Use Case ID:	1		
Use Case Name:	User Ac	count Registration	
Created By:	Pei He Last Updated By: Pei He		
Date Created:	5/2/22	Date Last Updated:	5/2/22

A	Here Beteless O etc.
Actor:	User, Database System
Description:	User registration process
Preconditions:	User is on the main webpage, user is not already logged in
Postconditions:	User completes account registration
Priority:	High
Frequency of Use: Flow of Events: Alternative Flows:	 User clicks on "Create a New Account" System displays a registration page, and the user is prompted to enter his email, and password to confirm his password User enters the required login information and clicks on the register button Database system verifies that the email address is valid, and that the passwords match and is at least 8 characters long Database system checks that the email is not in the system database Database System encrypts user details and logs new account into database User is redirected to login page AF- 3): User enters an e-mail that is already in database System informs User that e-mail has already been registered System returns to 2) AF- 3): User enters a username that is already in database System informs User that username inputted has already been used System returns to 2) AF- 3): User enters a password that is not 8 characters long System informs User that password inputted has to be at least 8 characters long
	characters long 2. System returns to 2)
	AF- 3) : User enters passwords that do not match
	System informs User that passwords have to match
	2. System returns to 2)
Exceptions:	
Includes:	
Special	
Requirements:	
Assumptions:	
Notes and Issues:	
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Use Case ID:	2		
Use Case Name:	User Accour	nt Login	
Created By:	Holdon	Last Updated By:	Pei He
Date Created:	05/02/2023	Date Last Updated:	06/02/23

Actor:	User, Database System
Description:	User login process
Preconditions:	User has a registered account
Postconditions:	User successfully logs in
Priority:	High
Frequency of Use:	
Flow of Events:	1) User clicks on the "login" button
	User enters their username and password into the fields
	3) Account System validates login credentials
	4) System redirects User to main page
Alternative Flows:	AF - 2) : User inputs invalid credentials
	1. If User inputs a username not in the database, System will inform User that username is not in database
	2. If User inputs a username in the database but inputs the wrong password, System will inform User of error
	3. System returns to 1) unless User has failed to login 5 times
	4. User is not allowed to login to account
	5. Database System sends User an email to the email associated to that username for email verification
Exceptions:	
Includes:	
Special	
Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	3		
Use Case Name:	Account Rec	covery	
Created By:	Holdon	Last Updated By:	Pei He
Date Created:	05/02/2023	Date Last Updated:	06/02/2023

1	
Actor:	User, Database System
Description:	User has ability to recover account if they forget their password
Preconditions:	
	 User requests password reset
	 User has attempted 5 logins to 1 account unsuccessfully
Postconditions:	User recovers password
Priority:	High
Frequency of Use:	
Flow of Events:	Database system sends e-mail to User's email account after fifth unsuccessful login/requests password reset
	User clicks on link on sent to their email to reset their password
	System displays the password reset web page, prompting users to enter a new password and confirm it
	4) User enters a new password and confirms it
	5) System verifies that the passwords match and are at least 8 characters long.
	6) DatabaseSystem updates user database with new password
Alternative Flows:	Account displays a "password successfully reset" message.
Alternative Flows.	AF - 2) : User does not click on email link
	 If user does not click on link 5 minutes after e-mail was sent, the link will expire
	2. Use case terminates
	AF - 4): User's new passwords do not match
	 System informs user that the passwords do not match and requests that the user try again
	2. System returns to 3)
	AF - 4): User's passwords are less than 8 characters long
	 System informs user that the new password is not strong enough System returns to 3)
Exceptions:	,
Includes:	
Special	
Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	4		
Use Case Name:	Location Ser	vice	
Created By:	Holdon	Last Updated By:	Pei He
Date Created:	05/02/2023	Date Last Updated:	23/02/23

Actor:	User		
Description:	User must allow System to get their device location for the application to		
	function		
Preconditions:	None		
Postconditions:	User returns location to System		
Priority:	High		
Frequency of Use:			
Flow of Events:	System prompts user to enable their device's location service		
	2) User enables their device's location services		
	3) System records User's current location		
Alternative Flows:	AF - 1): If user has not enabled/does not have device location		
	1. The system prompts the user to input their location details		
	2. User inputs their location details		
	3. System returns to 3)		
Exceptions:			
Includes:			
Special			
Requirements:			
Assumptions:			
Notes and Issues:			

Use Case ID:	5		
Use Case Name:	View Own R	eviews	
Created By:	Holdon	Last Updated By:	Holdon
Date Created:	05/02/2023	Date Last Updated:	23/02/2023

Actor:	User, Database System	
Description:	Database system contains all the reviews left by the User for reference	
Preconditions:	User is in the 'Profile' page	
Postconditions:	User leaves "Profile" page	
Priority:	Medium	
Frequency of Use:		
Flow of Events:		
	User selects "Reviews by me" on his/her user profile page	
	2) Database System displays reviews previously made by the User	
Alternative Flows:		
Exceptions:		
Includes:	Editing/Deleting Reviews	
Special Requirements:		
Assumptions:		
Notes and Issues:		

Use Case ID:	6		
Use Case Name:	Editing/Delet	ting Reviews	
Created By:	Holdon	Last Updated By:	Holdon
Date Created:	05/02/2023	Date Last Updated:	05/02/2023

Actor:	User, Database System		
Description:	Reviews left by Users can be edited or deleted if the User chooses		
Preconditions:	Users click on the "View Review" on the "Profile" page or when they search		
	for a particular restaurant.		
Postconditions:	User makes changes to existing review		
Priority:	Medium		
Frequency of Use:			
Flow of Events:			
	User selects specific review on "View Reviews" page		
	User edits to review previously made		
	O) Harris Providence to refer to the large		
	User edits rating to rating previously made		
Alternative Flows:			
Alternative Flows.	AF 2): User wants to delete rating		
	Al 2). Oser wants to delete fatting		
	User can delete review previously made		
	The odd dain adiate review previously made		
	2. System returns to "View Reviews" page		
	,		
Exceptions:			
Includes:			
Special			
Requirements:			
Assumptions:			
Notes and Issues:			

Use Case ID:	7		
Use Case Name:	Settings Mer	าน	
Created By:	Holdon	Last Updated By:	Holdon
Date Created:	05/02/2023	Date Last Updated:	05/02/2023

Actor:	User, Account System, E-mail System		
Description:	User must be able to change their password or email if they wish to do so		
Preconditions:	User is on main page		
Postconditions:	User exits settings menu		
Priority:	Medium		
Frequency of Use:			
Flow of Events:	1) User selects "Settings" on main page		
	2) User must enter their password		
	Account System verifies if password entered is correct		
	4) System displays settings menu		
	5) Settings menu has "Change Password" and "Change Email"		
Alternative Flows:	AF 3) : User enters incorrect password		
	System informs User that password entered was incorrect		
	2. System returns to 2)		
	AF 5) : User wants to change password		
	User selects "Change Password"		
	User inputs current password		
	3. User inputs new password, which is 8 characters or longer		
	E-mail System sends e-mail to User to inform them of password change		
	AF 5) : User wants to change e-mail		
	1. User selects "Change E-mail"		
	2. User inputs new E-mail		
	E-mail System sends e-mail to User's new e-mail to confirm the change		
Exceptions:			
Includes:			
Special Requirements:			

Assumptions:	
Notes and Issues:	

Use Case ID:	8	
Use Case Name:	View Nearby Restaurants	
Created By:	Holdon	Last Updated By:
Date Created:	05/02/2023	Date Last Updated:

Actor:	User, Database System, API		
Description:	System shows User all restaurants in their vicinity		
Preconditions:	User is on the main page		
Postconditions:	User selects the "view nearby restaurants" option on the main page		
Priority:	High		
Frequency of Use:			
Flow of Events:	Database System retrieves information of restaurants from the database		
	Map API displays all restaurants in a 3 kilometre radius on the map overlay		
	 A list of the restaurants also displayed below the map. Clicking any food establishment in the list brings the user to the specific food establishment page 		
	User selects a specific restaurant to view more information		
Alternative Flows:	AF 1): User wants to view restaurants of certain types		
	1. User selects on the "cuisine", "proximity" or "rating" filter		
	Restaurant System filters restaurant according to filters selected		
	AF 3): User wants to select a random restaurant		
	User selects the "random" button		
	Restaurant System accounts for any filters in place		
	Restaurant System displays a specific restaurant at random		
Exceptions:			
Includes:			
Special			
Requirements:			
Assumptions:			
Notes and Issues:			

Use Case ID:	9	
Use Case Name:	Restaurant Page	
Created By:	Holdon	Last Updated By:
Date Created:	05/02/2023	Date Last Updated:

	Here Berte and Octor		
Actor:	User, Restaurant System		
Description:	User can see details about a specific restaurant		
Preconditions:	User clicks "view details" button on a restaurant popup on the map		
	User clicks a restaurant on the restaurant list		
Postconditions:	User exits the restaurant page		
	User chooses to get directions to restaurant		
Priority:	High		
Frequency of Use:			
Flow of Events:	User selects a specific restaurant		
	Restaurant System displays the restaurant's cuisine, distance, reviews, rating and opening hours		
	User selects to "Get directions" to get directions to restaurant		
Alternative Flows:	AF 3) : User wants to read reviews		
	1. User selects "Review" tab		
	Restaurant System displays reviews left by other users		
	AF 3) : User wants to find nearby parking space		
	1. User selects "View Nearby Parking"		
	System displays nearby parking information		
Exceptions:			
Includes:			
Special			
Requirements:			
Assumptions:			
Notes and Issues:			

Use Case ID:	10	
Use Case Name:	View Nearby Parking	
Created By:	Holdon	Last Updated By:
Date Created:	05/02/2023	Date Last Updated:

Actor:	User, Parking System	
Description:	User can view parking spots near the restaurant selected	
Preconditions:	User selects a specific restaurant	
Postconditions:	User selects a specific parking space	
	User backs to specific restaurant page	
Priority:	Medium	
Frequency of Use:		
Flow of Events:	User selects "Find Nearby Parking"	
	2) Parking System retrieves parking space information from database	
	Parking System shows parking spaces in a 1 kilometre radius from the specific restaurant	
Alternative Flows:	AF 3) : User wants to find closer parking space	
	User selects on "distance" filter	
	Parking System shows parking spaces in a 0.5 kilometre radius	
Exceptions:		
Includes:		
Special Requirements:		
Assumptions:		
Notes and Issues:		

Use Case ID:	11	
Use Case Name:	View Specifi	c Parking
Created By:	Holdon	Last Updated By:
Date Created:	05/02/2023	Date Last Updated:

Actor:	User, API		
Description:	User can view specific parking space for more information		
Preconditions:	User is on the "Find Nearby Parking" page		
Postconditions:	User selects "Get Direction" User exits to "Specific Restaurant" page		
Priority:	Medium		
Frequency of Use:			
Flow of Events:	1) User selects on specific parking space 2) API retrieves information from LTA database 3) API displays number of available lots and total number of lots of parking space 4) User selects "Get Direction" to get direction to parking space		
Alternative Flows:			
Exceptions:			
Includes:			
Special			
Requirements:			
Assumptions:			
Notes and Issues:			

Use Case ID:	12	
Use Case Name:	Pathfinding	
Created By:	Holdon	Last Updated By:
Date Created:	05/02/2023	Date Last Updated:

Actor:	User, Parking System, Restaurant System, Maps System, Google Maps		
Description:	User can find a route from their current location to the specific restaurant or		
'	specific parking space they want to get to		
Preconditions:			
	User selects "Get Direction" at specific restaurant page		
	User selects "Get Direction" at specific parking space page		
Postconditions:	User exits application		
Priority:	Medium		
Frequency of Use:			
Flow of Events:			
TIOW OF EVENIS.	Maps System gets location of restaurant or parking space		
	inapo eystem goto location et restaurant et parting opace		
	Maps System inputs coordinates to Google Maps on User's device		
Alternative Flows:			
Exceptions:			
Includes:			
Special			
Requirements:			
Assumptions:			
7.1000			
Notes and Issues:			

Use Case ID:	13	
Use Case Name:	Add review	N
Created By:	Pei He	Last Updated By:
Date Created:	06/02/23	Date Last Updated:

Actor:	User, Reviews System, Restaurants System		
Description:	User can add a review to a restaurant they went to		
Preconditions:	User is logged in		
Postconditions:	User is returned to the restaurants page		
Priority:	High		
Frequency of Use:			
Flow of Events:	 User selects "add review" on the restaurants page System prompts the user to select a rating (1-5), as well as any comments about the food establishment User inputs the rating and comments, and clicks submit Review system adds the review to its database Restaurant system recalculates a new average rating, and displays it accordingly 		
	6) The message "review successfully added" is displayed to the user		
Alternative Flows:	AF - 1) 1. User selects add a review on the sidebar		
	User chooses the restaurant to review		
	3. System goes to step 3)		
Exceptions:			
Includes:	Review Making		
Special Requirements:			
Assumptions:			
Notes and Issues:			