



CAPSTONE PROJECT REPORT

Report 3 – Software Requirement Specification

– Hanoi, Jan 2024 –

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I. Record of Changes

Date	A* M, D	In charge	Change Description
17/01/2024	A	Le Ha Nam	Create report Software Requirement Specification
20/01/2024	M	Le Ha Nam	Modify Entity Relationship Diagram section.
22/01/2024	M	Le Ha Nam	Modify function list Modify uses case diagram
26/01/2024	M	Le Ha Nam	Modify function list Modify uses case description Modify Screen flow description Modify Application message list
31/01/2024	M	Le Ha Nam	Modify entity relationship diagram
10/02/2024	M	Le Ha Nam	Modify screen Mockup Modify uses case description
10/2/2024	A	Chu Van Luan	Create new function requirements for customers.
15/2/2024	A	Chu Van Luan	Create new function requirements for managing accounts.
9/3/2024	M	Chu Van Luan	Update description for Use case.

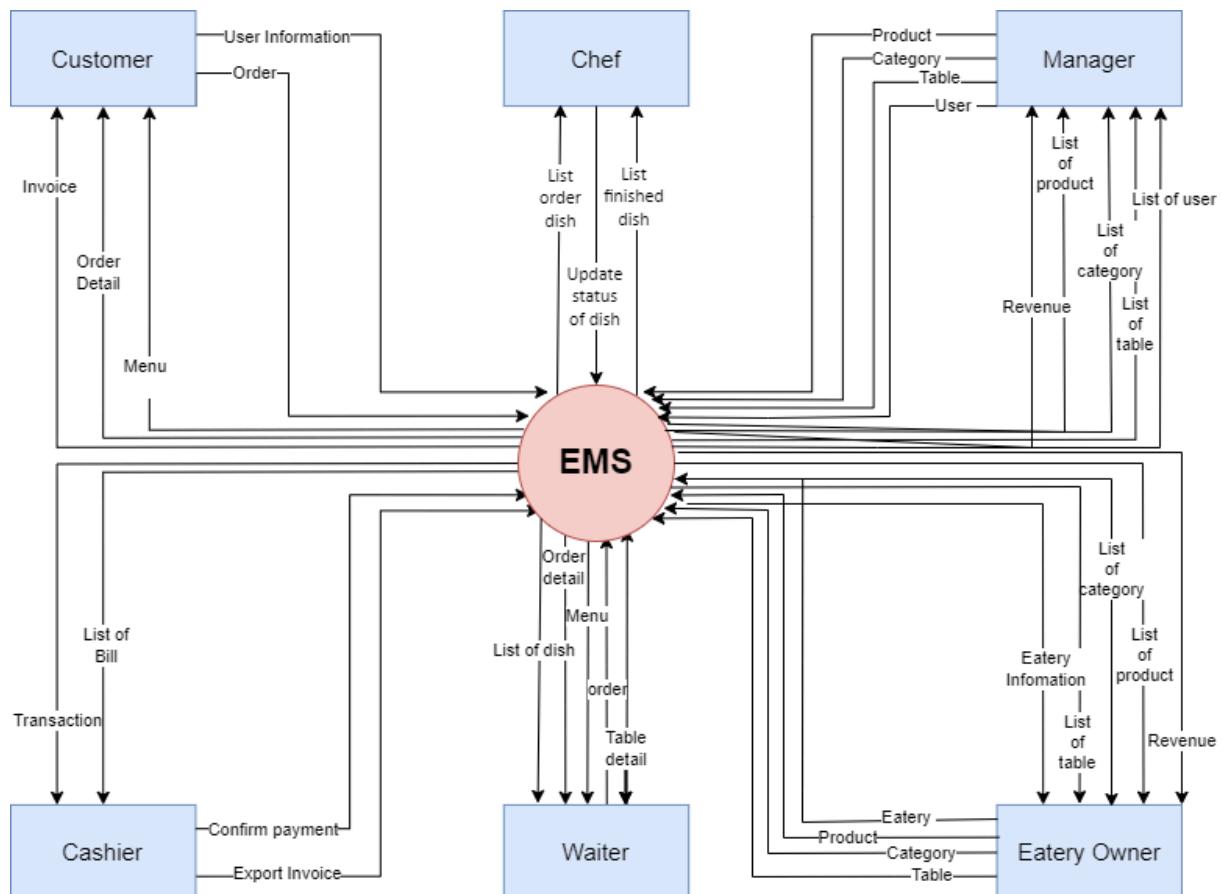
*A - Added M - Modified D - Deleted

Table 1: Record of Changes

II. Software Requirement Specification

1. Overall Requirements

1.1 Context Diagram



Eatery Management System (EMS) is designed to computerise the food ordering process of eatery by automating and integrating various business processes. This system aims to enhance operational efficiency, improve customer service, and facilitate effective management across different functions of the eatery.

The primary objective of the EMS is to provide a comprehensive solution that addresses the needs of various stakeholders including staff, customers, management. The system will offer features for order management, transaction handling, product management, account management, and reporting.

1.2 User Requirements

1.2.1 Actors

#	Actor	Description
1	Eatery owner	The Eatery owner will oversee the entire system. In addition to having similar rights as a manager, they also possess various privileges such as reviewing revenue reports.
2	Manager	Responsible for daily operations of the restaurant. Manage store products, manage categories, manage orders, , manage user roles,check menus, manage tables, manage accounts.
3	Customer	Customers are one of the main actors in the restaurant management system. They are the users of the restaurant's services and products, playing an important role in generating revenue and reputation for the restaurant.
4	Waiter	The waiter, often called Waiter, is one of the main actors in the restaurant management system. They play an important role in providing quality service and creating a positive restaurant experience for customers.
5	Cashier	Cashiers are one of the main actors in the restaurant management system. They are responsible for collecting money from customers and processing payments for services and products that customers have used at the restaurant.
6	Chef	Chef is one of the key actors in the restaurant management system. They take on an important role in preparing and cooking dishes according to customers' requests.
7	User	Users can login, logout, change password, view profile, edit profile

Table 2: Actors

1.2.2 Use Cases

1.2.2.1 Use Case Diagram

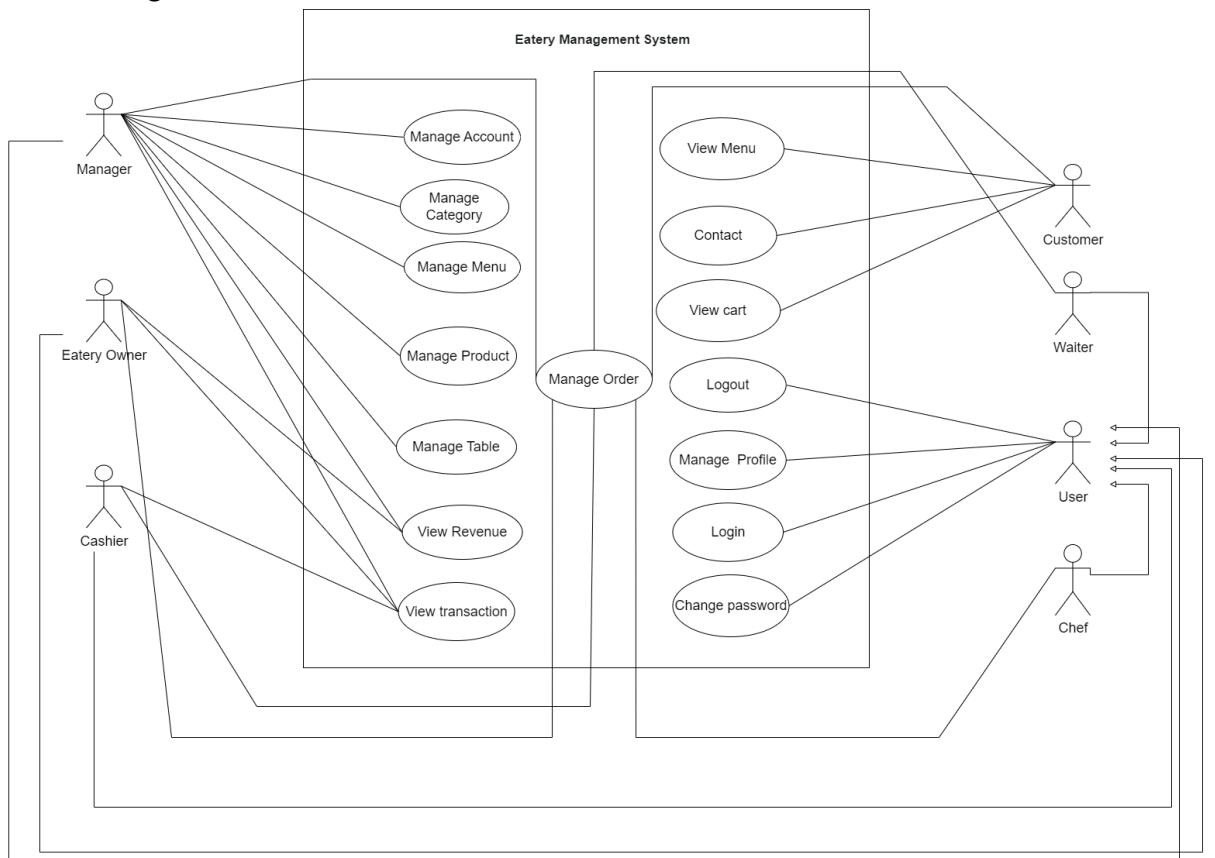


Figure 2: Use case high level

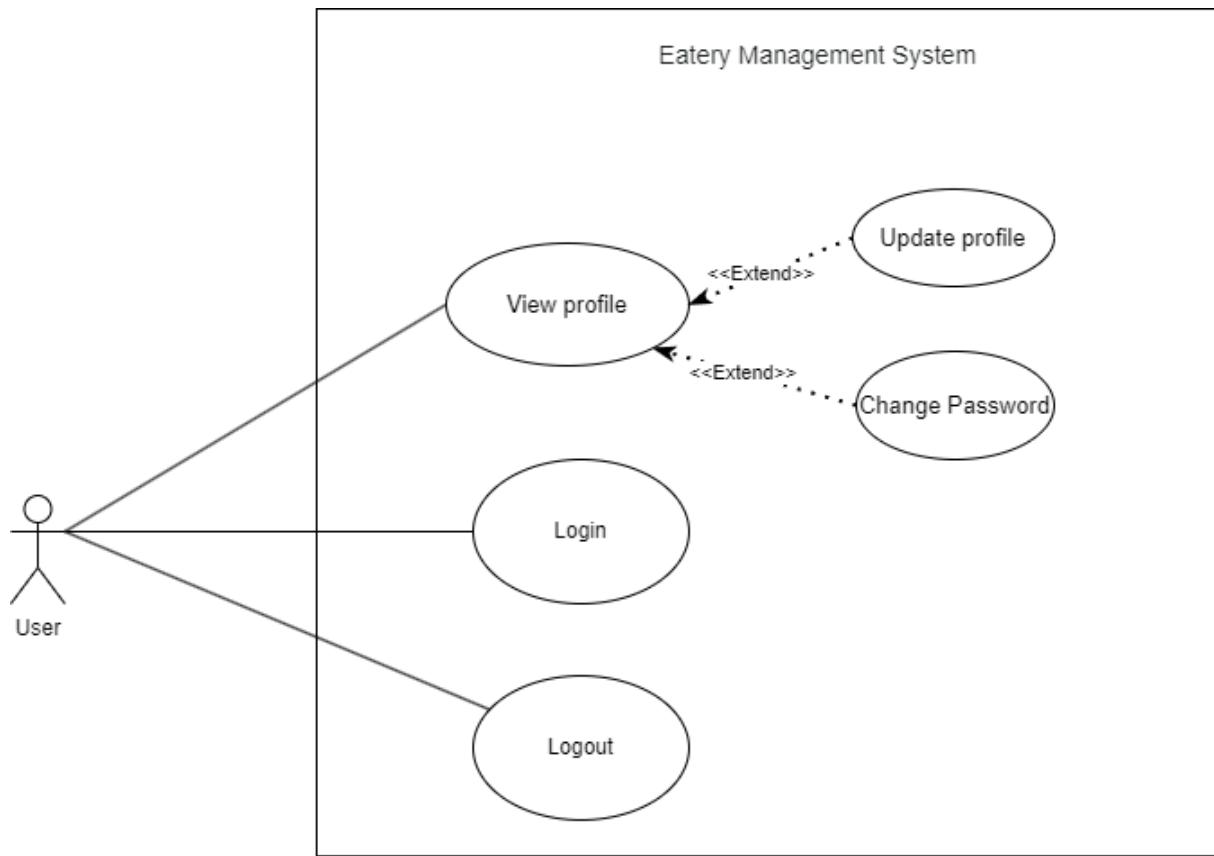


Figure 3: Detail use case User

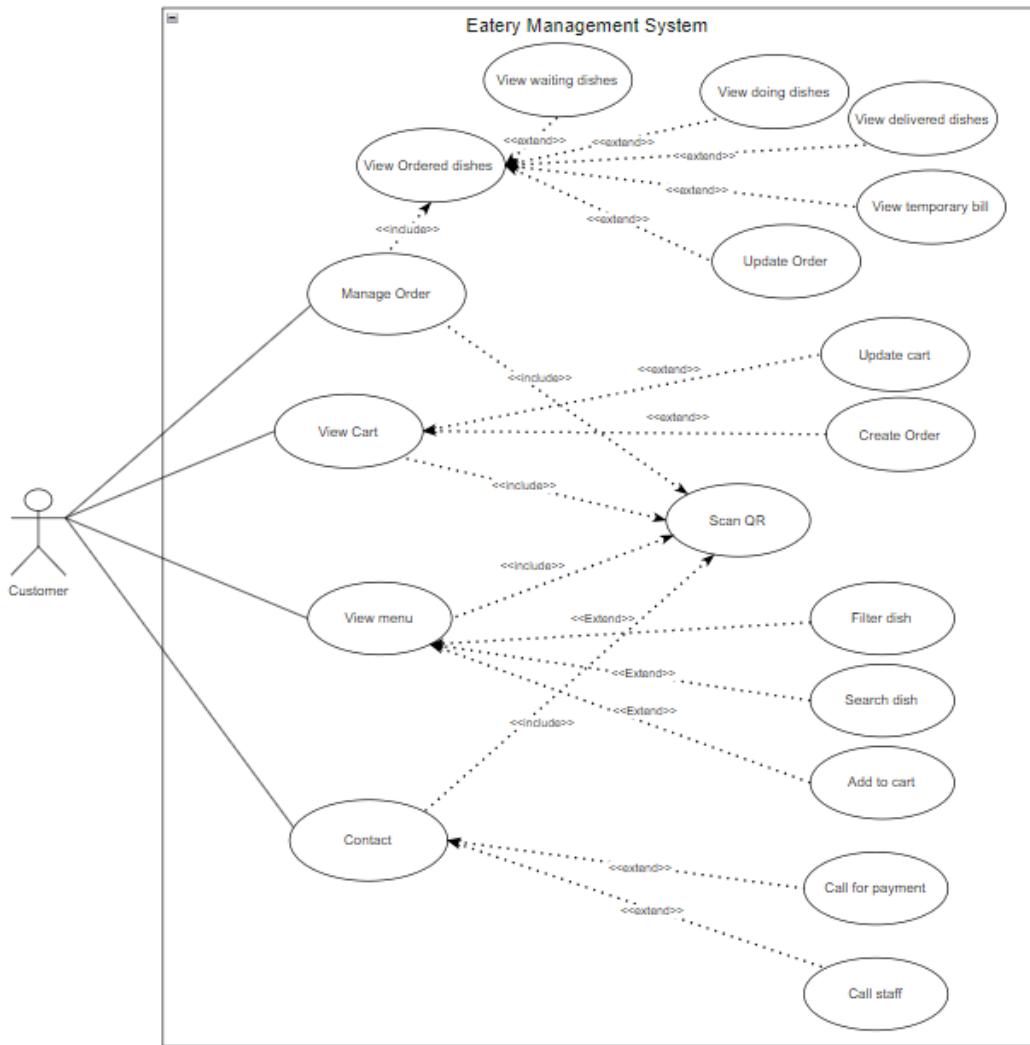


Figure 4: Detail use case Customer

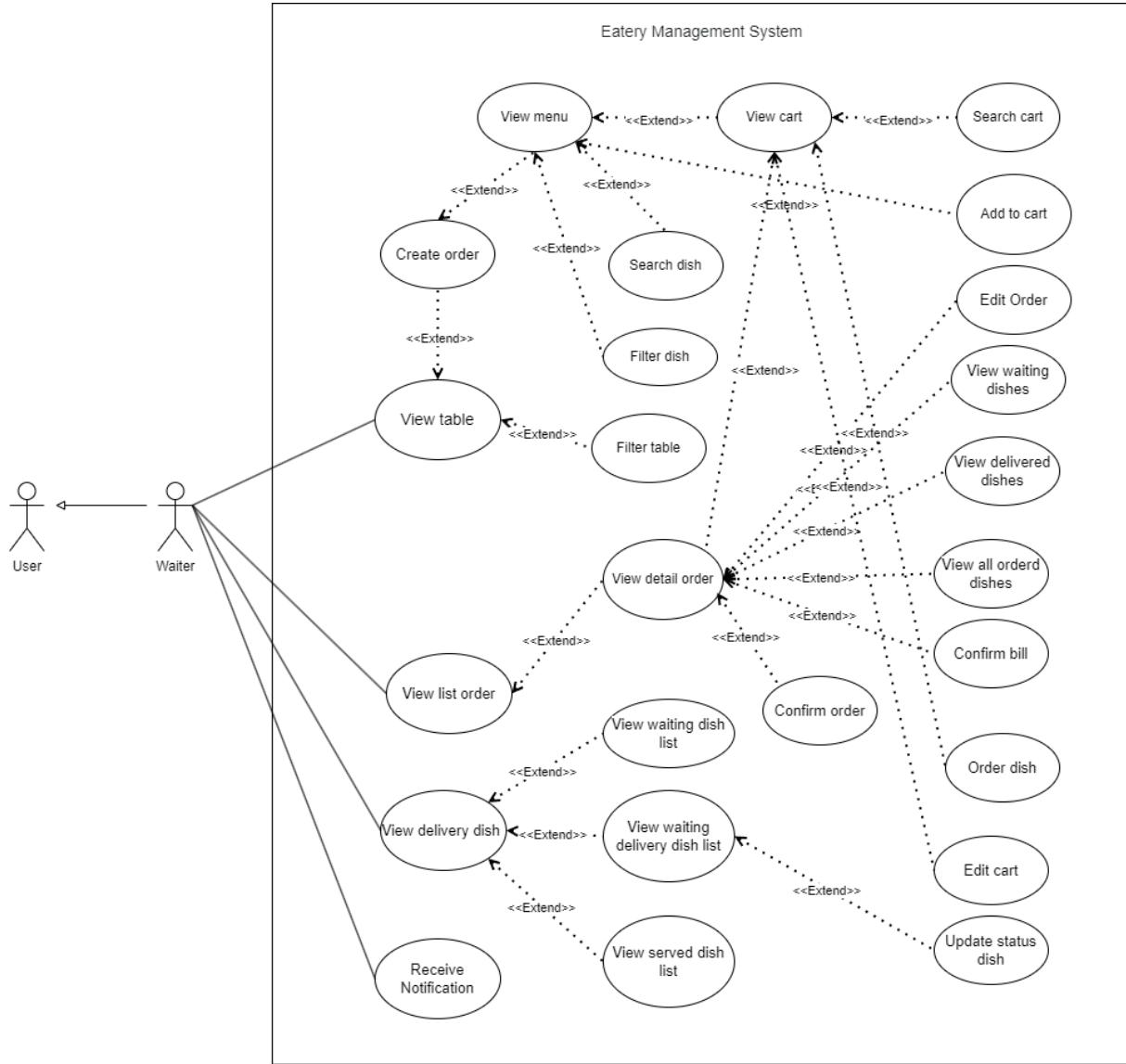


Figure 5: Detail use case Waiter

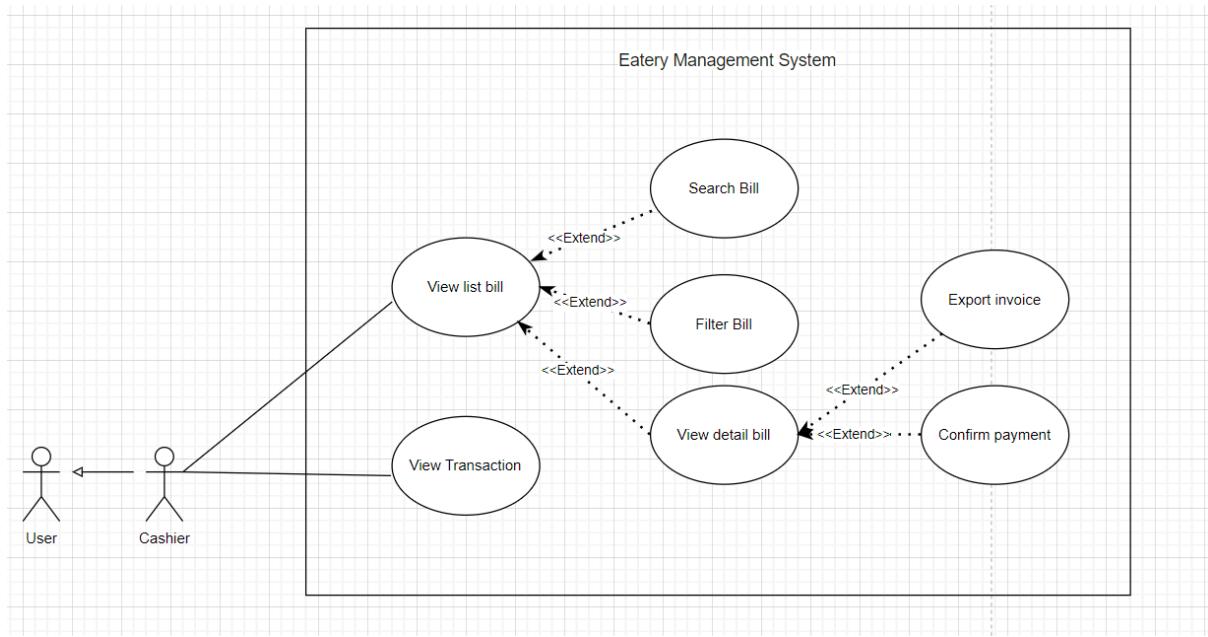


Figure 6: Detail use case Cashier

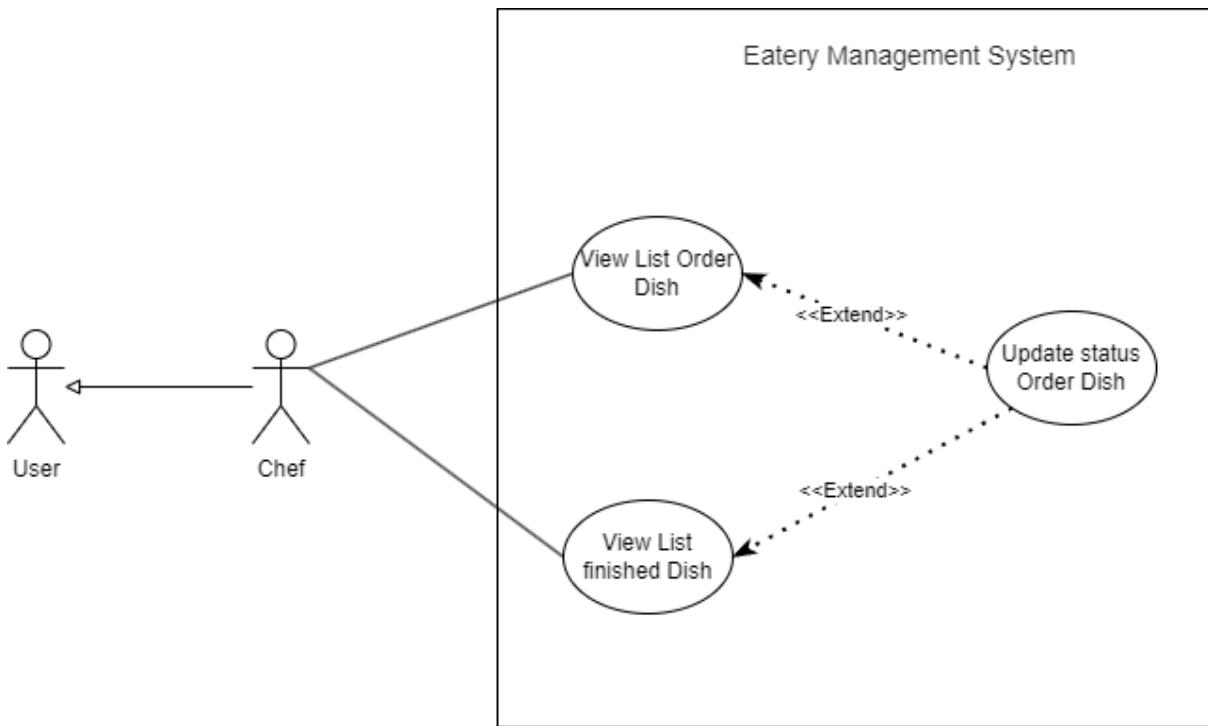


Figure 7: Detail use case Chef



Figure 8: Detail use case Manager



Figure 9: Detail use case Eatery Owner

1.2.2.2 Descriptions

ID	Use Case	Actors	Use Case Description
01	Login	Eatery Owner,Manager,Chef,Cashier,Waiter	This function allows actors to log into the system by entering username, password then actors click the “Login” button..
02	Logout	Eatery Owner,Manager,Chef,Cashier,Waiter	This function allows actors to log out of the system by clicking the “Logout” button.

03	Edit profile	Eatery Owner,Manager,Chef,Cashier,Waiter	This function allows actors to update account information
04	View profile	Eatery Owner,Manager,Chef,Cashier,Waiter	This function allows actors to view profile information
05	Change password	Eatery Owner,Manager,Chef,Cashier,Waiter	This function allows actors to change password
07	View Product	Manager, Eatery Owner	View all products on the system
08	Create product	Manager, Eatery Owner	This function allows actors to create a new product
09	Update product	Manager, Eatery Owner	This function allows actors to update products such as images, name, or description.
10	Delete product	Manager, Eatery Owner	This function allows actors to delete a product
11	Search product	Manager, Eatery Owner	This function allows actors to search product when they fill keyword in the search box
12	Filter product	Manager, Eatery Owner	This function allows actors to search all product by type
13	View table	Manager, Eatery Owner	View all tables on the system
14	Create table	Manager, Eatery Owner	This function allows actors to create a new table
15	Update table	Manager, Eatery Owner	This function allows actors to update tables such as names.
16	Delete table	Manager, Eatery Owner	This function allows actors to delete a table
17	Search table	Manager, Eatery Owner	This function allows actors to search table when they fill keyword in the search box
18	Filter table	Manager, Eatery Owner	This function allows actors to search all tables by type
19	View Category	Manager, Eatery Owner	View all categories on the system
20	Create category	Manager, Eatery Owner	This function allows actors to create a new category
21	Update category	Manager, Eatery Owner	This function allows actors to update categories such as name..
22	Delete category	Manager, Eatery Owner	This function allows actors to delete a category
23	Search category	Manager, Eatery Owner	This function allows actors to search category when they fill keyword in the search box

24	Delete Account	Manager	This function allows actors to delete user in the system.
25	View Revenue	Eatery Owner	This function allows actors to view the store's revenue
26	View transaction	Manager, Eatery Owner, cashier	View history transaction all order.
27	View detail bill	Manager, Eatery Owner, cashier	View detail bill to confirm or export invoice.
28	Export Invoice	Manager, Eatery Owner, cashier	To export invoice for customer.
29	View bill	Manager, Eatery Owner	This function allows actors to view list of bill in system
30	Search bill	Manager, Eatery Owner	This function allows actors to search bill when they fill keyword in the search box
31	Filter bill	Manager, Eatery Owner	This function allows actors to search all bill by type, clicking the "Filter transaction" button from the "Filter transaction" screen.
32	View Order Detail	Manager, Eatery Owner	This function allows actors to view an order detail.
33	View Menu	Customer, waiter	This function allows actors to view list of product in system
34	Scan QR	Customer	Customer will scan the QR code on the table and fill in information then order
35	Search dish	Customer, waiter	This function allows actors to search product by name
36	Filter dish	Customer, waiter	This function allows actors to filter products by type, clicking the "Filter transaction" button from the "Filter transaction" screen.
37	View ordered dishes	Customer	This function allow actors to see a list of dishes they are ordering
38	Update Order	Customer	This function allow actors to update order
39	View cart	Customer	This function allows actors to view cart to order dishes.
40	update cart	Customer	The function allows actors to view updated dishes in their cart.
41	View waiting dishes	Customer	This function allows the actor to view the list of product orders that are waiting for confirm.
42	View doing dishes	Customer	This function allows actors to view the list of product orders that are doing.
43	Create Order	Customer	This function allows actors to create order

44	View delivered dishes	Customer	This function allows actors to view the list of product ordered that are done and served.
45	Add to cart	Customer	This function allows actor to add a dish to cart.
46	Call for Payment	Customer	This function allows actor to start payment.
48	View List Order Dish	Chef	This function allows actors to view a list of dishes that was confirmed.
49	View list finished dish	Chef	This function allows actors to view a list of dishes that were done.
50	Update status order dish	Chef	This function allows actors to update status of dish.
51	Add to cart	Waiter	This function allows actors to add a dish to cart.
52	Search cart	Waiter	This function allows actors to can search dish in cart.
53	View cart	Waiter	This function allows actors to view cart.
54	View table	Waiter	This function allows actors to view a list of table to order.
55	Create Order	Waiter	This function allows actors to create order for customer
56	Filter table	Waiter	This function allows actors to filter the list table for status.
57	View order detail	Waiter	This function allows actors to view an order detail.
58	Edit order	Waiter	This function allows actors to edit order for customer.
59	View waiting dishes	Waiter	This function allows actors to view waiting dishes.
60	View delivered dishes	Waiter	This function allows the actors to view delivered dishes.
61	View all ordered dishes	Waiter	This function allows actors to view ordered dishes.
62	Confirm bill	Waiter	This function allows actors to confirm bill of customer
63	View list order	Waiter	This function allows actors to view list order.
64	View delivery dish	Waiter	This function allows actors to view waiting dishes.
65	View waiting delivery dish list	Waiter	This function allows actors to view the waiting dish list.
66	View served dish list	Waiter	This function allows actors to view the served dish list.
67	Update status dish	Waiter	This function allows actors to update the status of the dish.
68	Receive Notification	Waiter	This function allows actors to receive notification.

69	Search Account	Manager	This function allows actors to search user when they fill keyword in the search box
70	Filter Account	Manager	This function allows actors to search all users by type, clicking the “Filter transaction” button from the “Filter transaction” screen.
71	Create Account	Manager	This function allows actors to add users to the system.
72	Update Account	Manager	This function allows actors to edit user information in the system.

Table 3: Use case description

1.2.3 UCD Eatery Owner

1. Diagram



Figure 9: Eatery Owner Use case

2. Descriptions

ID	Use Case	Actors	Use Case Description
01	Manage Product	Eatery Owner	This function allows actors to manage product in system
02	Manage Table	Eatery Owner	This function allows actors to manage table in system
03	Manage Category	Eatery Owner	This function allows actors to manage category in system
04	View Revenue	Eatery Owner	This function allows actors to view revenue in system
05	Manage Order	Eatery Owner	This function allows actors to manage order in system
06	View Transaction	Eatery Owner	This function allows actors to view transaction in system

Table 4:UCD Eatery Owner

1.2.4 UCD Manager

1. Diagram(s)

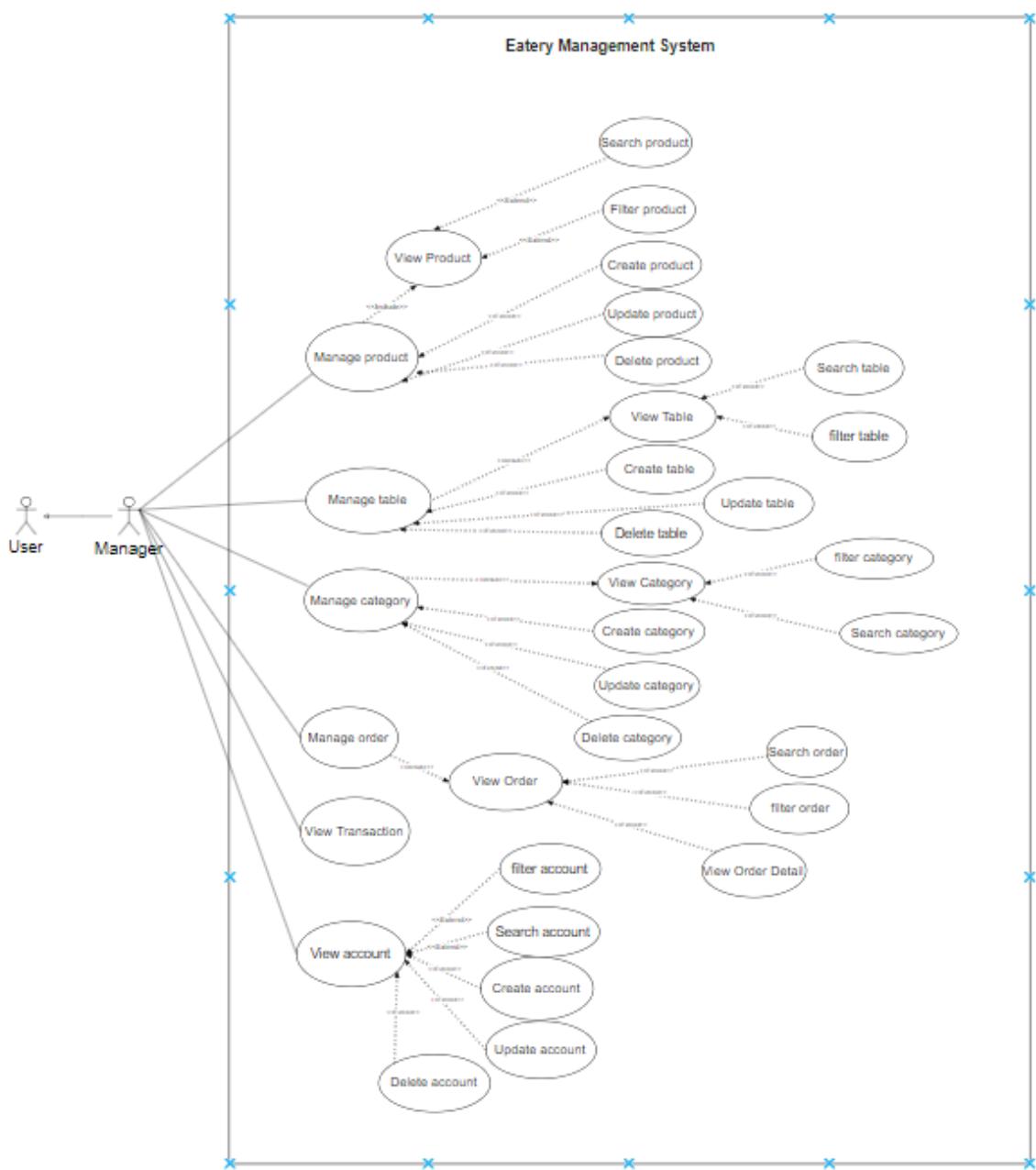


Figure 10: Manager Use case

2. Descriptions

ID	Use Case	Actors	Use Case Description
01	Manage Account	Manager	The Manager can search and filter accounts, create staff accounts, view account information, and edit account details.
02	Manage Product	Manager	This function allows actors to manage product in system

03	Manage Table	Manager	This function allows actors to manage table in system
04	Manage Category	Manager	This function allows actors to manage category in system
05	View Revenue	Manager	This function allows actors to view revenue in system
06	Manage Order	Manager	This function allows actors to manage order in system
07	View Transaction	Manager	This function allows actors to view transaction in system

Table 5: UCD Manager

1.2.5 UCD Chef

1. Diagram(s)

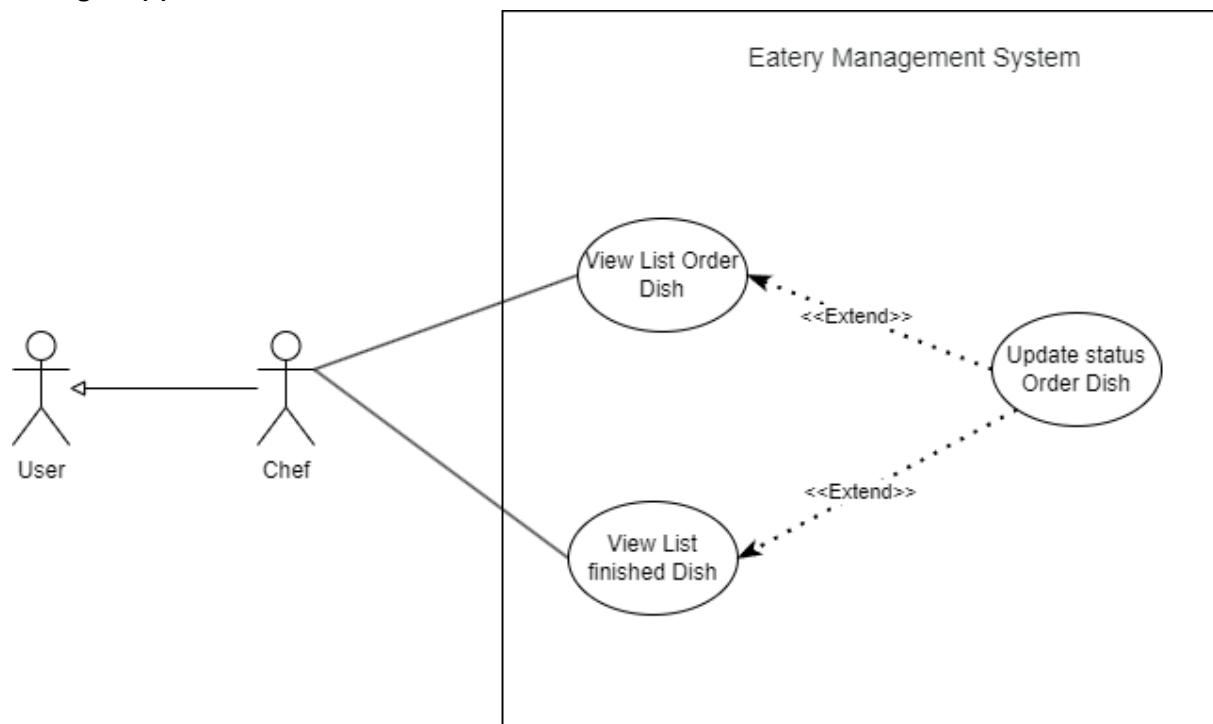


Figure 11:UCD Chef

2. Descriptions

ID	Use Case	Actors	Use Case Description
01	View List Order Dish	Chef	Chef can view list of order dish from waiter or customer
02	Update status order dish	Chef	Chef update status for customer or waiter knows status of dish
03	View list finished dish	Chef	Chef can view list of order dish is done

Table 6: Description

1.2.6 UCD Cashier

1. Diagram(s)

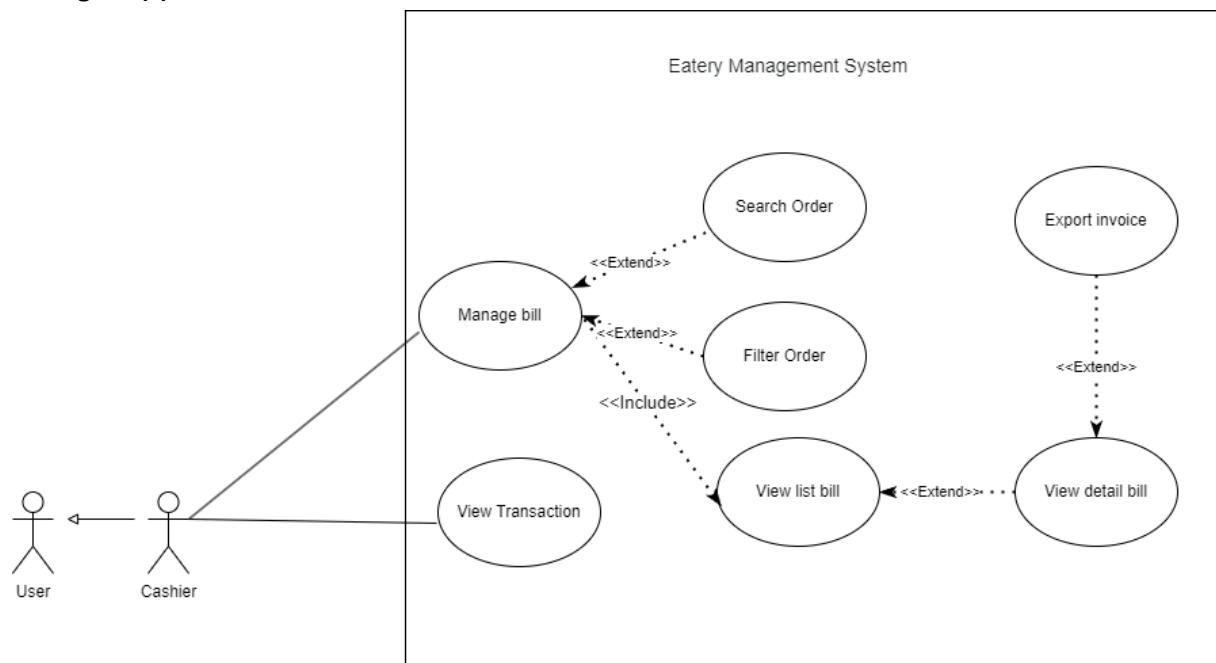


Figure 12: Cashier Use case

2. Descriptions

ID	Use Case	Actors	Use Case Description
01	Manage Order	Cashier	Cashiers are responsible for the order management process, which includes the ability to search and filter orders, create new orders, view existing orders, and update orders. Additionally, they can update the order status to 'Processing' and further to 'Delivered to customer'.
02	Display Transaction	Cashier	The Cashier can manage financial transactions related to customer orders. This includes processing payments and handling the financial aspects of orders.

Table 7: UCD Cashier Description

1.2.7 UCD Waiter

1. Diagram(s)

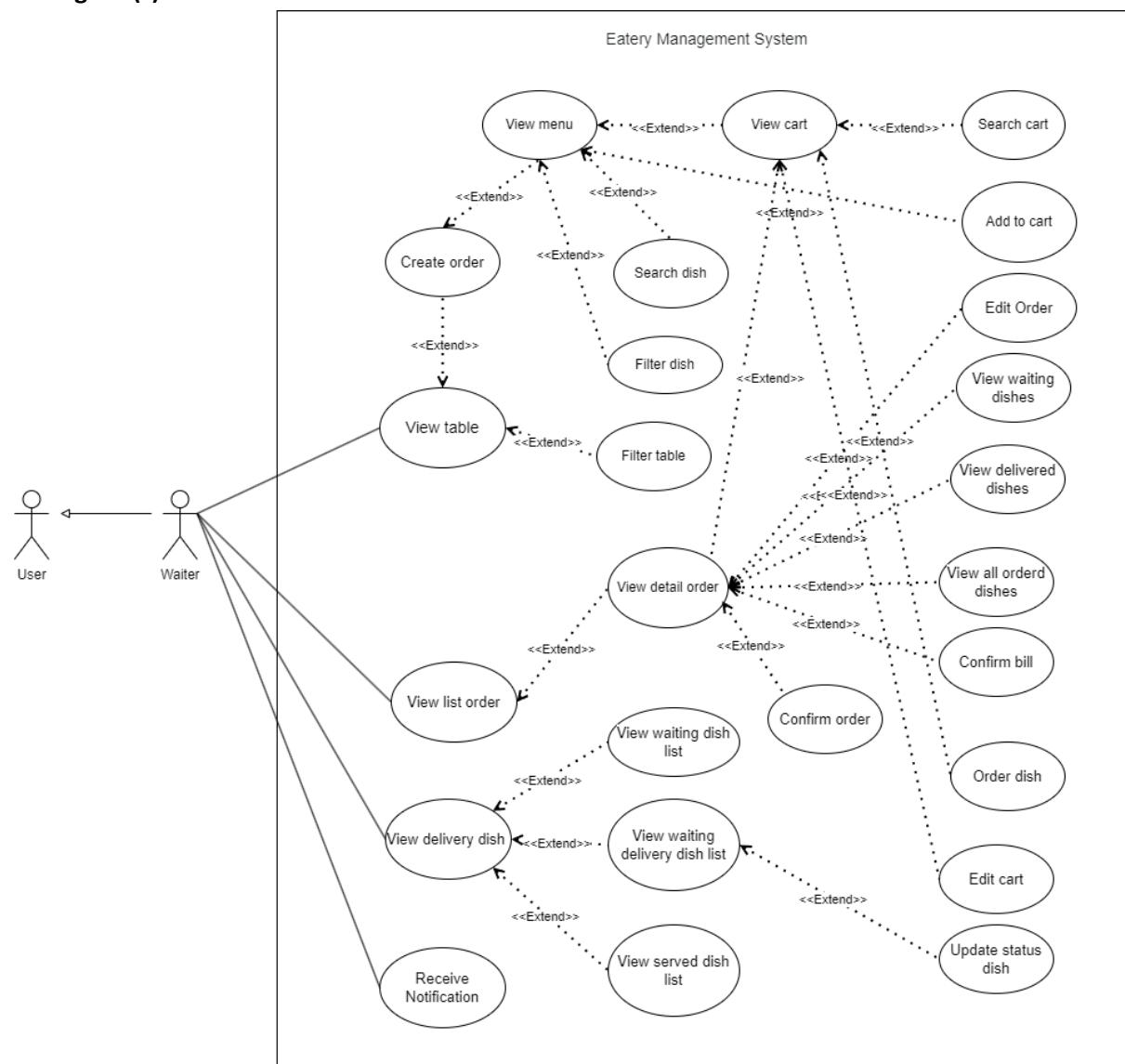


Figure 13: Waiter Use case

2. Descriptions

ID	Use Case	Actors	Use Case Description
01	View Menu	<i>Waiter</i>	Allows Users to browse the full list of available dishes, including descriptions and prices.
02	View Delivery Dish	<i>Waiter</i>	Users receive information on dishes that have been ordered and are currently being delivered.
03	Receive Notification	<i>Waiter</i>	Users and Waiters get alerts for various activities, like order status updates or table availability.
04	Search Dish	<i>Waiter</i>	Allows Users to look up specific dishes by name or ingredient.
05	Filter Dish	<i>Waiter</i>	Users can apply filters to the menu to narrow down dish options based on criteria like dish type or dietary restrictions.
06	Search Cart	<i>Waiter</i>	Users can review items that they have added to their order cart.
07	Add to Cart	<i>Waiter</i>	Users select dishes from the menu to add to their current order.
08	Edit Order	<i>Waiter</i>	Users and Waiters have the ability to make changes to the details of an order before it is finalised.
09	View Waiting Dishes	<i>Waiter</i>	Waiters can monitor dishes that have been ordered but are not yet prepared or delivered.
10	View Delivered Dishes	<i>Waiter</i>	Waiters can track which dishes have been successfully delivered to the tables.
11	View All Ordered Dishes	<i>Waiter</i>	Waiters have an overview of all the dishes that have been ordered throughout the eatery.
12	Confirm Bill	<i>Waiter</i>	Waiters can finalise the billing process for a customer's order.
13	Order Dish	<i>Waiter</i>	Enables Waiters to place orders on behalf of the User
14	Edit Cart	<i>Waiter</i>	Users can modify the contents of their order cart, including adding or removing items.
15	Update Status Dish	<i>Waiter</i>	Waiters can update the status of a dish, marking it as prepared, delivered, or cancelled.

16	Receive Notification	Waiter	Users and Waiters get alerts for various activities, like order status updates or table availability.
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Table 8: UCD Waiter Description

1.2.8 UCD Customer

1. Diagram(s)

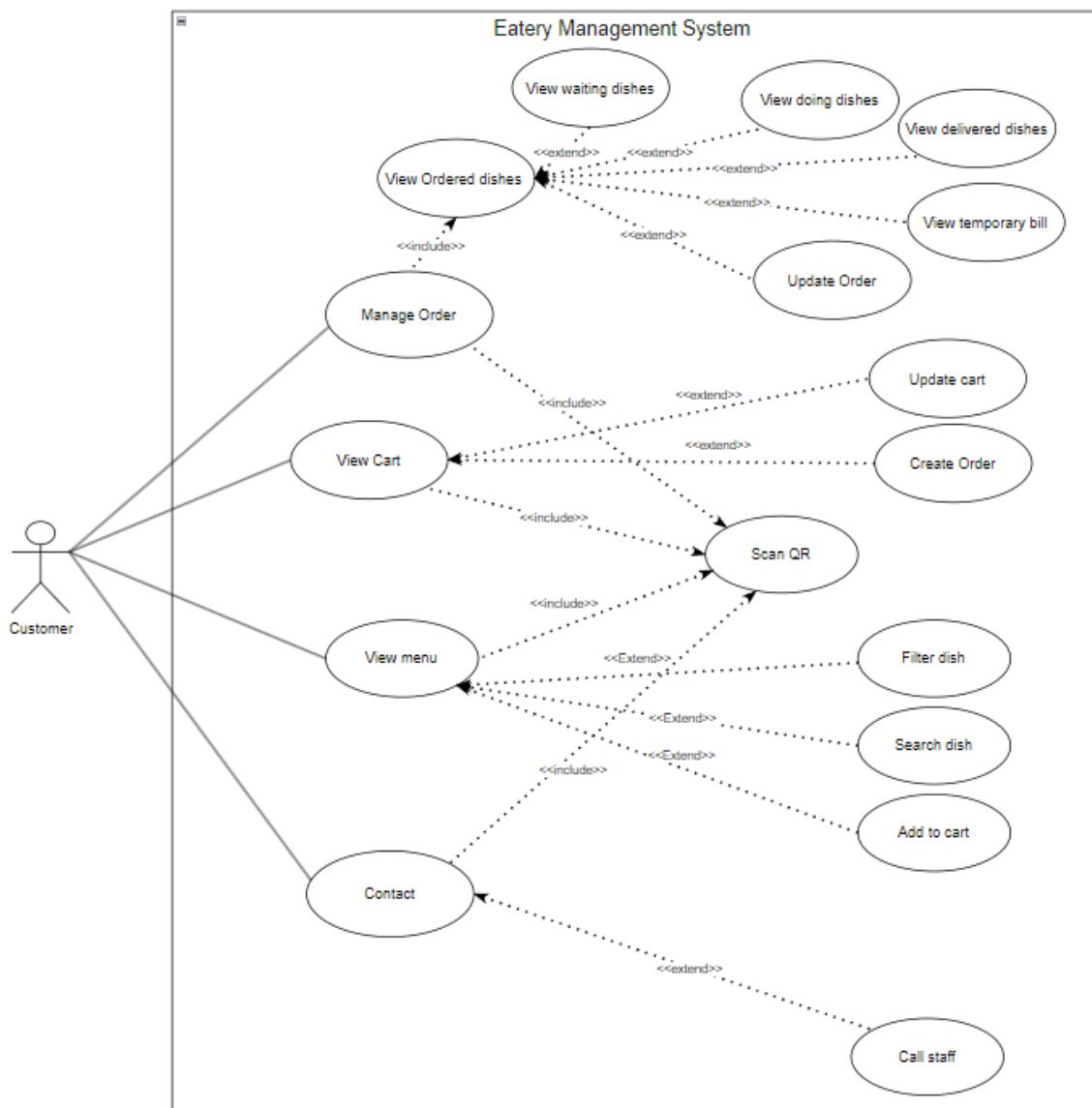


Figure 14: Customer Use case

2. Descriptions

ID	Use Case	Actors	Use Case Description
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01	View Menu	Customer	Allows customers to browse the restaurant's offerings, including dishes, descriptions, and prices.
02	Scan QR	Customer	Customers can scan a QR code to quickly access the eatery's services, such as the menu or ordering system.
03	Contact	Customer	Provides customers with the means to contact the eatery for inquiries or special requests.
04	View Cart	Customer	Customers can review the items they have selected before finalising their order.
05	Manage Order	Customer	Enables customers to oversee their orders, including viewing, updating, or cancelling them.
06	View Ordered Dishes	Customer	Customers can check the list of dishes they have ordered during their current visit.
07	View Waiting Dishes	Customer	Allows customers to see which dishes are being prepared and are yet to be served.
08	View Doing Dishes	Customer	Customers can view the status of dishes that are in the process of being cooked
09	View Delivered Dishes	Customer	Customers can check which dishes have been served to their table.
10	View Temporary Bill	Customer	Customers can view an interim bill to check the items and their prices before requesting the final bill.
11	Update Order	Customer	Enables customers to make changes to their existing order, such as adding or removing dishes.
12	Update Cart	Customer	Customers can update their selection of dishes in the cart before placing the order.
13	Create Order	Customer	Allows customers to finalise and place their order after selecting their dishes.
14	Filter Dish	Customer	Customers can filter dishes based on categories, ingredients, or other preferences.
15	Search Dish	Customer	Enables customers to search for specific dishes by name or keyword.
16	Add to Cart	Customer	Customers can select dishes to add to their order cart.

Table 9: UCD Customer Description

1.3 System Functionalities

1.3.1 Screens Flow

1.3.1.1 Screen flow for Eatery Owner

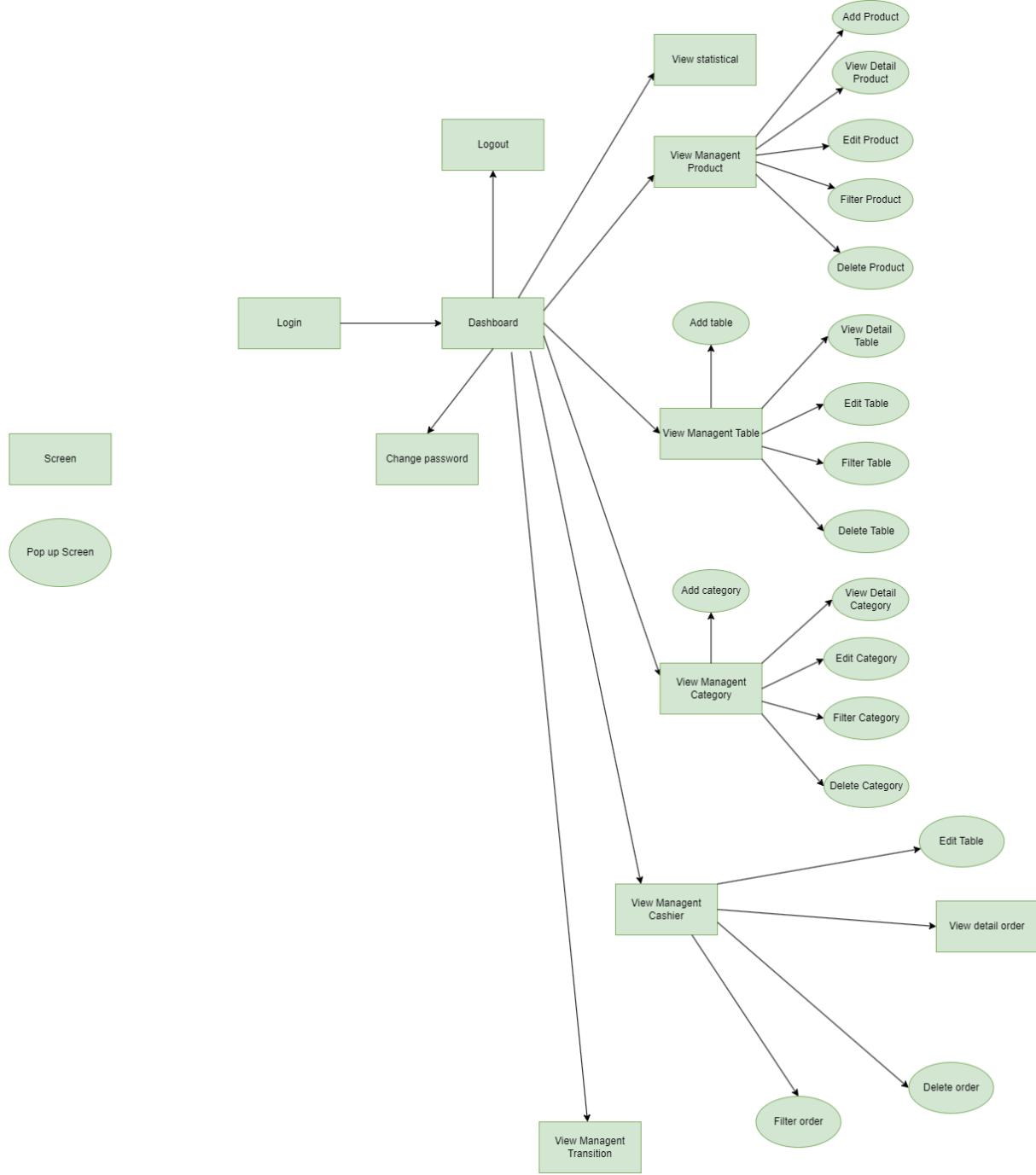


Figure 15: Screen flow for Eatery Owner

1.3.1.2 Screen flow for Manager

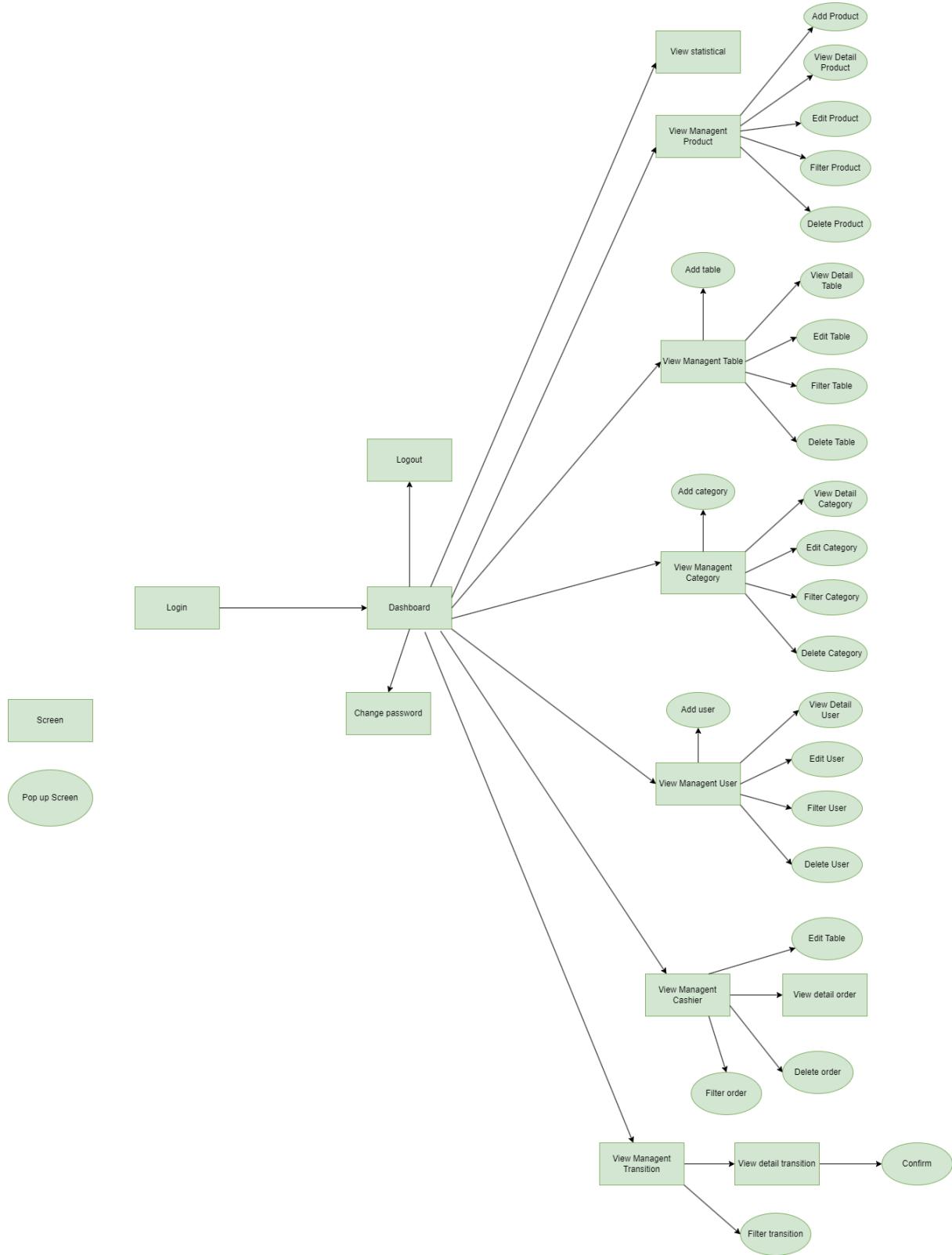


Figure 16: Screen flow for Manager

1.3.1.3 Screen flow for Cashier

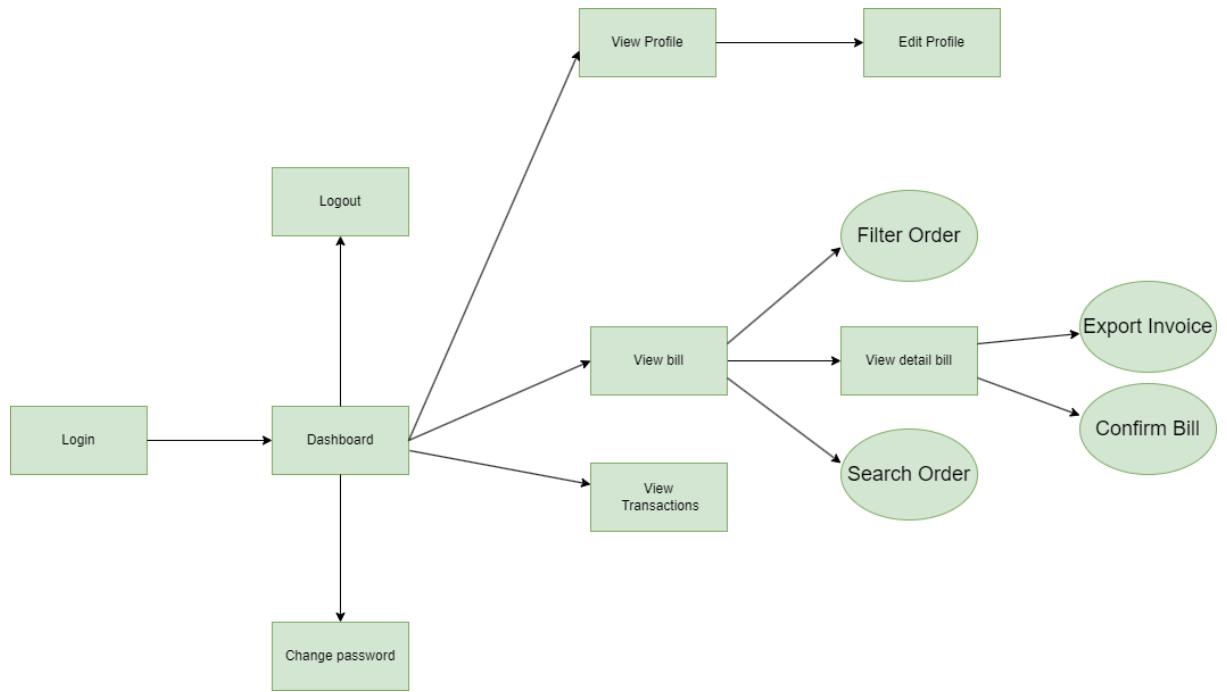


Figure 17: Screen flow for Cashier

1.3.1.4 Screen flow for Chef

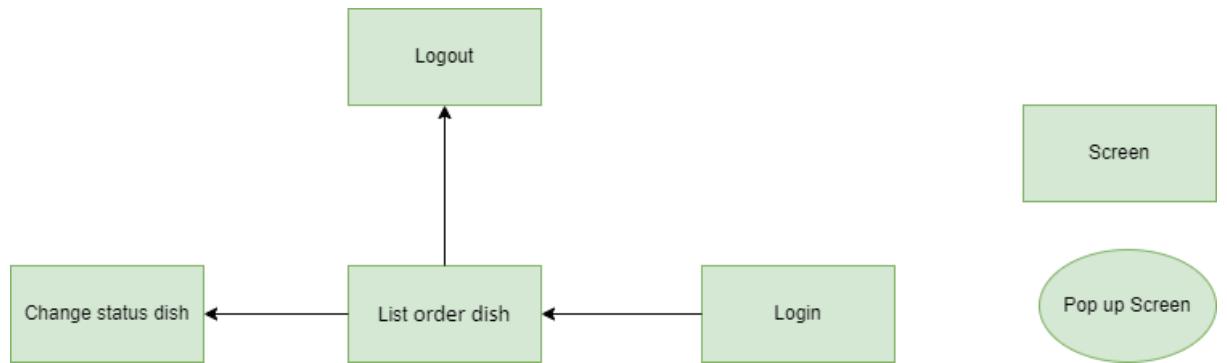


Figure 18: Screen flow for chef

1.3.1.5 Screen flow for Waiter

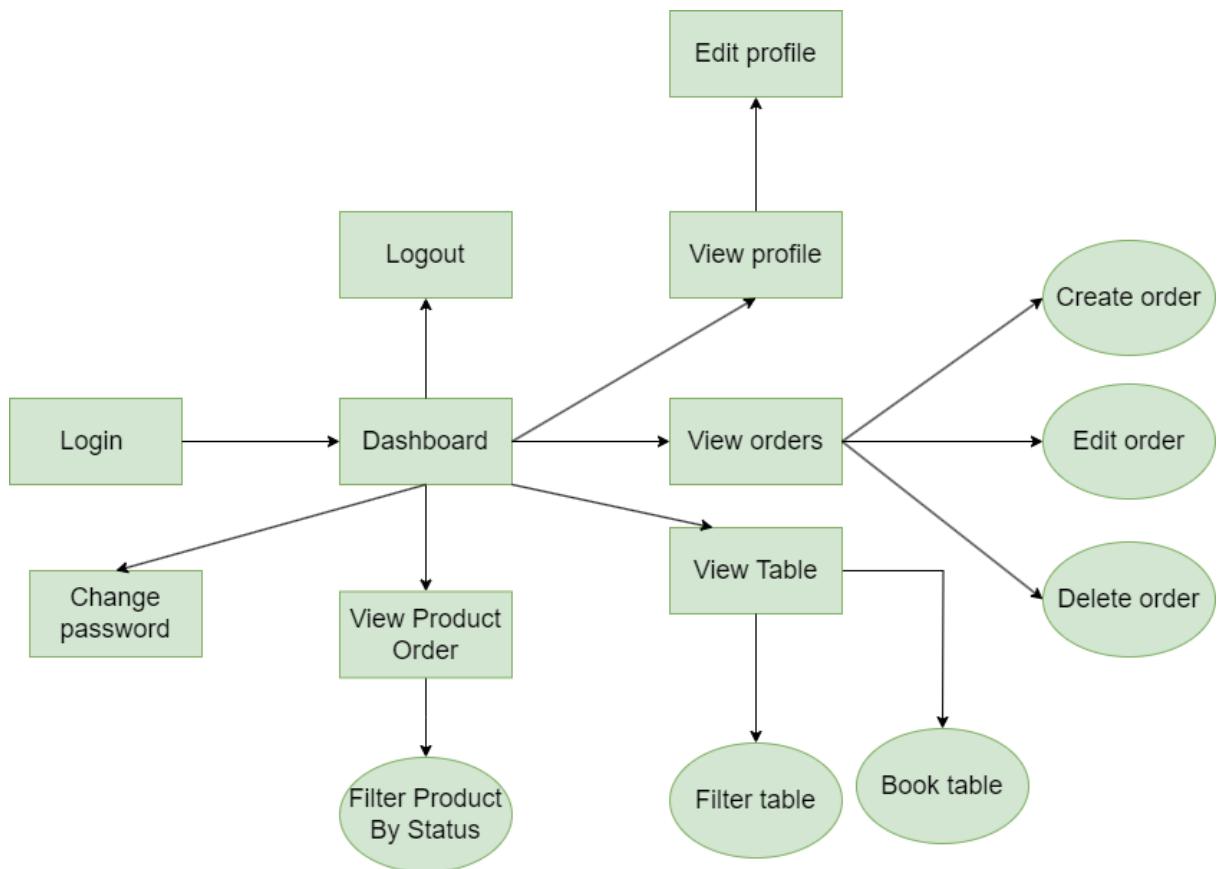


Figure 19: Screen flow for Waiter

1.3.1.6 Screen flow for Customer

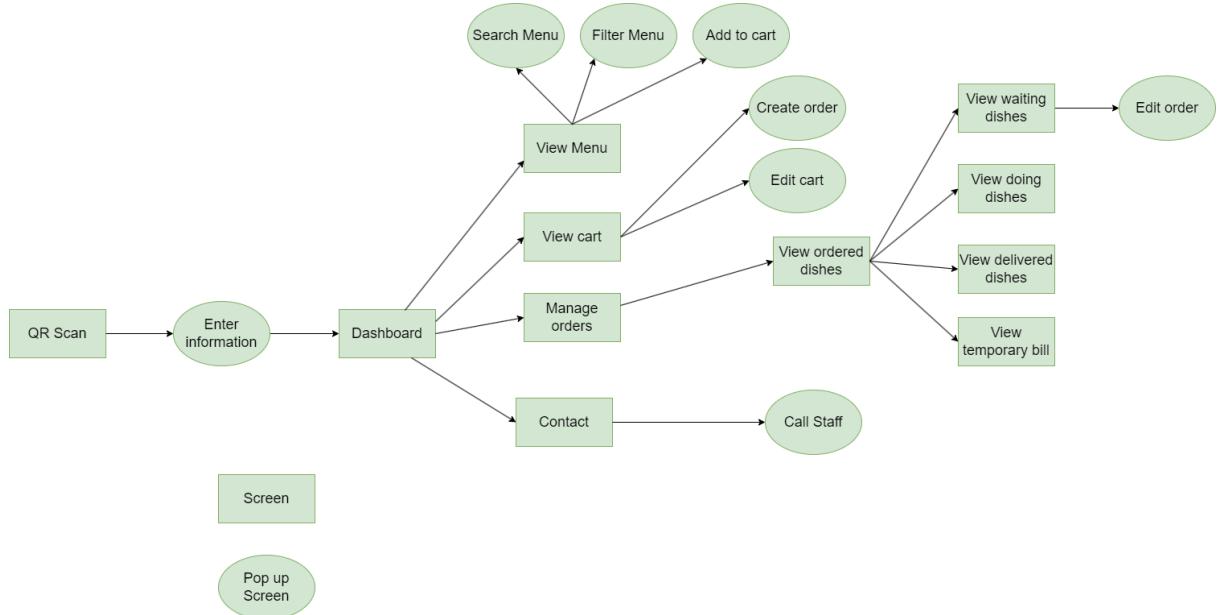


Figure 20: Screen flow for Customer

1.3.2 Screen Descriptions

1.3.2.1 Screen Description for Eatery Owner

#	Feature	Screen	Description
1	Common	Dashboard	The screen will display statistics of the system
2	User Authentication	Login	Screen for login to the application
		Change password	Screen for changing password
3	Manage Product	List Product	Screen display information of all products in the system
		Create Product	Screen for manager to create product
		Detail Product	Screen display detail information of product
		Delete Product	Screen display confirmation dialog
4	Mange Table	List Table	Screen display information of all table in the system
		Create table	Screen for manager to create table
		Detail table	Screen display detail information of table
		Delete table	Screen display confirmation dialog
5	Manage Category	List Category	Screen display information of all categories in the system
		Create Category	Screen for manager to create category
		Detail Category	Screen display detail information of category
		Delete Category	Screen display confirmation dialog
6	Manage Order	List Order	Screen display information of all orders in the system
		Detail Order	Screen display detail information of order

Table 10: Screen Eatery Owner Description

1.3.2.2 Screen Description for Manager

#	Feature	Screen	Description
1	Common	Dashboard	The screen will display statistics of the system
2	User Authentication	Login	Screen for login to the application
		Change password	Screen for changing password
3	Manage Product	List Product	Screen display information of all products in the system
		Create Product	Screen for manager to create product
		Detail Product	Screen display detail information of product
		Delete Product	Screen display confirmation dialog
4	Mange Table	List Table	Screen display information of all table in the system

4		Create table	Screen for manager to create table
		Detail table	Screen display detail information of table
		Delete table	Screen display confirmation dialog
5	Manage Category	List Category	Screen display information of all categories in the system
		Create Category	Screen for manager to create category
		Detail Category	Screen display detail information of category
		Delete Category	Screen display confirmation dialog
6	Manage Order	List Order	Screen display information of all orders in the system
		Detail Order	Screen display detail information of order
7	View manage user	Add user	Screen display for manager add more user
		View Detail user	Screen display for manager view detail user
		Edit user	Screen display for manager edit information of user
		Filter user	Screen display for manager filter user by name
		Delete user	Screen display for manager delete user
8	View management transaction	View detail transaction	Screen display for manager view detail transaction
		Filter transaction	Screen display for manager filter transaction
		Confirm	Screen display for manager confirm transaction

Table 11: Screen Waiter Description

1.3.2.3 Screen Description for Cashier

#	Feature	Screen	Description
1	Authentication	Login	Screen for login to the application
		Change password	Screen for changing password
2	Manage profile	View profile	Screen for view profile
		Edit profile	Screen for edit profile
3	Manage bill	View bill	Screen for view all bill
4	Manage transaction	View Transactions	Screen for view all transaction
5	Manage bill	Filter Order	Screen for filter order
		View detail bill	Screen for view detail a bill
		Search Order	Screen for search a order
		Export Invoice	Screen for export a bill for customer
		Confirm Bill	Screen for confirm customer pay bill

Table 11: Screen Cashier Description

1.3.2.4 Screen Description for Chef

#	Feature	Screen	Description
1	Authentication	Login	Screen for login to the application
2	Manage Order	List Order/Change status order	Screen displays a list and Chef change status Order from Waiting for processing to Done

Table 12: Screen Chef Description

1.3.2.5 Screen Description for Waiter

#	Feature	Screen	Description
1	Common	Dashboard	The screen is the home page of the waiter. It has links to other pages of the waiter..
		View profile	After login, the waiter can view their profile information such as name , account, phone, email, picture.
		Edit profile	After viewing their profile, they can change their information such as name , account, phone, email, picture.
2	Authentication	Login	Screen for login to the application
		Change password	Screen for changing password
3	Manage Order	View Orders	Screen display information of all orders in the system
		Create Order	Screen for creating an order if customers don't have a cellphone to order.
		Edit Order	Screen for change the order such as change the foods, more or less number of foods or delete the foods.
		Delete Order	If a waiter creates an order but customers don't want to eat any more and the food is not served yet, they can delete that order.
4	Contact	Response Customer	If customers have problems and ping the waiters, the waiters can response the customers and solve the problems

Table 13: Screen Waiter Description

1.3.2.6 Screen Description for Customer

#	Feature	Screen	Description
1	Enter website	Scan QR	Customers scan QR code to access the system and view menu, create order and contact with the waiter.
		Enter information	Customers input name and select table to order.

3	Order foods	View Menu	Customers can view all products of the store such as categories, dishes, drinks, desserts.
Add to cart		Customers select a dish and pop up a detailed dish open and they can add it to cart.	
Search menu		Customers can search for a dish.	
Filter menu		Customers can filter the menu for categories.	
Edit cart		If customers create an order but they don't want to eat any more and the food is not served yet, they can delete that order.	
View cart		After customers finish eating, they will start to pay all what they call from order by cash or banking.	
Create Order		After customers view the menu and choose foods, they can start to create an order.	
Edit cart		Customers can edit their cart by increasing or decreasing the number of dishes and delete dishes.	
View history order		Customers can view all dishes that they just ordered.	
Edit order		After customers create an order so they can change the order such as change the foods, more or less number of foods or delete the foods.	
View ordered dishes		Customers can track their order.	
View waiting dishes		Customers can see all dishes they just ordered in status and wait for the waiter to confirm their order.	
View doing dishes		Customers can see all dishes that have been confirmed and start cooking.	
View delivered dishes		Customers can see all dishes that have been delivered to them.	
View temporary bill		Customers can see all dishes that they just ordered and total money.	
18	Contact	Call for payment	If they finish a meal, they can click the button for payment and start paying for the meal.

Table 14: Screen Customer Description

1.3.3 Screen Authorization

Screen	Eatery Owner	Manager	Cashier	Chef	Waiter	Customer
Login	X	X	X	X	X	
Logout	X	X	X	X	X	
Change Password	X	X	X	X	X	
Edit Profile	X	X	X	X	X	
View Profile	X	X	X	X	X	
View Waiting Dish					X	X
View Delivery Dish	X	X			X	X
View Revenue	X					
View Category Detail	X	X				
View List User		X				

View List Bill	X	X	X			
View Transaction	X	X	X			
View Cart					X	X
View List Category	X	X				
View List Product	X	X				
View Serve Dish List					X	X
View Finish Dish List					X	X
View Delivery Dish					X	
View Waiting Dish					X	
View List Table	X	X			X	
View Transactions	X	X	X			
View list order dish				X		
View list finished dish				X		
View temp bill					X	X
View Dashboard	X					
Order Dish						X
View history order						X
Export Invoice			X			
Confirm bill					X	

Table 15: Screen Authorization

1.3.4 Entity Relationship Diagram

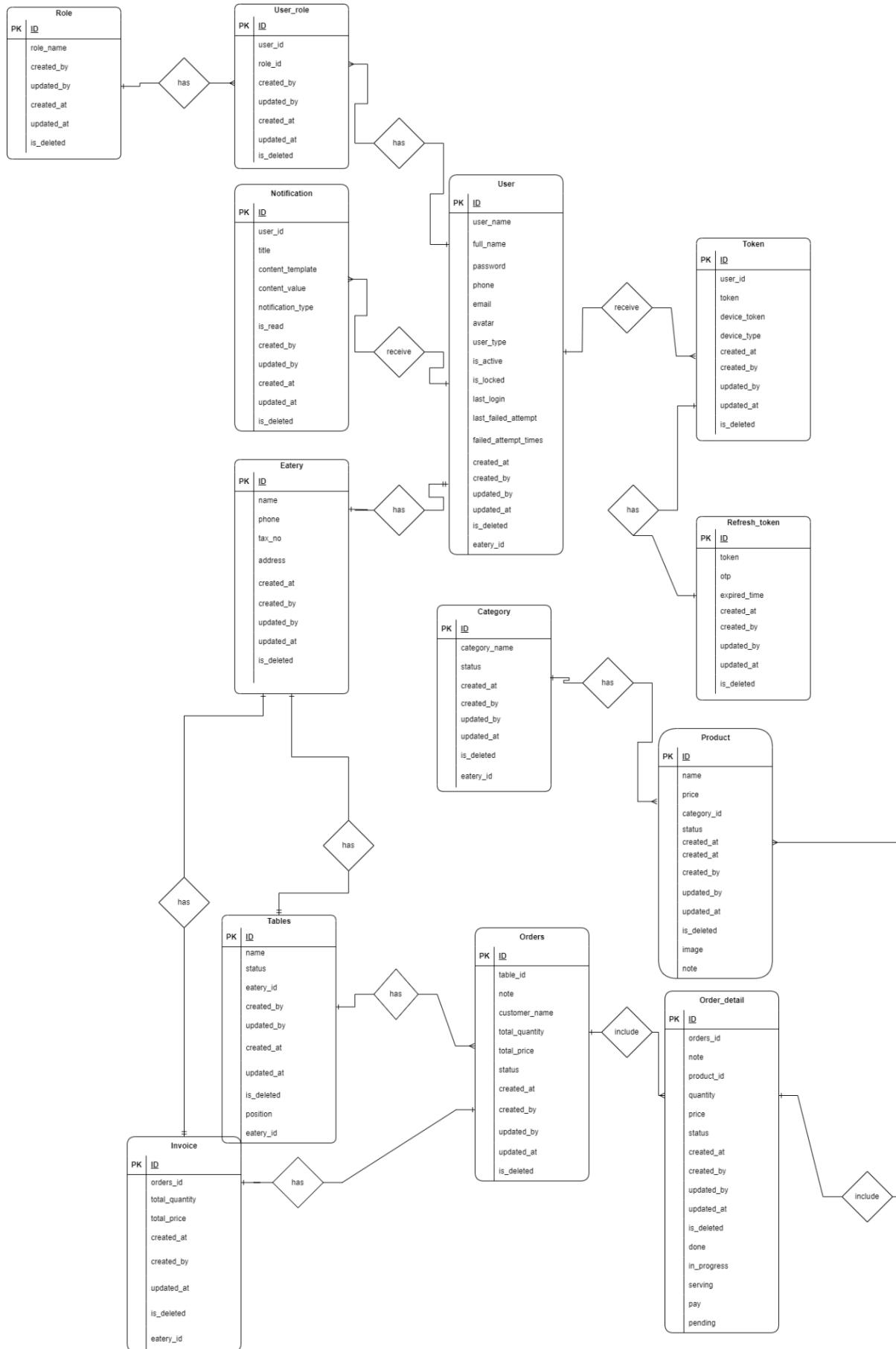


Figure 21: Entity Relationship Diagram

Entities Description

#	Entity	Description
1	Role	To display the name of the role.
2	Tables	To display table information.
3	Notification	All notifications for waiters.
4	User_role	To display the role of users.
5	Order_detail	Order detail of order
6	Invoice	Invoice of customer.
7	Orders	Order of customer.
8	User	All information about the user.
9	Category	All categories of menu.
10	Token	Token for login users.
11	Refresh_token	Refresh token for login.
12	Product	All products on the menu.
13	Master Data	All information about the eatery.
14	Eatery User	To display the eatery of the user.

Table 16: Entities Description

2. Functional Specifications

2.1 Login

2.1.1: UC Specifications

ID and Name:	UC 1- Login		
Created By:	Dungct	Date Created	10/02/2024
Primary Actor:	User	Secondary Actors:	None
Description:	This use case is used for users to log into the system and use the authenticated features and access my personalised account.		
Trigger:	Trigger-1: User clicks Login button from the page header Trigger-2: User accesses an authenticated feature (from a link or type the page URL directly into the address bar)		
Preconditions:	PRE- 1. User account has been created & authorised		
Postconditions:	POST-1. User logs in the system successfully POST-2. The system tracked successful login		
Normal Flow:	1. User accesses the User Login screen. 2. User types in the login details. 3. User clicks the “Đăng nhập” button. 4. System validates the login details. 5. System allows users to access.		

	<p>6. System tracks user's success login to the Activity Log.</p> <p>7. User accesses the authorised homepage.</p>
Alternative Flows:	N/A
Exceptions:	<p>1.LoginAuthenticationException: When an error occurs during login validation, it could be incorrect information, incorrect syntax, or an error with the database.</p> <p>2.ActivityLogException: When there is an error logging a successful login activity, possibly due to a problem with the database or server.</p>
Priority:	High
Frequency of Use:	High
Business Rules:	BR-02
Other Information:	N/A
Assumptions:	N/A

2.1.2: UI Specifications

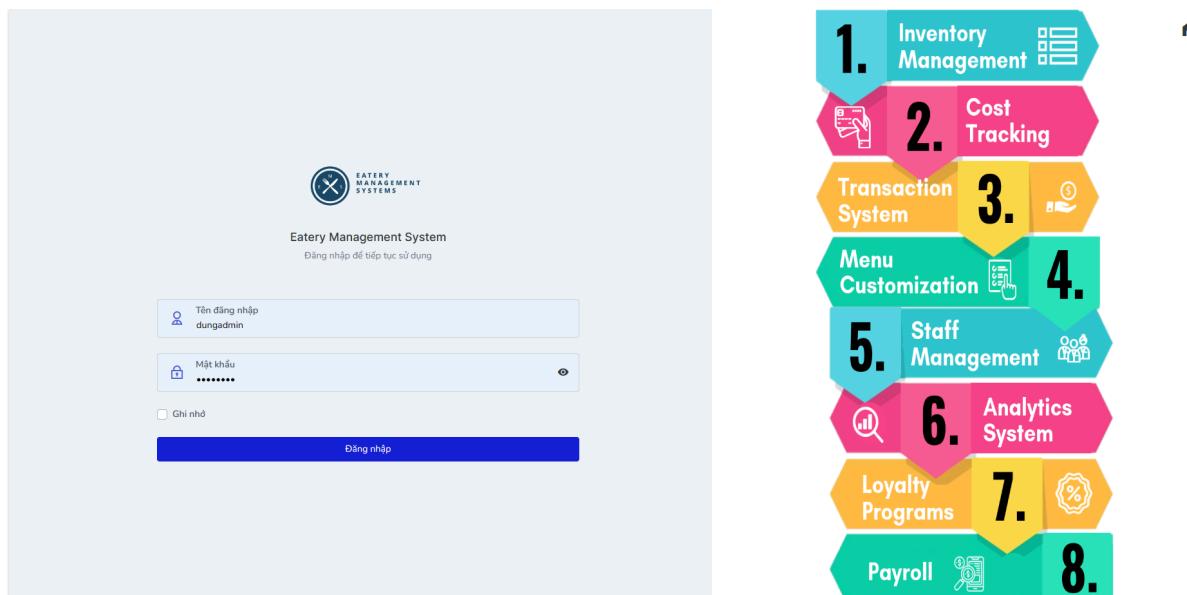


Figure 22- Login

Field Name	Field Type	Description
Tiêu đề	Text	To display the name of the system, logo and login page.
Tên đăng nhập	TextBox, Label	To let users store enter the username.

Mật khẩu	TextBox, Label	To let users enter the password.
Ghi nhớ	TextBox	To let users save their account and next login no need to input.
Đăng nhập	button	To enter the system after enter username and account.
Ảnh	picture	Is background

Table 17: Login Description

2.2 View Products

2.2.1: UC Specifications

ID and Name:	UC 2- View products		
Created By:	Dungct	Date Created:	10/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	This use case is used for users to view a list of products with some basic information in the system.		
Trigger:	The use case is initiated when a manager or eatery owner clicks the “Sản phẩm” option in the sidebar menu.		
Preconditions:	PRE- 1. The manager, eatery owner has an account active and can login to the EMS Website. PRE- 2. The user's role is authorised to access the products list.		
Postconditions:	POST-1. EMS displays list products in the system.		
Normal Flow:	1. User selects the option to view products from the main menu. 2. The system retrieves the latest product information from the database. 3. The system displays the products in a list format, including image, name, price, category, and status.		
Alternative Flows:	N/A		
Exceptions:	1.If the system cannot retrieve the product list 2.At step 2.0 of the Normal Flow, the system cannot retrieve product information due to a database connection issue. 3.The system displays an error message informing the user of the issue.		
Priority:	High		
Frequency of Use:	Medium		
Business Rules:	N/A		

Other Information:	N/A
Assumptions:	N/A

2.2.2: UI Specifications

STT	Ảnh	Tên sản phẩm	Giá	Danh mục	Trạng thái	Quản lý
1		Nuoc Cam	35000	Món tráng miệng	Đang kinh doanh	
2		Casas Del Toqui C.Sauvignon	750000	Rượu vang	Đang kinh doanh	
3		Bia Tiger Bạc	35000	Bia & Rượu	Đang kinh doanh	
4		Nuoc suối	20000	Nước giải khát	Đang kinh doanh	
5		Lẩu cá lăng	435000	Món chính	Đang kinh doanh	

Figure 23- View products

Field Name	Field Type	Description
Thêm mới	Button	This is for the manager or eatery owner to create a new product.
Tìm kiếm	Textbox	This is for the manager or eatery owner input keyword to search for a product.
Tìm kiếm	Button	This is for the manager or eatery owner to input keywords to search for a product.
	Icon	This is for the manager or eatery owner to view the product in detail.
	Icon	This is for the manager or eatery owner to update the product.
	Icon	This is for the manager or eatery owner to delete the product.

Table 18: UC View product description

2.3 Search Product

2.3.1: UC Specifications

ID and Name:	UC 3- Search Product		
Created By:	LongCH	Date Created:	10/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	A manager or eatery owner accesses the Eatery Management System and searches for products by name.		
Trigger:	This use case is initiated when a manager or eatery owner types a query into the search bar label "Tìm kiếm" and presses the "Tìm kiếm" button on the products page of the EMS.		
Preconditions:	PRE- 1. The manager or eatery owner has an account active and can login to the EMS Website. PRE- 2. The manager or eatery owner entering "Sản phẩm" in menu.		
Postconditions:	POST-1. EMS displays a list of products by name.		
Normal Flow:	1. The user navigates to the "Sản phẩm" (products) section after logging into the EMS. 2. The user enters search criteria into the search bar. 3. The user initiates the search by clicking the "Tìm kiếm" button. 4. The system will validate input from user enter 5. The system processes the search query. 6. The system displays the list of products that match the search criteria.		
Alternative Flows:	N/A		
Exceptions:	1. SearchInputValidationException: When user input is invalid, for example: special characters are not allowed, too many characters are entered, or syntax requirements are not followed. 2. The system can not retrieve product information from Database		
Priority:	Medium		
Frequency of Use:	Medium		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.3.2: UI Specifications

Figure 24- Search product

Field Name	Field Type	Description
Thêm mới	Button	This is for the manager or eatery owner to create a new product.
Tìm kiếm	TextBox	This is for the manager or eatery owner input keyword to search for a product.
Tìm kiếm	Button	This is for the manager or eatery owner to click to search for a product.
Danh mục	Select Option	This is for the manager or eatery owner to choose a category.
	Icon	This is for the manager or eatery owner to view the product.
	Icon	This is for the manager or eatery owner to edit the product.
	Icon	This is for the manager or eatery owner to delete the product.

Table 20- Search product Description

2.4 Create Product

2.4.1: UC Specifications

ID and Name:	UC 4- Create product		
Created By:	Dungct	Date Created:	10/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	This use case is initiated when the manager or eatery owner selects the "Thêm mới" option within the "Sản phẩm" (Product) section of the EMS.		
Trigger:	This use case is initiated when a user with manager or administrator privileges selects the "Thêm mới" button to add a new product in the EMS..		
Preconditions:	<p>PRE- 1. The manager or eatery owner has an account active and can login to the EMS Website.</p> <p>PRE- 2. The manager or eatery enters “Sản phẩm” in menu.</p> <p>PRE- 3. All required fields in the form must be validated for correct data format and completeness.</p>		
Postconditions:	<p>POST-1. The new product details are stored in the EMS database.</p> <p>POST-2. The product is now available for viewing, updating, and inclusion in transactions.</p>		
Normal Flow:	<ol style="list-style-type: none"> 1. The user selects the "Thêm mới" (Add New) button on the product page. 2. The EMS presents a form for the new product details. 3. The user fills in all required fields: category, product name, price, status, and uploads an image. 4. The user submits the form by clicking "Lưu" (Save). 5. The system will validate data when users enter 6. The EMS validates the data and adds the new product to the database. 7. The user receives pop up “Thành công” 		
Alternative Flows:	N/A		
Exceptions:	1.If the form submission fails (e.g., due to missing mandatory fields), the EMS displays an error message and prompts the user to correct the inputs.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	BR-02, BR- 09, BR-08		
Other Information:	N/A		
Assumptions:	N/A		

2.4.2: UI Specifications

The screenshot shows a modal window titled "Thêm mới" (Add new) for creating a product. The form contains five input fields: "Danh mục*" (Category), "Tên sản phẩm*" (Product name), "Giá*" (Price), "Trạng thái*" (Status), and "Ảnh*" (Image). Below these fields is a blue button labeled "Tải ảnh lên" (Upload image). At the bottom of the modal are two buttons: a grey "Đóng" (Close) button and a green "Lưu" (Save) button.

Figure 25- Create product

Field Name	Field Type	Description
Tên sản phẩm	TextBox	This is for the user to enter the name of the product.
Giá	TextBox	This is for users to enter the price of a product.
Danh mục	Select Option	This is for the user to select a category of product.
Tải ảnh lên	Button	This is for users to add new images for products.
Trạng thái	Select Option	This is for users to add status for products.
Đóng	Button	To close the pop up, create a product.
Lưu	Button	Users click a button to create a new product.

Table 22- Create product Description

2.5 Update Product

2.5.1: UI Specifications

Chỉnh sửa

Danh mục *

Tên sản phẩm * Nước Cam

Giá * 35000

Trạng thái *

Ảnh * http://150.95.113.52:8080/api/file/download/74OAYT1U5U8UWL45LMOL67BDV2E.png

[Tải ảnh lên](#)

[Đóng](#) [Lưu](#)

Figure 26- Update product

Field Name	Field Type	Description
Tên sản phẩm	TextBox	This is for users to input name products.
Giá	TextBox	This is for users to input price products.
Danh mục	Select Option	This is for the user to select a category.
Trạng thái	Select Option	This is for the user to select status.
Ảnh	TextBox	This is for users to update a new image.
Tải ảnh lên	Button	This is for users to select images files from the device and upload to the website.
Đóng	Button	Users click a button, close the pop up update product.
Lưu	Button	Users click the button to update the product.

Table 1- Update product Description

2.5.2: UC Specifications

ID and Name:	UC 5- Update product
--------------	----------------------

Created By:	Dungct	Date Created:	10/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	The process is triggered when the manager or eatery owner chooses to update a product from the "Quản lý" section of the product screen.		
Trigger:	When manager, eatery owner click icon update in “Quản lý” column of “Sản phẩm” screen.		
Preconditions:	PRE- 1. The manager or eatery owner has an account active and can login to the EMS Website. PRE- 2. The manager or eatery owner enters “Sản phẩm” in menu. PRE- 3. The product to be edited must exist in the EMS database.		
Postconditions:	POST-1. The product's information in the database is updated with the new values. POST-2. EMS displays successfully update products for the system.		
Normal Flow:	1. The user selects a product to edit from the product list. 2. The EMS displays the "Update Product" form pre-filled with the product's existing data. 3. The user modifies the product details as needed in the form. 4. The user submits the changes by clicking the "Lưu" (Save) button. 5. The EMS validates the input data and applies the changes to the product in the database. 6. The EMS confirms that the product has been updated and reflects these changes in the product list. 7. EMS display update product successfully.		
Alternative Flows:	N/A		
Exceptions:	1. If there is a database error or a system issue preventing the update, the EMS displays a failure message and logs the error.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	BR-02,BR- 09, BR-08		
Other Information:	N/A		
Assumptions:	N/A		

2.6 Detail Product

2.6.1: UC Specifications

ID and Name:	UC 6- Detail Product		
Created By:	Dungct	Date Created:	10/02/2024

Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	The "Detail Product" use case provides a detailed view of a product's information for review or further action, such as editing or deletion. This view includes the product's category, name, price, and other details as specified.		
Trigger:	When manager or eatery owner clicks icon detail in "Quản lý" column of "Sản phẩm" screen.		
Preconditions:	PRE- 1. The product information must exist in the EMS database for it to be retrievable. PRE- 2. The manager or eatery enters "Sản phẩm" in menu.		
Postconditions:	POST-1. The user has been presented with detailed information about the product.		
Normal Flow:	<ol style="list-style-type: none"> 1. The user selects the option to view a product's details from the product list. 2. The EMS retrieves the product details from the database. 3. The EMS displays a form populated with the product's existing details. 4. The user reviews the product details. 5. The user may choose to take further action such as editing or closing the details view. 		
Alternative Flows:	N/A		
Exceptions:	1.If the product details cannot be retrieved due to a database error, the system displays an error message		
Priority:	Medium		
Frequency of Use:	Medium		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.6.2: UI Specifications

Chi tiết

Danh mục *	Nước giải khát
Tên sản phẩm *	Nước Cam
Giá *	35000

Figure 27- Detail product

Field Name	Field Type	Description
Tên sản phẩm	TextBox	This is for users to input name products.
Giá	TextBox	This is for users to input price products.
Danh mục	TextBox	This is for the user to select a category.

Table 25- Detail product Description

2.7 Delete Product

2.7.1: UC Specifications

ID and Name:	UC 7- Delete product		
Created By:	Dunct	Date Created:	10/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	The "Delete Product" use case allows authorised users to remove a product from the EMS database. This is often done when a product is no longer available, has been discontinued, or needs to be temporarily removed from the listing for any reason. The execution of this use case results in the permanent removal of the product from the system's active listings.		
Trigger:	When manager,eatery owner click icon delete in "Quản lý" column of "Sản phẩm" screen.		
Preconditions:	PRE- 1. The product exists in the system and is identifiable by a unique identifier. PRE- 2. There are no ongoing transactions or dependencies that prevent the product's deletion.		
Postconditions:	POST-1. The product is no longer available in the product listing POST-2. All references to the product in the system have been cascaded, removed or updated to reflect the deletion.		
Normal Flow:	1. The user navigates to the product they wish to delete and clicks the 'Delete' button. 2. The system presents a confirmation dialog to ensure the user's intention, such as the "Cảnh báo" (Warning) popup. 3. The user confirms the deletion by clicking 'Đồng ý' (Agree). 4. The system deletes the product from the database. 5. The system updates the product list to exclude the deleted product. 6. The system will show pop up "Thành công".		
Alternative Flows:	N/A		
Exceptions:	1.If the product cannot be deleted (e.g., due to a system error), an error message is displayed.		

	2.If the user chooses "Hủy bỏ" (Cancel) in the confirmation dialog, the deletion process is aborted.
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.7.2: UI Specifications

The screenshot shows the software's main interface. On the left is a dark sidebar with a logo and a navigation menu containing links like 'Thống kê', 'Quản lý bàn', 'Danh mục', 'Sản phẩm' (selected), 'Nhân viên', 'Thu ngân', and 'Giao dịch'. The main area has a light background and displays a table titled 'Sản Phẩm' ('Products'). The table includes columns for 'STT' (Index), 'Ánh' (Image), 'Tên sản phẩm' (Product Name), 'Giá' (Price), 'Danh mục' (Category), 'Trạng thái' (Status), and 'Quản lý' (Management). It lists four items: 1. Nước Cam (Orange juice), 2. Hoa quả (Fruit), 3. Casas Del Toqui C.Sauvignon (Wine), and 4. Bia Tiger Bạc (Tiger Silver Beer). Each row has a 'Chỉnh sửa' (Edit) button at the end. Below the table is a large modal dialog with a yellow exclamation mark icon. The text inside reads: 'Cảnh báo' (Warning), 'Bạn có chắc chắn muốn xóa?' (Are you sure you want to delete?), and two buttons: 'Đồng ý' (Yes) in green and 'Hủy bỏ' (Cancel) in red.

Figure 28- Delete product

Field Name	Field Type	Description
	Icon	This is for the manager or eatery owner to delete the product.

Đồng ý	button	To agree to delete the product.
Hủy bỏ	button	To close the delete product pop up.

Table 27- Delete product Description

2.8 View Category

2.8.1: UC Specifications

ID and Name:	UC 8 - View Category		
Created By:	Dungct	Date Created:	10/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	A manager or eatery owner accesses the Eatery Management System and view list category.		
Trigger:	When a manager or eatery owner click “Danh mục” in menu.		
Preconditions:	PRE- 1. The EMS must have a functional category management module with data available for display.. PRE- 2 When a manager,eatery owner click “Danh mục” in menu.		
Postconditions:	POST-1. The user is presented with a list of all product categories currently active in the EMS.		
Normal Flow:	1. The user selects the 'Danh mục' tab on the EMS menu. 2. The EMS displays the list of categories. 3. The user browses through the list to review the available categories. 4. The user may select a category for additional details or to perform further actions like edit or delete.		
Alternative Flows:	N/A		
Exceptions:	1.f the category data fails to load due to a system error, the EMS displays an error message 2.The system error can not retrieve data.		
Priority:	Medium		
Frequency of Use:	Medium		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.8.1: UI Specifications

Figure 29- View Category

Field Name	Field Type	Description
Thêm mới	Button	This is for actors to create new category
Tìm kiếm	TextBox	This is for actors to input keyword in textbox
Tìm kiếm	Button	This is for actors to click to search.
	Icon	This is for actors to view detail categories.
	Icon	This is for actors to edit categories.
	Icon	This is for actors to delete categories.

Table 28- View Category Description

2.9 Search Category

2.9.1: UC Specifications

ID and Name:	UC 9- Search Category		
Created By:	Dungct	Date Created:	10/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	A manager or eatery owner accesses the Eatery Management System and search category by name.		
Trigger:	When the manager or eatery owner input a keyword to "Tìm kiếm" textbox.		

Preconditions:	PRE-1. The manager, eatery owner has an account active and can login to the EMS Website. PRE-2 When a manager,eatery owner click “Danh mục” in menu.
Postconditions:	POST-1. The EMS displays a list of categories that match the search criteria.
Normal Flow:	1. The user accesses the 'Danh mục' (Category) section of the EMS. 2. The user inputs a search term into the search field. 3. The system will validate data when user input 4. The EMS processes the search and filters the category list based on the input. 5. The EMS displays the categories that match the search criteria. 6. The user reviews the search results and selects a category if an action needs to be taken.
Alternative Flows:	N/A
Exceptions:	1.If the search functionality is unavailable due to a system error 2.If the user inputs an invalid search term (e.g., special characters not allowed), the EMS prompts the user with a validation message.
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.9.2: UI Specifications

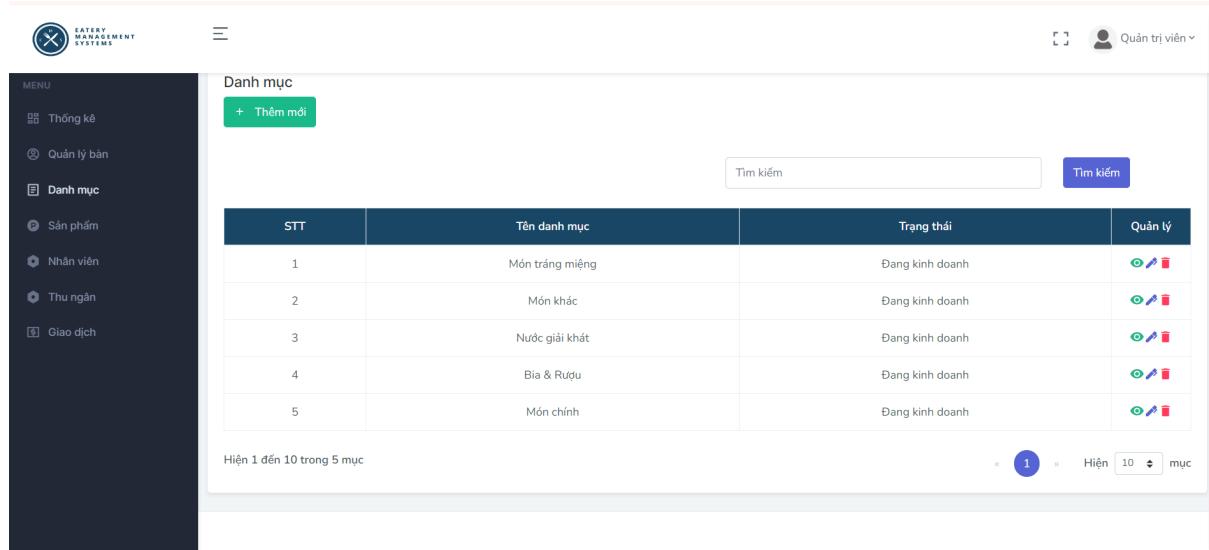


Figure 30: Search category

Field Name	Field Type	Description
Thêm mới	Button	This is for actors to create new category
Tìm kiếm	TextBox	This is for actors to input keyword in textbox
Tìm kiếm	Button	This is for actors to click to search.
	Icon	This is for actors to view detailed categories.
	Icon	This is for actors to edit categories.
	Icon	This is for actors to delete categories.

Table 30- Search Category Description

2.10 Create Category

2.10.1: UC Specifications

ID and Name:	UC 10- Create Category		
Created By:	Dungct	Date Created:	10/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	The "Create Category" use case allows users to add a new category to organise products within the EMS. This function is crucial for maintaining an orderly system where products can be classified for better management and reporting.		
Trigger:	When a manager or eatery owner click “Thêm mới” button in the screen “Danh mục”.		
Preconditions:	PRE- 1. The manager or eatery owner has an account active and can login to the EMS Website. PRE- 2 The manager click “Danh mục” in menu.		
Postconditions:	POST-1. A new category has been created and is now visible in the category management system. POST-2. The system's category database has been updated to include the new category.		
Normal Flow:	1. The user clicks on the option to add a new category. 2. The system presents a form with the fields 'Category Name' and 'Status'. 3. The user enters a name into the 'Category Name' field and selects a 'Status' from the dropdown menu. 4. The user clicks 'Save' to create the new category. 5. The system validates the input data. 6. The system updates the database with the new category information. 7. The system displays pop up “Thành công”		
Alternative Flows:	N/A		

Exceptions:	1.The user enters invalid or incomplete data and attempts to save the category. 2.The system detects the validation error and does not update the database.
Priority:	High
Frequency of Use:	High
Business Rules:	BR-02
Other Information:	N/A
Assumptions:	N/A

2.10.2: UI Specifications

The screenshot shows a modal dialog titled "Thêm mới danh mục". Inside the dialog, there are two required input fields: "Danh mục*" and "Trạng thái*". Below the inputs are two buttons: "Đóng" (Grey) and "Lưu" (Green).

Figure 31- Create Category

Field Name	Field Type	Description
Danh mục	TextBox	This is for user update category names.
Trạng thái	SelectOptions	This for the user select status of category.
Lưu	Button	This is for users to submit information.
Đóng	Button	This is for users to close and create category pop ups.

Table 32- Create Category Description

2.11 Update Category

2.11.1: UC Specifications

ID and Name:	UC 11- Update Category		
Created By:	Dungct	Date Created:	10/02/2024

Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	This use case allows a user to update the details of an existing category, such as its name or status. The outcome is the modified category information being saved and reflected in the system.		
Trigger:	When a manager or eatery owner click to icon update in “Quản lý” column of “Danh mục” screen.		
Preconditions:	PRE- 1. The manager or eatery owner click “Danh mục” in menu. PRE- 2 The category to be updated exists in the system		
Postconditions:	POST-1. The category details in the database have been updated with the new values. POST-2. Any content or products associated with the category reflect the updated category details..		
Normal Flow:	<ol style="list-style-type: none"> 1. The user selects the category they wish to edit and chooses the edit option. 2. The system displays the category's current details in an editable form, with fields for 'Category Name' and 'Status'. 3. The user updates the necessary fields and selects the new status from the dropdown menu. 4. The user submits the changes by clicking 'Save'. 5. The system validates the updated data. 6. The system updates the category details in the database. 7. The system displays popup is “Thành công”. 		
Alternative Flows:	N/A		
Exceptions:	<ol style="list-style-type: none"> 1. The system detects invalid or incomplete data upon submission. 2. The system does not save the changes and informs the user of the validation error. 3. The user is prompted to correct the data and resubmit. 		
Priority:	High		
Frequency of Use:	Medium		
Business Rules:	BR-02		
Other Information:	N/A		
Assumptions:	N/A		

2.11.2: UI Specifications

The screenshot shows a modal dialog titled "Chỉnh sửa danh mục" (Edit Category). Inside the dialog, there are two input fields: one for "Danh mục*" (Category Name) containing "Món tráng miệng" (Food), and another for "Trạng thái*" (Status) containing "Đang kinh doanh" (In operation). At the bottom, there are two buttons: a grey "Đóng" (Close) button and a green "Lưu" (Save) button.

Figure 32- Update Category

Field Name	Field Type	Description
Danh mục	TextBox	This is for user update category name
Trạng thái	SelectOptions	This is for the user to select the status of the category.
Lưu	Button	This is for users to update categories.
Đóng	Button	To close the update category pop up.

Table 33- Update Category Description

2.12 View Detail Category

2.12.1: UC Specifications

ID and Name:	UC 12 - View detail category		
Created By:	LongCH	Date Created:	5/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	A manager or eatery owner accesses the Eatery Management System and views detailed information of the category.		
Trigger:	When manager or eatery owner clicks icon detail in “Quản lý” column of “Danh mục” screen.		
Preconditions:	PRE-1. The manager, eatery owner has an account active and can login to the EMS Website. PRE-2. The manager or eatery enters “Danh mục” in menu.		
Postconditions:	POST-1. The system displays the detailed information of the category without any changes unless edited and saved by the user.		

Normal Flow:	1. The user selects the option to view details of a category. 2. The system retrieves the category information from the database based on the category ID. 3. The system displays the category details, including the ID and name, in a form to the user.
Alternative Flows:	N/A
Exceptions:	1. The system cannot find the category's details based on the given ID.
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.12.2: UI Specifications



Figure 33: View detail product

Field Name	Field Type	Description
ID	TextBox	To display the number code of the category.
Danh mục	Textbox	To display the name of the category.

Table 35- View detail category Description

2.13 Delete Category

2.13.1: UC Specifications

ID and Name:	UC 13- Delete Category		
Created By:	Dungct	Date Created:	5/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	The purpose of this use case is to allow the user to remove an unwanted or unnecessary category from the system. The outcome is the removal of the category from the system, and the category no longer being available for classification of items.		
Trigger:	When manager,eatery owner click icon delete in “Quản lý” column of “Danh mục” screen.		
Preconditions:	PRE- 1. The manager or eatery owner has an account active and can login to the EMS Website. PRE- 2. The manager or eatery owner enters “Danh mục” in menu.		
Postconditions:	POST-1. The category has been deleted from the database. POST-2. EMS display pop-up “Xóa thành công”.		
Normal Flow:	<ol style="list-style-type: none"> 1. The user navigates to the category list and selects the delete icon next to the category they wish to delete. 2. The system displays a confirmation dialog to ensure the user intends to delete the category. 3. The user confirms the deletion by clicking 'Agree'. 4. The system removes the category from the database. 5. The system updates the category list to reflect the deletion. 6. The system displays a message confirming the successful deletion. 		
Alternative Flows:	N/A		
Exceptions:	<ol style="list-style-type: none"> 1. The system detects that the category is in use by items or products. 2. The system does not delete the category and informs the user of the conflict. 		
Priority:	Medium		
Frequency of Use:	Medium		
Business Rules:	High		
Other Information:	N/A		
Assumptions:	N/A		

2.13.2: UI Specifications



Figure 34- Delete Category

Field Name	Field Type	Description
	Icon	This is for actors to delete categories.
Đồng ý	Button	To agree to delete categories.
Hủy bỏ	Button	To close the delete category pop up.

Table 37- Delete Category Description

2.14 View Table

2.14.1: UC Specifications

ID and Name:	UC 14 - View List Table		
Created By:	LongCH	Date Created:	5/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None

Description:	A manager or eatery owner accesses the Eatery Management System and view list table.
Trigger:	This use case is initiated when a staff member selects the "Quản lý bàn" (Table Management) option from the system menu to view the list of tables.
Preconditions:	PRE- 1. The manager or eatery owner has an account active and can login to the EMS Website.
Postconditions:	POST-1. The user is presented with a current and accurate list of tables and their statuses.
Normal Flow:	<ol style="list-style-type: none"> 1. The user selects the "Quản lý bàn" option from the system menu. 2. The system retrieves the current table information from the database. 3. The system displays the list of tables with columns for table number, name, location, status, and management options.
Alternative Flows:	N/A
Exceptions:	1. The system is unable to retrieve table information due to a database connectivity issue.
Priority:	High
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.14.2: UI Specifications

STT	Tên bàn	Vị trí	Trạng thái	Quản lý
1	Bàn 8	Tầng 2	Trống	
2	Bàn 7	Tầng 2	Trống	
3	Bàn 6	Tầng 2	Trống	
4	Bàn 5	Tầng 1	Trống	
5	Bàn 4	Tầng 1	Trống	
6	Bàn 3	Tầng 1	Trống	
7	Bàn 2	Tầng 1	Trống	
8	Bàn 1	Tầng 1	Trống	

Figure 35 View tables

Field Name	Field Type	Description
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Thêm mới	Button	This is for users to create new tables.
	Icon	This is for the user to view the detail table.
	Icon	This is for users to update tables.
	Icon	This is for the user to delete the table.

Table 39- View table Description

2.15 Create Table

2.15.1: UC Specifications

ID and Name:	UC 15- Create Table		
Created By:	Dungct	Date Created:	5/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	A manager or eatery owner accesses the Eatery Management System and creates a new table.		
Trigger:	When a manager or eatery owner click “Thêm mới” button in the “Quản lý bàn” screen.		
Preconditions:	PRE- 1. The manager or eatery owner has an account active and can login to the EMS Website. PRE- 2 The manager click “Quản lý bàn” in menu.		
Postconditions:	POST-1: A new table with the specified details has been created and stored in the system. POST-2: The new table is visible and manageable within the table list.		
Normal Flow:	1. The user selects the "Thêm mới" (Add new) option in the table management module. 2. The system presents a form for entering table details, such as table name, location, and status. 3. The user fills out the form with the required information. 4. The user submits the form by clicking "Lưu" (Save). 5. The system validates the input data. 6. The system creates a new table record in the database. 7. The system displays a confirmation message that the table has been created.		
Alternative Flows:	N/A		
Exceptions:	1.The user submits the form with invalid or incomplete data. 2.The system does not create the new table and informs the user of the error.		
Priority:	High		
Frequency of Use:	High		

Business Rules:	BR-02
Other Information:	N/A
Assumptions:	N/A

2.15.2: UI Specifications

The screenshot shows a modal window titled "Thêm mới bàn". Inside, there are three input fields: "Tên bàn*" (Table name), "Vị trí*" (Position), and "Trạng thái*" (Status). At the bottom are two buttons: "Đóng" (Close) and "Lưu" (Save).

Figure 36: View Table

Field Name	Field Type	Description
Tên bàn	TextBox	This is for the user input name of the table.
Vị trí	Select Option	This is for the user to select the position of the table.
Trạng thái	Select Option	This is for user to select status of table
Đóng	Button	This is for users to close pop-up.
Lưu	Button	This is for the user to click to create a new table.

Table 41- Create table Description

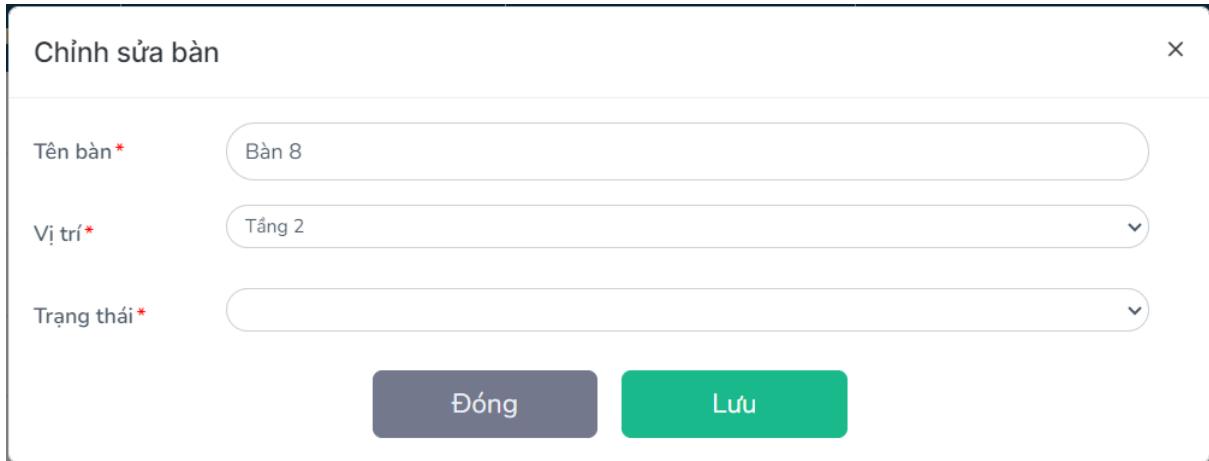
2.16 Update Table

2.16.1: UC Specifications

ID and Name:	UC 16- Update Table		
Created By:	Dungct	Date Created:	5/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None

Description:	This use case is initiated when a user selects the option to edit an existing table's details within the table management system.
Trigger:	When a manager or eatery owner clicks the icon update in the “Quản lý” column of the “Quản lý bàn” screen.
Preconditions:	PRE- 1. The manager or eatery owner has an account active and can login to the EMS Website. PRE- 2 The manager or eatery owner clicks “Quản lý bàn” in the menu.
Postconditions:	POST-1. The system will display the update table successfully. POST-2. The information of this table will be changed.
Normal Flow:	<ol style="list-style-type: none"> 1. The user selects an existing table from the table list and clicks the edit option. 2. The system presents a form with the current details of the table (name, location, status). 3. The user updates the information as needed in the form fields. 4. The user submits the changes by clicking "Lưu" (Save). 5. The system validates the updated data. 6. The system updates the table's details in the database. 7. The system confirms the successful update to the user.
Alternative Flows:	N/A
Exceptions:	<ol style="list-style-type: none"> 1.The user enters invalid data into the form fields. 2. The system does not update the table details and notifies the user of the error.
Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-02
Other Information:	N/A
Assumptions:	N/A

2.16.2: UI Specifications



The screenshot displays a modal dialog titled "Chỉnh sửa bàn". Inside the dialog, there are three input fields: "Tên bàn*" with the value "Bàn 8", "Vị trí*" with the value "Tầng 2", and "Trạng thái*" (Status) with a dropdown menu. At the bottom of the dialog are two buttons: a grey "Đóng" (Close) button and a green "Lưu" (Save) button.

Figure 37: Update Table

Field Name	Field Type	Description
Tên bàn	TextBox	This is for the user input name of the table.
Vị trí	Select Option	This is for the user to choose the position of the table.
Trạng thái	Select Option	This is for the user to choose the status of the table.
Lưu	Button	This is for the user to create a new table.
Đóng	Button	This is for user to close pop-up “Chỉnh sửa bàn”.

Table 43- Update table Description

2.17 Detail Table

2.17.1: UC Specifications

ID and Name:	UC 17- Detail Table		
Created By:	LongCH	Date Created:	5/02/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	This use case provides the user with detailed information about a particular table, such as the table's name, location, operational status, and any notes associated with it. The purpose is to offer comprehensive insights into a table's status to facilitate better management and service.		
Trigger:	When a manager or eatery owner click to icon detail in “Quản lý bàn” screen.		
Preconditions:	PRE- 1. The manager or eatery owner has an account active and can login to the EMS Website. PRE- 2 The manager clicks “Quản lý bàn” in the menu.		
Postconditions:	POST-1. The user has been presented with the detailed information of the selected table.		
Normal Flow:	1. The user selects a table from the main list and clicks on an option to view details. 2. The system retrieves the selected table's details from the database. 3. The system presents the detailed information in a modal or a new page, including the table name, area/zone, status, and any additional notes. 4. The user reviews the details and may take additional actions if necessary, such as editing or updating the table information.		

Alternative Flows:	N/A
Exceptions:	1.The system is unable to retrieve the details of the selected table due to a database error.
Priority:	High
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.17.2: UI Specifications

Chi tiết bàn X

Tên bàn: bàn 1

Khu vực: Khu vực 1

Trạng thái: Hoạt động

Ghi chú: Bán trong ngày

Figure 38: Detail table

Field Name	Field Type	Description
------------	------------	-------------

Tên bàn	TextBox	This is for the user view “Tên bàn” of this product.
Khu vực	TextBox	This is for the user view “Khu vực” of this product.
Trạng thái	Textbox	This is for users to view “Trạng thái” of this product.
Ghi chú	TextBox	This is for users to view “Ghi chú” of this product.

Table45: Detail table

2.18 Delete Table

2.18.1: UC Specifications

ID and Name:	UC 18- Delete Table		
Created By:	Luancv	Date Created:	01/03/2024
Primary Actor:	Manager,Eatery Owner	Secondary Actors:	None
Description:	The function allows the manager or eatery owner to delete tables.		
Trigger:	This use case is initiated when a user selects the delete icon next to a table in the table management section of the restaurant management system.		
Preconditions:	PRE- 1. The table to be deleted must not have any active orders associated with it.		
Postconditions:	POST-1. EMS display delete successfully. POST-2. The table will be deleted in the list table.		
Normal Flow:	1.0 The user selects the delete icon next to the table they wish to remove in the table management interface. 2.0 The system presents a confirmation dialog to verify the user's intent to delete the table. 3.0 The user confirms the deletion by clicking "Đồng ý" (Agree). 4.0 The system deletes the table from the database. 5.0 The system updates the table list to reflect the removal. 6.0 The system displays a pop up “Thành công”		
Alternative Flows:	N/A		
Exceptions:	1. The system detects that the table is currently in use or has active orders associated with it.		

	<p>2. The system prevents the deletion and informs the user of the active status.</p> <p>3. The user is advised to clear the table or resolve any active orders before attempting deletion again.</p>
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.18.2: UI Specifications

STT	Tên bàn	Khu vực	Trạng thái	Quản lý
1	Bàn 1	Tầng 1	Đang sử dụng	[Icon]
2	Bàn 2	Tầng 1	Đang sử dụng	[Icon]
3	Bàn 3	Tầng 1	Đang sử dụng	[Icon]
4	Bàn 4	Tầng 1	Đang sử dụng	[Icon]
5	Bàn 5	Tầng 1	Đang sử dụng	[Icon]
6	Bàn 6	Tầng 1	Đang sử dụng	[Icon]
7	Bàn 1	Tầng 2	Đang sử dụng	[Icon]
8	Bàn 1	Tầng 3	Đang sử dụng	[Icon]
9	Bàn 1	Tầng 4	Đang sử dụng	[Icon]



Figure 39: View Table

Field Name	Field Type	Description
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Đồng ý	button	To agree delete table
Hủy bỏ	button	To close the delete table pop up.

Table 47: Detail table

2.19 Scan QR code

2.19.1: UC Specifications

ID and Name:	UC 19- Scan QR code		
Created By:	LuanCV	Date Created:	3/03/2024
Primary Actor:	Customer	Secondary Actors:	None
Description:	The function allows the Customer to enter a name and start an order.		
Trigger:	When Customers scan QR code and input name page display.		
Preconditions:	PRE- 1. The Customer scans the QR code.		
Postconditions:	POST-1. The system will display the input name page after scan QR code.		
Normal Flow:	1. Customers scan QR code. 2. System will display the input information page successfully. 3. Customers input name and select table. 4. Customers click “truy cập bằng khách” button. 5. System will let customers enter the menu page.		
Alternative Flows:	N/A		
Exceptions:	1. QRCodeScanException: When the customer cannot scan the QR code because the code is invalid or there is a problem with the device's camera. 2. InputPageLoadException: When there is an error loading the information entry page, possibly due to a problem with the server or network. 3. InvalidInputException: When a customer enters invalid information, such as an empty or invalid name, or does not select a table. 4. MenuPageLoadException: When there is an error loading the menu page, possibly due to a problem with the server or network.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.19.2: UI Specifications

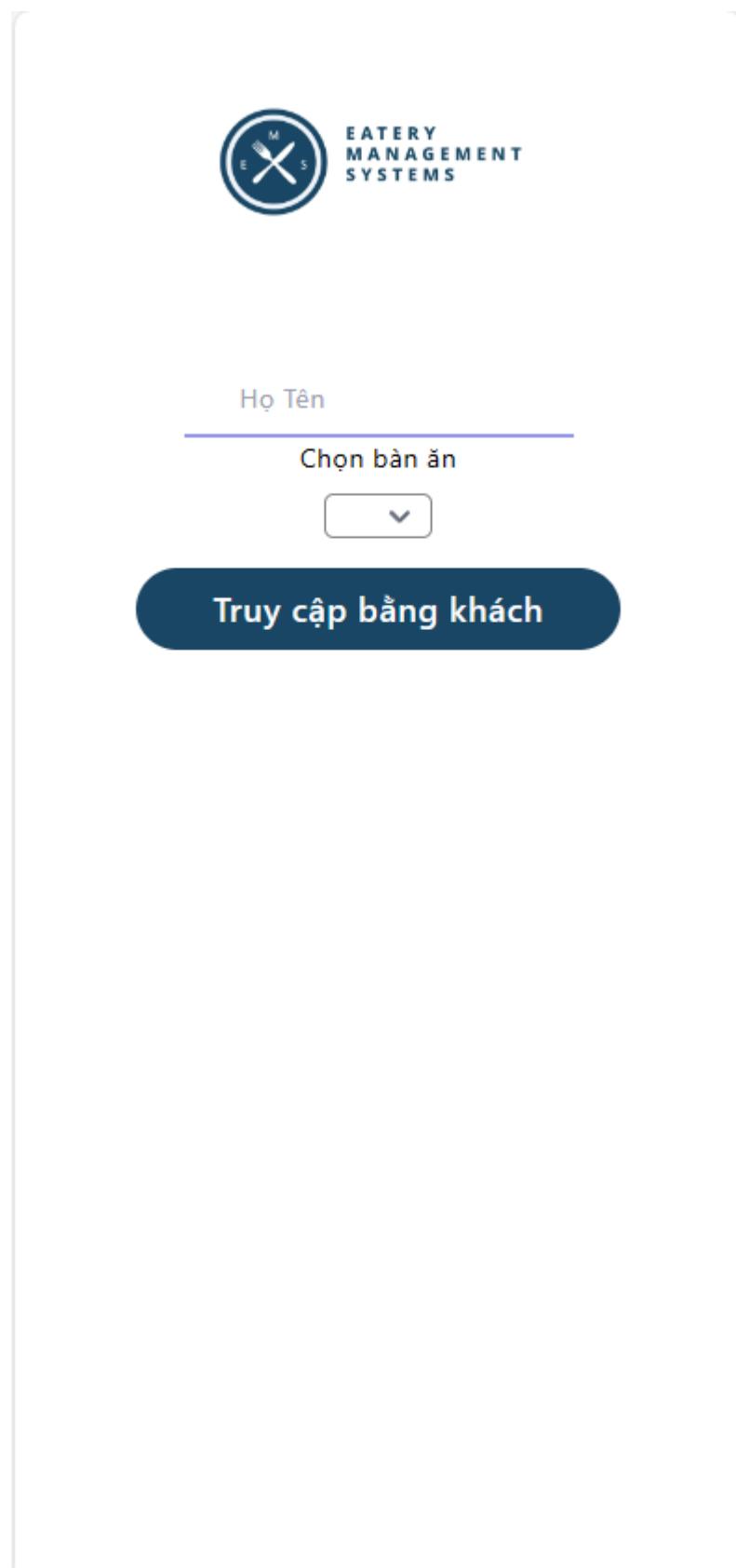


Figure 40: Scan QR code

Field Name	Field Type	Description
Chọn bàn ăn	select options	To select a table for order.
Họ tên	text box	To let customers enter names.
Truy cập bằng khách	Button	To confirm the name of customer and the customer can start the order.

Table 49: Scan QR code Description

2.20 View Menu/ Filter Category/ Search Product- Customer

2.20.1: View Menu-Customer

2.20.1.1: UC Specifications

ID and Name:	UC 20.1 - View menu - Customer		
Created By:	LuanCV	Date Created:	5/03/2024
Primary Actor:	Customer	Secondary Actors:	None
Description:	The function allows the Customer to view the menu of the store and can add to cart.		
Trigger:	When Customer scan QR code and click “Thực đơn và gọi món” button in customer’s page, click “Thực đơn” button in navbar in bottom page and when customer scan QR code, enter information.		
Preconditions:	PRE- 1. The Customer scans the QR code.		
Postconditions:	POST-1. The system will display Menu page when customer click “Thực đơn” or “Thực đơn và gọi món” button. POST-2. The system will display a Menu page when customers scan QR code and enter information.		
Normal Flow:	1. Customers scan QR code and start to view the menu to add dishes to cart. 2. System display menu page to order successfully. 3. Customers click 1 dish. 4. System will show a pop up of a detailed dish. 6. Customers click “Thực đơn” button. 7. System will display a menu page. 8. Customers click “Giỏ hàng” button. 9. System will display a cart page. 10. Customers click “Lịch sử đặt hàng” button. 11. System will display a history order page.		

	<p>12. Customers click “Hỗ trợ và thanh toán” button.</p> <p>13. System will display a contact page.</p>
Alternative Flows:	<p>1. When customer click “Thực đơn” button then display menu page.</p>
Exceptions:	<p>1. MenuPageLoadException: When there is an error loading the menu page, possibly due to a problem with the server or network.</p> <p>2. DishDetailLoadException: When there is an error while displaying dish details, possibly due to a problem with the database or incomplete data.</p> <p>3. CartPageLoadException: When there is an error loading the cart page, possibly due to a problem with the server or network.</p> <p>4. OrderedDishLoadException: When there is an error loading the order history page, possibly due to a problem with the server or network.</p> <p>5. ContactPageLoadException: When there is an error loading the contact page, possibly due to a problem with the server or network.</p>
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.20.1.2: UI Specifications



Figure 41- View Menu

Field Name	Field Type	Description
Tìm kiếm	TextBox	To search for dishes, drinks.

Filter danh mục	button	To filter dishes or drinks.
Data dish: Name, price and picture	picture, text	To display dish information such as name, price and picture.
Thực đơn	button	To link the menu page.
Giỏ hàng	button	To link the cart page.
Lịch sử đặt hàng	button	To link the ordered page.
Hỗ trợ và thanh toán	button	To link informative position customer pages.

Table 48: View Menu Description

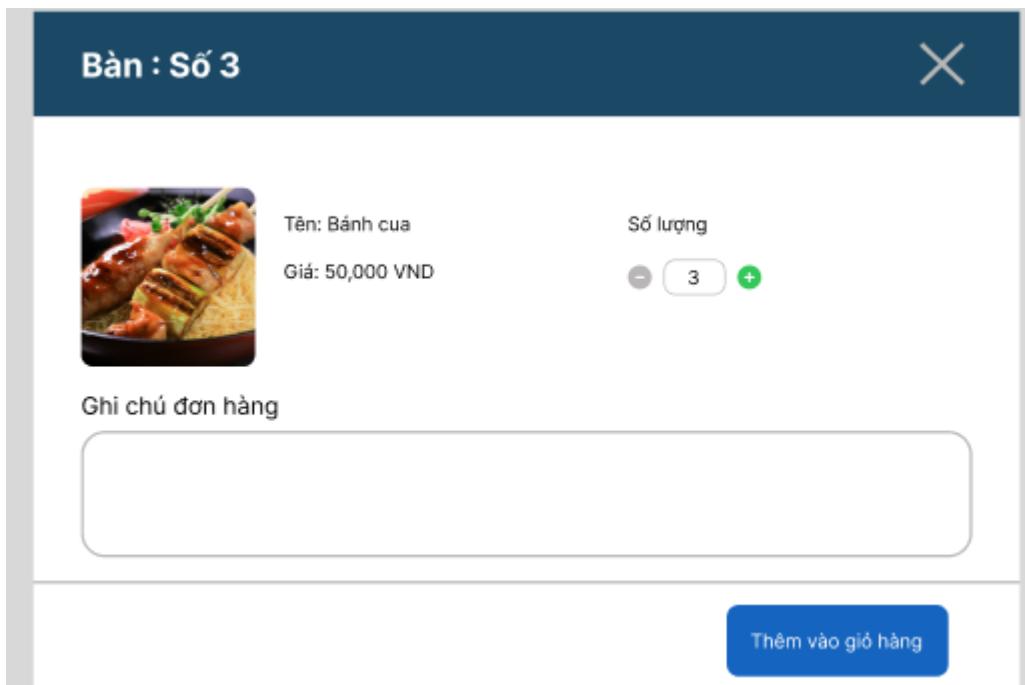


Figure 42- Add to cart

Field Name	Field Type	Description
Bàn	text	To display table order.
Data dish: Name and price	text, picture	To display information about dishes or drinks such as name, picture, price, number.
Số lượng	text	To display the number of that dish or drink.

-	button	To minus 1 number.
+	button	To add 1 number.
Ghi chú đơn hàng	text area	To note what the customer wants from that dish or drink.
Thêm vào giỏ hàng	button	To add this dish or drink to the customer's cart.

Table 49- Add to cart Description

2.20.2: Filter dish - Customer

2.20.2.1: UC Specifications

ID and Name:	UC 20.2- Filter category- Customer		
Created By:	LuanCV	Date Created:	5/03/2024
Primary Actor:	Customer	Secondary Actors:	None
Description:	The "Filter Category" use case allows customers to navigate through different categories of the menu such as appetisers, main courses, beverages, etc., to quickly find items of their preference. The outcome of executing this use case is a tailored view of the menu that aligns with the customer's interests or dietary requirements.		
Trigger:	When Customer scan QR code and click "Thực đơn và gọi món" button in customer's page, click "Thực đơn" button in navbar in bottom page and when customer scan QR code, enter information.		
Preconditions:	PRE-1. The menu items are pre-categorized within the system's database.		
Postconditions:	POST-1. The system will display Menu page when customer click "Thực đơn" or "Thực đơn và gọi món" button. POST-2. The customer can view detailed information about items, including prices and descriptions.		
Normal Flow:	1. Customer opens the menu system. 2. Customer selects a category from the menu, such as "Món tráng miệng" (desserts). 3. The system filters and displays only the items from the chosen category. 4. Customer browses through the filtered list and selects an item if they wish to view more details or to order.		
Alternative Flows:	N/A		

Exceptions:	1. CategoryListLoadException: When there is an error loading the category list, possibly due to a problem with the server or network. 2. CategorySelectionException: When there is an error selecting a category, such as the category does not exist or there is an error with the input.
Priority:	High
Frequency of Use:	Medium
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

Table 51- Filter menu Description

2.20.2.2: UI Specifications



Figure 43- Filter Category

Field Name	Field Type	Description
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	button	To filter dishes or drinks.
Tìm kiếm sản phẩm	Textbox	Search name of product

Table 50- Filter menu Description

2.20.3: Search dish - Customer

2.20.3.1: UC Specifications

ID and Name:	UC 20.3- Search product- Customer		
Created By:	Namlh	Date Created:	5/03/2024
Primary Actor:	Customer	Secondary Actors:	None
Description:	The function allows the Customer to view the menu of the store and can add to cart.		
Trigger:	When Customer scan QR code and click “Thực đơn và gọi món” button in customer’s page, click “Thực đơn” button in navbar in bottom page and when customer scan QR code, enter information.		
Preconditions:	PRE- 1. The Customer scans the QR code to enter the Menu page .		
Postconditions:	POST-1. The system will display Menu page when customer click “Thực đơn” or “Thực đơn và gọi món” button. POST-2. The system will display a Menu page when customers scan QR code and enter information.		
Normal Flow:	1. Customers want to search to choose a dish. 2. Customers click the search textbox. 3. Customers start input search value. 4. System will be validate data when customer input 5. System will display dishes following the search value.		
Alternative Flows:	N/A		
Exceptions:	1. SearchException: When there is an error processing a search, such as when the database cannot be connected or there is a problem with the data. 2. NoResultsException: When there are no results matching the search value the customer entered. 3. Display Results Exception: When there is an error while displaying search results, possibly due to network problems or user interface display errors.		
Priority:	High		
Frequency of Use:	Medium		

Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.20.3.2: UI Specifications



Figure 44- Search dish

Field Name	Field Type	Description
Tìm kiếm	TextBox	To search for dishes, drinks.

Table 52- Search dishDescription

2.21 View Cart - Customer

2.21.1: UC Specifications

ID and Name:	UC 21-View Cart - Customer		
Created By:	Namlh	Date Created:	5/03/2024
Primary Actor:	Customer	Secondary Actors:	None
Description:	The function allows the Customer to view the cart and can start to order.		
Trigger:	When Customer scan QR code and click “Giỏ hàng” button in navbar in bottom page.		
Preconditions:	PRE- 1. The Customer scans the QR code to enter the contact page.		
Postconditions:	POST-1. The system will display cart page when customer click click “Giỏ hàng” button in navbar in bottom page.		

Normal Flow:	<ol style="list-style-type: none"> 1. Customers want to check out dishes in the cart. 2. Click “GiỎ hàng” button. 3. System display cart page to customers successfully. 4. Customers click the “Xóa” button to delete 1 dish or drink from order. 5. System will delete that dish. 6. Customers click the “-” button. 7. System will decrease 1 amount of dish. 8. Customers click the “+” button. 9. System will increase 1 amount of dish. 5. Customer click “Gọi món” button. 7. System will display message orders created for customers.
Alternative Flows:	N/A
Exceptions:	<ol style="list-style-type: none"> 1. CartPageLoadException: When there is an error loading the cart page, possibly due to a problem with the server or network. 2. DeleteItemException: When there is an error while deleting an item or drink from the cart. 3. UpdateItemQuantityException: When there is an error while increasing or decreasing the number of dishes or drinks in the shopping cart. 4. OrderCreationException: When there is an error during order creation, possibly due to a problem with the server or data.
Priority:	High
Frequency of Use:	N/A
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.21.2: UI Specifications

Mời bạn chọn món

🔍



Sản phẩm: Nước ép nho

Giá: ₫50,000

Số lượng: - 2 +



Sản phẩm: Nước ép táo

Giá: ₫60,000

Số lượng: - 1 +

Tổng hàng: ₫160,000

Gọi món



Thực đơn



Lịch sử



Giỏ hàng



Hỗ trợ và thanh toán

Figure 45- View Cart

Field Name	Field Type	Description
Tiêu đề	text	To display the name of the customer and table name.

Search	textbox	To display the banner of the customer page.
Data: name, price, number, picture	text, picture	To display information about dishes or drinks such as name, price, amount of number.
Xóa	button	To delete dishes or drinks.
-	button	To minus 1 number.
+	button	To add 1 number.
Tổng tiền	text	To display the total money of order.
Gọi món	button	To create order.

Table 54- View Cart Description

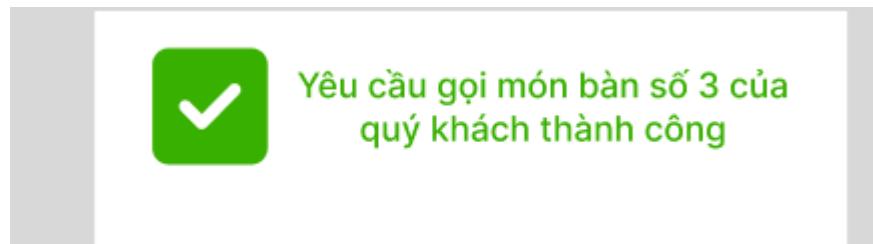


Figure 46- Order Notification

Field Name	Field Type	Description
Tiêu đề	text	To display that order was created successfully to the customer.

Table 55- Order Notification Description

2.22 View Order Dishes - Customer

2.22.1: UC Specifications

ID and Name:	UC 22-View Order history		
Created By:	Namlh	Date Created:	5/03/2024
Primary Actor:	Customer	Secondary Actors:	None
Description:	The function allows the Customer to view the history ordered.		

Trigger:	When Customer click “Lịch sử đặt hàng” button in bottom page.
Preconditions:	PRE- 1. The Customer scans the QR code to enter the customer page. PRE- 2. The Customer ordered.
Postconditions:	POST-1. The system will display a successful list of all dishes and drinks that customers ordered. POST-2. The system will display a successful list of all dishes and drinks that customers ordered when the customer clicks the “Đang làm” button. POST-3. The system will display a successful list of all dishes and drinks that customers ordered when the customer clicks the “Đã giao” button. POST-4. The system will display a successful list of all dishes and drinks that customers ordered when the customer clicks the “Hóa đơn tạm” button.
Normal Flow:	<ol style="list-style-type: none"> 1. Customers want to check out dishes that were ordered in the ordered dishes page. 2. Click “Lịch sử đặt hàng” button. 3. System display ordered dishes page to customer successfully. 4. Customers click the “Xóa” button to delete 1 dish or drink from order. 5. System will delete that dish. 6. Customers click the “-” button. 7. System will decrease 1 amount of dish. 8. Customers click the “+” button. 9. System will increase 1 amount of dish. 10. Click “Đang làm” button. 11. System displayed confirmed order dishes to customers successfully. 12. Click “Đã giao” button. 13. System display delivered dishes to customers successfully. 14. Click “Hóa đơn tạm” button. 15. System display ordered bill to customer successfully.
Alternative Flows:	N/A
Exceptions:	<ol style="list-style-type: none"> 1. OrderHistoryLoadException: When there is an error loading the order history page, it may be due to a problem with the server or network. 2. DeleteDishException: When there is an error while deleting a dish from the order history. 3. UpdateDishQuantityException: When there is an error while increasing or decreasing the number of dishes in the order history. 4. InProgressLoadException: When there is an error loading the "In Progress" page, possibly due to a problem with the server or network. 5. DeliveredLoadException: When there is an error loading the "Delivered" page, possibly due to a problem with the server or network. 6. TemporaryBillLoadException: When there is an error loading the temporary bill page, possibly due to a problem with the server or network.
Priority:	High
Frequency of Use:	N/A

Business Rules:	Medium
Other Information:	N/A
Assumptions:	N/A

2.22.2: UI Specifications

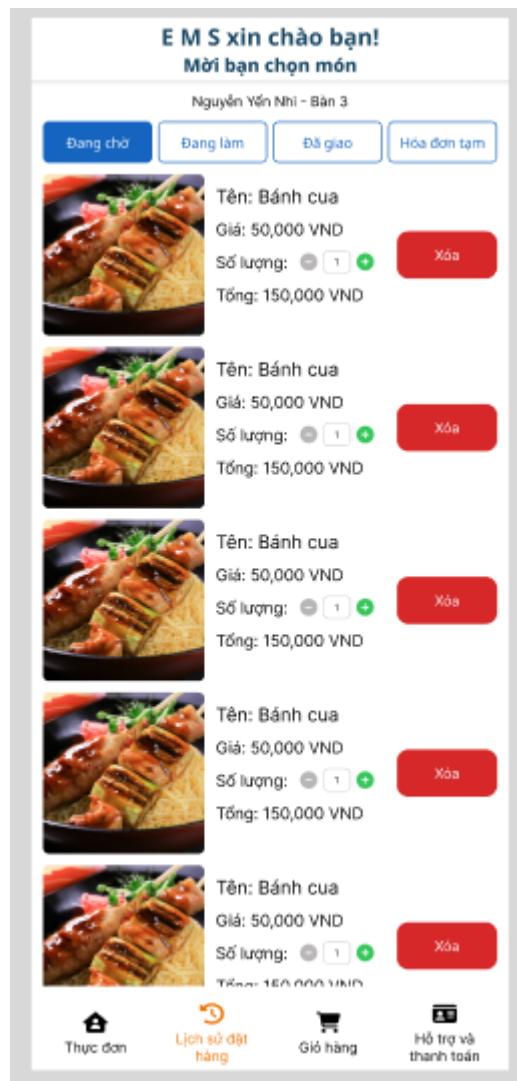


Figure 47- View waiting dishes

Field Name	Field Type	Description
Tiêu đề	text	To display the name of the customer and table name.
Đang chờ	button	To display all ordered dishes or drinks such as name, price, amount of number and picture. Customer can change the order by

		delete or increase or decrease number of dishes
Data dish: name, price, number, total money of each one and picture	text, picture	To display information about dishes such as name, price, number, total money of each one and picture.
+	button	To add one number of dishes.
-	button	To minus one number of dish
Xóa	button	To delete dishes of order.
Đang làm	button	To display all ordered dishes or drinks that the waiter confirmed such as name, price, amount of number and picture.
Đã giao	button	To display all ordered dishes or drinks that have been delivered to customers such as name, price, amount of number and picture.
Hóa đơn tạm	button	To display all ordered bill dishes or drinks such as name, price, amount of number picture and total money of order.

Table 56- View waiting dishes Description

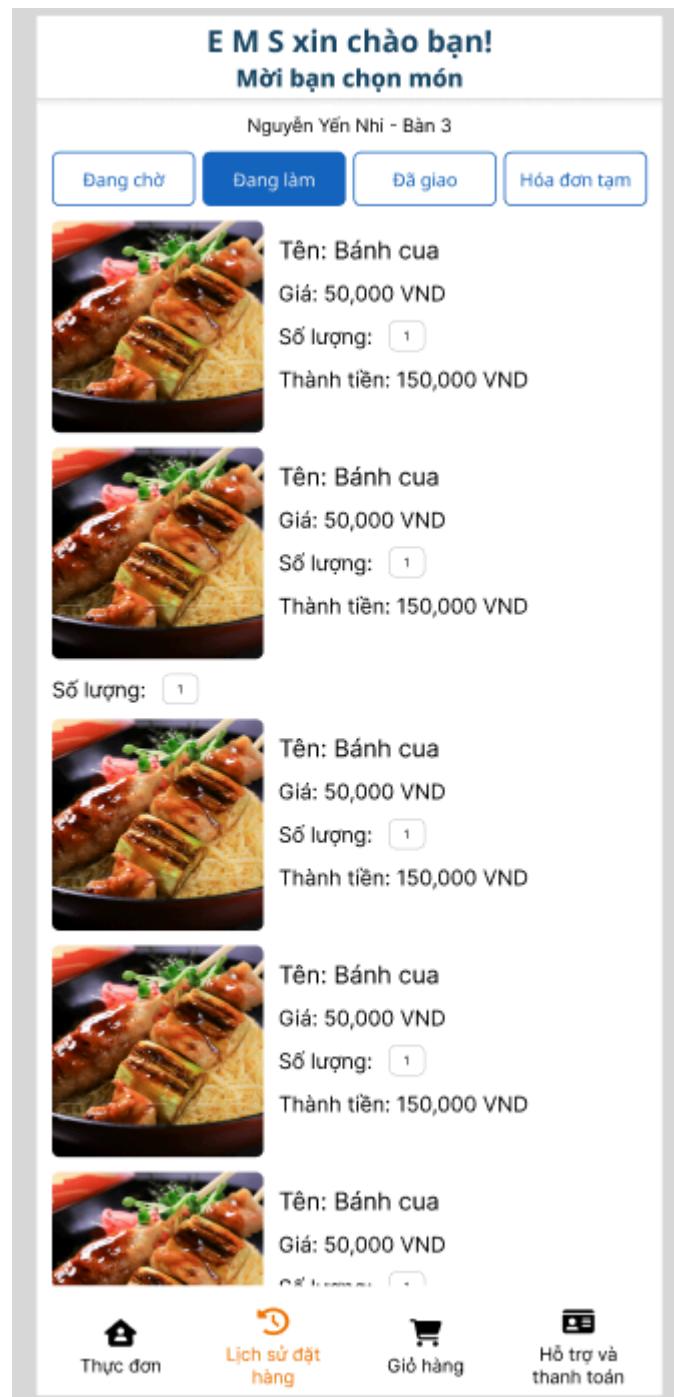


Figure 48- View doing dishes

Field Name	Field Type	Description
Tiêu đề	text	To display the name of the customer and table name.
Đang chờ	button	To display all ordered dishes or drinks such as name, price, amount of number and

		picture. Customer can change the order by delete or increase or decrease number of dishes
Data dish: name, price, number, total money of each one and picture	text, picture	To display information about dishes such as name, price, number, total money of each one and picture.
Đang làm	button	To display all ordered dishes or drinks that the waiter confirmed such as name, price, amount of number and picture.
Đã giao	button	To display all ordered dishes or drinks that have been delivered to customers such as name, price, amount of number and picture.
Hóa đơn tạm	button	To display all ordered bill dishes or drinks such as name, price, amount of number picture and total money of order.

Table 57- View doing dishes Description

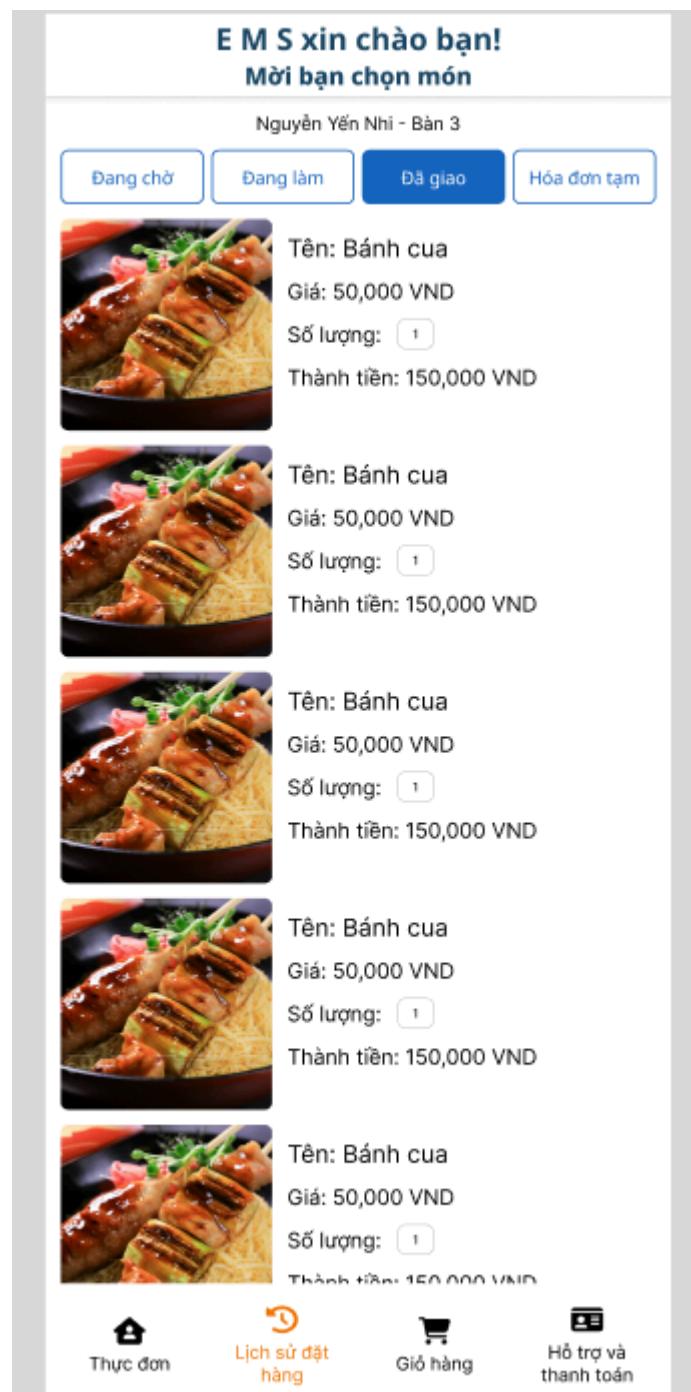


Figure 49- View delivered dishes

Field Name	Field Type	Description
Tiêu đề	text	To display the name of the customer and table name.

Đang chờ	button	To display all ordered dishes or drinks such as name, price, amount of number and picture. Customer can change the order by delete or increase or decrease number of dishes
Data dish: name, price, number, total money of each one and picture	text, picture	To display information about dishes such as name, price, number, total money of each one and picture.
Đang làm	button	To display all ordered dishes or drinks that the waiter confirmed such as name, price, amount of number and picture.
Đã giao	button	To display all ordered dishes or drinks that have been delivered to customers such as name, price, amount of number and picture.
Hóa đơn tạm	button	To display all ordered bill dishes or drinks such as name, price, amount of number picture and total money of order.

Table 58- View delivered dishes Description

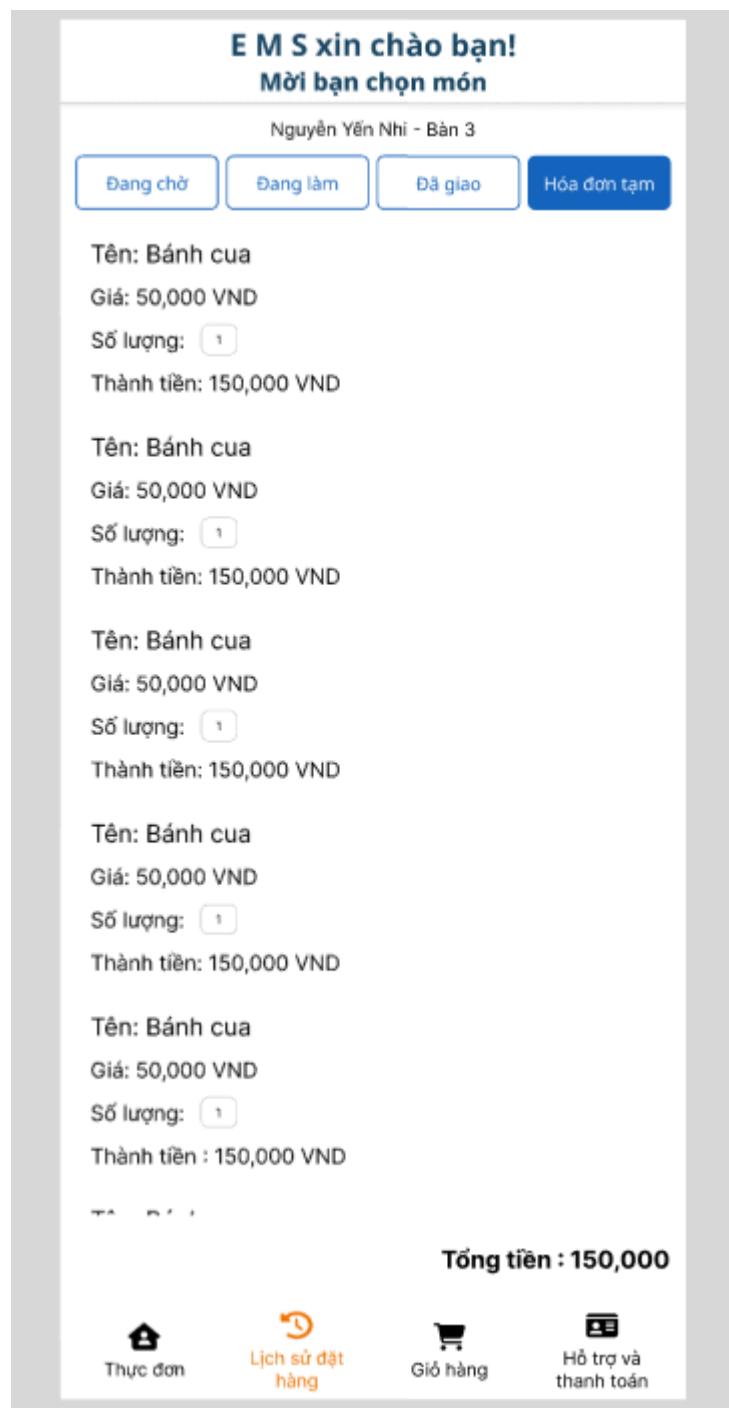


Figure 50- View temporary bill

Field Name	Field Type	Description
Tiêu đề 1	text	To display the banner of the customer page.
Tiêu đề 2	text	To display the name of the customer and the table name.

Đang chờ	button	To display all ordered dishes or drinks such as name, price, amount of number and picture. Customer can change the order by delete or increase or decrease number of dishes
Data dish: name, price, number, total money of each one, total money of bill and picture.	text, picture	To display information of dishes such as name, price, number, total money of each one, total money of bill and picture.
Đã xác nhận		To display all ordered dishes or drinks that the waiter confirmed such as name, price, amount of number and picture.
Đã giao		To display all ordered dishes or drinks that have been delivered to customers such as name, price, amount of number and picture.
Hóa đơn tạm		To display all ordered bill dishes or drinks such as name, price, amount of number picture and total money of order.

Table 59- View temporary bill Description

2.23 Contact - Customer

2.23.1: UC Specifications

ID and Name:	UC 23- Contact - Customer		
Created By:	Namlh	Date Created:	5/03/2024
Primary Actor:	Customer	Secondary Actors:	None
Description:	The function allows the Customer to order, call staff, and call for payment.		
Trigger:	When Customers scan QR code and enter the menu page and click “Hỗ trợ và thanh toán” button in bottom page.		
Preconditions:	PRE-1. The Customer scans the QR code and enters the menu page.		
Postconditions:	POST-1. The system will display a successful customer page when they click “Hỗ trợ và thanh toán” button in bottom page.		
Normal Flow:	1. Customers scan QR code to enter the contact page. 2. System will display the contact page successfully. 3. When customer click “Gọi nhân viên” button 4. System will display notification “Đã gọi nhân viên”. 4. When customer click “Gọi thanh toán” button.		

	<p>5. System will display notification “Đã gọi thanh toán”.</p> <p>5. When customer click “Thực đơn & gọi món” button.</p> <p>6. System display menu page.</p>
Alternative Flows:	N/A
Exceptions:	<p>1. ContactPageLoadException: When an error occurs while uploading your contact page, you may have server or network problems.</p> <p>2. CallStaffButtonException: When there is an error during the process of sending a request, call staff.</p> <p>3. CallPaymentButtonException: When there is an error during the process of sending a payment request.</p> <p>4. MenuPageLoadException: When there is an error loading the menu page, it may be due to a problem with the server or network.</p>
Priority:	High
Frequency of Use:	N/A
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.23.2: UI Specifications

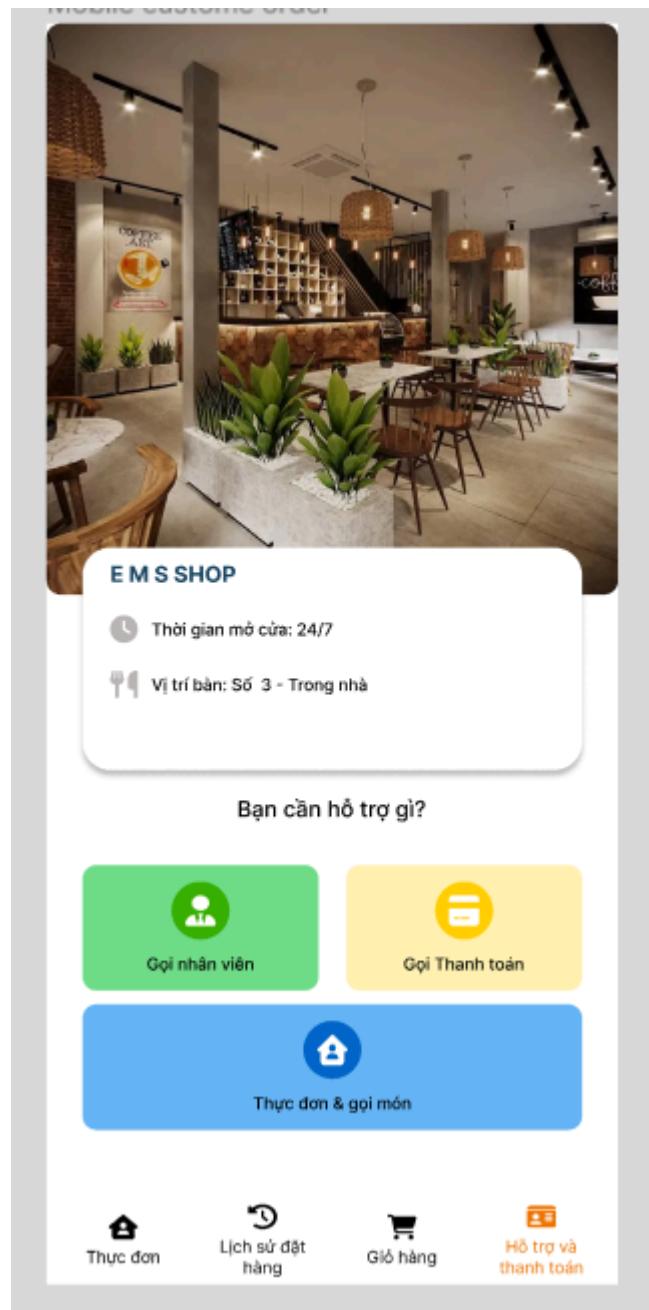


Figure 51- Contact

Field Name	Field Type	Description
Data	text	To display the information of the shop 's table order, area and name of the customer.
Gọi nhân viên	button	To call staff to solve the problems from order or eating.

Gọi thanh toán	button	To call staff to pay the order.
Thực đơn và gọi món	button	To link the menu page.

Table 61- Contact Description

2.24 View list order dish - Chef

2.24.1: UC Specifications

ID and Name:	UC 24- View list order dish		
Created By:	Namlh	Date Created:	5/03/2024
Primary Actor:	Chef	Secondary Actors:	None
Description:	The function allows the chef to view the list of dishes in order.		
Trigger:	When the chef logs into the website.		
Preconditions:	PRE- 1. The Chef login into the website.		
Postconditions:	POST-1. The system will display a successful list order dish page when they login successfully.		
Normal Flow:	<ol style="list-style-type: none"> 1. The system displays the "Chờ chế biến" dashboard. 2. The kitchen staff views the list of dishes, along with their notes and quantities. 3. The kitchen staff selects an order to view more details if needed. 4. The kitchen staff initiates the preparation of the dishes based on the list. 5. As each dish is prepared, the staff updates the system, marking dishes as "in progress" or "completed." 6. The system refreshes the list to reflect the current state of order preparation. 		
Alternative Flows:	N/A		
Exceptions:	<ol style="list-style-type: none"> 1. OrderDishListPageLoadException: When there is an error loading the dish list page, possibly due to a problem with the server, database, or network. 2. DatabaseConnectionException: When there is an error accessing the database to get the dish list, possibly due to the database being unavailable or an error in the query. 3. If the system fails to update the order status, it shows an error message, and the kitchen staff can attempt to update it again. 		
Priority:	High		

Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.24.2: UI Specifications

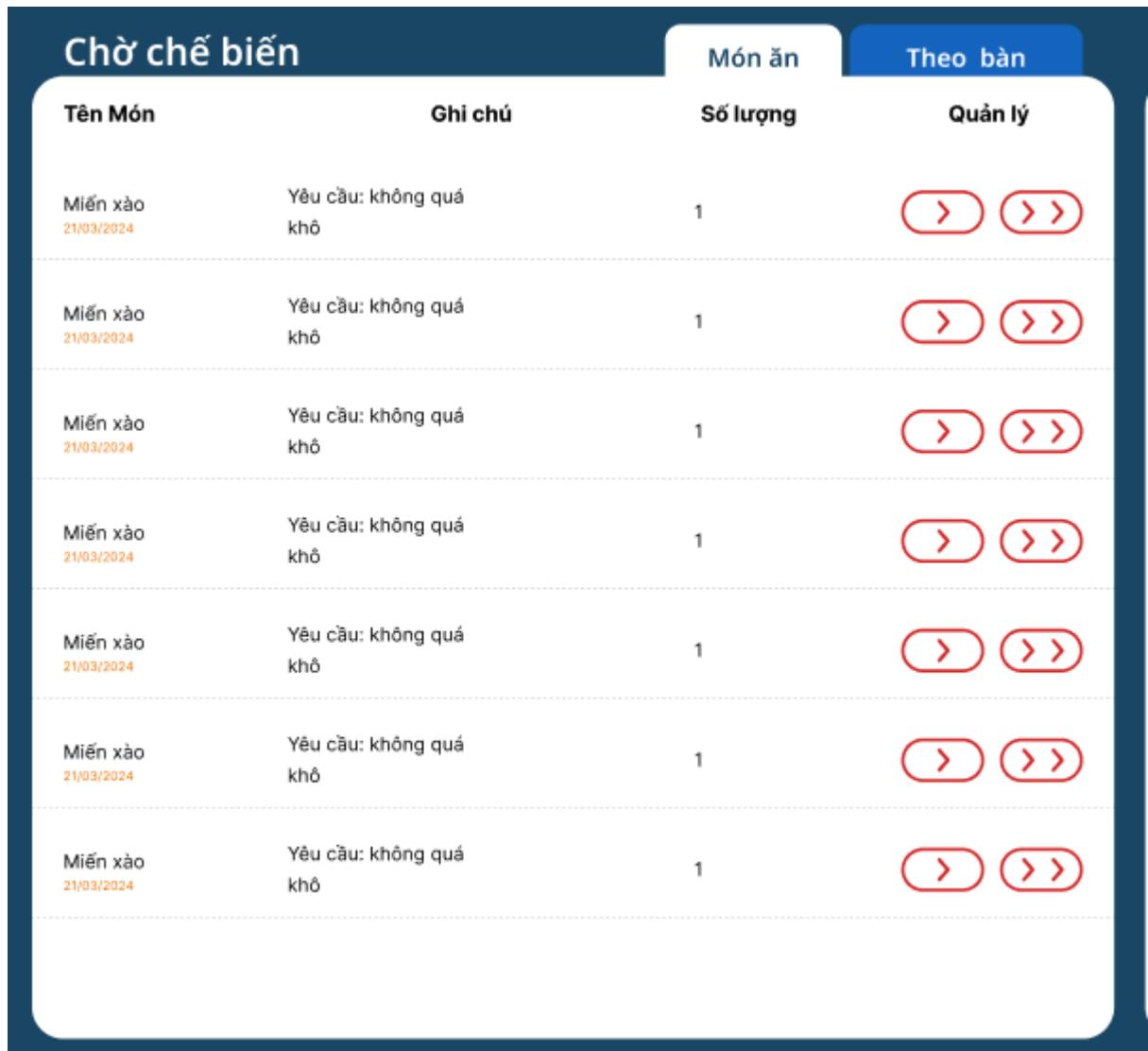


Figure 52- View list order dish

Field Name	Field Type	Description
Data table: Name, description, unit and management	text, button	To display the information of order that is the name of the dish, description and unit.

Next 1	button	To update dish status from doing to done with 1 unit.
Next all	button	To update dish status from doing to done with all units.
Ưu tiên	button	To step to the order dish page.
Theo bàn	button	To step to order for the table page.

Table 63- View list order dish Description

2.25 Update status order dish-Chef

2.25.1: UC Specifications

ID and Name:	UC 25- Update status order dish		
Created By:	Dunghit	Date Created:	5/03/2024
Primary Actor:	Chef	Secondary Actors:	None
Description:	The function allows the Chef to update the status of ordered dishes from doing to done and from done to doing .		
Trigger:	When the chef clicks the “Update” button to change the status of the dish.		
Preconditions:	PRE- 1. The Chef login into the website and inside view list order dishes.		
Postconditions:	POST-1. The system will display a successful update status of the dish when the chef updates.		
Normal Flow:	<ol style="list-style-type: none"> 1. Chef wants to update the status of the dish after one dish. 2. Chef clicks the “next 1” button. 3. System will change the status of the dish with 1 unit and put that dish to the finished dish page. 3. Chef clicks the “next all” button. 4. System will change the status of the dish when all units are done and put that dish to the finished dish page. 5. Chef clicks the “back 1” button. 6. System will change the status of the dish with 1 unit and put that dish to the list order dish page. 7. Chef clicks the “back all” button. 8. System will change the status of the dish when all units are done and put that dish to the finished dish page. 		

Alternative Flows:	N/A
Exceptions:	1. DishStatusUpdateException: When there is an error updating the status of the dish, possibly due to a problem with the database or source code related to updating the status. 2. DishNavigationException: When there is an error during navigation a dish from one list to another
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.25.2: UI Specifications

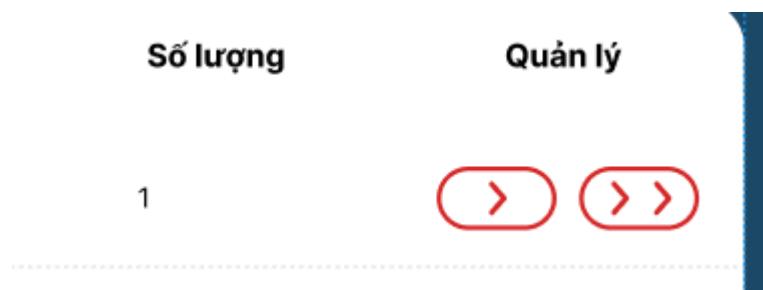


Figure 53- Update status order dish to done

Field Name	Field Type	Description
Next 1	button	To update dish status from doing to done with 1 unit.
Next all	button	To update dish status from doing to done with all units.

Table 65- Update status order dish to done Description

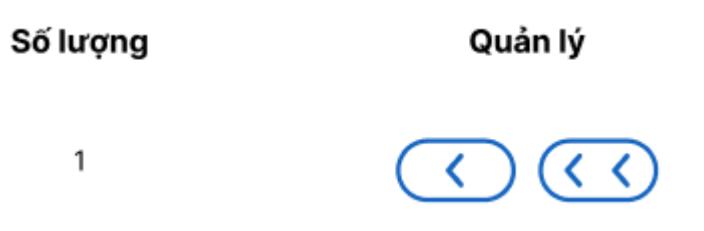


Figure 1- Update status order dish to doing

Field Name	Field Type	Description
Back 1	button	To update dish status from done to doing with 1 number.
Back all	button	To update dish status from done to doing with all numbers.

Table 66- Update status order dish to finished Description

2.26 View list finished dish

2.26.1: UC Specifications

ID and Name:	UC 26- View list finished dish		
Created By:	Dunghit	Date Created:	5/03/2024
Primary Actor:	Chef	Secondary Actors:	None
Description:	The function allows the chef to view the finished dish in order.		
Trigger:	When the chef logs into the website.		
Preconditions:	PRE- 1. The Chef login into the website.		
Postconditions:	POST-1. The system will display a successful list order dish page when they login successfully.		
Normal Flow:	1. Chef wants to see list finished dish to check the dishes after doing. 2. System will display list finished dish page to the chef successfully.		
Alternative Flows:	N/A		
Exceptions:	1. FinishedDishListPageLoadException: When there is an error loading the finished dish list page, possibly due to a problem with the server, database, or network. 2. DataMismatchException: When there is a difference between the expected data and the actual data in the completed dish list, leading to a discrepancy.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		

Other Information:	N/A
Assumptions:	N/A

2.26.2: UI Specifications

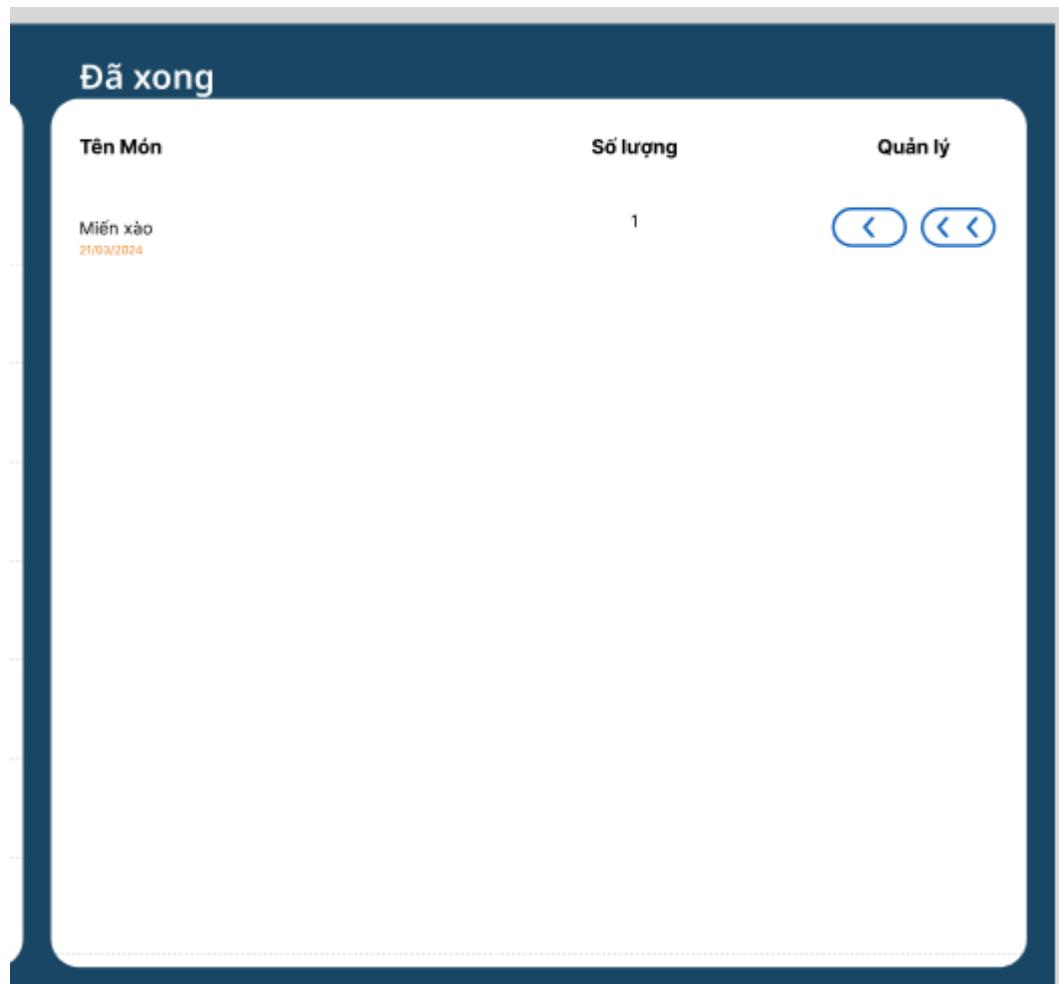


Figure 54- View list finished dish

Field Name	Field Type	Description
Data table: Name, unit and management	text	To display the information of order that is the name of the dish, description and unit.
Back 1	button	To update dish status from done to doing with 1 unit.
Back all	button	To update dish status from done to doing with all units.

Table 68- View list finished dish Description

2.27 View table - waiter

2.27.1: UC Specifications

ID and Name:	UC 27- View table		
Created By:	Dunght	Date Created:	5/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	This use case provides the waiter with a real-time overview of the status of tables within the restaurant, which is crucial for efficiently managing guest seating and ensuring timely service. The outcome is an organised seating and service flow that optimises restaurant operations and enhances customer satisfaction.		
Trigger:	The use case is initiated when a waiter or service staff selects the "Bàn" (Table) option from the system menu to view the status of tables in the restaurant.		
Preconditions:	PRE- 1. The system has data on the occupancy and service status of all tables.		
Postconditions:	POST-1. The system will display a successful view table page when they login successfully.		
Normal Flow:	<ol style="list-style-type: none"> 1. The waiter selects the "Bàn" option to view table status. 2. The system displays a layout of the restaurant's tables, showing their current status, such as "Đợi thanh toán" (awaiting payment) or "Bàn trống" (empty table), along with their location (e.g., "Tầng 1" for the first floor). 3. The waiter uses the information to direct new guests to empty tables or to attend to tables that require service. 		
Alternative Flows:	N/A		
Exceptions:	1. ViewTablePageLoadException: When there is an error loading the table selection page, possibly due to a problem with the server or network.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.27.2: UI Specifications

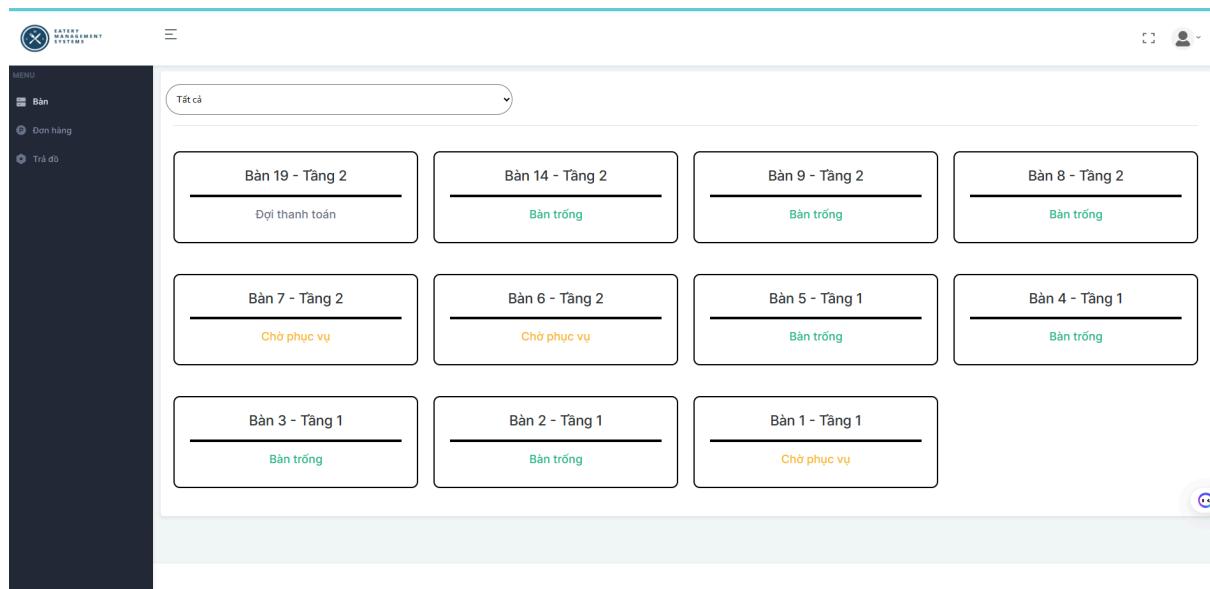


Figure 55- View table

Field Name	Field Type	Description
Filter	select options	To filter tables for status.
Data table : Name and status	text	To display the information of the table such as name, area and status of table.

Table 70- View table Description

2.28 Filter table-Waiter

2.28.1: UC Specifications

ID and Name:	UC 28- Filter table		
Created By:	Dunght	Date Created:	5/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	The function allows the Waiters to filter tables for status.		
Trigger:	When Waiters view the table page and select filters.		
Preconditions:	PRE- 1. The Waiters login website successfully. PRE- 2. The waiters in the view table page.		
Postconditions:	POST-1. The system will display a successful view table page when they login successfully.		

	POST-2. The system will display a successful filter table when they select a status.
Normal Flow:	<ol style="list-style-type: none"> 1. Waiters want to select the status of the table to filter the table. 2. Waiters click “Filter” selection. 3. System will display the all status of the table. 4. Waiters click “Tất cả” option. 5. System will display all the tables. 6. Waiters click “Bàn trống” option. 7. System will display all the tables not ordered. 8. Waiters click “Chờ phục vụ” option. 9. System will display all the tables that are ordering. 10. Waiters click “Đợi thanh toán” option. 11. System will display all the tables that are waiting for payment.
Alternative Flows:	N/A
Exceptions:	<ol style="list-style-type: none"> 1. TableStatusOptionsLoadException: When there is an error loading table status options, possibly due to a problem with the server or database. 2. TableStatusSelectionException: When there is an error during table status option selection, possibly due to data problems or technical errors. 3. FilteredTableListLoadException: When there is an error loading the table list according to the selected state, possibly due to a problem with the server or database.
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.28.2: UI Specifications

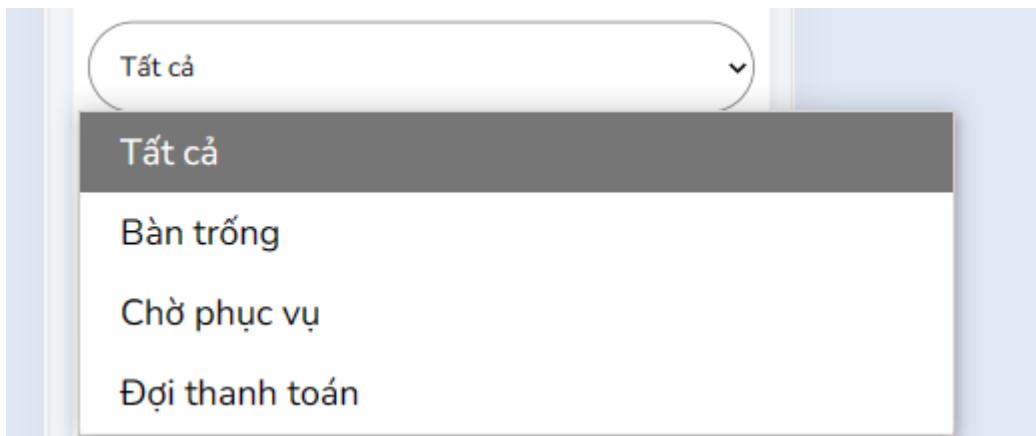


Figure 56- Filter table

Field Name	Field Type	Description
Data filter	text	To display all status of the table.
Filter	select options	To select a status to filter.

Table 72- Filter table Description

2.29 Create order-Waiter

2.29.1: UC Specifications

ID and Name:	UC 29- Create order		
Created By:	Dungct	Date Created:	5/03/2024
Primary Actor:	Waiters	Secondary Actors:	None
Description:	The function allows the Waiters to create an order.		
Trigger:	When Waiters input name and confirm create order.		
Preconditions:	PRE- 1. The Waiters select a table that is not ordered.		
Postconditions:	POST-1. The system will display a message successfully create order when they click confirm create order.		
Normal Flow:	1. Waiters want to select a table to start creating an order. 2. Waiters click a table that is not ordered. 3. System will display a pop up create order successfully. 4. Waiter input name of customer. 5. Waiters click “Xác nhận” button. 6. System will display the message created successfully. 7. System will display the menu page. 8. Waiters click the “Đóng” button. 9. System will cancel the create order.		
Alternative Flows:	N/A		
Exceptions:	1. CreateOrderPopupLoadException: When there is an error while displaying the order creation pop-up window, possibly due to a problem with the server, database, or network. 2. CustomerInfoInputException: When there is an error while entering customer information, such as invalid information or missing required information.		

	3. OrderConfirmationException: When there is an error during the order information confirmation process, possibly due to a problem with the database or invalid data. 4. MenuPageLoadException: When there is an error loading the menu page, possibly due to a problem with the server or network.
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.29.2: UI Specifications

The screenshot shows a mobile application window titled "Nhập tên khách hàng". It contains two text input fields: one labeled "Tên bàn:" with the value "Bàn 4" and another labeled "Họ tên:" which is empty. At the bottom are two buttons: a grey "Đóng" button and a green "Xác nhận" button.

Figure 57- Create order

Field Name	Field Type	Description
Tên bàn	text, label	To display the name of the table.
Họ tên	textbox, label	To input the name of the customer.
Đóng	button	To cancel, create order.
Xác nhận	button	To confirm create order.

Table 73- Create order Description

2.30 View menu - Waiter

2.30.1: UC Specifications

ID and Name:	UC 30- View menu-Waiter		
Created By:	Dungct	Date Created:	5/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	The View Menu use case enables waiters to access the full range of available dishes and beverages, facilitating the order-taking process.		
Trigger:	The use case begins when a waiter selects the menu viewing option within the restaurant management system to assist customers in making their orders.		
Preconditions:	PRE- 1. The menu items and prices are up-to-date and correctly listed in the system.		
Postconditions:	POST-1. The waiter has viewed the dish available on the menu.		
Normal Flow:	<ol style="list-style-type: none"> 1. Waiter navigates to the menu section. 2. System displays the various menu categories and items, including images and prices. 3. Waiter browses through or searches the menu to find items requested by customers or to make suggestions. 		
Alternative Flows:	N/A		
Exceptions:	<ol style="list-style-type: none"> 1.If the menu fails to load, the system displays an error message and the waiter attempts to reload the menu. 2.If an item is selected but the information is outdated or incorrect, the system notifies the waiter, who then informs the customer and provides alternatives. 		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.30.2: UI Specifications

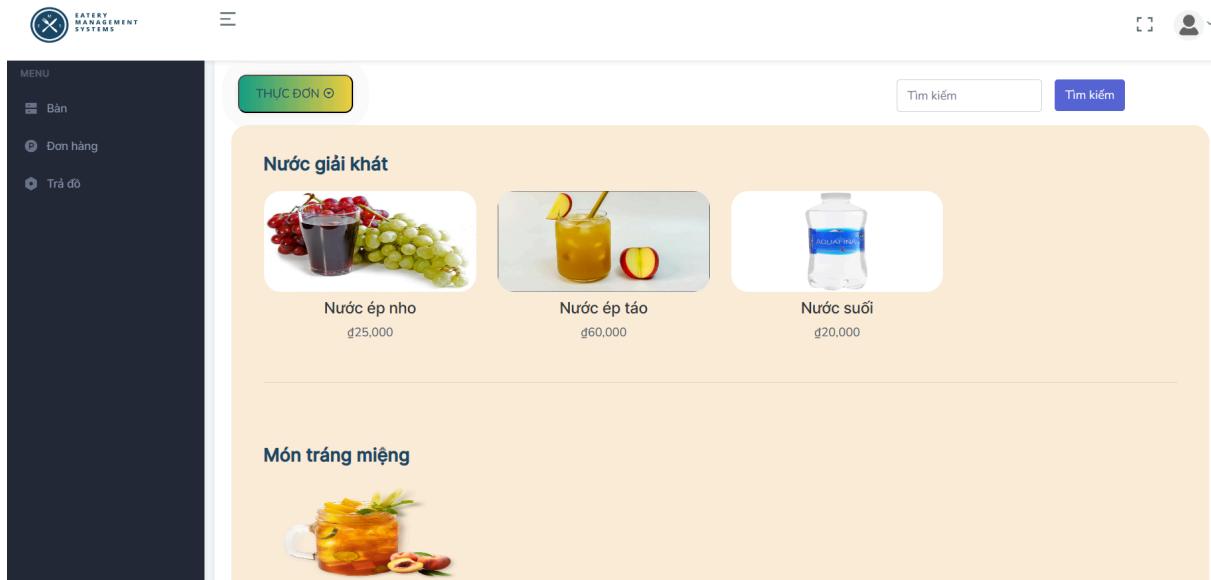


Figure 58- View menu

Field Name	Field Type	Description
Thực đơn	button	For user filter category
Tìm kiếm	textbox	For user search name of dish

Table 74- Contact page Description

2.31 Search dish- Waiter

2.31.1: UC Specifications

ID and Name:	UC 31- Search dish- Waiter		
Created By:	Dungct	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	The "Search Dish" use case enables waiters to quickly locate details about menu items through a search query.		
Trigger:	When the waiter needs to find information on a specific dish for a customer using the search function in the restaurant management system.		
Preconditions:	PRE- 1. Waiter entering search data into the textbox		
Postconditions:	POST-1. The system will display data according to the search waiter's criteria		

Normal Flow:	<ol style="list-style-type: none"> 1. Waiter types in the name or a keyword associated with a dish into the search bar. 2. The system will validate data when waiter input 3. The system processes the query and displays all relevant dishes.
Alternative Flows:	N/A
Exceptions:	<ol style="list-style-type: none"> 1. Waiter enters invalid input. 2. If no results are found, the system notifies the waiter to adjust the search criteria.
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.31.2: UI Specifications



Figure 59- Search dish

Field Name	Field Type	Description
Tìm kiếm	textbox	For user search name of dish

Table 75- Search dish Description

2.32 Filter dish-Waiter

2.32.1: UC Specifications

ID and Name:	UC 32- Filter dish		
Created By:	LuanCV	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	This use case allows the waiter to filter the menu items based on specific criteria such as dish type or price range..		
Trigger:	When Waiter click button "Thực đơn" system show list Category		
Preconditions:	PRE- 1.Current menu items are available and correctly categorised in the system		
Postconditions:	POST-1. The system displays only the menu items that match the filter criteria.		
Normal Flow:	1. Waiter selects the "Filter dish" option on the menu screen. 2. The system presents filtering options (e.g., dish type, price range). 3. Waiter specifies the filtering criteria. 4. The system processes the criteria and updates the menu display accordingly.		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Use:	Medium		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.32.2: UI Specifications

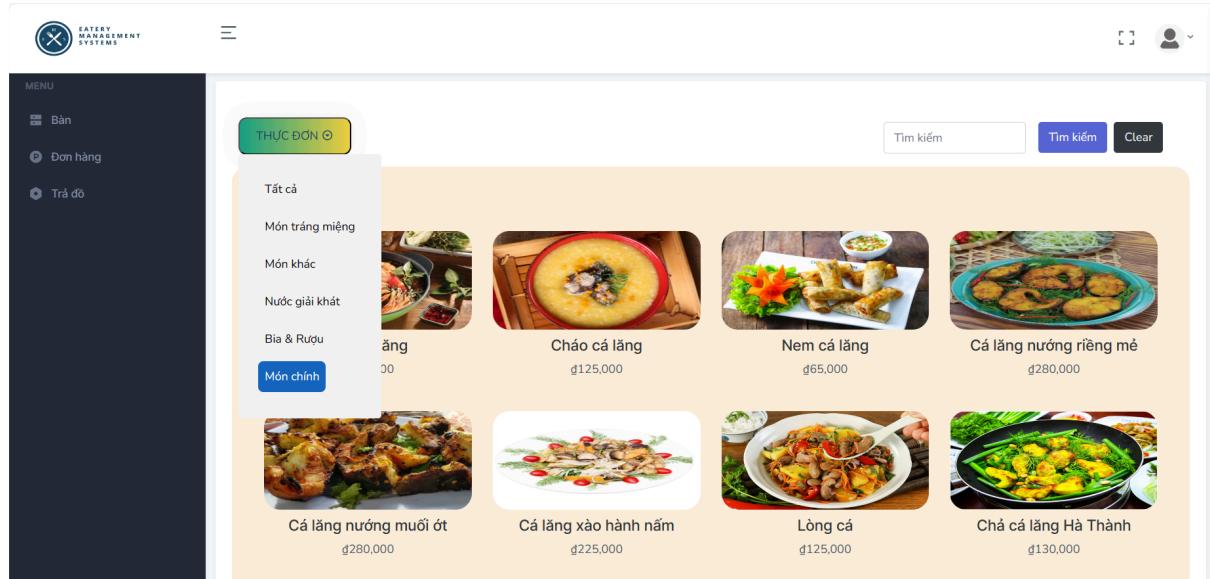


Figure 60- Filter dish

Field Name	Field Type	Description
Thực đơn	button	Waiter used to filter out dishes

Table 76- Filter dish

2.33 View Cart -Waiter

2.33.1: UC Specifications

ID and Name:	UC 33- View Cart		
Created By:	Namlh	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	Waiter can reviewing and managing the items in a customer's order before finalising it		
Trigger:	Waiter click “Giỏ hàng” to review the current selections for a customer's order.		
Preconditions:	PRE- 1. There are dishes added to the cart for the current customer.		
Postconditions:	POST-1. The system will display all dish customer orders		

Normal Flow:	<ol style="list-style-type: none"> Waiter selects "Giỏ hàng" from the menu options. The system displays the current items in the cart, along with quantities and prices. Waiter reviews the items and confirms with the customer. Waiter makes any necessary changes (e.g., changing the quantity or removing items). The system updates the cart and displays the new total.
Alternative Flows:	N/A
Exceptions:	1.If an attempt is made to update the cart with an out-of-stock item, the system notifies the waiter and does not allow the addition.
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.33.2: UI Specifications

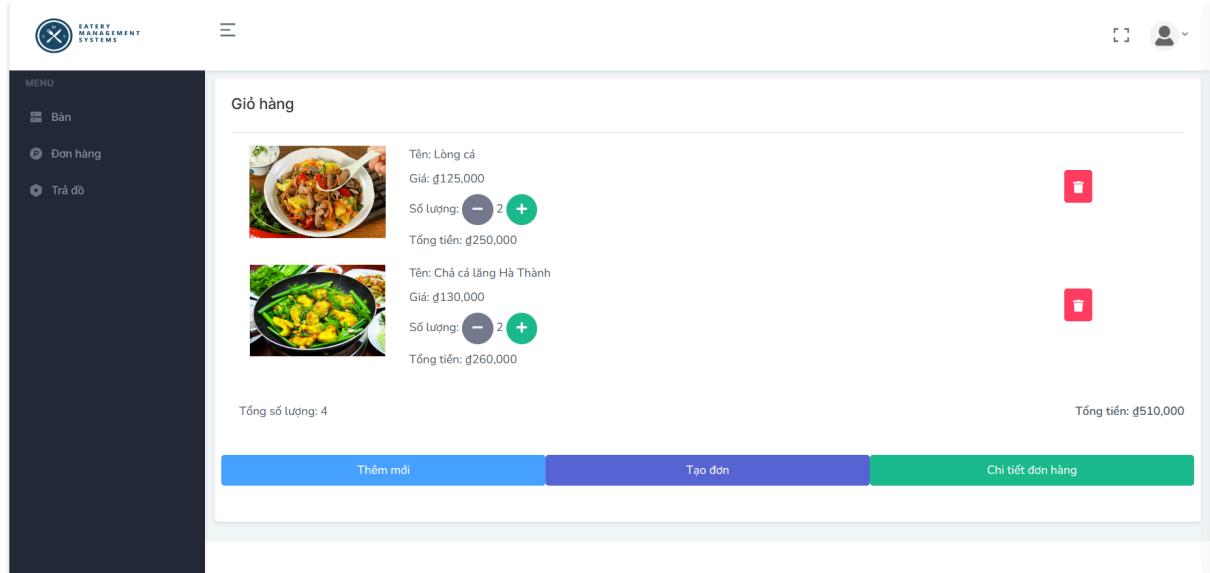


Figure 61- View Cart

Field Name	Field Type	Description
Thêm mới	button	Waiter can add more dish follow request from Customer

Tạo đơn	button	Waiter confirm order for customer
Chi tiết đơn hàng	button	Waiter view detail order

Table 77- View Cart

2.34 Add to cart - waiter

2.34.1: UC Specifications

ID and Name:	UC 34- Add to cart		
Created By:	Dungct	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	This use case describes the process by which the waiter adds a dish. The sequence of actions includes selecting the dish, specifying the quantity, and optionally adding order notes before saving the changes to the cart.		
Trigger:	The waiter, upon the customer's request, initiates the addition of an item to the cart		
Preconditions:	PRE-1. The system has the updated menu with prices and available dishes.		
Postconditions:	POST-1. The cart's total is updated to reflect the addition of the new item.		
Normal Flow:	<ol style="list-style-type: none"> 1. Waiter selects the option to add a dish to the cart. 2. The system displays the item details including name, image, and price. 3. Waiter enters the quantity of the dish to be ordered. 4. Waiter adds any specific notes for the order as requested by the customer. 5. The system will validate data when user enters "Save" 6. Waiter confirms the addition by selecting "Save." 7. The system updates the cart and the total amount. 		
Alternative Flows:	N/A		
Exceptions:	<ol style="list-style-type: none"> 1. If the system detects invalid characters or an excessively long note, it prompts the waiter to correct the input. 2. If the waiter enters a quantity that exceeds the available stock, the system alerts the waiter and does not allow the addition. 		
Priority:	High		
Frequency of Use:	High		

Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.34.2: UI Specifications

Thêm vào giỏ hàng ×



Tên sản phẩm:
Cháo cá lăng

Giá:
125000

Số lượng:

Ghi chú đơn hàng

Nội dung

Đóng
Lưu

Figure 62- Add to cart

Field Name	Field Type	Description
Tên sản phẩm	text	Display name of dish
Giá	number	Display price of dish
Số lượng	number	Waiter enter numbers of dish
Ghi chú đơn hàng	text	Waiter note request from Customer
Đóng	button	Close pop up
Lưu	button	Save order from customer

Table 78- Add to cart

2.35 View list order- waiter

2.35.1: UC Specifications

ID and Name:	UC 35- View list order		
Created By:	Dungct	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	The function allows the Waiters to view all orders of customers.		
Trigger:	When Waiters click “Đơn hàng” nav link in the left navbar.		
Preconditions:	PRE- 1. The Waiters login into the system. PRE- 2. The Waiters click “Đơn hàng” nav link in the left navbar.		
Postconditions:	POST-1. The system will display a successful order list page.		
Normal Flow:	1. Waiters want to check out all orders of customers. 2. System display order list page to waiters successfully.		
Alternative Flows:	N/A		
Exceptions:	1. Order Confirmation Exception: When there is an error during the order confirmation process, possibly due to a problem with the database, server, or network.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.35.2: UI Specifications

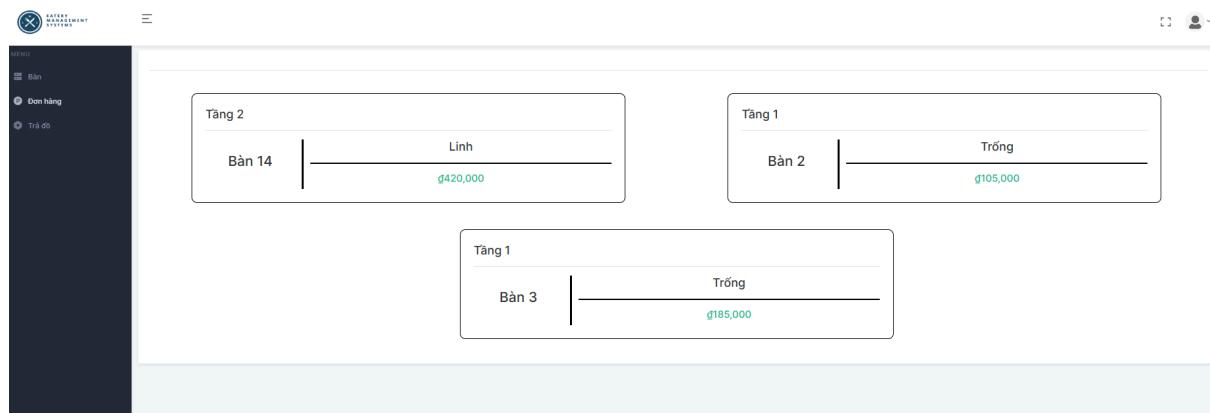


Figure 63- View list order

Field Name	Field Type	Description
Area	text	To display the area of the table.
Table name	text	To display the name of the table.
Customer name	text	To display the name of the customer.
Total money	text	To display total money in order.

Table 79- View list order Description

2.36 Confirm order -Waiter

2.36.1 UC Specifications

ID and Name:	UC 36 - Confirm order		
Created By:	Dungh	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	The function allows the Waiters to confirm the order of customers.		
Trigger:	When Waiters click the “Xác nhận đơn” button in view detail order page.		
Preconditions:	PRE- 1. The Waiters login into the system. PRE- 2. The Waiters in view detail order page.		
Postconditions:	POST-1. The system will confirm successful orders.		

Normal Flow:	<ol style="list-style-type: none"> Waiters want to confirm the order of customers. Waiters click “Xác nhận đơn” button. System will confirm the order successfully.
Alternative Flows:	N/A
Exceptions:	1. Order Confirmation Exception: When there is an error during the order confirmation process, possibly due to a problem with the database, server, or network.
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.36.2 UI Specifications

Chi tiết đơn hàng

Khách mới - Bàn 2

Đang chờ Đã giao Tất cả

Tên: Nước suối
Giá: ₫20,000
Số lượng: 2 - +

Tên: Nem cá lăng
Giá: ₫65,000
Số lượng: 1 - +

Tổng tiền: ₫105,000

Thêm mới Giỏ hàng Xác nhận đơn

Figure 64- Confirm order

Field Name	Field Type	Description
Xác nhận đơn	button	To confirm the order.

Table 80- Confirm order Description

2.37 Edit order -Waiter

2.37.1 UC Specifications

ID and Name:	UC 37 - Edit order		
Created By:	Dunght	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	The function allows the Waiters to edit an order of customers.		
Trigger:	When Waiters click view detail of an order.		
Preconditions:	PRE- 1. The Waiters login into the system. PRE- 2. The Waiters click the “Đơn hàng” nav link in the left navbar.		
Postconditions:	POST-1. The system will update order successfully.		
Normal Flow:	1. Waiters want to edit an order of customers. 2. Waiters click 1 order. 3. System display order detail page to waiters successfully. 4. Waiter clicks the “-” button. 5. System will minus 1 unit of dish. 6. Waiter clicks the “+” button. 7. System will add 1 unit of dish. 8. Waiter clicks the “Xóa” button. 9. System will delete the dish.		
Alternative Flows:	N/A		
Exceptions:	1. OrderItemDeleteException: When there was an error deleting the item from the order, possibly due to a problem with the database or network. 2. OrderUpdateException: When there is an error updating the quantity of items in an order, possibly due to a problem with the database or network.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.37.2 UI Specifications

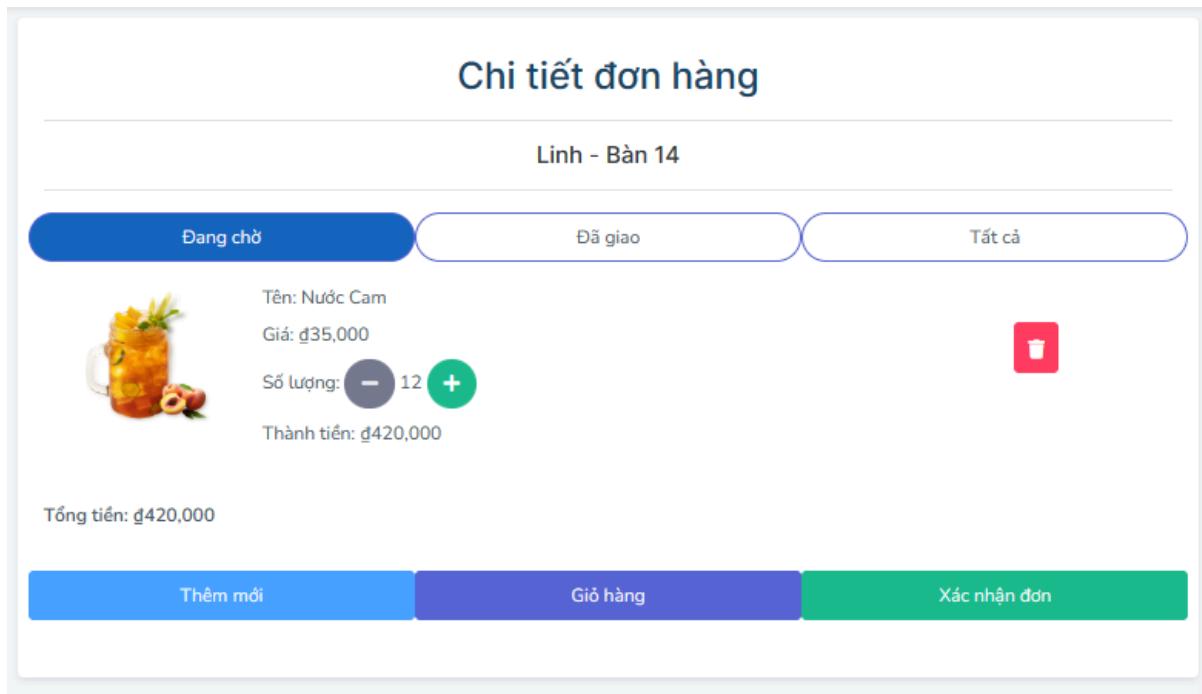


Figure 66- Edit order

Field Name	Field Type	Description
Data dish: Name, price, unit, total money of dish	text	To display information about the dish.
Thêm mới	text	To add a new dish.
-	button	To minus 1 unit of dish.
+	button	To add 1 unit of dish.
Xóa	button	To delete dishes.
Total money of order	text	To display total money in order.

Table 81- Edit order Description

2.38 View waiting dish -Waiter

2.38.1 UC Specifications

ID and Name:	UC 38 - View waiting dish		
Created By:	Dunght	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	The function allows the Waiters to see what customers order.		
Trigger:	When Waiters click view detail of an order.		
Preconditions:	PRE- 1. The Waiters login into the system. PRE- 2. The Waiters click the “Đơn hàng” nav link in the left navbar.		
Postconditions:	POST-1. The system will display waiting dish page successfully.		
Normal Flow:	1. Waiters want to see order of customers to confirm. 2. Waiters click 1 order. 3. System display order detail page to waiters successfully. 4. Waiter clicks the “Thêm mới” button. 5. System will step to the menu page. 6. Waiter clicks the “Giỏ hàng” button. 7. System will step to the cart page. 8. Waiter clicks the “Xác nhận đơn” button. 9. System will confirm order of customer.		
Alternative Flows:	N/A		
Exceptions:	1. MenuPageNavigationException: When there is an error redirecting to the menu page, possibly due to a problem with the network or database. 2. Cart PageNavigationException: When there is an error redirecting to the cart page, possibly due to a problem with the network or database. 3. OrderConfirmationException: When there is an error during the order confirmation process, possibly due to a problem with the database or network.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.38.2 UI Specifications

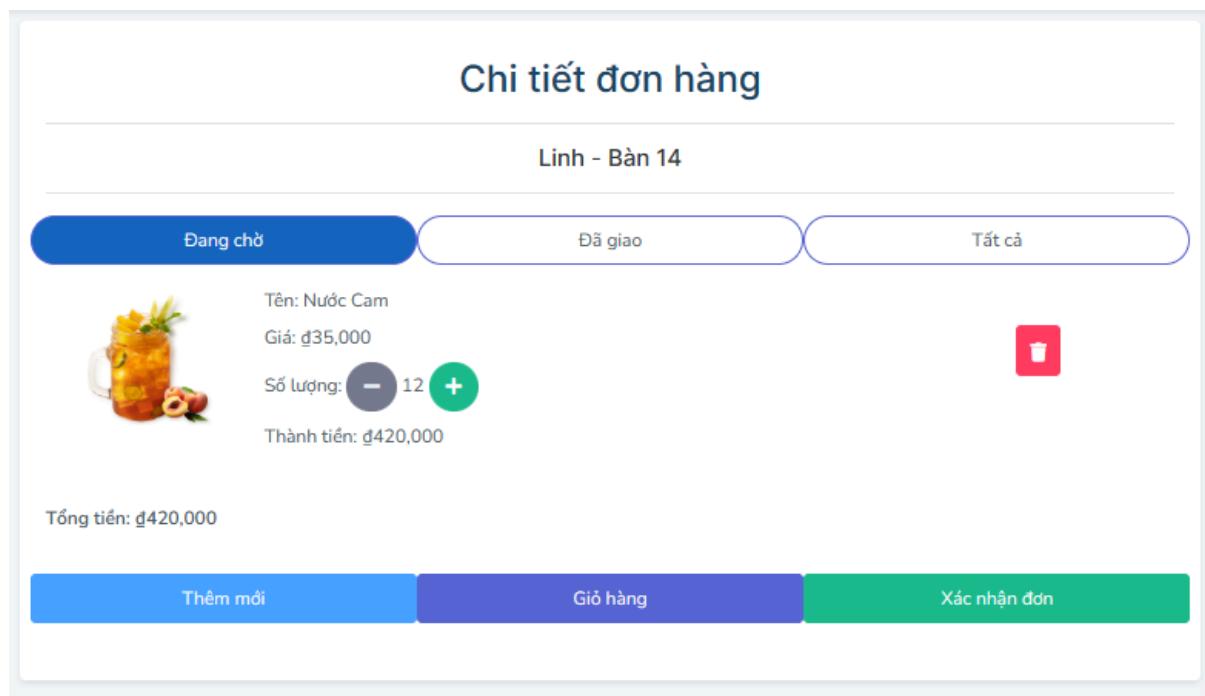


Figure 67- View waiting dish

Field Name	Field Type	Description
Data dish: Name, price, unit, total money of dish	text	To display information about the dish.
Thêm mới	text	To add a new dish.
-	button	To minus 1 unit of dish.
+	button	To add 1 unit of dish.
Xóa	button	To delete dishes.
Total money of order	text	To display total money in order.
Thêm mới	button	To step to menu page.
Giỏ hàng	button	To step to cart.
Xác nhận đơn	button	To confirm order.

Table 82- View waiting dish

2.39 View delivered dish -Waiter

2.39.1 UC Specifications

ID and Name:	UC 39 - View delivered dish		
Created By:	Namlh	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	This use case describes the process by which a waiter view list dish that were delivered to customers.		
Trigger:	Waiter click “Đã giao” button in view detail order page.		
Preconditions:	<p>PRE- 1.The customer's initial order is already placed and exists in the system.</p> <p>PRE- 2.The order must be confirmed.</p> <p>PRE- 3.The dish must be done.</p>		
Postconditions:	POST-1. The waiters can see all the dishes that were delivered to customers.		
Normal Flow:	<ol style="list-style-type: none"> 1. The waiters want to see dishes that were delivered to customers. 2. Waiters click "Đã giao" button on view delivery dish page. 3. The system displays delivered dish list to waiters. 4. Waiter clicks the "Thêm mới" button. 5. System will step to the menu page. 6. Waiter clicks the "GiỎ hàng" button. 7. System will step to cart page. 8. Waiter clicks the "Chốt đơn" button. 9. System will step to view bill page. 		
Alternative Flows:	N/A		
Exceptions:	<p>1. MenuPageNavigationException: When there is an error redirecting to the menu page, possibly due to a problem with the network or database.</p> <p>2. Cart PageNavigationException: When there is an error redirecting to the cart page, possibly due to a problem with the network or database.</p> <p>3. ViewBillException: When there is an error during the view bill process, possibly due to a problem with the database or network.</p>		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.39.2 UI Specifications

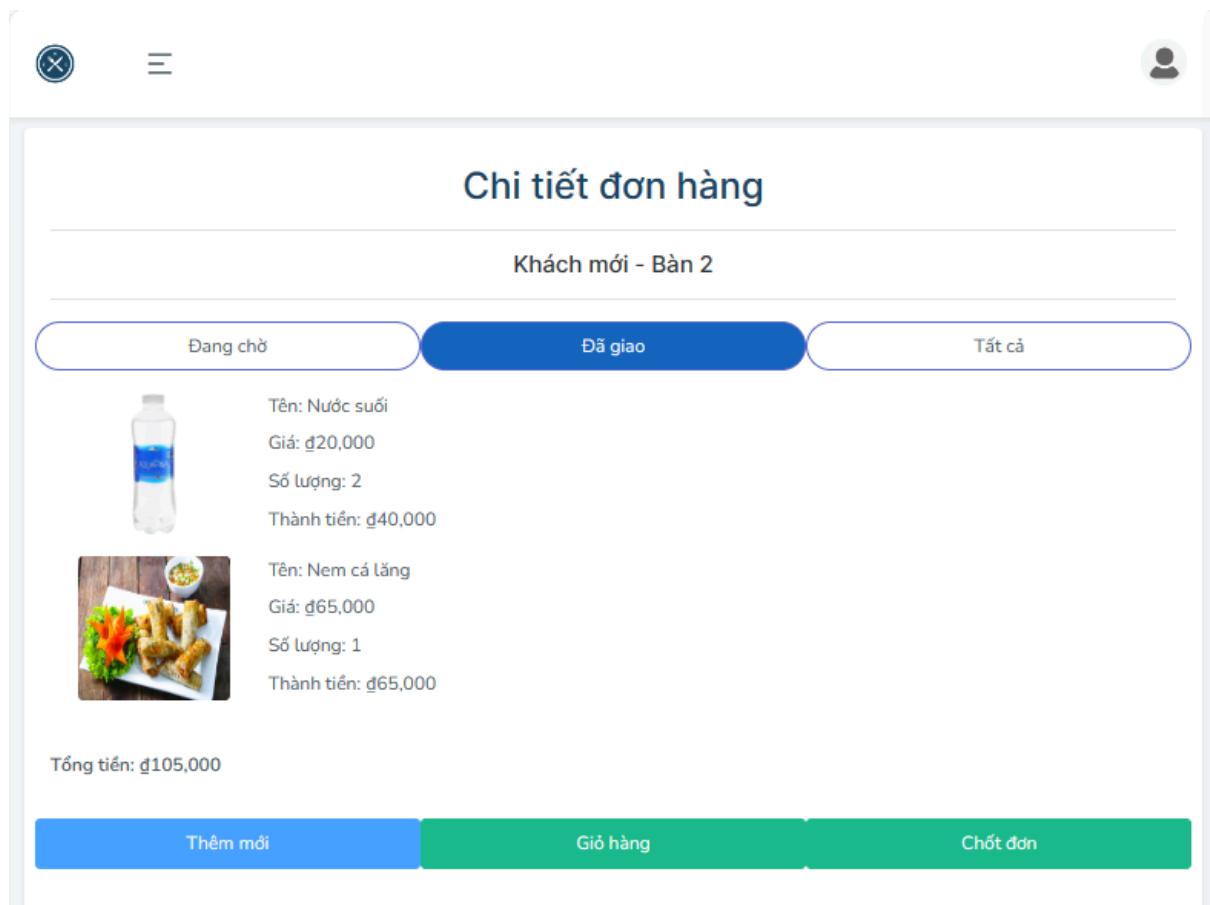


Figure 68- View delivered dish

Field Name	Field Type	Description
Data dish: name,price, unit, total money of dish	text	To display information of dish.
Total money of order	text	To display total money of order.
Thêm mới	button	To step to menu page.
Giỏ hàng	button	To step to cart.
Chốt đơn	button	To step to view bill page.

Table 82- View waiting delivered dish description

2.40 Confirm bill -Waiter

2.40.1 UC Specifications

ID and Name:	UC 40 - Confirm bill		
Created By:	Dungct	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	This use case describes the process by which a waiter view temporary bill that waiter will confirm to customers.		
Trigger:	Waiter click “Tất cả” button in view detail order page, then click “Chốt đơn” button.		
Preconditions:	PRE- 1. The customer's initial order is already placed and exists in the system. PRE- 2. The order must be confirmed. PRE- 3. The dish must be done.		
Postconditions:	POST-1. The waiters can see all the dishes that were delivered to customers.		
Normal Flow:	1. The waiters want to confirm to customers. 2. Waiters click "Chốt đơn" button on view all ordered dish page. 3. The system displays confirm page to waiters. 4. Waiter clicks the "Thêm mới" button. 5. System will step to the menu page. 6. Waiter clicks the "-" button. 7. System will minus 1 unit of dish. 8. Waiter clicks the "+" button. 9. System will add 1 unit of dish. 10. Waiter clicks the "Xóa" button. 11 System will delete the dish. 12. Waiter clicks the "Chốt đơn" button. 13. System will confirm bill to customers.		
Alternative Flows:	N/A		
Exceptions:	1. DishQuantityUpdateException: When there is an error updating the dish quantity (add or decrease), possibly due to a problem with the database or network. 2. DishDeletionException: When there was an error deleting a dish from an order, possibly due to a problem with the database or network. 3. BillConfirmationException: When there is an error confirming the invoice to the customer, possibly due to a problem with the database or network.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		

Other Information:	N/A
Assumptions:	N/A

2.40.2 UI Specifications

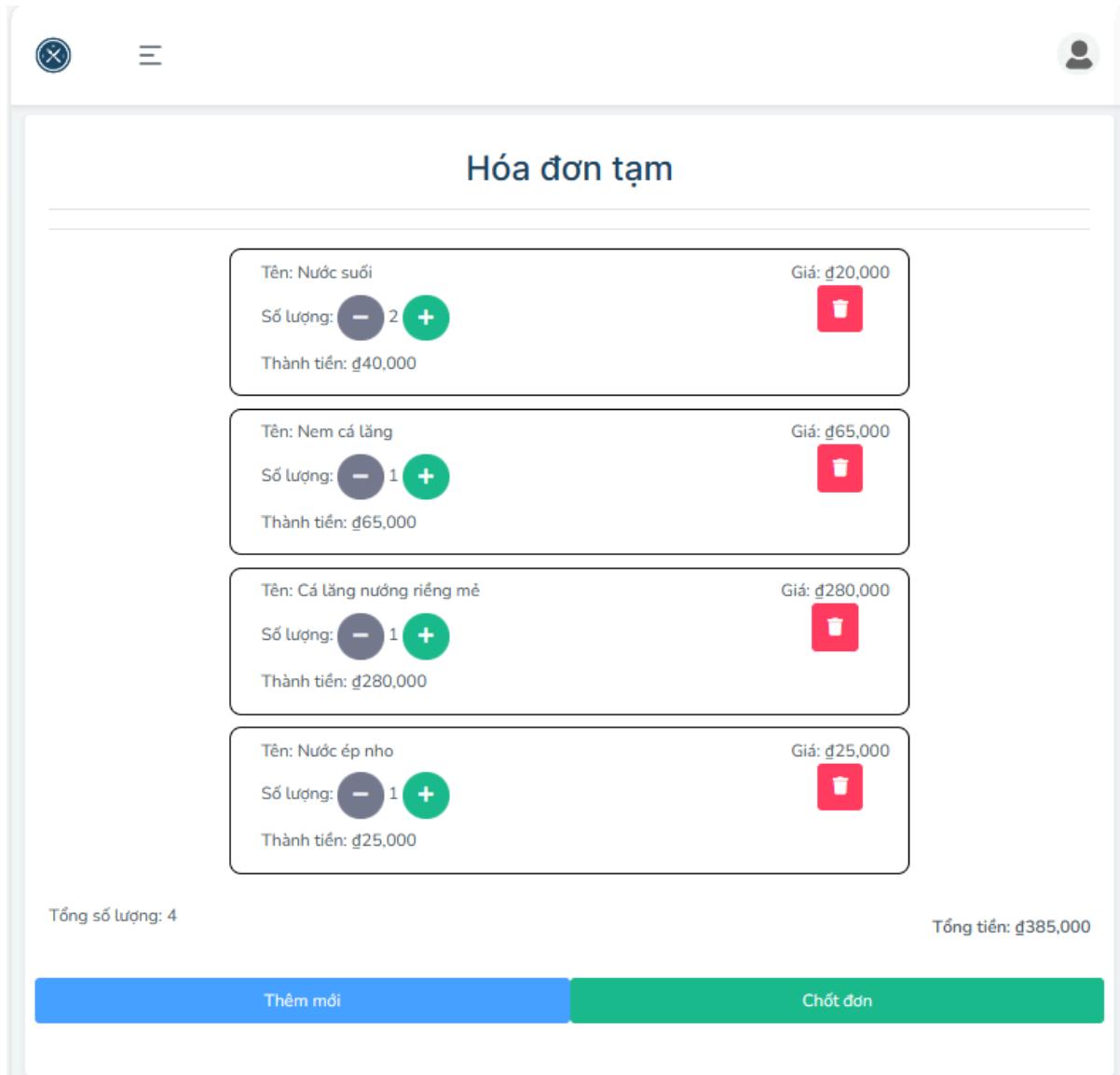


Figure 69- Confirm bill

Field Name	Field Type	Description
Data dish: name, price, unit, total money of dish	text	To display information of dish.
-	button	To minus 1 unit of dish.

+	button	To add 1 unit of dish
Xóa	button	To delete dish.
Thêm mới	button	To step to menu page.
Chốt đơn	button	To confirm bill to customer.

Table 83- Confirm bill description

2.41 View waiting dish list -Waiter

2.41.1 UC Specifications

ID and Name:	UC 42 - View waiting dish list		
Created By:	LuanCV	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	This use case describes the process by which a waiter view list dish that are waiting to confirm.		
Trigger:	Waiter click “Chờ xác nhận” button in view delivery dish page.		
Preconditions:	PRE-1. The customer's initial order is already placed and exists in the system.		
Postconditions:	POST-1. The waiters can see all the dishes that are waiting to serve to customers.		
Normal Flow:	<ol style="list-style-type: none"> 1. The waiters want to see dishes that are waiting to confirm. 2. Waiters click "Chờ xác nhận" button on view delivery dish page. 3. The system displays waiting dish list to waiters. 		
Alternative Flows:	N/A		
Exceptions:	1. WaitingDishListLoadException: When there is an error loading the dish list waiting for confirmation, possibly due to a problem with the server, database, or network.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.41.2 UI Specifications

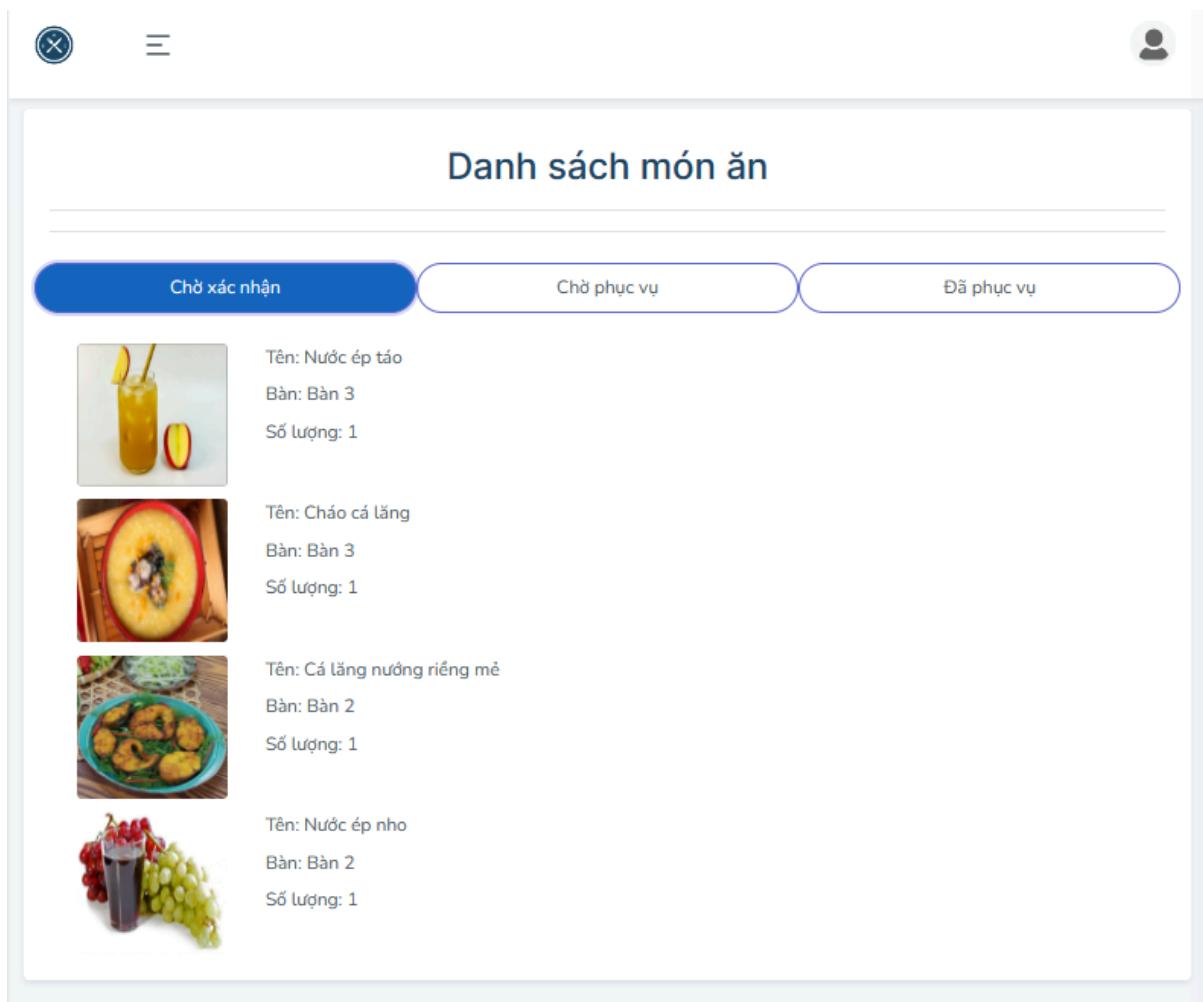


Figure 70- View waiting delivery dish list

Field Name	Field Type	Description
Data dish: name, table of order, unit	text	To display information of dish.

Table 84- View waiting delivery dish list description

2.42 View waiting delivery dish list -Waiter

2.42.1 UC Specifications

ID and Name:	UC 43 - View waiting delivery dish list		
Created By:	Dungct	Date Created:	9/03/2024

Primary Actor:	Waiter	Secondary Actors:	None
Description:	This use case describes the process by which a waiter view list dish that are waiting to serve to customer.		
Trigger:	Waiter click “Chờ phục vụ” button in view delivery dish page.		
Preconditions:	PRE- 1. The customer's initial order is already placed and exists in the system. PRE- 2. The order must be confirmed. PRE- 3. The dish must be done.		
Postconditions:	POST-1. The waiters can see all the dishes that are waiting to serve to customers.		
Normal Flow:	1. The waiters want to see dishes that waiting to serve to customer. 2. Waiters click "Chờ phục vụ" button on view delivery dish page. 3. The system display waiting delivery dish list to waiters.		
Alternative Flows:	N/A		
Exceptions:	1. WaitingDishListLoadException: When there is an error loading the served dishes list, possibly due to a problem with the server, database, or network.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.42.2 UI Specifications

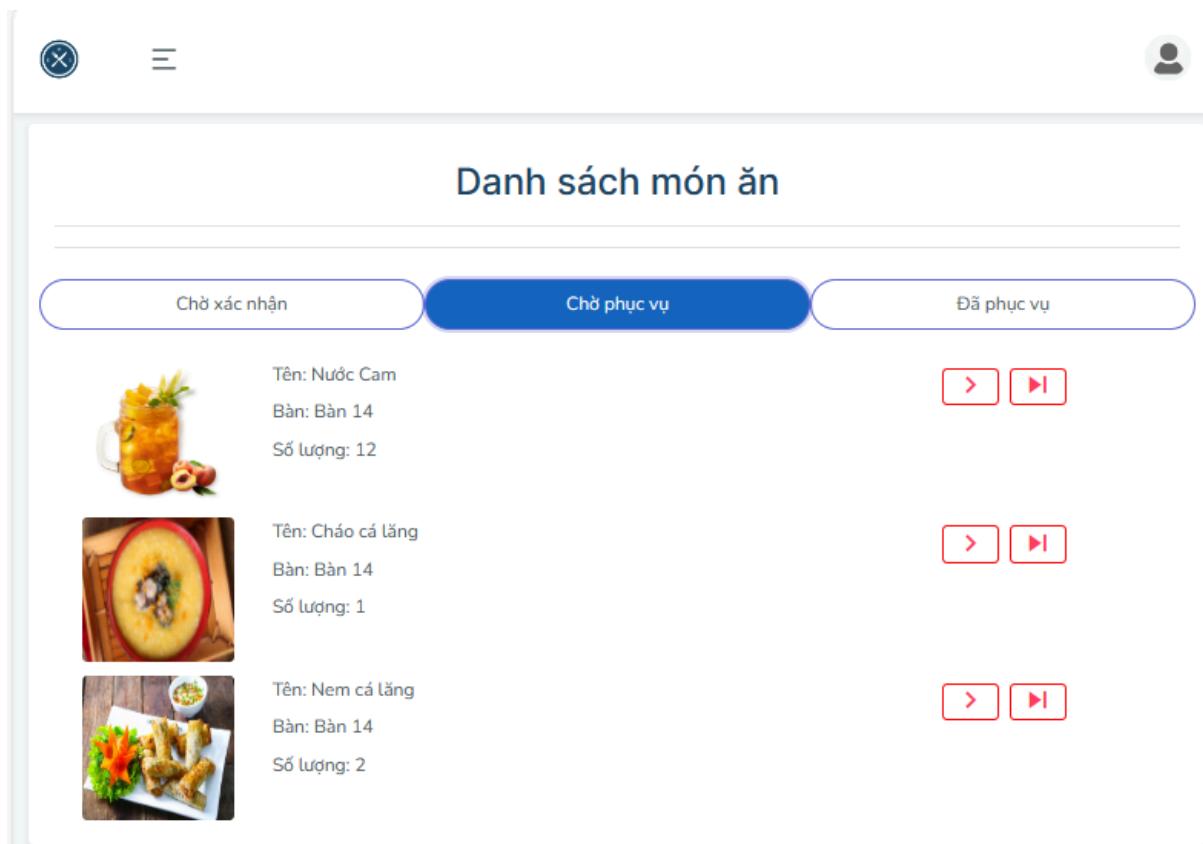


Figure 72- View waiting delivery dish list

Field Name	Field Type	Description
Data dish: name, table of order, unit	text	To display information of dish.
Next 1	button	To update 1 unit of dish status from done to served.
Next all	button	To update all unit of dish status from done to served.

Table 85- View waiting delivery dish list description

2.43 View served dish list -Waiter

2.43.1 UC Specifications

ID and Name:	UC 44 - View served dish list		
Created By:	LuanCV	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None

Description:	This use case describes the process by which a waiter view list dish that are be done and were served to customer.
Trigger:	Waiter click “Đã phục vụ” button in view delivery dish page.
Preconditions:	<p>PRE- 1.The customer's initial order is already placed and exists in the system.</p> <p>PRE- 2.The order must be confirmed.</p> <p>PRE- 3.The dish must be done.</p>
Postconditions:	POST-1. The waiters can see all dishes that were served to customers.
Normal Flow:	<ol style="list-style-type: none"> 1. The waiters want to see dishes that were served to customer. 2. Waiters click "Đã phục vụ" button on view delivery dish page. 3. The system display served dish list to waiters.
Alternative Flows:	N/A
Exceptions:	<p>1. ServedDishListLoadException: When there is an error loading the served dishes list, possibly due to a problem with the server, database, or network.</p>
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.43.2 UI Specifications



Figure 73- View served dish list

Field Name	Field Type	Description
Data dish: name, table of order, unit	text	To display information of dish.
Back 1	button	To update 1 unit of dish status from served to done .
Back all	button	To update all unit of dish status from served to done .

Table 86- View served dish list description

2.44 Edit cart -Waiter

2.44.1 UC Specifications

ID and Name:	UC 45 - Edit cart		
Created By:	LuanCV	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	This use case describes the process by which a waiter edits a customer's order in a cart system		
Trigger:	Waiter receives a request from a customer to update their order in the cart.		

Preconditions:	PRE- 1. The customer's initial order is already placed and exists in the system.
Postconditions:	POST-1. The customer's order has been updated to reflect their new choices. POST-2. The updated order details are displayed for confirmation. POST-3. The new total price is recalculated and presented.
Normal Flow:	<ol style="list-style-type: none"> 1. The waiter selects the order that needs to be updated. 2. The system displays the current items in the order. 3. The waiter modifies the quantity of an item or removes an item as per the customer's request. 4. The system updates the order details and recalculates the total price. 5. The system displays the updated order for confirmation.
Alternative Flows:	N/A
Exceptions:	1.If the system cannot update the order due to a technical issue.
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.44.2 UI Specifications

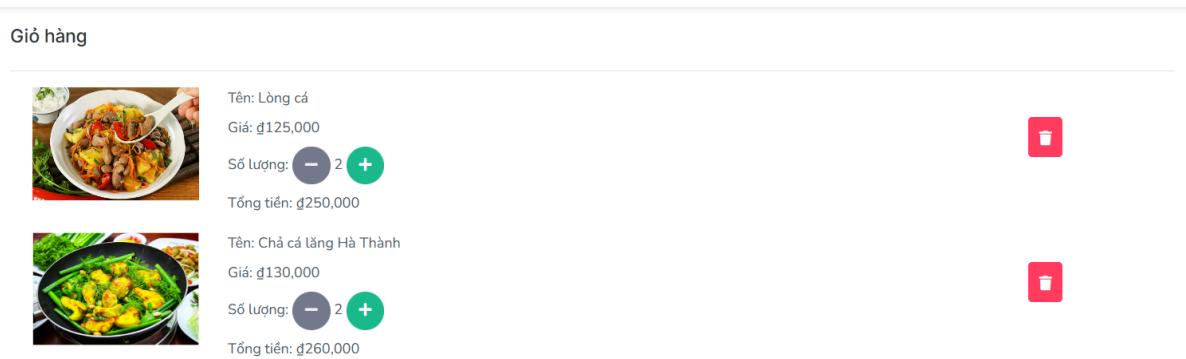


Figure 74- Edit cart

Field Name	Field Type	Description
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	Button	To waiter edit add one unit dish
	Button	To waiter edit minus one unit dish
	Button	To waiter edit delete dish

Table 87- Edit cart

2.45 Update status dishes -Waiter

2.45.1 UC Specifications

ID and Name:	UC 46 - Update status dishes		
Created By:	Namlh	Date Created:	9/03/2024
Primary Actor:	Waiter	Secondary Actors:	None
Description:	This use case describes the process by which a waiter update status of dish from done to served.		
Trigger:	Waiter click “Next” button.		
Preconditions:	PRE- 1. The customer's initial order is already placed and exists in the system. PRE- 2. The order must be confirmed. PRE- 3. The dish must be done.		
Postconditions:	POST-1. The customer's dish has been updated from done to served.		
Normal Flow:	1. The waiter selects dish from waiting delivery dish list. 2. Waiters view waiting delivery dish list. 3. The system display waiting delivery dish list. 4. Waiter click “next 1” button. 5. The system update 1 unit of dish status from done to served. 6. Waiter click “next all” button. 7. The system update all of dish status from done to served.		
Alternative Flows:	N/A		
Exceptions:	1. Disk Status UpdateException: When there is an error during the disk status update, possibly due to a problem with the database, server, or network.		
Priority:	High		

Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.45.2 UI Specifications

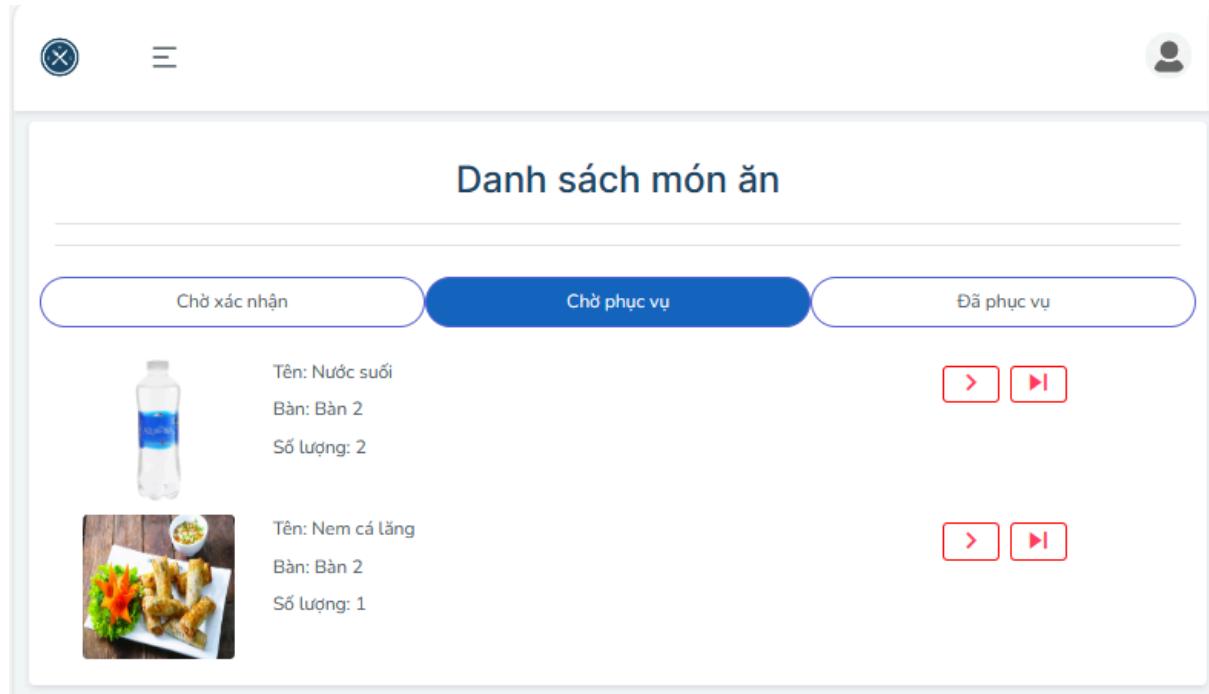


Figure 75- Update status dishes

Field Name	Field Type	Description
Next 1	button	To update 1 unit of dish status from done to served.
Next all	button	To update all unit of dish status from done to served.

Table 88- Update status dishes Description

2.48 Create Account

2.48.1: UC Specifications

ID and Name:	UC 50 - Create account
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Created By:	Dunght	Date Created:	15/03/2024
Primary Actor:	Manager	Secondary Actors:	None
Description:	The function allows the Managers to create a new account for the staff.		
Trigger:	When Managers click “Thêm mới nhân viên” button in manage account page.		
Preconditions:	PRE- 1. The Eatery owner login to the EMS Website. PRE- 2. The Eatery owner enters the management account page. PRE- 3 The Eatery owner click “Thêm mới nhân viên” button.		
Postconditions:	POST-1. The system will successfully create a new account for Eatery owners.		
Normal Flow:	1. Managers want to create new accounts for their staff. 2. System display pop up create account. 3. Managers input fullname. 4. Managers input username. 5. Managers input email. 6. Managers input phone number. 7. Managers select roles. 8. Managers click the “Lưu” button. 9. System validate manager input. 10. System will display the created account successfully. 11. Manager clicks the “Đóng” button. 12. System will close and create an account pop up.		
Alternative Flows:	N/A		
Exceptions:	1. InputValidationException: When input does not meet formatting requirements or business rules, such as a password that is too short or an invalid email. 2. AccountCreationException: When there is an error while creating a new account, possibly due to an issue with the database or source code related to the account creation process.		
Priority:	High		
Frequency of Use:	Low		
Business Rules:	BR-02, BR-10		
Other Information:	N/A		
Assumptions:	N/A		

2.48.2: UI Specifications

Field Name	Field Type	Description
Họ tên	Textbox	To input names.

Tài khoản	Textbox	To input username.
Email	Textbox	To input email.
Số điện thoại	Textbox	To input a phone number.
Phân quyền	Select options	To select a role.
Lưu	Button	To accept creating an account.
Đóng	Button	To close, create an account.

Table 89- Create account Description

The screenshot shows a modal dialog titled "Thêm mới" (Add new). It contains five input fields with red asterisks indicating required fields: "Họ tên*", "Tài khoản*", "Số điện thoại*", "Email*", and "Phân quyền*". Below the fields are two buttons: a grey "Đóng" (Close) button and a green "Lưu" (Save) button.

Figure 78- Create account

2.49 View Account

2.49.1: UC Specifications

ID and Name:	UC 49 - View account		
Created By:	Dunghit	Date Created:	15/03/2024
Primary Actor:	Manager	Secondary Actors:	None
Description:	The function allows the Managers to view the management account page and manage accounts.		
Trigger:	When Managers enter the management account page.		
Preconditions:	PRE- 1. The Managers login to the EMS Website. PRE- 2. The Managers enter the management account page.		

Postconditions:	POST-1. The system will display the management account page successfully for Managers.
Normal Flow:	1. Managers want to view all accounts to manage staff's accounts. 2. System will display a management account page.
Alternative Flows:	N/A
Exceptions:	1. AccountManagementUpLoadException: When there is an error loading the account management page, possibly due to a problem with the server, database, or network. 2. Data Mismatch Exception: When account data is different or incomplete, leading to display errors.
Priority:	High
Frequency of Use:	N/A
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.49.2: UI Specifications

Người Dùng							
+ Thêm Mới <div style="float: right;"> <input placeholder="Nhập tên" style="width: 150px; margin-right: 10px;" type="text"/> Tìm kiếm </div>							
STT	Tên người dùng	Tên tài khoản	Email	SDT	Vị trí	Quản lý	
1	Lê Hà Nam	adminNam	clonedz11@gmail.com	0987654321	admin	edit delete	
2	Lê Hà Nam	managerNam	clonedz11@gmail.com	0975402493	manager	edit delete	
3	dung tuan chu	dungadmin	dungct@gmail.com	0928602001	admin	edit delete	
4	cashier NamLH	cashierNam	clonedz3B@gmail.com	0975402493	cashier	edit delete	
5	chef NamLH	chefNam	clonedz11@gmail.com	0975402493	chef	edit delete	
6	walter Nam	walterNam	namthuhe.153319@fpt.vn	0975402493	walter	edit delete	
7	Chu Tuân Dũng	dungcashier	dung@gmail.com	0928602001	cashier	edit delete	
8	Chu Tuân Dũng	dungchef	dung@gmail.com	0928602001	chef	edit delete	
9	Chu Tuân Dũng	dungwaiter	dung@gmail.com	0928602001	waiter	edit delete	
10	Chu Tuân Dũng	cashier_987	cashier_987@gmail.com	0933838383	cashier	edit delete	

Hiện 1 đến 10 trong 16 mục

« 1 2 » Hiện 10 mục

Figure 79- View account

Field Name	Field Type	Description
Thêm mới	button	To open the create new account pop up.
Tìm kiếm	button, textbox	To search accounts.

Data table: Tên người dùng, Tên tài khoản, Email, SĐT, Vị trí.	text	To display account information such as name, username, email, phone, role
Chi tiết	icon	To open a detailed account pop up.
Chỉnh sửa	icon	To open an update account pop up.
Xóa	icon	To delete an account.

Table 90- View account Description

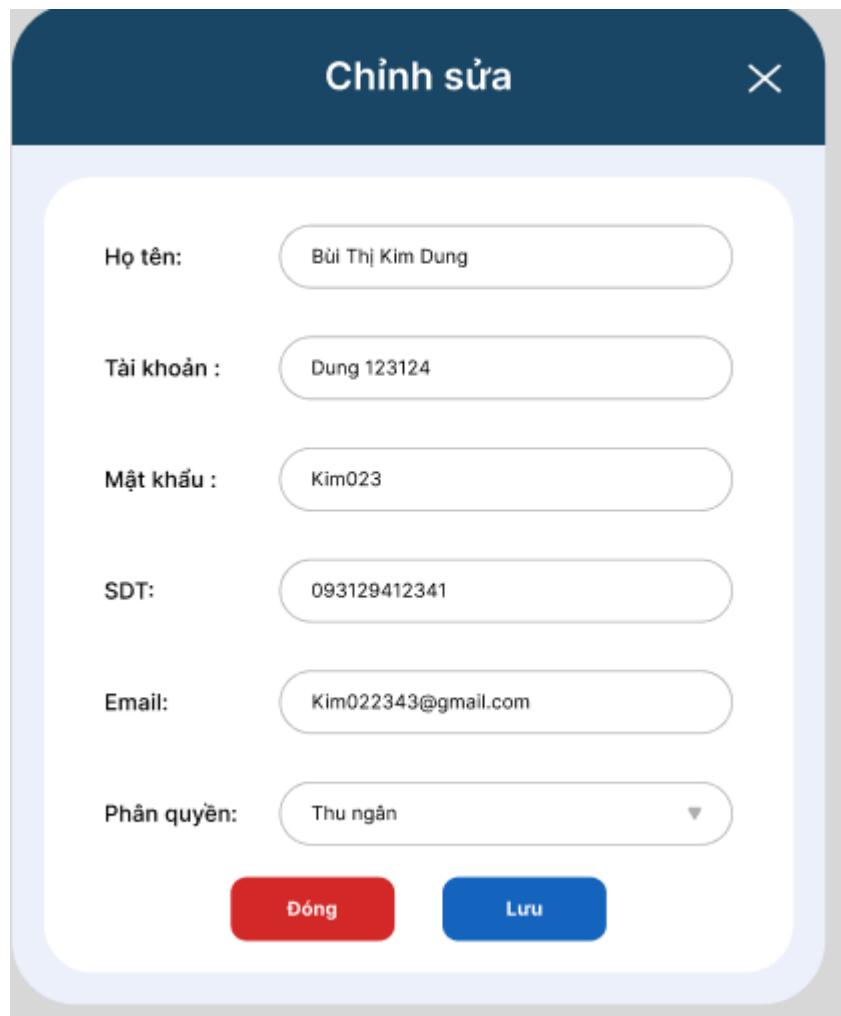
2.50 Update Account

2.50.1: UC Specifications

ID and Name:	UC 50- Update account		
Created By:	Dungct	Date Created:	15/03/2024
Primary Actor:	Manager	Secondary Actors:	None
Description:	The function allows the Managers to update accounts.		
Trigger:	When Managers click the “Cập nhật” button in the management account page.		
Preconditions:	PRE- 1. The Managers login to the EMS Website. PRE- 2. The Managers enter the management account page.		
Postconditions:	POST-1. The system will display the update account successfully for Managers.		
Normal Flow:	1. Managers want to update an account. 2. Manager click “Chỉnh sửa” button. 3. System display pop up update account. 4. Managers update fullname. 5. Managers update username. 6. Managers update password. 7. Managers update email. 8. Managers update phone number. 9. Managers select role. 10. Managers click “Lưu” button. 11. System validate manager input. 12. System will display update account successfully. 13. Manager click “Đóng” button. 14. System will close update account pop up.		
Alternative Flows:	N/A		

Exceptions:	<p>1. AccountUpdateException: When there is an error updating account information, possibly due to a problem with the database or a technical error.</p> <p>2. InputValidationException: When input information does not meet formatting requirements or business rules, such as a password that is too short, an invalid email, or a malformed phone number.</p>
Priority:	High
Frequency of Use:	Low
Business Rules:	BR-02, BR-10
Other Information:	N/A
Assumptions:	N/A

2.50.2: UI Specifications



The image displays a mobile-style UI for account editing. The title bar says "Chỉnh sửa". The form contains the following fields:

- Họ tên: Bùi Thị Kim Dung
- Tài khoản: Dung 123124
- Mật khẩu: Kim023
- SDT: 093129412341
- Email: Kim022343@gmail.com
- Phân quyền: Thu ngân (with a dropdown arrow icon)

At the bottom are two buttons: a red "Đóng" button and a blue "Lưu" button.

Figure 80- Update account

Field Name	Field Type	Description
Họ tên	Textbox	To input names.
Tài khoản	Textbox	To input username.
Mật khẩu	Textbox	To input a password.
Email	Textbox	To input email.
SDT	Textbox	To input a phone number.
Vị trí	Select options	To select a role.
Lưu	Button	To accept creating an account.
Đóng	Button	To close pop up create an account.

Table 91- Update account Description

2.51 Delete Account

2.51.1: UC Specifications

ID and Name:	UC 51- Delete account		
Created By:	LuanCV	Date Created:	15/03/2024
Primary Actor:	Manager	Secondary Actors:	None
Description:	The function allows the Managers to disable accounts.		
Trigger:	When Managers click the “Xóa” button in the management account page.		
Preconditions:	PRE- 1. The Managers login to the EMS Website. PRE- 2. The Managers enter the management account page.		
Postconditions:	POST-1. The system will delete accounts successfully for Managers .		
Normal Flow:	1. Managers want to delete an account. 2. Manager click “Xóa” button. 3. System display pop up delete account. 4. Click “Đồng ý” button. 5. The system delete account. 6. Click “Hủy bỏ” button. 7. System close delete account pop up.		
Alternative Flows:	N/A		

Exceptions:	<p>1. Account Deletion Exception: When there is an error during the account deletion process, possibly due to a problem with the database, data binding, or other technical error.</p> <p>2. PreDeletionValidationException: When there is a problem with data or constraints related to the account to be deleted, such as accounts related to other records.</p>
Priority:	High
Frequency of Use:	N/A
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.51.2: UI Specifications



Figure 81- Delete account

Field Name	Field Type	Description
Đồng ý	button	To agree delete account
Hủy bỏ	button	To close the delete account pop up.

Table 92- Delete account Description

2.52 View detail Account

2.52.1: UI Specifications

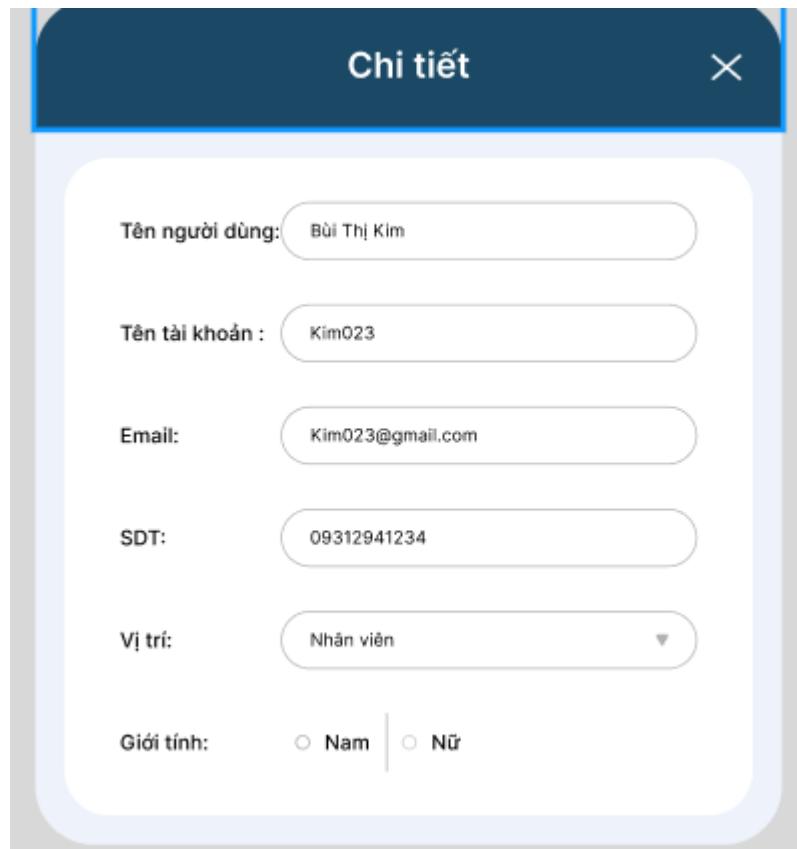


Figure 82- View detail account

Field Name	Field Type	Description
Tên người dùng	Text	To display name.
Tên tài khoản	Text	To display username.
Email	Text	To display email.
SDT	Text	To display phone number.
Vị trí	Text	To display role.
Giới tính	radio button	To display gender.

Table 93- View detail account Description

2.52.2: UC Specifications

ID and Name:	UC 52- View detail account		
Created By:	LuanCV	Date Created:	15/03/2024
Primary Actor:	Manager	Secondary Actors:	None

Description:	The function allows the Managers to view an account detail.
Trigger:	When Managers click the “Chi tiết” button in the management account page.
Preconditions:	PRE-1. The Managers login to the EMS Website. PRE-2. The Managers enter the management account page.
Postconditions:	POST-1. The system will display the details of an account successfully for Managers.
Normal Flow:	<ol style="list-style-type: none"> 1. Managers want to view detail an account. 4. Managers click “Chi tiết” button in list accounts. 5. System will display information about the account.
Alternative Flows:	N/A
Exceptions:	1. DataMismatchException: When account data is different or incomplete, leading to errors in displaying detailed information.
Priority:	High
Frequency of Use:	N/A
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.53 Search Account

2.53.1: UC Specifications

ID and Name:	UC 57 - Search account		
Created By:	LuanCV	Date Created:	12/03/2024
Primary Actor:	Manager	Secondary Actors:	None
Description:	The function allows the Managers to search accounts.		
Trigger:	When Managers input search value and click the “Tìm kiếm” button in the management account page.		
Preconditions:	PRE-1. The Managers login to the EMS Website. PRE-2. The Managers enter the management account page.		
Postconditions:	POST-1. The system will display accounts following search successfully for Managers.		

Normal Flow:	<ol style="list-style-type: none"> 1. Managers want to search an account. 2. Managers input search value. 3. Managers click the search button. 4. System display accounts following the search value.
Alternative Flows:	N/A
Exceptions:	<p>1. AccountNotFoundException: When no accounts match the entered search value.</p> <p>2. SearchInputException: When there is an error while entering a search value, such as an empty or invalid search value.</p>
Priority:	High
Frequency of Use:	N/A
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.53.2: UI Specifications

Figure 83- Search account

Field Name	Field Type	Description
Search input	Textbox	To input search value.
Tìm kiếm	button	To submit a search value.

Table 94- Search account Description

2.54 Filter Account

2.54.1: UC Specifications

ID and Name:	UC 54 - Filter account
--------------	-------------------------------

Created By:	LuanCV	Date Created:	12/03/2024
Primary Actor:	Manager	Secondary Actors:	None
Description:	The function allows the Managers to search account.		
Trigger:	When Managers select a status of account of filter in the management account page.		
Preconditions:	PRE- 1. The Managers login to the EMS Website. PRE- 2. The Managers enter the management account page.		
Postconditions:	POST-1. The system will display accounts following filter successfully for Managers.		
Normal Flow:	1. Managers want to filter an account. 4. Managers choose a filter. 5. System will display accounts following the filter.		
Alternative Flows:	N/A		
Exceptions:	1. FilteredAccountNotFoundException: When no accounts match the selected filter.		
Priority:	High		
Frequency of Use:	N/A		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.54.2: UI Specifications

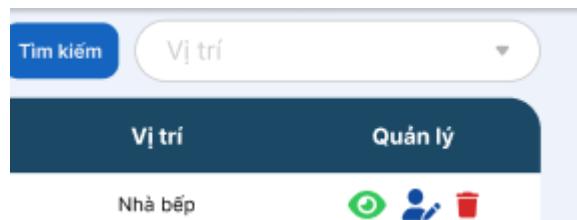


Figure 84- Filter account

Field Name	Field Type	Description
Filter	Select options	To select a role of account to filter.

Table 95- Filter account Description

2.55 View Revenue

2.55.1: UC Specifications

ID and Name:	UC 55 - Revenue		
Created By:	LongCH	Date Created:	01/03/2024
Primary Actor:	Eatery owner	Secondary Actors:	None
Description:	The function allows the eatery owner to view revenue.		
Trigger:	When an eatery owner or manager clicks the button “Doanh thu” in the “Thống kê” screen.		
Preconditions:	<p>PRE- 1. The eatery owner or manager has an account active and can login to the EMS Website.</p> <p>PRE- 2. The eatery owner or manager clicks the “Thống kê” button in the menu.</p>		
Postconditions:	POST-1. The system will display chart revenue.		
Normal Flow:	<ol style="list-style-type: none"> 1. Enter website url into location field of web browser and enter. 2. Login successful with role eatery owner or manager. 3. Click “Thống kê” button in the menu. 4. Click “Doanh thu” button in “Thống kê” screen. 5. The system will display chart revenue. 		
Alternative Flows:	N/A		
Exceptions:	N/A		
Priority:	High		
Frequency of Use:	N/A		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.55.2: UI Specifications

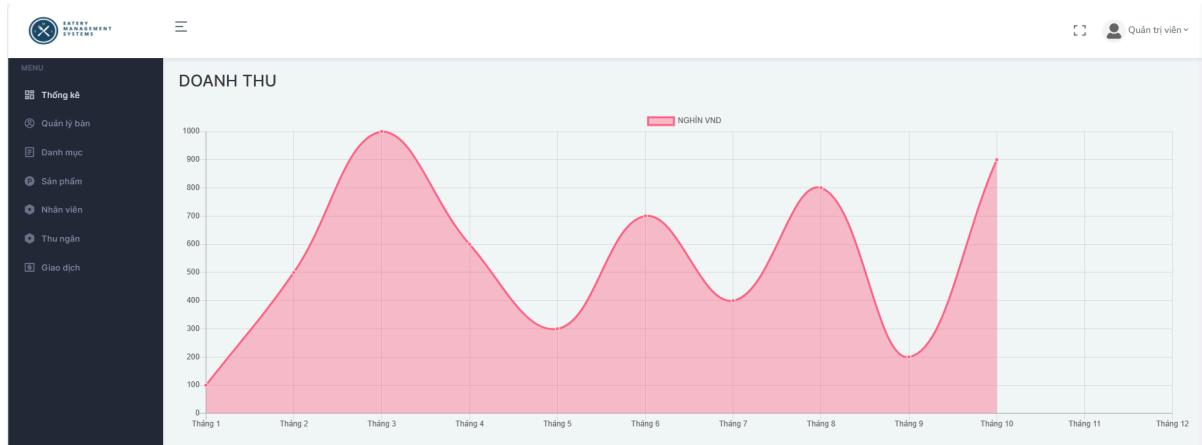


Figure 85: View Revenue

Field Name	Field Type	Description
Doanh thu	Button	This is for users to view revenue.
Tháng	Button	This is for user to view statistic by month
	Button	This is for users to adjust the time period to view statistics

2.56 View List Bill - Cashier

2.56.1: UC Specifications

ID and Name:	UC 56 - View Bill - Cashier		
Created By:	LongCH	Date Created:	15/03/2024
Primary Actor:	Cashier	Secondary Actors:	None
Description:	This use case allows a cashier to view a detailed list of customer bills, including their names, total items ordered, and total amount due. It is used to track and manage payment processes within the restaurant. Upon completion, the cashier will have accessed all relevant billing information for service completion.		
Trigger:	The use case begins when a cashier selects the "Thu ngân" (Cashier) option from the system menu to view and manage customer bills.		

Preconditions:	PRE- 1. The system has current and updated data regarding orders and billing.
Postconditions:	POST-1. The cashier's screen displays the list of bills with corresponding details.
Normal Flow:	<ol style="list-style-type: none"> 1. The cashier selects the "Thu ngân" option. 2. The system displays the list of current bills with details such as customer name, total items, total amount, table number, and management controls. 3. The cashier selects a particular bill to view more details or to proceed with payment processing. 4. The system provides options for payment processing, bill editing, or printing.
Alternative Flows:	N/A
Exceptions:	1. If the system cannot retrieve bill data, it displays an error message.
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.56.2: UI Specifications

STT	Tên khách	Tổng món	Tổng tiền	Tên bàn	Quản lý
1	Dũng	15	3425000	Bàn 14	
2		6	1080000	Bàn 1	

Hiện 1 đến 2 trong 2 mục

Figure 86: View list bill

Field Name	Field Type	Description
Khu vực	Select Option	This is for users to filter order by region.
Tên	Search	This is for users to search name

Data table: Stt, Tên khách,tổng món, tổng tiền, tên bàn, quản lý	text	This is for users to check the bill information.
------------------------------------------------------------------	------	--------------------------------------------------

2.57 View Bill Detail-Cashier

2.57.1: UC Specifications

ID and Name:	UC 57 - View Bill Detail-Cashier		
Created By:	LongCH	Date Created:	15/03/2024
Primary Actor:	Cashier	Secondary Actors:	None
Description:	The function allows the cashier to view order detail by table		
Trigger:	The use case is initiated when a cashier selects a specific bill to view its detailed information after navigating from the main billing overview ("Thu ngân").		
Preconditions:	PRE- 1. The cashier clicks "Thu ngân" on the menu. PRE- 2. The bill selected must exist in the system with pre-recorded items and prices		
Postconditions:	POST-1. The system displays the complete itemised bill with the total amount for the cashier's review.		
Normal Flow:	1. Cashier selects a bill from the summary list. 2. System displays the detailed bill including product names, unit prices, quantities, and total price. 3. Cashier reviews the detailed bill for accuracy. 4. Cashiers may add a note, apply a discount code, or adjust delivery fees if necessary. 5. System recalculates the total amount due after any adjustments. 6. Cashier finalises the bill, processes payment, and/or prints the bill for the customer.		
Alternative Flows:	N/A		
Exceptions:	1.If the system cannot load the detailed bill, it displays an error and allows the cashier to retry.		
Priority:	High		
Frequency of Use:	High		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.57.2: UI Specifications

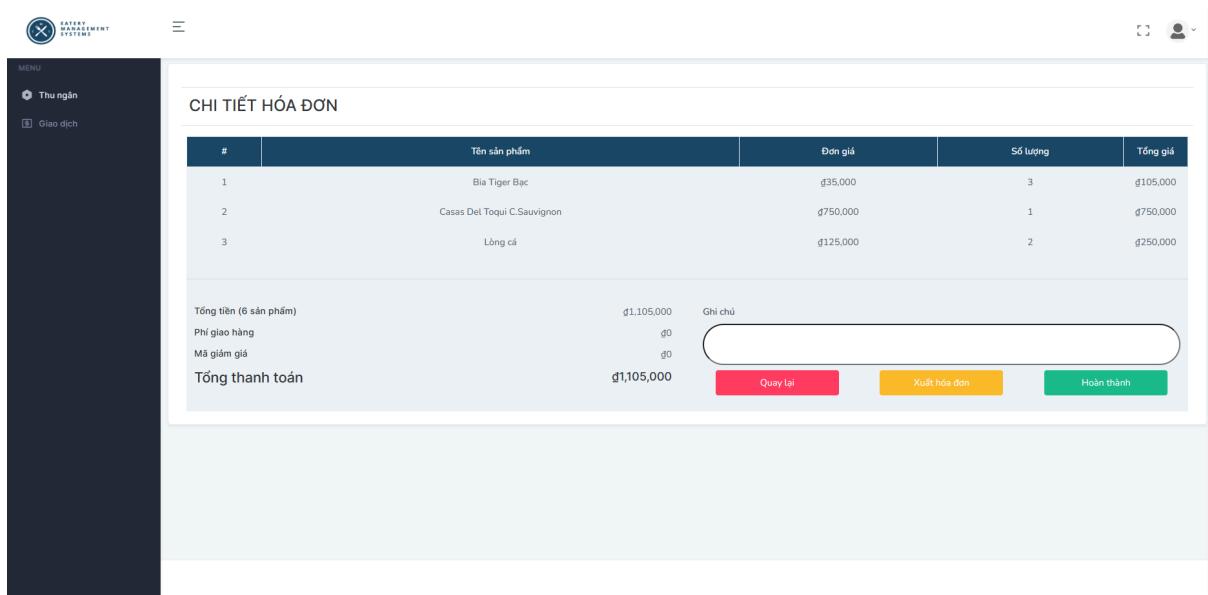


Figure 87: View bill

Field Name	Field Type	Description
Data table: Stt, tên sản phẩm, đơn giá, số lượng, tổng giá, tổng thanh toán	Text	To display detailed information of a bill.
Quay lại	Button	Back to the page view bill of cashier
Xuất hóa đơn	Button	Print detail bill include “Tên sản phẩm,Đơn giá,Số lượng,Tổng giá”
Hoàn thành	Button	Complete the payment process

Table 97- View bill Description

2.58 Filter and search Bill-Cashier

2.58.1: UC Specifications

ID and Name:	UC 58 - Filter Bill		
Created By:	LongCH	Date Created:	01/03/2024
Primary Actor:	Cashier	Secondary Actors:	None

Description:	The "Filter Bill" function allows the cashier to sort through various bills using different criteria such as date, customer name, or table number. This makes managing and reviewing past and current transactions more efficient.
Trigger:	This use case is initiated when a cashier needs to view and manage bills from different dates or based on specific customer names or table numbers.
Preconditions:	PRE- 1. The cashier clicks “Thu ngân” in the menu. PRE- 2. The billing system contains pre-existing data that can be filtered
Postconditions:	POST-1. The system displays a filtered list of bills according to the specified criteria.
Normal Flow:	1.0 The cashier enters criteria into the filtering fields (date, customer name, etc.). 2.0 The system retrieves and displays a list of bills matching the input criteria. 3.0 The cashier selects a bill from the filtered list to take further actions if needed.
Alternative Flows:	N/A
Exceptions:	1.If the cashier enters wrong and invalid input the system can not retrieve data. 2.If no records match the filter criteria, the system informs the cashier of the lack of matching results.
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.58.2: UI Specifications

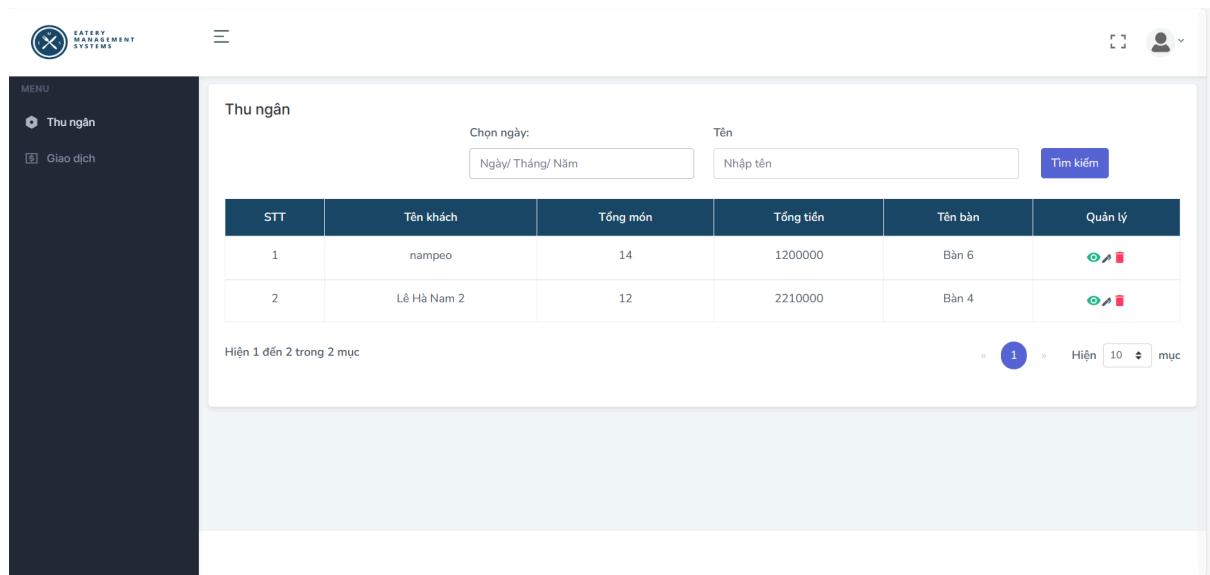


Figure 88: Filter and search bill

Field Name	Field Type	Description
Chọn ngày	Textbox	This is for users to filter order by time
Tìm kiếm	Button	User click button filter bill by time

Table 98- Filter and search bill Description

2.59 Export Invoice

2.59.1: UC Specifications

ID and Name:	UC 65 - Export Invoice		
Created By:	Dunght	Date Created:	15/03/2024
Primary Actor:	Cashier	Secondary Actors:	None
Description:	The function allows the cashier to export the invoice.		
Trigger:	When the cashier clicks the “Thanh toán” in the order detail screen.		
Preconditions:	PRE-1. The cashier has an account active and can login to the EMS Website. PRE-2. The cashier clicks the “Thu ngân” button in the menu. PRE-3. The cashier clicks the table where they want to pay.		
Postconditions:	POST-1. The system will print an invoice for the customer.		

Normal Flow:	<ol style="list-style-type: none"> 1. Enter website url into location field of web browser and enter. 2. Login successful with role cashier. 3. Click “The ngân” button in the menu. 4. Click the table in the “Thu ngân” screen. 5. Click the “Thanh toán” button in the order detail screen. 6. Click “In” on the invoice screen. 7. The system will issue an invoice to the customer.
Alternative Flows:	N/A
Exceptions:	N/A
Priority:	High
Frequency of Use:	N/A
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.59.2: UI Specifications

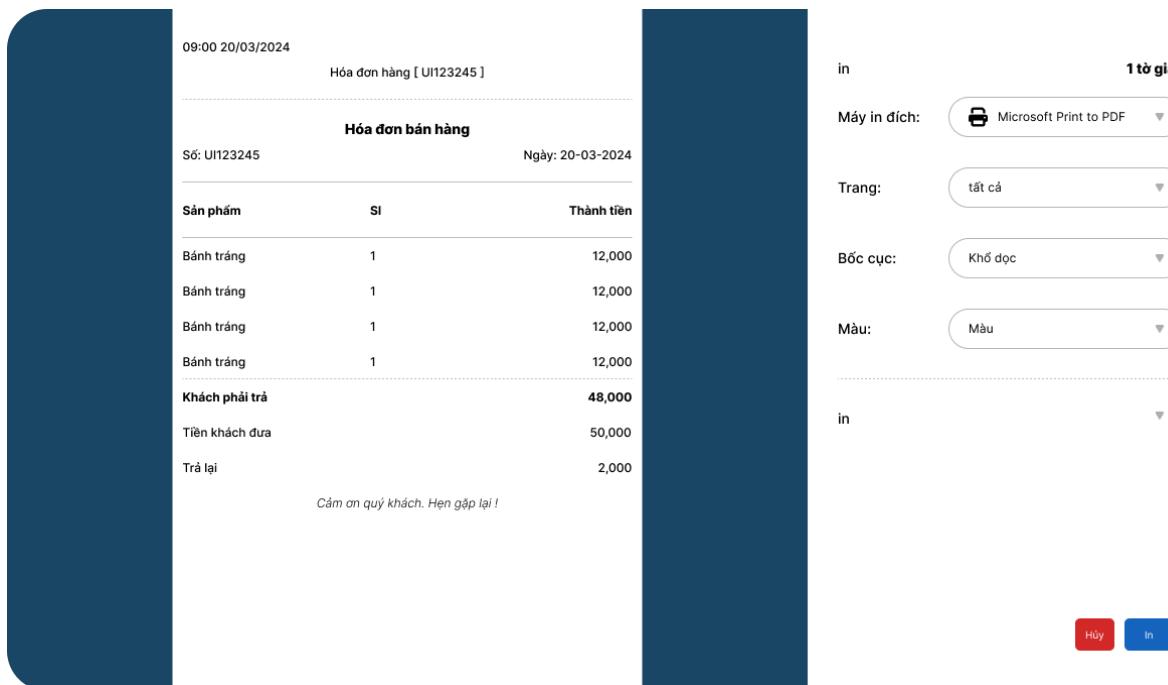


Figure 89: View Table

Field Name	Field Type	Description
Hủy	Button	This is for users to cancel printing of payment forms.

In	Button	This is for users to print payment forms.
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Table 99- View table Description

2.60 View profile

2.60.1. UC Specifications

ID and Name:	UC 60 - View profile		
Created By:	Namlh	Date Created:	15/03/2024
Primary Actor:	User	Secondary Actors:	None
Description:	The function allows the User to view profiles.		
Trigger:	When the user clicks the profile button at the top navbar page.		
Preconditions:	PRE- 1. The user login to the EMS Website.		
Postconditions:	POST-1. The system will display profile pages successfully to users.		
Normal Flow:	1. Users want to view their profile. 2. Users click the profile button in the top navbar. 3. The system will display the profile page successfully.		
Alternative Flows:	N/A		
Exceptions:	1. ProfilePageLoadException: When there is an error loading the profile page, possibly due to a problem with the server, database, or network. 2. ProfileDataAccessException: When there is an error retrieving the user's profile data, possibly due to a problem with the database or data access.		
Priority:	High		
Frequency of Use:	low		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.60.2. UI Specifications

Thông tin cá nhân

Tên	Họ	
<input type="text" value="Tên"/>	<input type="text" value="Họ"/>	
Địa chỉ		
<input type="text" value="Địa chỉ"/>		
Thành phố	Email	Số điện thoại
<input type="text" value="Thành phố"/>	<input type="text" value="Email"/>	<input type="text" value="Số điện thoại"/>
<input type="button" value="Thay đổi"/>	<input type="button" value="Đổi mật khẩu"/>	

Figure 90- View profile

Field Name	Field Type	Description
Tên	textbox	To input names.
Họ	button	To input a surname.
Địa chỉ	button	To input address.
Thành phố	text, picture	To input the city.
Email	textbox	To input email
Số điện thoại	textbox	To input phone number
Thay đổi	button	To change profile.
Đổi mật khẩu	button	To step to change the password page.

Table 100- View profile Description

2.61 Update profile

2.61.1. UC Specifications

ID and Name:	UC 61 - Update profile
--------------	------------------------

Created By:	Namlh	Date Created:	15/03/2024
Primary Actor:	User	Secondary Actors:	None
Description:	The function allows the user to update their profile.		
Trigger:	When the user clicks the profile button at the top navbar.		
Preconditions:	PRE- 1. The user login to the EMS Website. PRE- 2. The user view profile page.		
Postconditions:	POST-1. The system will update profiles successfully for users.		
Normal Flow:	1. Users want to update their profile. 2. The system will display profiles for users. 3. User input “Tên”. 4. User input “Họ”. 5. User input “Địa chỉ”. 6. User input “Thành phố”. 7. User input “Email”. 8. User input “Số điện thoại”. 9. User click “Thay đổi” button. 10. The system will validate input. 11. The system will update the profile successfully.		
Alternative Flows:	N/A		
Exceptions:	1. InputValidationException: When the input data is invalid, such as a malformed email or phone number. 2. ProfileUpdateException: When there is an error updating the user profile, possibly due to a problem with the server, database, or network.		
Priority:	High		
Frequency of Use:	low		
Business Rules:	N/A		
Other Information:	N/A		
Assumptions:	N/A		

2.61.2. UI Specifications

Thông tin cá nhân

Tên	Họ	
<input type="text" value="Tên"/>	<input type="text" value="Họ"/>	
Địa chỉ		
<input type="text" value="Địa chỉ"/>		
Thành phố	Email	Số điện thoại
<input type="text" value="Thành phố"/>	<input type="text" value="Email"/>	<input type="text" value="Số điện thoại"/>
<input type="button" value="Thay đổi"/>	<input type="button" value="Đổi mật khẩu"/>	

Figure 91- Update profile

Field Name	Field Type	Description
Tên	textbox	To input names.
Họ	button	To input a surname.
Địa chỉ	button	To input address.
Thành phố	text, picture	To input the city.
Email	textbox	To input email
Số điện thoại	textbox	To input phone number
Thay đổi	button	To change profile.

Table 101- Update profile Description

2.62 Change password

2.62.1. UC Specifications

ID and Name:	UC 62 - Change password
--------------	-------------------------

Created By:	Dunght	Date Created:	15/03/2024
Primary Actor:	User	Secondary Actors:	None
Description:	The function allows the user to change password.		
Trigger:	When the user clicks the “Đổi mật khẩu” button in profile page.		
Preconditions:	PRE- 1. The user login to the EMS Website. PRE- 2. The user view profile. PRE- 3. The user clicks the “Đổi mật khẩu” button in the menu.		
Postconditions:	POST-1. The system will change password successfully for user.		
Normal Flow:	1. The user want to change password. 2. System will display pop up change password. 3. User input old password. 4. User input new password and confirm password. 5. User click “Lưu” button. 6. System will validate input. 7. System will change password successfully. 8. User click “Đóng” button. 9. System close pop up change password.		
Alternative Flows:	N/A		
Exceptions:	1. OldPasswordValidationException: When the old password is incorrect. 2. New Password Validation Exception: When the new password does not meet the length or complexity requirements, or when the new password and password confirmation do not match.		
Priority:	High		
Frequency of Use:	low		
Business Rules:	BR-02, BR-06.		
Other Information:	N/A		
Assumptions:	N/A		

2.62.2. UI Specifications

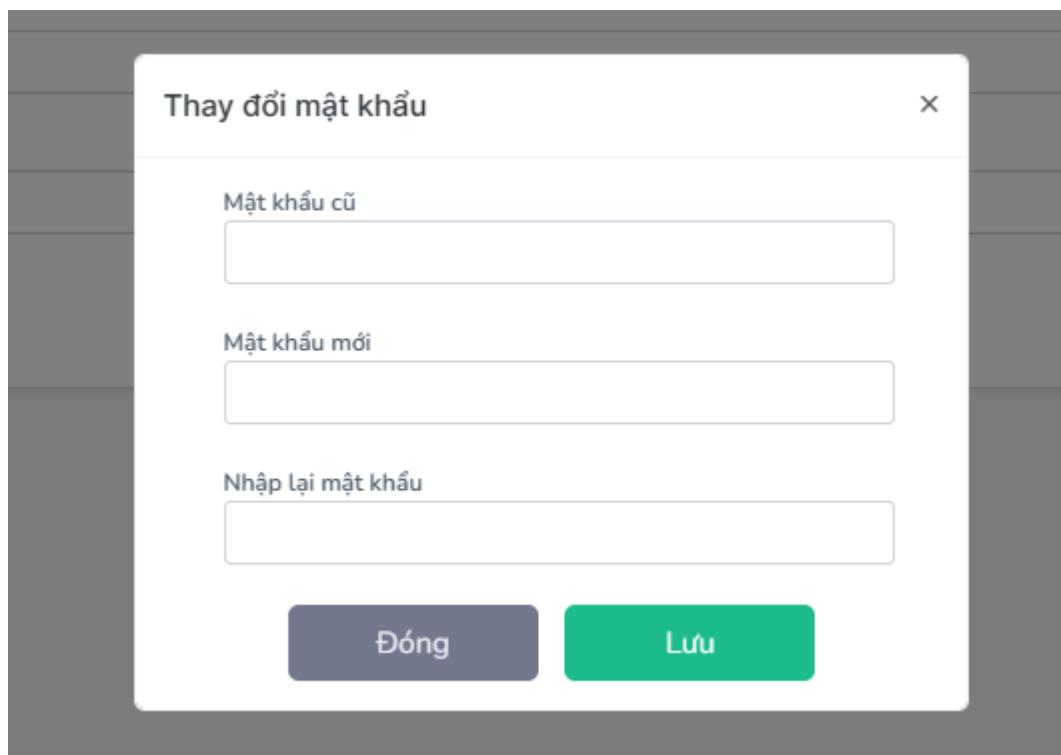


Figure 92- Change password

Field Name	Field Type	Description
Search	textbox	To search for dishes.
Filter	button	To filter the category of dishes.
Giỏ hàng	button	To step to the cart page.
Information	text, picture	To display information about dishes such as name, price, picture and category.

Table 102- Change password Description

2.63 View transaction

2.63.1.UC Specifications

ID and Name:	UC 63 - View transaction		
Created By:	LongCH	Date Created:	15/03/2024
Primary Actor:	Cashier, manager	Secondary Actors:	None
Description:	The function allows the cashiers and manager to view all invoice.		

Trigger:	When the cashier clicks the “Giao dịch” in navbar menu.
Preconditions:	PRE- 1. The cashier has an account active and can login to the EMS Website. PRE- 2. The cashier clicks the “Giao dịch” button in the menu.
Postconditions:	POST-1. The system will display transaction page for them.
Normal Flow:	1. Manager and cashier want to check out all the transactions. 2. The system will display a transaction page to the them.
Alternative Flows:	N/A
Exceptions:	1. TransactionNotFoundException: When no transaction data was found. 2. TransactionDisplayException: When there is an error during the display of transaction data, possibly due to technical issues or inaccurate data.
Priority:	High
Frequency of Use:	High
Business Rules:	N/A
Other Information:	N/A
Assumptions:	N/A

2.63.2. UI Specifications

Giao dịch						
STT	Tên khách	Tổng món	Tổng tiền	Tên bàn	Quản lý	
1	nampu	8	310000	Bàn 2		
2	NamL.H	4	320000	Bàn 5		
3	nampeo	14	1200000	Bàn 6		
4	Lê Hà Nam 2	12	2210000	Bàn 4		
5	Dũng	15	3425000	Bàn 14		
6		6	770000	Bàn 3		
7		6	1080000	Bàn 1		
8		0	0	Bàn 4		
9	Chu Tuấn Dũng-Test	0	0	Bàn 5		

Hiện 1 đến 9 trong 9 mục

← 1 → Hiện 10 mục

Figure 93- View transaction

Field Name	Field Type	Description
Search	textbox	To search for transactions.

Data table: Stt, tên khách, tổng món, tổng tiền, tên bàn, quản lý.	text	To display information of a transaction.
--------------------------------------------------------------------	------	------------------------------------------

Table 103- View transaction Description

3. Non-Functional Requirements

3.1 External Interfaces

- Compatibility: The interface must be compatible with a range of mobile devices and desktop computers, including smartphones, tablets, and personal computers. It should support popular operating systems such as iOS, Android, and Windows.
- Integration with QR Code Scanner: The interface must integrate with QR code scanning capabilities on mobile devices and desktop computers. It should ensure that the system can quickly and accurately read and decode QR codes.
- Communication with Banking Systems: The interface needs to communicate with banking systems or online payment gateways to process payments from customers.

3.2 Quality Attributes

3.2.1 Usability

- Efficient QR Code Scanning: The QR code scanning feature should be easy to access and use. Instructions on how to scan QR codes should be provided clearly, and the scanning process should be quick and reliable. Users should receive immediate feedback after scanning a QR code to confirm that the action was successful.
- Responsive Design: The website should be responsive and optimised for various devices and screen sizes. Whether users are accessing the website from a desktop computer, smartphone, or tablet, the interface should adapt seamlessly to provide an optimal viewing and interaction experience.
- Simple Ordering Process: The ordering process should be streamlined and straightforward. Users should be able to select items, customise their orders (if applicable), and add them to their cart with minimal effort. The steps involved in placing an order should be clearly outlined and easy to follow.

3.2.2 Performance

- Fast Loading Times: The website should load quickly across all devices and internet connection speeds. Optimising images, scripts, and other media assets can help reduce load times and improve the overall user experience.
- Reliability: Users should be able to rely on the website to be available and functional whenever they need to place an order or make a payment. Minimising downtime and addressing any technical issues promptly are essential for maintaining user trust and satisfaction.
- Optimised Performance on Mobile Devices: Given the increasing use of smartphones for online activities, including food ordering, the website must perform well on mobile devices. It should be optimised for mobile browsers, with fast load times and a user-friendly interface that is easy to navigate on smaller screens.

-Database Optimization: Optimising database queries and ensuring efficient data retrieval and storage can help improve the overall performance of the website, particularly during peak usage periods. This includes indexing frequently accessed data, minimising unnecessary database calls, and optimising database schema design.

3.2.3 Documentation and Training

-Providing comprehensive documentation and training resources for administrators, staff, and end-users ensures that everyone can effectively use and manage the website. This includes user manuals, tutorials, online help resources, and training programs to onboard new users and support ongoing operations.

4. Requirement Appendix

4.1 Business Rules

ID	Rule Definition
BR-01	Email field must be filled and properly formatted
BR-02	All the field is required
BR-03	The phone number field must be a valid phone number
BR-04	Start date and End date must be date data type
BR-05	Email must not exist in the system
BR-06	Password and confirm password field must be the same
BR-07	Email must existed in the system
BR-08	Image must be in correct format
BR-09	The product price cannot contain text characters.
BR-10	The name must have more than or equal to 6 characters