Use Cases

for

ShopPeas

Version 1.3 approved

Prepared by

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Revision History

Name	Date	Reason For Changes	Version
Yi Xuan, Winnie, Jedidiah, Rachel, Saffron, Jun Chao	24/08/2024	Documented the first version of the project use cases.	1.0
Yi Xuan, Winnie, Jedidiah, Rachel, Saffron, Jun Chao	15/09/2024	Updated use cases based on changes to system functionality.	1.1
Yi Xuan, Winnie, Jedidiah, Rachel, Saffron, Jun Chao	19/10/2024	Updated use cases based on changes to application design and to include exception handling.	1.2
Yi Xuan, Winnie, Jedidiah, Rachel, Saffron, Jun Chao	10/11/2024	Made final updates to use cases for submission.	1.3

Use Cases

1. Consumer

Use Case ID:	CUS01		
Use Case	Register		
Name:			
Created By:	Rachel	Last Updated By:	Winnie
Date Created:	26/08/2024	Date Last Updated:	10/11/2024

<u> </u>			
Actor:	Consumer		
Description:	A form to get the user's details and create a new account for them to		
	purchase food products from wholesalers.		
Preconditions:	NIL		
Postconditions:	1. The user can log in to their account.		
Priority:	High		
Frequency of Use:	High		
Flow of Events:	1. The user enters the app and sees the landing page.		
	2. The user clicks the "SIGN UP" option and is directed to a		
	page that asks the user which account they want to create:		
	"Consumer" or "Business Owner".		
	3. The user clicks the "Consumer" option and is directed to the		
	registration form.		
	4. The user enters their credentials.		
	a. The user provides their first name.		
	b. The user provides their last name.		
	c. The user provides an email.		
	d. The user provides a phone number.		
	e. The user clicks "NEXT" to enter details about the		
	address.		
	5. The user enters their address details.		
	a. The user provides their street name.		
	b. The user provides their unit number.		
	c. The user provides their building name.		
	d. The user provides their city, country.		
	e. The user provides their postal code.		
	6. The user chooses their password		
	a. The user provides a password.		
	b. The user must confirm the password by entering it		
	again in another field.		

7. The user clicks "REGISTER" to register their details in the system. a. The system validates that the email follows the correct format. b. The system checks if there is a duplicate email. c. The system validates that the phone number follows the correct format. d. The system checks if there is a duplicate phone number. e. The system validates that the provided password is secure enough. f. The system validates if the password entered is the same in both fields. 8. The system creates a new record in the database. 9. The app prompts the user to log in. Alternative Flows:` AF01-CUS01: The user enters an invalid input at any stage 1. User inputs invalid information (e.g., incorrect email format). 2. The system displays error messages before allowing the user to register and prompts the user to fix the input values. 3. User corrects the input and resubmits, the system will return to the Login/Sign up Page. AF02-CUS01: The password entered in the "Password" and "Confirm Password" fields do not match. 1. User keys in a different password in "Confirm Password" compared to the initial Password. 2. The system prompts the user to re-enter the password, "Passwords do not match". **Exceptions:** EX01-CUS01: The user enters an email address that already exists. 1. The system checks the database and finds that the email address already exists. 2. Display an error message, "This email belongs to an existing user. Please log in instead."

	EX02-CUS01: Firebase connection cannot be established. 1. Inform the user of the connection issue and ask them to try again later.
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

Use Case ID:	CUS02		
Use Case	Login		
Name:			
Created By:	Rachel	Last Updated By:	Winnie
Date Created:	26/08/2024	Date Last Updated:	10/11/2024

Actor:	Consumer	
Description:	A form to ask for the user's email and password before they can	
The second secon	access app functionalities that require user authentication.	
Preconditions:	NIL	
Postconditions:	The user can access the pages to purchase products.	
Priority:	High	
Frequency of Use:	High	
Flow of Events:	1. The user enters their credentials - an email and password.	
	1.1. The system validates that the email keyed in exists in the database.	
	1.2. The system validates that the provided password	
	matches the password tagged to the account.	
	2. The user is directed to the Consumer Product Page after	
	successfully logging in.	
Alternative Flows:	AF01-CUS02: User wants to Register an Account	
	1. The user clicks the "No Account? Create One!" link.	
	1.1. The user is redirected to the Register page to enter	
	their chosen account details.	
	AF02-CUS02: User keys in the wrong password	
	User keys in wrong password	
	1.1. System displays an error message, "Wrong	
	password!"	
Exceptions:	EX01-CUS02: Firebase connection cannot be established.	
	1. Inform the user of the connection issue and ask them to try	
	again later.	
Includes:	NIL	
Special Requirements:	NIL	
Assumptions:	NIL	
Notes and Issues:	NIL	

Use Case ID:	CUS03		
Use Case	Product List		
Name:			
Created By:	Rachel	Last Updated By:	Jedidiah
Date Created:	26/08/2024	Date Last Updated:	02/11/2024

Actor:	Consumer		
Description:	The list of healthy food products sold by various wholesalers for the		
	consumers to purchase.		
Preconditions:	NIL		
Postconditions:	NIL		
Priority:	High		
Frequency of Use:	High		
Flow of Events:	1. The system queries the database to get all product records.		
	2. The user scrolls through the products.		
	 a. Upon selecting a product they are interested in, the system will direct them to get all the available wholesalers for the selected products 3. If the user has a specific product to find, they can enter the item in the search bar. a. The system will filter the product records based on the text query entered. b. The system will display the filtered list of records. c. The user clicks on the specific product they want and they will be redirected to all the available wholesalers for the selected product. 		
Alternative Flows:	NIL		
Exceptions:	EX01-CUS03: System unable to retrieve information		
1	1. The System does not show any product listings.		
Includes:	NIL		
Special Requirements:	NIL		
Assumptions:	NIL		
Notes and Issues:	NIL		

Use Case ID:	CUS04		
Use Case	Product Details		
Name:			
Created By:	Rachel Last Updated By: Yi Xuan		
Date Created:	27/08/2024	Date Last Updated:	02/11/2024

Actor:	Consumer
Description:	Displays the details of the healthy food product the user selected,
	such as the available wholesalers, price, and quantity for them to
	make an informed decision before purchasing the product. Through
	this page, the user can add products to their shopping cart.
Preconditions:	1. The user must be logged in.
	2. The user selects a product from the Product page.
Postconditions:	NIL
Priority:	High
Frequency of Use:	High
Flow of Events:	 The system queries the database to get all wholesalers selling the specific product based on the product selected on the Product page. For each wholesaler, the system will call the OneMap API to get the total time between the wholesaler's pickup location and the consumer's home address.
	such as price, duration and stock. i. The system will sort the records based on the chosen field. ii. The system will display the sorted records. b. For each option, the user can click on the wholesaler's name to view more details about the wholesaler. i. The wholesaler's name will be highlighted. ii. The user will be directed to the respective "Wholesaler Details" page. 3. The user selects an option. a. The option is highlighted in a different colour.

	b. A pop-up screen appears and the user indicates the		
	quantity they want to add to the cart. A map of the		
	wholesaler's location is also shown using the		
	OneMap API.		
	i. The user selects the quantity of item he would		
	like to buy.		
	ii. If the user selects the "Add to Cart" button,		
	the Shopping Cart page is updated with the		
	addition of this product.		
	iii. The shopping cart and transaction records in		
	the database are updated accordingly		
	4. The system returns to the page and displays "Success!" and		
	users can continue to navigate the app.		
Alternative Flows:	AF01-CUS04: User tries to add an invalid quantity to cart		
	System prompts user to add a valid quantity to cart		
Exceptions:	1 ·		
	1. The System does not display anything on the interface.		
	EX02-CUS04: User does not type in a valid postal code		
	1. The system does not display anything on the interface.		
Includes:	NIL		
Special Requirements:	NIL		
Assumptions:	NIL		
Notes and Issues:	NIL		

Use Case ID:	CUS05		
Use Case	Shopping Cart		
Name:			
Created By:	Rachel	Last Updated By:	Saffron Lim
Date Created:	27/08/2024	Date Last Updated:	09/11/2024

Actor:	Consumer		
Description:	Facilitates the purchasing process by allowing users to create a		
	virtual shopping cart. Users can add desired products to their cart,		
	view a detailed list of items, and calculate the total cost before		
	checkout. This feature provides a convenient way for users to		
	organise their purchases and make informed decisions.		
Preconditions:	1. The user must be logged in.		
	2. The user clicks the Shopping Cart icon from another page		
	which directs them to the Shopping Cart page.		
	3. The user has to Add to Cart at least one item.		
Postconditions:	NIL		
Priority:	High		
Frequency of Use:	High		
Flow of Events:	1. The system displays a list of products added to the cart,		
	where each product detail is shown together in a list item.		
	2. Product details shown include quantity ordered, wholesaler		
	ordered from, wholesaler address, and price of that specific		
	item.		
	3. The system calculates the total cost of all items within the		
	cart and displays it at the bottom panel as "Total \$".		
	4. The user may complete their purchase by clicking the button		
	to check out.		
	a. The user is directed to the Payment page.		
Alternative Flows:	AF01-CUS05: The user deletes an item.		
	1. The user clicks the delete icon associated with the product		
	item.		
	2. The item is removed from the shopping cart.		
	3. The system recalculates the total amount.		
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	AF02-CUS05: The user updates the quantity.		
	1. The user uses the number input spinner to update the		
	quantity.		
	2. The system updates the price within the product item row.		

3. The system recalculates the total amount.

AF03-CUS05: The user clicks the wholesaler name.

1. The system directs the user to the respective View Wholesaler page.

AF04-CUS05: The user checks out when the updated stock amount is less than the requested quantity.

- 1. The Shopping Cart page loads.
- 2. The system gets the quota to update the maximum number for the number input spinner for each product.
 - a. If the stock is less than the user's selected quantity.
 - i. If the stock is not 0.
 - 1. Change the quantity in the number input slider to the wholesaler's maximum stock.
 - 2. Update the price for the product.
 - 3. Display an alert to inform the user that the wholesaler's stock has been updated.
 - ii. If the stock is 0.
 - 1. Change the quantity in the number input slider to 0.
 - 2. Disable all buttons in the number input slider.
 - 3. Change the price to 0 for the product.
 - 4. Display an alert to inform the user that the wholesaler has no more stocks and ask them to consider other wholesalers.
 - a. If the user selects another wholesaler.
 - i. Update the price for the product.
 - ii. Change the quantity in the number input slider to 1.
 - iii. Enable all buttons in the number input slider.

	b. If the user does not select
	another wholesaler and checks
	out.
	i. The system removes
	the product from the
	purchase history
	records.
	AF05-CUS05: The user has an empty cart
	1. The Shopping Cart page loads.
	2. System displays a message stating "No Cart Items Yet".
	AF06-CUS05: The user tries to checkout an empty cart.
	1. The Shopping Cart page loads.
	2. User clicks on the checkout button.
	3. System displays an error message, "Error, cart is empty" and
	prevents the user from checking out the cart.
Exceptions:	EX01-CUS05: Retrieval of shopping cart data for user fails
	System displays an error message
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

Use Case ID:	CUS06		
Use Case	Check Out		
Name:			
Created By:	Rachel	Last Updated By:	Saffron
Date Created:	27/08/2024	Date Last Updated:	09/11/2024

Actor:	Consumer	
Description:	For consumers to review their order details, enter payment	
	information, and finalise their purchase.	
Preconditions:	1. The user must be logged in.	
	2. The user clicks the Shopping Cart icon from another page	
	which directs them to the Shopping Cart page.	
	3. The user's shopping cart has at least one item.	
	4. The user clicks the checkout button	
Postconditions:	NIL	
Priority:	High	
Frequency of Use:	High	
Flow of Events:	1. The shopping cart data is retrieved from the database	
	a. The price of each item is checked for any updates and	
	the prices of the individual items and the total	
	payment amount are updated and reflected	
	accordingly in the transactions and shopping cart data records.	
	2. The total payment amount is calculated and displayed.	
	3. The user clicks the Check out button.	
	4. The user is directed to the payment page where the payment methods and the item he is purchasing is displayed.	
	5. The user clicks into Payment Method to choose the payment method.	
	6. The user's current payment methods are displayed (if any) a. If the user has not selected a payment method, they can click a button to add a payment method which will direct them to a page to add a new credit/debit card.	
	7. The user selects a payment method.	
	8. The user clicks the "Make Payment" button to transfer the	
	payment to the wholesaler.	
	9. The interface shows "Success! Card Successfully added".	

	a. The amount is converted to the wholesaler's preferred currency (SGD or MYR).
	10. Upon successful payment: the following changes occur:
	a. The status of the transaction data is changed from
	"IN-CART" to "PENDING-ACCEPTANCE".
	b. The current shopping cart is emptied
	c. A new record is added to the Order History table for
	data persistence.
Alternative Flows:	AF01-CUS06: Data entered into the form fields are in the wrong
	format.
	1. An error message is displayed to notify the user of the
	incorrect data format and prompt them to re-enter.
	meorrest data format and prompt them to be enter.
	AF02-CUS06: User selects to add a new payment method.
	1. User clicks the "Payment Method" button in the Payment
	•
	page which directs them to the Payment Method page.
	2. The user selects to add a new payment method and is
	directed to an Add Card page for them to enter their card
	details, Card Number, Expiry Date, CVV and Name on
	Card.
	3. The user clicks "Submit" after filling in the form.
	4. The form is validated.
	5. The system directs the user back to the Payment page.'
	6. The new card details will be updated as an existing payment
	method.
	AE02 CUE06: Channing court is amonth.
	AF03-CUS06: Shopping cart is empty.
	1. After selecting the "Cart" section, the system is unable to
	find any cart records for the user.
	2. The system displays a message "No Cart Items".
	3. Users can navigate to other sections of the app.
Exceptions:	EX01-CUS06: Input data contains invalid wholesaler details.
	System displays an error message
	EX02-CUS06: Input data contains invalid order details.
	1. System displays an error message
	EX03-CUS06: Retrieval of payment method data for user fails
	System displays an error message
Includes:	NIL
merudes.	IVIL

Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

Use Case ID:	CUS07		
Use Case	Order History		
Name:			
Created By:	Jedidiah Last Updated By: Jun Chao		
Date Created:	31/08/2024	Date Last Updated:	09/11/2024

Actor:	Consumer	
Description:	To aid the user experience, the purchase history will allow users to	
	be able to view what they had previously ordered and rate their	
	orders.	
Preconditions:	1. The user must be logged in.	
	2. The user must have paid for items that are processed.	
Postconditions:	NIL	
Priority:	Medium	
Frequency of Use:	Medium	
Flow of Events:	1. The user selects the "History" option from the bottom tab navigation.	
	2. The system retrieves the user order data from the database and displays it.	
	3. For each order, the system will display the relevant information such as	
	a. Name of Wholesaler(s).	
	b. Date of order purchase.	
	c. List of items purchased.	
	d. Quantity of items.	
	e. Price of individual item	
	f. Status of the order.	
	g. Total Amount paid.	
	h. Status on whether the order has been rated.	
	4. The user can rate the item by clicking onto the "Give	
	Rating" button and press the appropriate rating out of 5 stars	
	for the wholesaler.	
	5. The wholesaler rating will be updated in the frontend UI and	
	backend database.	
	6. The interface shows the "Give Rating" icon turning dark	
	green "Rated" to indicate success.	
	7. The user can navigate to other sections of the app using the	
	navigation menu.	
Alternative Flows:	AF01- CUS07: User has no purchase history	

	1.	After selecting the "History" section, the system is unable to
		find past orders for the user.
	2.	The system displays a message "No past orders".
	3.	Users can navigate to other sections of the app.
Exceptions:	NIL	
Includes:	NIL	
Special Requirements:	NIL	
Assumptions:	1.	The user is accessing the platform using a stable internet
		connection
Notes and Issues:	NIL	

Use Case ID:	CUS08		
Use Case	Wholesaler Details		
Name:			
Created By:	Jedidiah Last Updated By: Jun Chao		
Date Created:	31/08/2024	Date Last Updated:	09/11/2024

Actor:	Consumer	
Description:	Users will be allowed to search and view detailed information about	
	different wholesalers on ShopPeas. This enhances the user	
	experience by enabling consumers to conveniently find wholesalers	
	that meet their needs, compare offerings and make informed	
	purchasing decisions.	
Preconditions:	1. The user must be logged in.	
	2. The wholesaler must exist in the database.	
Postconditions:	1. The user can navigate to the Product Details page by	
	selecting a product listed in the Wholesaler Details page.	
Priority:	High	
Frequency of Use:	High	
Flow of Events:	1. The user is viewing products on the Product Details page.	
	2. The user clicks on the wholesaler's name.	
	3. The system directly retrieves the wholesaler's information.	
	4. The user is redirected to the wholesaler's details page to	
	view more detailed information including:	
	a. Wholesaler name and logo.	
	b. Location and address.	
	c. List of products offered.	
	d. Ratings.	
Alternative Flows:	AF01-CUS08: View Wholesaler from the Shopping Cart Page	
	1. The user is viewing their shopping cart.	
	2. The user clicks on the wholesaler's name.	
	3. The system directly retrieves the information of the	
	wholesaler.	
	4. The user is redirected to the wholesaler's details page.	
	AF02-CUS08: View Wholesaler from the Order History Page	
	1. The user is viewing their order history.	
	2. The user clicks on the wholesaler's name.	

	3.	The system directly retrieves the information of the
		wholesaler.
	4.	The user is redirected to the wholesaler's details page.
Exceptions:	NIL	
Includes:	NIL	
Special Requirements:	NIL	
Assumptions:	NIL	
Notes and Issues:	NIL	

Use Case ID:	CUS09		
Use Case	Profile		
Name:			
Created By:	Jun Chao	Last Updated By:	Yi Xuan
Date Created:	01/09/2024	Date Last Updated:	02/11/2024

Actor:	Consumer		
Description:	The profile feature allows users to view and manage their personal		
	information within the e-commerce platform. Users can access their		
	profiles to review current details and make updates as needed. This		
	feature enhances user experience by providing a centralised location		
	for managing account information and preferences.		
Preconditions:	1. The user must be logged in.		
Postconditions:	NIL		
Priority:	Low		
Frequency of Use:	Low		
Flow of Events:	1. The user clicks on the "Profile" button in the bottom tab navigation menu.		
	 The system displays the user's profile page with current information such as Name, Date Joined, Location, Email, Contact, and Address. 		
	3. The user selects the "Edit Profile" option		
	4. The system presents editable fields for the user to update their information and fill in with current information.		
	 a. Users can change their contact details, street name, unit number, building name, city and postal code by editing the fields. 		
	5. The user makes changes and clicks the "Save" button.		
	6. The system validates the input, saves the changes and displays a confirmation message "Success! Profile has been updated".		
	7. The system navigates back to the Explore page.		
	8. The updated information will be stored in the backend		
	Firestore database.		
	9. Updated profile information is shown to the user if the user		
	accesses the profile page.		
Alternative Flows:	AF01-CUS09: Invalid Contact Details		
	1. The user enters an invalid contact details format.		

	2. The system displays error messages when the user tries to
	save details and prompts users to re-enter relevant fields.
	3. The user corrects the input and resubmits
	AF02-CUS09: No Changes Made
	1. The user clicks "Save" without making any changes
	2. The system detects no changes and returns back to the
	Explore page.
	AF03-CUS09: Cancels editing
	1. The user clicks on the "cancel" button.
	2. The system brings the user back to the Profile page.
Exceptions:	EX01-CUS09: Phone number already exists.
	1. Prompt the user to enter another phone number.
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

2. Wholesaler

Use Case ID:	WH01		
Use Case	Register		
Name:			
Created By:	Jun Chao	Last Updated By:	Winnie
Date Created:	01/09/2024	Date Last Updated:	10/11/2024

Actor:	Wholesaler		
Description:	The registration feature allows wholesalers to create an account on		
Description.	ShopPeas. This multi-step process collects essential information		
	about the wholesaler, including company details, address, bank		
	account information, and account credentials. The registration		
	process is designed to be straightforward while ensuring that all		
	necessary data is collected for proper vetting and account setup.		
Preconditions:	NIL		
Postconditions:	The user can log in		
Priority:	High		
	-		
Frequency of Use:	High		
Flow of Events:	1. The user enters the app and sees the landing page.		
	2. The user clicks the "SIGN UP" option and is directed to a		
	page that asks the user which account they want to create:		
	"Consumer" or "Business Owner".		
	3. The user clicks the "Business Owner" option and is directed		
	to the registration form.		
	4. The user enters their credentials.		
	4.1. The user provides their company name		
	4.2. The user provides an email.		
	4.3. The user provides a phone number.		
	4.4. The user clicks "NEXT" to enter details about their		
	address.		
	5. The user enters their address details.		
	5.1. The user provides their street name.		
	5.2. The user provides their unit number.		
	5.3. The user provides their building name.		
	5.4. The user provides their city, country.		
	5.5. The user provides their postal code.		
	6. The user enters their address details.		
	6.1. The user provides their street name.		
	6.2. The user provides their unit number.		

The user provides their building name. 6.3. 6.4. The user provides their city, country. 6.5. The user provides their postal code. 7. The user enters their bank account details 7.1. The user provides their bank account name. 7.2. The user provides their bank account number 7.3. The user provides the bank. 8. The user chooses their password 8.1. The user provides a password. The user must confirm the password by entering it 8.2. again in another field. 9. The user clicks "REGISTER" to register their details in the system. 9.1. The system validates that the email follows the correct format. The system checks if there is a duplicate email. 9.2. 9.3. The system validates that the phone number follows the correct format. 9.4. The system checks if there is a duplicate phone number. 9.5. The system validates that the provided password is secure enough. 9.6. The system validates if the password entered is the same in both fields. 10. The system creates a new record in the database. 11. The app prompts the user to log in. Alternative Flows: AF01-WH01: The user enters an invalid input at any stage 1. The wholesaler inputs invalid information (e.g., incorrect email format). 2. The system displays error messages before allowing the user to register and prompts the user to fix the input values. 3. The wholesaler corrects the input and resubmits, the system will return to the Login/Sign up Page. AF02-WH01: The password entered in the "Password" and "Confirm Password" fields do not match. 1. User keys in a different password in "Confirm Password" compared to the initial Password. 2. The system prompts the user to re-enter the password,

"Passwords do not match".

Exceptions:	ceptions: EX01-WH01: Existing email or UEN	
	1. The wholesaler inputs an existing email or UEN.	
	2. The system checks with the database and confirms the existing email/UEN.	
	3. The system displays specific error messages that the email or	
	UEN is already registered.	
	4. The wholesaler inputs a different valid email or UEN.	
Includes:	NIL	
Special Requirements:	NIL	
Assumptions:	NIL	
Notes and Issues:	NIL	

Use Case ID:	WH02		
Use Case	Product Management		
Name:			
Created By:	Jun Chao Last Updated By: Jedidiah		
Date Created:	01/09/24	Date Last Updated:	09/11/24

Actor:	Wholesaler	
Description:	The Product Management feature allows wholesalers to add, edit,	
2 Comption.	delete, and manage their product listings on the ShopPeas platform.	
	This feature enables wholesalers to maintain an up-to-date catalogue	
	of their offerings, including product details, pricing, inventory	
	levels, and product images.	
Preconditions:	1. The user must be logged in.	
	2. There must be an existing product management page.	
Postconditions:	1. The product list is updated if necessary	
Priority:	High	
Frequency of Use:	High	
Flow of Events:	1. The wholesaler logs into ShopPeas.	
	a. The system displays the wholesaler's current	
	products, with options for adding new products,	
	viewing existing products, deleting products and	
	editing product information.	
	2. The wholesaler adds a new product.	
	a. The wholesaler clicks on the "Add New Product"	
	button	
	b. The system displays a form with several required	
	information:	
	i. Wholesaler clicks on the selected Product	
	Name based on the existing list given.	
	ii. Wholesaler input the Price	
	iii. Wholesaler input the Current Stockc. The wholesaler fills in the input fields and clicks on	
	the "Add New Product" Button.	
	d. The system validates the input, saves the new product	
	and adds the product to the top of the wholesaler's	
	"My Products" page.	
	3. The wholesaler edits an existing product.	
	a. The wholesaler selects a product from the list and	
	clicks on the edit product icon button.	
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	b. The system displays a form with several required
	information:
	i. Price
	ii. Current Stock
	c. The wholesaler fills in the input fields and clicks on
	the "Update" Button.
	d. The system validates the input
	e. The system displays "Success Product Edited!"
	f. System saves the changes and displays an updated
	product list.
	4. The wholesaler deletes a product.
	a. The wholesaler selects a product from the list and
	clicks on the delete product icon button.
	b. The system displays a confirmation dialogue.
	c. The wholesaler confirms the deletion.
	d. The system displays "Success Product Removed!".
	e. The system removes the products and updates the
	product list.
Alternative Flows:	AF01-WH02: Invalid Product information
	1. The wholesaler enters invalid or incomplete product
	information.
	2. The system does not update the product listing.
	3. The wholesaler resubmits the form to add new products.
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

Use Case ID:	WH03		
Use Case	Order Management (Pe	nding Orders)	
Name:			
Created By:	Saffron Lim	Last Updated By:	Saffron Lim
Date Created:	01/09/2024	Date Last Updated:	09/11/2024

Actor:	Wholesalers	
Description:	Wholesaler will be able to view and manage orders placed by	
	consumers that have not yet been completed (Pending Orders).	
	Pending Orders are categorised into "To be accepted" and "To be	
	completed". Orders can also be searched by Order ID or product.	
Preconditions:	The wholesalers must be logged in	
	2. The wholesalers must have orders that are	
	pending/completed.	
Postconditions:	1. The wholesaler can view their Pending Orders	
Priority:	High	
Frequency of Use:	High	
Flow of Events:	1. The wholesaler accesses the Pending Orders page.	
	a. The wholesaler clicks on the "Transactions" tab at the	
	bottom navigation menu and then selects "Pending	
	Orders" from the drop-down menu.	
	b. By default, the System will display Orders (old to	
	new) that are "To be accepted". Information	
	displayed includes:	
	i. Order ID (OID)	
	ii. Product Name	
	iii. Order Quantity	
	iv. Total Price according to the wholesaler's currency preference	
	c. All Orders that are "To be accepted" are displayed.	
	2. The wholesaler Accepts an order	
	a. The wholesaler navigates to the Pending Orders, "To	
	be accepted" page.	
	b. The wholesaler clicks on the "Accept" button for the	
	Order that the wholesaler wants to Accept.	

c. The system updates the Orders that are "To be accepted" by removing the order that is accepted.

- i. The status of the order (transaction) is updated in Firebase.
- d. The Order that was Accepted can now be found under the "To be completed" page.
- 3. The wholesaler completes an order
 - a. The wholesaler navigates to the Pending Orders, "To be completed" page.
 - b. The wholesaler clicks on the "Complete" button for the Order that the wholesaler has completed.
 - c. The system updates the Orders that are "To be completed" by removing the order that is completed.
 - i. The status of the order (transaction) is updated in Firebase.
 - d. The Order that was completed can now be found under the "Completed Orders" drop down.
- 4. The wholesaler accesses "Completed Orders" page
 - a. The wholesaler clicks on the "Transactions" tab at the bottom navigation menu and then selects "Completed Orders" from the drop-down menu.
 - b. The system provides a list of completed orders and indicates the number of completed orders at the top.
 - i. Order ID (OID)
 - ii. Product Names
 - iii. Order Quantity
 - iv. Total Price according to the wholesaler's currency preference
- 5. The wholesaler searches for an Order
 - a. The wholesaler navigates to the Pending Orders or Completed Orders page.
 - b. The wholesaler enters either the Order ID in the search bar on the top.
 - c. The system retrieves the data from the database and displays appropriate orders matching the Order ID.
 - d. The System displays the search result.

	6. The wholesaler can continue to navigate to other pages.
Alternative Flows:	AF01-WH03: No search results based on specific products
	1. The system is unable to find specific products matching the
	wholesalers's search criteria.
	2. The system displays no results.
	AF02-WH03: No Pending Orders to be Accepted
	1. The system is unable to find any Orders that are pending and
	waiting to be accepted.
	2. The system displays the message "No orders found".
	AF03-WH03: No Pending Orders to be Completed
	1. The system is unable to find any Orders that have not been
	Completed.
	2. The system displays the message "No orders found".
Exceptions:	EX01-WH03: Unable to Retrieve Transactions by Status
	 The system displays an error message.
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

Use Case ID:	WH04		
Use Case	Order Management (Completed Orders)		
Name:			
Created By:	Saffron Lim	Last Updated By:	Saffron
Date Created:	01/09/2024	Date Last Updated:	09/11/2024

Actor:	Wholesalers	
Description:	Wholesalers will be able to view and manage orders placed by consumers that have been completed (Completed Orders). Orders can also be searched by Order ID or product.	
Preconditions:	1. The wholesalers must be logged in	
Postconditions:	The wholesaler can view their Completed Orders.	
Priority:	High	
Frequency of Use:	High	
Flow of Events:	 The wholesaler accesses the Completed Orders page. a. The wholesaler clicks on the "Transactions" tab at the bottom navigation menu and then selects "Complete Orders" from the drop-down menu. b. System will display Completed Orders c. Information displayed for each Order includes:	
Alternative Flows:	 2. The wholesaler searches for an Order a. The wholesaler navigates to the Completed Orders page. b. The wholesaler enters either the Order ID in the search bar. c. The System displays the search result. AF01-WH04: No search results based on specific products 3. The system is unable to find specific products matching the wholesalers's search criteria. 4. The system displays no results. 	

AF02-WH04: No Completed Orders	
	1. The system is unable to find any Orders that have been
	Completed.
	2. The system displays the message "No orders found".
Exceptions:	EX01-WH04: Unable to Retrieve Completed Transactions
	 The system displays an error message.
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL

Use Case ID:	WH05		
Use Case	Profile Management		
Name:			
Created By:	Saffron Lim	Last Updated By:	Yi Xuan
Date Created:	01/09/2024	Date Last Updated:	02/11/2024

Actor:	Wholesalers
Description:	Wholesalers will be able to view their Profile details, including
	account details and products. The wholesaler may edit their account
	details.
Preconditions:	The wholesalers must be logged in
Postconditions:	NIL
Priority:	High
Frequency of Use:	High
Flow of Events:	The wholesaler accesses the Profile page.
	a. The wholesaler clicks on the Profile button in the
	bottom navigation menu.
	b. The System displays the following information:
	i. Wholesaler Profile Image
	ii. Wholesaler Business Name
	iii. Date Joined
	iv. Location
	v. Currency
	vi. Unique Entity Number (UEN)
	vii. Ratings
	viii. Account details:
	1. Contact number
	2. Email
	3. Address
	c. From the Profile page, the wholesaler may navigate
	to the "My Products" page or the "Settings" page.
	2. The wholesaler edits their account details
	a. The wholesaler navigates to the "Profile" page and
	clicks on the "edit" button.
	b. The wholesaler can then amend the following items.
	The form field will display the original values.

Select Preferred Currency (SGD/MYR) using i. the drop-down panel ii. Contact Details iii. Address 1. City 2. Street name 3. Unit Number 4. Building Name 5. Postal Code iv. Bank Account Details 1. Bank 2. Bank Number c. The wholesaler can press the "Save" button to save their changes. d. The system will validate the input values and prompt the user if there are invalid input values. The system will not allow the user to save their changes until the input has been corrected. e. The wholesaler can press the "Cancel" button to cancel their changes. 3. Updating the system a. After the input fields have been valid, the changed details will be saved to the database. b. The system displays "Success! Profile Updated!" c. The system automatically returns to the Home page and users can navigate to the Profile page to check for their changes under the Account Details. Alternative Flows: AF01-WH05: Invalid Contact Details 1. The user enters an invalid contact details format. 2. The system displays error messages when the user tries to save details and prompts users to re-enter relevant fields. 3. The user corrects the input and resubmits AF02-WH05: No Changes Made 1. The user clicks "Save" without making any changes 2. The system detects no changes and returns to the Profile page.

AF03-WH05: Cancels editing	
1. The user clicks on the "cancel" button.	
	2. The system brings the wholesaler back to the Profile page.
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	NIL
Notes and Issues:	NIL