

Use Case

for

Cafe Bunny

UC_TEC_002_V1.0

Version 1.0 approved

Prepared by Team CodeNation

**Nanyang Technological University,
School of Computer Science & Engineering**

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Submitted to:

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VERSION HISTORY

Version #	Implemented By	Revision Date	Approved By	Approval Date	Reason
1.0	Asyraaf Bin Abdul Rahman	30/01/2021	Chew Zhi Kang	30/01/2021	Baseline

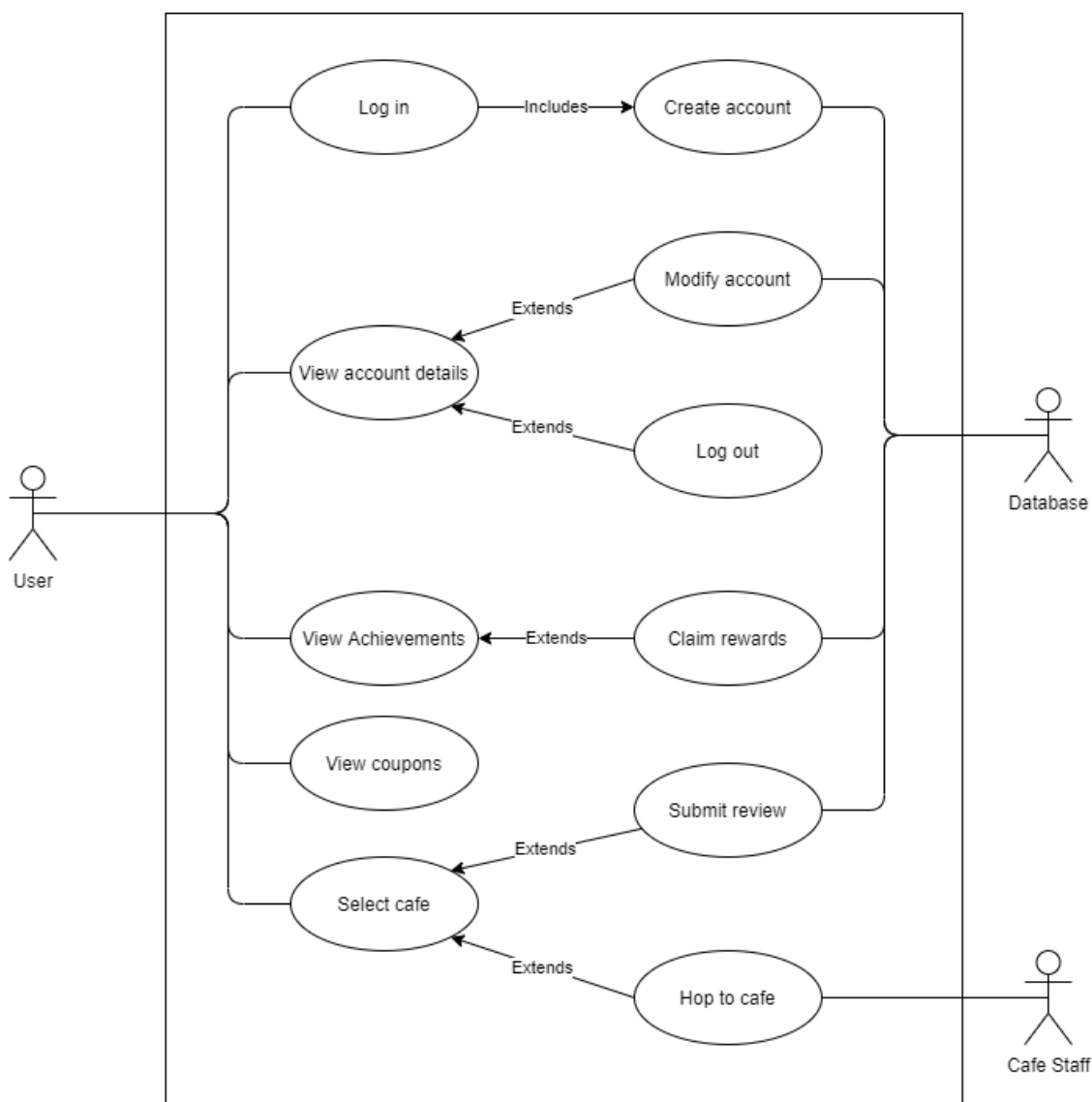
TABLE OF CONTENTS

1. Use Case List	4
2. Use Case Diagram	5
3. Use Case Descriptions	6

1. Use Case List

<i>Primary Actor</i>	<i>Use Cases</i>
User	1. Create new account
User	2. Log in
User	3. View account details
User	4. Modify account
User	5. Log out
User	6. View achievements
User	7. Claim rewards
User	8. View coupons
User	9. Select cafe
User	10. Hop to cafe (check in)
User	11. Submit review

2. Use Case Diagram



3. Use Case Descriptions

Use Case ID:	1		
Use Case Name:	Create new account		
Created By:	Asyraaf	Last Updated By:	Asyraaf
Date Created:	04/02/2021	Date Last Updated:	04/02/21

Actors:	User
Description:	The user creates an account to become a registered user to be able to use the app.
Trigger:	User taps on the “Create new account” button on the landing screen.
Preconditions:	-
Postconditions:	New user account is created.
Normal Flow:	<ol style="list-style-type: none"> 1. App prompts the user to key in email and password. 2. User enters their email and desired password. 3. User taps on the “create account” button. 4. If the user email and password entered are valid,the app displays a message “Your account has been successfully created”. 5. User taps on the “ok” button.
Alternative Flows:	<p>AF1-S1: If user keys in an email address that is already registered.</p> <ol style="list-style-type: none"> 1. App displays an error message ”The email you have entered already exists.” 2. Return to step 1 in normal flow. <p>AF2-S2: If user keys in an invalid email.</p> <ol style="list-style-type: none"> 1. App displays an error message”The email address you have entered is invalid” 2. Return to step 1 in normal flow.
Exceptions:	-
Includes:	-
Priority:	High
Frequency of Use:	Once
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	2		
Use Case Name:	Log In		
Created By:	Asyraaf	Last Updated By:	Asyraaf
Date Created:	04/02/2021	Date Last Updated:	04/02/21

Actors:	User
Description:	The user can use this to log in to the app and gain authorized access to the other use cases and functions.
Trigger:	User taps on the “Log in” button on the landing screen.
Preconditions:	User must have created an account
Postconditions:	The user is logged in to the app and has authorized access to the other use cases and functions.
Normal Flow:	<ol style="list-style-type: none"> 1. The app prompts the user to enter their email and password. 2. User enters their email and password. 3. Login Manager validates the user input against the user entity database. 4. If the user input (email and password) is valid, the login manager logs the user into the app. 5. The app displays the main screen, displaying the map with the available cafes in Singapore.
Alternative Flows:	<p>AF-S4: If user enters invalid email and/or password.</p> <ol style="list-style-type: none"> 1. App displays an error message “The email and/or password you entered is invalid” 2. Return to step 1 in normal flow.
Exceptions:	<p>EX1: When user enters invalid email and/or password more than 3 times</p> <ol style="list-style-type: none"> 1. The login manager will notify the owner of the account of suspicious activity. 2. The app will prompt the user to reset their password.
Includes:	-
Priority:	High
Frequency of Use:	Seldom
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	3		
Use Case Name:	View account details		
Created By:	Asyraaf	Last Updated By:	Asyraaf
Date Created:	04/02/2021	Date Last Updated:	04/02/21

Actors:	User
Description:	This use case allows the user to view their account details
Trigger:	The user taps on the “Account” button.
Preconditions:	User is logged in to their account
Postconditions:	User is taken to their account page
Normal Flow:	1. The user’s account level, avatar, title and EXP are displayed. 2. Available avatars and unlocked titles are displayed.
Alternative Flows:	-
Exceptions:	-
Includes:	-
Priority:	High
Frequency of Use:	Seldom
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	4		
Use Case Name:	Modify account		
Created By:	Asyraaf	Last Updated By:	Asyraaf
Date Created:	04/02/2021	Date Last Updated:	04/02/21

Actors:	User
Description:	This use case allows the user to modify his profile
Trigger:	The user makes changes in his account page
Preconditions:	1. User is logged in to their account 2. User is on their account page
Postconditions:	User has modified their profile
Normal Flow:	1. User selects the desired avatar and title that they wish to change to. 2. User selects “Apply”, the app will update the user’s account details accordingly and display a message “Your account details have been successfully changed.”
Alternative Flows:	AF-S2: If no change has been made. 1. The app displays an error message “No change has been made”. 2. The user returns to step 1 in normal flow.
Exceptions:	-
Includes:	-
Priority:	High
Frequency of Use:	Seldom
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	5		
Use Case Name:	Log Out		
Created By:	Asyraaf	Last Updated By:	Asyraaf
Date Created:	04/02/2021	Date Last Updated:	04/02/21

Actors:	User
Description:	This use case allows the user to log out of his account
Trigger:	User selects "Log Out" button.
Preconditions:	1. User is logged in to their account 2. User is on their account page
Postconditions:	User has logged out of their account
Normal Flow:	1. User gets logged out of account 2. User is taken to login page
Alternative Flows:	-
Exceptions:	-
Includes:	-
Priority:	High
Frequency of Use:	Seldom
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	6		
Use Case Name:	View achievements		
Created By:	Asyraaf	Last Updated By:	Asyraaf
Date Created:	04/02/2021	Date Last Updated:	04/02/21

Actors:	User
Description:	This use case allows the user to view their unlocked and incomplete achievements
Trigger:	The user taps on the “Achievements” button.
Preconditions:	User is logged in to their account.
Postconditions:	User is taken to the achievements page
Normal Flow:	1. The app displays the user’s unlocked and incomplete achievements
Alternative Flows:	-
Exceptions:	-
Includes:	-
Priority:	High
Frequency of Use:	High
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	7		
Use Case Name:	Claim rewards		
Created By:	Asyraaf	Last Updated By:	Asyraaf
Date Created:	04/02/2021	Date Last Updated:	04/02/21

Actors:	User
Description:	This use case allows the user to claim rewards after completing achievements
Trigger:	User selects "CLAIM" button on achievements page
Preconditions:	1. User is logged in to their account. 2. User has completed an achievement
Postconditions:	User has received the reward
Normal Flow:	1. The user selects the "CLAIM" button beside a complete achievement. 2. App displays "Received (reward)" message 3. "CLAIM" text changes to "claimed" 4. Reward coupon appears in Coupons page 5. Reward title appears in Account page
Alternative Flows:	AF1-S1: If the coupon has already been claimed. 1. The app will display an error message "The coupon you have selected has already been claimed." 2. The user can proceed back to step 1.
Exceptions:	-
Includes:	-
Priority:	High
Frequency of Use:	High
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	8		
Use Case Name:	View coupons		
Created By:	Asyraaf	Last Updated By:	Asyraaf
Date Created:	04/02/2021	Date Last Updated:	04/02/21

Actors:	User
Description:	This use case allows the user to view the coupons that they have claimed and use them
Trigger:	The user taps on the “Coupons” button.
Preconditions:	User is logged in to their account.
Postconditions:	1. User is taken to the Coupons page 2. Coupon code is displayed
Normal Flow:	1. The app displays the list of all coupons that the user has claimed. 2. Expiry date of unused coupons will be displayed beside them 3. User selects coupon that they wish to use 4. App displays coupon details and prompts user if they wish to use it 5. User selects “yes” 6. Coupon status text is set to “Used” 7. Coupon code is displayed
Alternative Flows:	AF1-S3: If the coupon has already expired. 1. The app will display an error message “The coupon you have selected has expired.” 2. The user can proceed back to step 1. AF2-S3: If the coupon has already been used. 1. The app will display an error message “The coupon you have selected has already been used.” 2. The user can proceed back to step 1.
Exceptions:	-
Includes:	-
Priority:	High
Frequency of Use:	High
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	9		
Use Case Name:	Select cafe		
Created By:	Asyraaf	Last Updated By:	Asyraaf
Date Created:	04/02/2021	Date Last Updated:	04/02/21

Actors:	User
Description:	This use case allows the user to select a cafe and view its details such as location, reviews ratings etc.
Trigger:	-
Preconditions:	User is logged in to their account User is on the main page of the app
Postconditions:	User is taken to the selected cafe page
Normal Flow:	<ol style="list-style-type: none"> 1. The app displays a map of nearby cafes 2. User selects desired cafe 3. The app takes user to the desired cafe page and displays its details and rating 4. User is able to go to the Review page by selecting "Reviews"
Alternative Flows:	AF-S2: User enters a cafe name in the search bar <ol style="list-style-type: none"> 1. The app displays a list of the search results 2. User selects desired cafe on the list 3. User returns to step 3 in normal flow
Exceptions:	-
Includes:	-
Priority:	High
Frequency of Use:	High
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	10		
Use Case Name:	Hop to cafe (check in)		
Created By:	Asyraaf	Last Updated By:	Asyraaf
Date Created:	04/02/2021	Date Last Updated:	04/02/21

Actors:	User
Description:	This use case allows the user to add the cafe to the list of cafes that they have visited.
Trigger:	User taps on the “Hop” button.
Preconditions:	User is logged in to their account.
Postconditions:	1. Cafe map icon is changed to red. 2. User statistics and achievements progress are updated
Normal Flow:	1. The app will add the cafe selected to the list of cafes the user has visited and mark the cafe as “Hopped”. This will also change the “Hop!” button to “Hopped” and make it disabled(untappable). 2. Cafe map icon changes to red 3. User statistics and achievements are updated.
Alternative Flows:	-
Exceptions:	-
Includes:	-
Priority:	High
Frequency of Use:	High
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	11		
Use Case Name:	Submit review		
Created By:	Asyraaf	Last Updated By:	Asyraaf
Date Created:	04/02/2021	Date Last Updated:	04/02/21

Actors:	User
Description:	This use case allows the user to view and submit a reviews
Trigger:	User taps on the “Reviews” button.
Preconditions:	<ol style="list-style-type: none"> 1. User is logged in to their account. 2. User is on the desired cafe page 3. User has already hopped on selected cafe
Postconditions:	<ol style="list-style-type: none"> 1. User submits a review 2. Cafe rating updated
Normal Flow:	<ol style="list-style-type: none"> 1. The app displays the list of all reviews submitted by other users 2. User selects “Create Review”. 3. User writes a review, give rating and upload photos 4. User selects “Submit” 5. Review is displayed on review page and cafe rating is updated 6. The app adds points to the user’s EXP and updates their new stats
Alternative Flows:	<p>AF1-S2 User has not hopped on selected cafe</p> <ol style="list-style-type: none"> 1. App displays error message “You have not hopped on this cafe” 2. User returns to step 1 in normal flow <p>AF2-S4: The user has either not left a rating or the review description is blank.</p> <ol style="list-style-type: none"> 1. The app will display an error message “Please input both fields.” 2. Return to step 3 in normal flow. <p>AF3-S3: The user taps on the “Cancel” button.</p> <ol style="list-style-type: none"> 1. Return to step 1 in normal flow.
Exceptions:	-
Includes:	-
Priority:	High
Frequency of Use:	Quite often
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-