priority:  Frequency of Use:  1. The App User searches for an item using the search function provided in the system. 2. If the item is available on at least one e-commerce platform, the system displays the items available to the App User. 3. The App User selects the item to be added to his/her wish list. 4. The App User and view his/her wish list underneath his/her profile. 5. The App User may click on the Friends navigation panel. 6. The App User may click on the Friends navigation panel. 7. The App User can view his/her friends' wish list by clicking on the Profile icon next to each entry on the friends' list.  Alternative Flows:  Alternative Flows:  AF-1: If the item is sold out on the supported e-commerce platforms 1. The item is displayed with a "Sold Out" message. 2. When the App User adds the item to his/her wish list, the App User is prompted with a warning message that says "Warning! The added item is currently sold out and may not be available anytime soon!"  AF-2: If the App User has not yet created a wish list 1. When the App User enters his/her Profile page, the App User is prompted with a message to create his/her wish list if he/she chooses to. 2. The App User may respond with "Sure!" or "Maybe later". 3. The former will create an empty wish list for the App User to add items later. The latter will cancel the prompted message.  Exceptions:  Exceptions:  Exceptions:  Exceptions:    Internative Flows	Postc	onditions:	The App U	ser successfully adds an ite	m to his/her wish list.	
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displays a message "Sorry! The user has not yet created any wish list!" underneath the profile.  Includes:						
			displays a i	message "Sorry! The user ha		
Special Requirements:		Includes:				
	Special Requ	irements:				

Assumptions:	
Notes and Issues:	

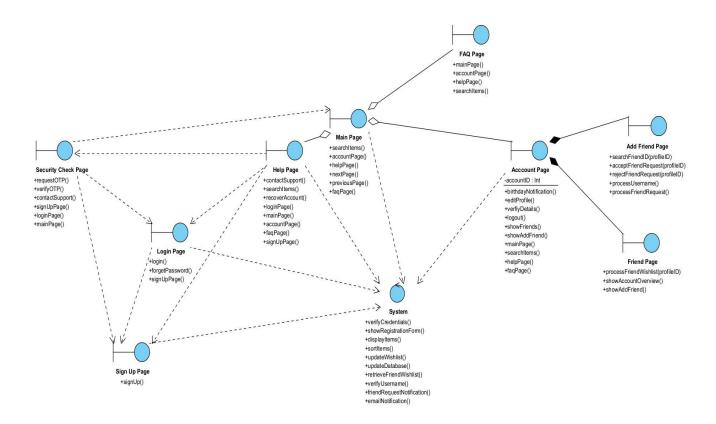
# 5. Class Diagram of entity classes

The Class Diagram for the conceptual model is illustrated as follows:



# 6. Key boundary classes and control classes

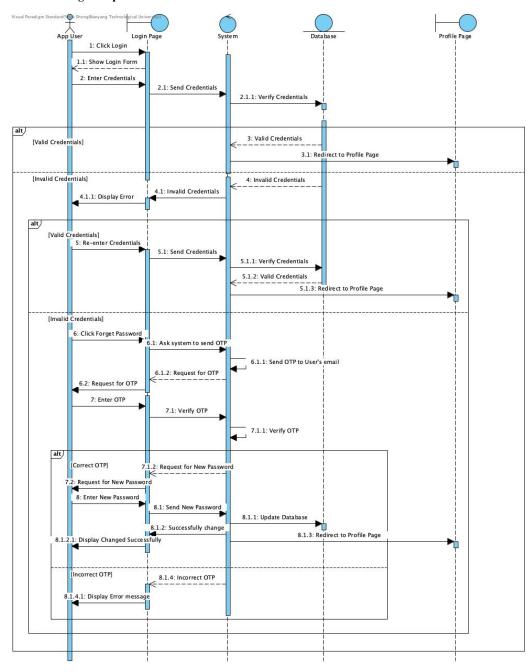
The Class Diagrams for the dynamic model is illustrated as follows:



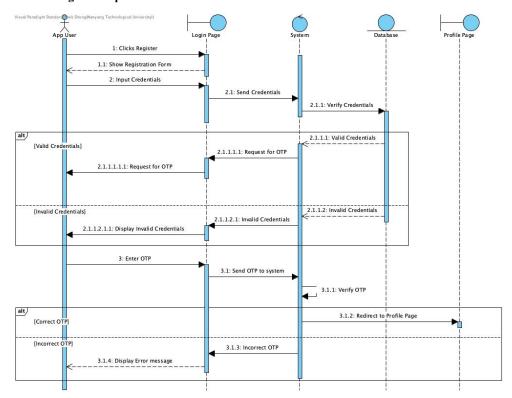
# 7. Sequence diagrams of some use cases

The Sequence Diagrams for the dynamic model are illustrated as follows:

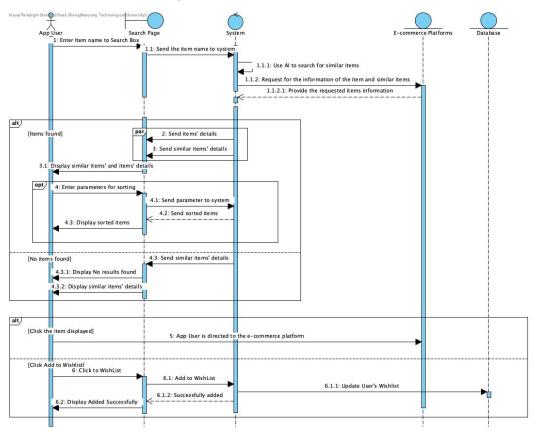
# 7.1 Login Sequence



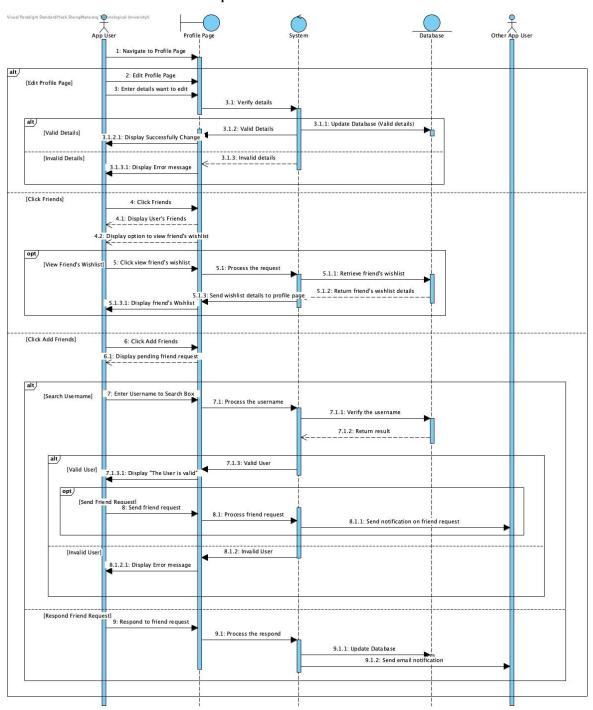
#### 7.2 Register Sequence



#### 7.3 Search for an item Sequence



#### 7.4 Friends and Wish list Sequence



# 8. <u>Initial Dialogue map (State Machine Diagram)</u>

The initial dialogue map according to the defined use cases is illustrated as follows:

