HO CHI MINH UNIVERSITY HO CHI MINH CITY HO CHI MINH UNIVERSITY OF TECHNOLOGY COMPUTER SCIENCE AND ENGINEERING



REPORT SOFTWARE ENGINEER

HCMUT Smart Food Court System

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TP. HCM, 07/2020

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Change log

| No | Date | Change | Actor |
|----|------------|--|---------------------|
| 1 | 10/07/2020 | Add Use case Diagram and 4.2 | Huynh Thi Uyen |
| 2 | 10/07/2020 | Add 4.1 and Introduction | Vo Hoang Hai Nam |
| 3 | 11/07/2020 | Add Architecture Design | Vo Hoang Hai Nam |
| 4 | 12/07/2020 | Add 4.4 | Tran Trong Nghia |
| 5 | 12/07/2020 | Add 4.3 | Dang Ngoc Tam |
| 6 | 12/07/2020 | Add Implementation View, UI Preview, Conclusion | Huynh Thi Uyen |

Work assignment

| Huynh Thi Uyen | Payment feature, Conclusion, UI Preview |
|-------------------|---|
| Vo Hoang Hai Nam | Introduction, Architecture, Order feature |
| Nguyen Hoang Nhat | Account Service feature |
| Dang Ngoc Tam | Manager feature |
| Tran Trong Nghia | Notify Order feature |

I. INTRODUCTION

This is a system for students / professors of Ho Chi Minh University of Technology to order food at BK Food Court. Customers can choose food at home and pick up, reduce the overload for Food court during rush hours and help Food court to prepare and serve better.

The dishes are clearly classified, reducing the time to wonder when choosing. There is also a display of new items that make it easier for customers to access than traditional ways.

E-payment completely, do not use cash helps owner to reduce the cost of managing the system of salespeople, money management staff, ... Data collected on database helps analyze customer behavior to increase revenue for the Food Court in future

II. FUNCTIONAL REQUIREMENTS

1. Main features

- Order: customers choose dishes and add to cart
- Payment: make an online payment
- Manage: vendor owners edit, add, remove, update dishes
- Notify Order: chef sends notification to customer when the order is completed
- Account Service: customers login to the system or have their accounts for more privileges

2. Use case Diagram

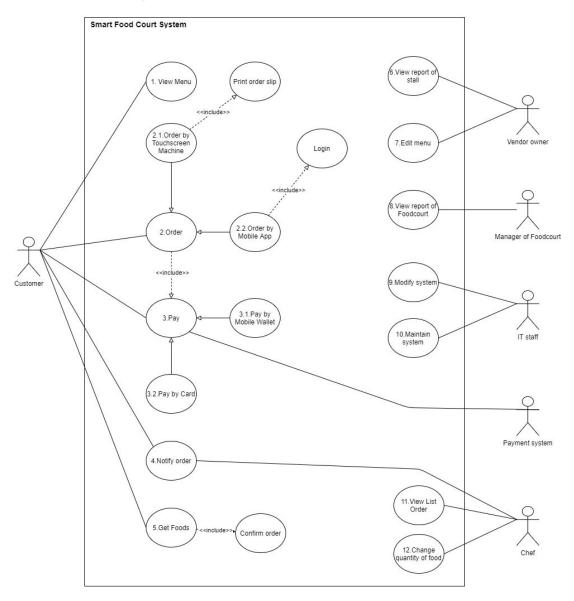


Figure I.1 Use case Diagram for Smart Food Court

3. Methods of implementation

• Platform: Website

• Front-end: HTML/CSS/JavaScript

• Back-end: C# ASP.NET base on Framework 4.8

• Database: NoSQL with Firebase

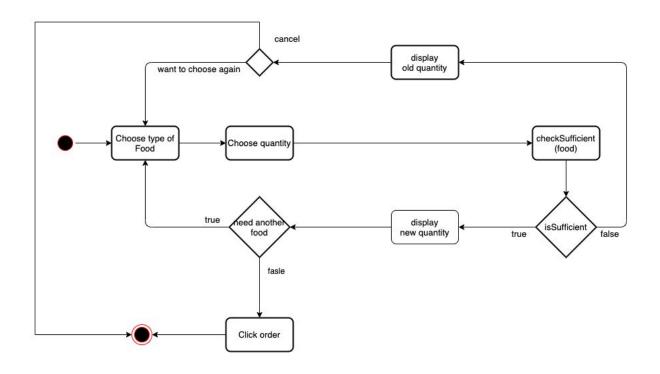
4. Feature Details

4.1 Order

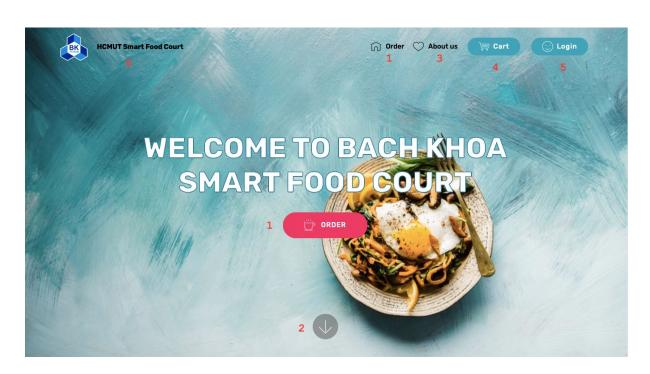
4.1.1 Use case Description

| Use Case ID: | 02 |
|--------------------------------|--|
| Use Case Name: | Order Foods |
| Created By: Hai Nam | Last Updated By: Hai Nam |
| Date Created: 20/4/2020 | Date Last Updated: 10/7/2020 |
| Actors: | Customer |
| Description: | Customer wants to order from foodcourt to get foods |
| Trigger: | Press order button on Touch screen machine or Mobile app |
| Preconditions: | 1. Touch screen machines are available or Mobile app is installed and is logged in |
| | 2. Customer is in View menu mode |
| Postconditions: | 1. Customer orders successfully |
| | 2. Orders are sent to suitable vendors |
| Normal flow: | 1. Customer chooses type and quantity of food in stock |
| | 2. Customer clicks the order button |
| | 3. Customer click to Cart button to view all items chosen |
| | 4. Customer click Purchase |
| Alternative flow: | Alternative 1 at step 3 |
| | 6a: Customer choose more products |
| | Alternative 2 at step 4 |
| | 4.a: Customer edit quantity of food they need |
| Exceptions flow: | Exception 1 at step 1 |
| | la. Customers choose the number of foods greater than the remaining number |
| | lal. The system will notify the number of remaining foods and return step 1 or customer cancels the order. |

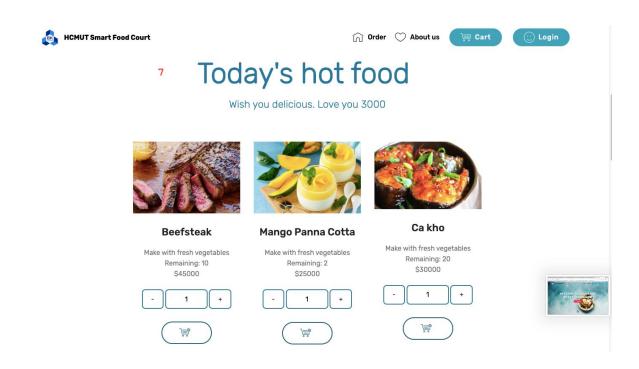
Main Flow



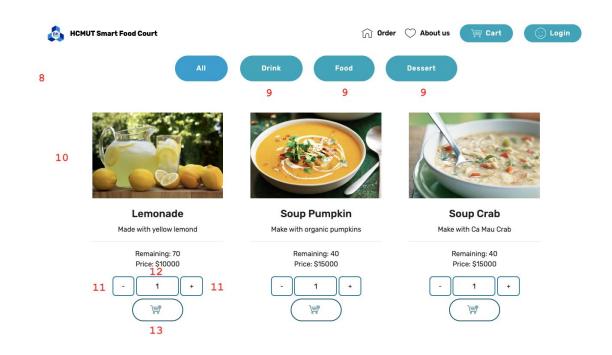
4.1.2 Mock-up



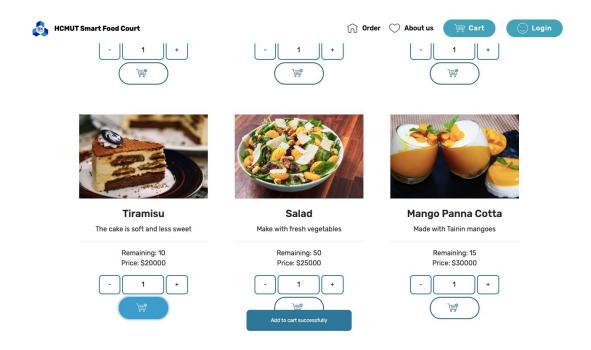
Homepage UI



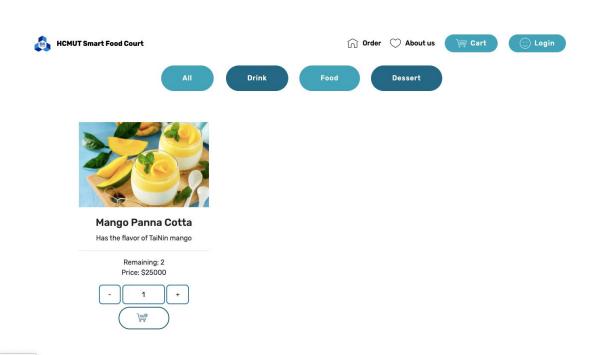
When click button Order or scrolling down, customer will see Today's hot food



When customers scroll down, they will see the Menu UI. Each food is in 1 box with pictures and information



If they click button with icon Cart, small snackbar will pop-up



When they click the button Drink/Food/Dessert/... Only food with this tag will display

4.1.3 Description

| No | Field Name | Description | Contro I Type | Data Type | Mandat ory | Defaul t Value |
|----|------------------------------|---|------------------|---------------|---------------|-------------------|
| 1 | Order | Redirect to "Today's hot food" section | Button | N/A | Yes | N/A |
| 2 | Down arrow | Redirect to "Today's hot food" section | Button | N/A | Yes | N/A |
| 3 | About us | Redirect to "About us" page | Button | N/A | Yes | N/A |
| 4 | Cart | Redirect to "Cart" page | Button | N/A | Yes | N/A |
| 5 | Login | Redirect to "Login" page | Button | N/A | Yes | N/A |
| 6 | Label | Redirect to Home page | Label | Text | Yes | N/A |
| 7 | Hot food section | Display food assigned with "hot" tag | Displa y | Image Text | Yes | N/A |
| 8 | Menu section | Display all food serviced by Food court | Displa y | Image Text | Yes | N/A |
| 9 | Classificat ion button | Select the label to filter food | Button | N/A | Yes | N/A |
| 10 | Food informati on | Display information of food (Image, description, remaining quantity, price) | Displa y | Image Text | Yes | N/A |
| 11 | Numeric button | Adjust the number of foods | Button | N/A | Yes | N/A |
| 12 | Quantity box | Display number of food chosen | Text input | Text | Yes | N/A |
| 13 | Add cart | Add food chosen to cart | Button | N/A | Yes | N/A |

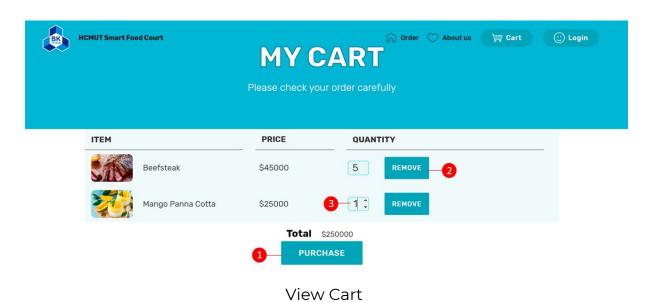
4.2 Online Payment

4.2.1 Use case Description

| Use Case ID | 3.1 | | | | | |
|----------------|---|----------------------------|------------|--|--|--|
| Use Case Name | Pay the order by mobile wallet | | | | | |
| Created By | Huynh Thi Uyen Last Updated By: Huynh Thi Uyen | | | | | |
| Date Created | 22/04/2020 | Date Last Updated: | 02/05/2020 | | | |
| Actor | Customer, payment ser | vice | | | | |
| Description | Customer makes a payr | ment for food orderir | ng. | | | |
| Trigger | Customer pays the orde | er. | | | | |
| Preconditions | Customer orders food.Customer has at least an online payment service account. | | | | | |
| Postconditions | The ordering is confirme | The ordering is confirmed. | | | | |
| Normal Flow | Customer presses the button "Pay" on the screen. The system displays bills with total cost on the screen. Customer verifies payment for the bill. Customer selects "Online payment" method. The system presents a payment code and a QR code on the screen. Customer logins into the "Pay the bill" feature on the Online payment service (Momo wallet, Zalo Pay, etc.) Customer enters the given payment code. The online payment service verifies code, presents the money need paid. Customer accepts the payment. The online payment service makes a transaction with the customer's account. The payment service notifies to the system and customer that payment is successful. | | | | | |

| | Exception 1 : at step 2 2a. If the bill is wrong, customer makes payment again or cancels. |
|----------------------|---|
| Exceptions | Exception 2: at step 8 8a. Customer enters incorrect code, the payment service requires the customer to enter again at most 3 times. At the 3 rd , cancels payment. 8b. The bill is wrong, customer tries to enter code or cancels |
| | Exception 3: at step 9 9a. Customer doesn't accept, cancels they payment. |
| | Exception 4: at step 11 |
| | 11a If the transaction fails and the online payment service doesn't send "successful payment" notification in 10 minutes, the system will cancel the bill. |
| Alternative Flows | Alternative 1: at step 7 7a. Customer scans QR code Continue step 8 |

4.2.2 Mock-up

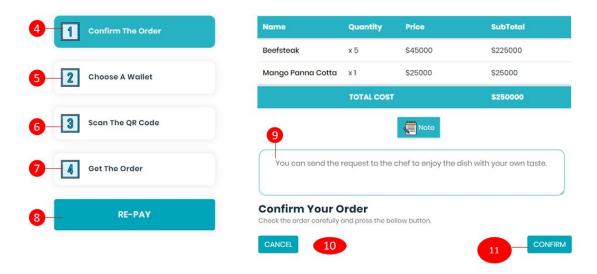


13

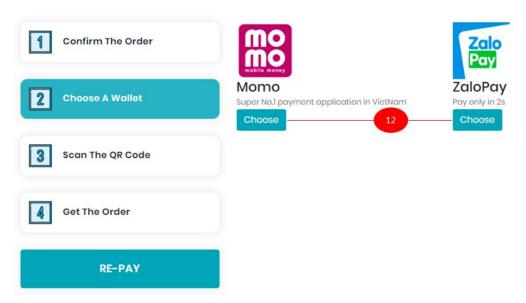
PURCHASE ORDER



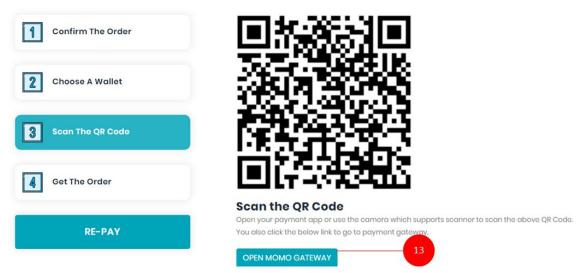
Are you hungry? Are you thirsty?
Let purchase your order with just a few simple mouse clicks.



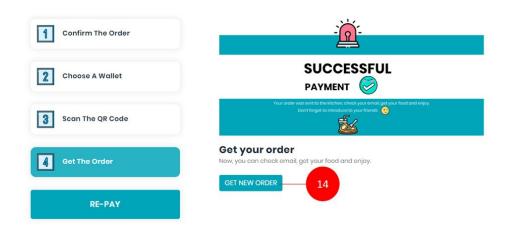
Purchase Page after clicking purchase button in cart view



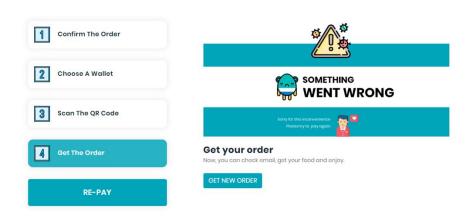
Choose Online Wallet



Display QR Code and link to payment gateway after choosing wallet



Successful Payment



Failed Payment

4.2.3 Description

| No | Field Name | Description | Control Type | Data Type | Manda tory | Default Value |
|----|---------------------------|--|-----------------|--------------|---------------|------------------|
| 1 | Purchase | Redirect to payment page | Button | N/A | Yes | N/A |
| 2 | Remove | Remove a dish from the order | Button | N/A | Yes | N/A |
| 3 | Quantity Change | Change quantity of a dish | Text Input | Number | Yes | N/A |
| 4 | Step 1 | Confirm the order | Button | N/A | Yes | N/A |
| 5 | Step 2 | Choose Online Wallet | Button | N/A | Yes | N/A |
| 6 | Step 3 | Display the QR Code with corresponding online wallet and button link to payment gateway | Button | N/A | Yes | N/A |
| 7 | Step 4 | Notify customer about payment result and get the order | Button | N/A | Yes | N/A |
| 8 | Pay again | Backward to step 1 for making a payment from the beginning | Button | N/A | Yes | N/A |
| 9 | Food Note | Enter the additional request for food | Text Input | Text | Yes | Empty String |
| 10 | Cancel | The order is wrong, redirect to cart view | Button | N/A | Yes | N/A |
| 11 | Confirm | The order is confirmed and forwarded to step 2 | Button | N/A | Yes | N/A |
| 12 | Choose | The online wallet is chosen, process for making a request to online wallet server | Button | N/A | Yes | N/A |
| 13 | Open Wallet Gateway | Link to payment gateway page | Button | N/A | Yes | N/A |
| 14 | Get new order | Redirect to order page to get the new one | Button | N/A | Yes | N/A |

4.3 Manage

4.3.1 Use case Description

| Name of use case | Edit menu | | | | |
|------------------|--|--|--|--|--|
| ID of use case | 07 | | | | |
| Created by | Ngoc Tam | | | | |
| Date created | 29/4/2020 | | | | |
| Actors | Vendor owner | | | | |
| Preconditions | Vendor owner is identified and authenticated | | | | |
| Postconditions | New menu is saved and displayed in touchscreen and application | | | | |
| Trigger | Vendor owner wants to edit menu | | | | |
| Main flows | 1. Vendor owner selects "Add menu" item on the screen | | | | |
| | 2. A table is displayed with some information about food/drink. | | | | |
| | 3. Vendor owner fills all information in the table. | | | | |
| | 4. Vendor owner selects "Ok" button. | | | | |
| | 5. System processes request, then a dialog is displayed on the screen to notify the action completing. | | | | |
| | | | | | |

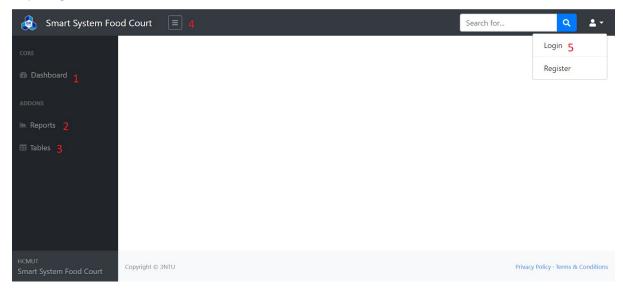
| Alternative flows | Vendor owner wants to remove food/drink Vendor owner selects "Remove button" in the item which he/she wants to remove The dialog is displayed, vendor owner selects "Yes" button. Step 5 in the main flow Vendor owner wants to update food/drink Vendor owner selects "Update button" in the item which he/she wants to remove Start from step 2 in main flow. | | | | |
|--------------------------------|--|--|--|--|--|
| Exceptions | *a. At any time, , vendor owner doesn't want to edit the menu, he/she can select "X" button at the top-right corner to cancel. 4a. Vendor owner doesn't complete information in the table. 1. System requests missing information. 2. Vendor owner supplies missing information. 6a. System fails to process requests. 3. A dialog with the message "Action failed" is displayed. 4. Vendor owner selects "Ok" button and goes back to step 1. | | | | |
| Non-functional Requirements | System responds to all actions of the vendor owner within 1s. The percentage of the system that fails is less than 2%. Vendor owners have to fill the table within 10 minutes. | | | | |

View report

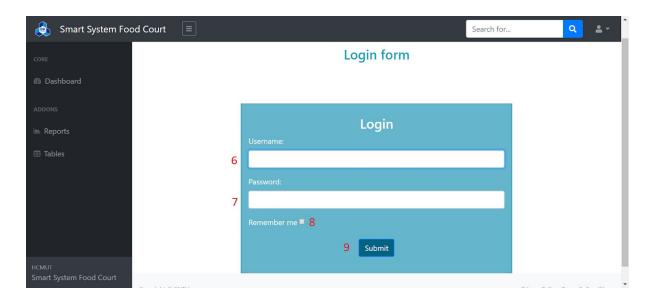
| Use Case ID: | 06 | | | |
|--------------------------------|--|--|--|--|
| Use Case Name: | View report of Food court | | | |
| Created By: Hai Nam | Last Updated By: Hai Nam | | | |
| Date Created: 22/4/2020 | Date Last Updated: 10/07/2020 | | | |
| Actors: | Manager of Food court | | | |
| Description: | Manager wants to view the online report of whole Food court | | | |
| Trigger: | Manager request to see the report | | | |
| Preconditions: | 1. Manager has had manager account yet | | | |
| Preconditions. | 2. Manager device connected Internet | | | |
| Postconditions: | 1. Manager views the online report successfully | | | |
| Postcorialtions. | 2. Manager can download report as needed | | | |
| | 1. Manager loggins to system | | | |
| | 2. Manager clicks "Get Report" button | | | |
| | 3. System presents two date boxes with choice of date begin and latest date to show report | | | |
| Normal flow: | 4. Manager types start date and latest date in two boxes | | | |
| | 5. Manager clicks Get report button | | | |
| | 6. The system displays the report of whole Food court | | | |
| | 7. Manager view the report online | | | |
| | Alternative 1 at step 4 | | | |
| Alternative flow: | 4a: Manager selects available options such as 1 nearest month and 2 nearest months. | | | |
| | Exception 1 at step 4 | | | |
| Exceptions flow: | 4b: Manage enter the wrong date format, pre-establishment time, or future time input | | | |
| | 4b1: Display message "Wrong day" and come back to step 3 | | | |

4.3.2 Mock-up

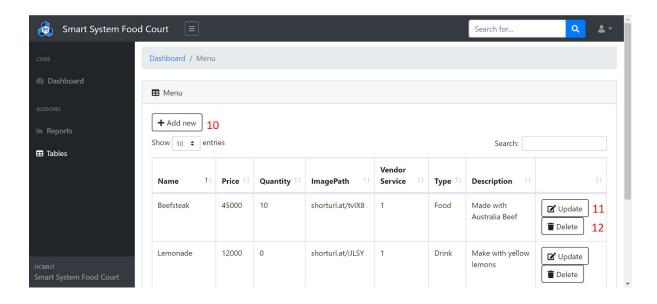
Main UI

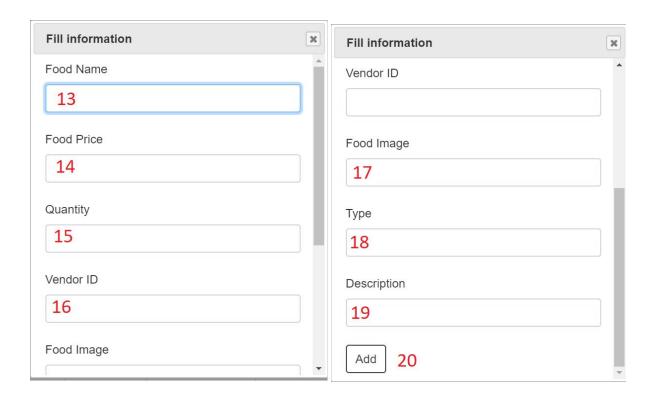


Login

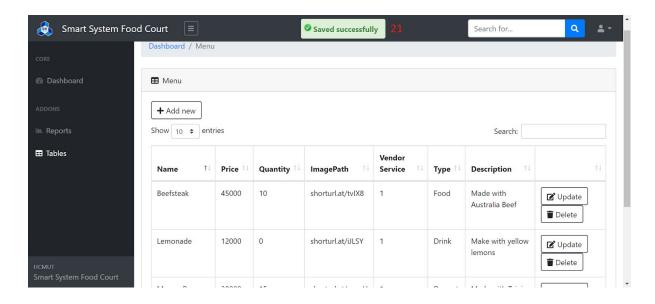


Operation

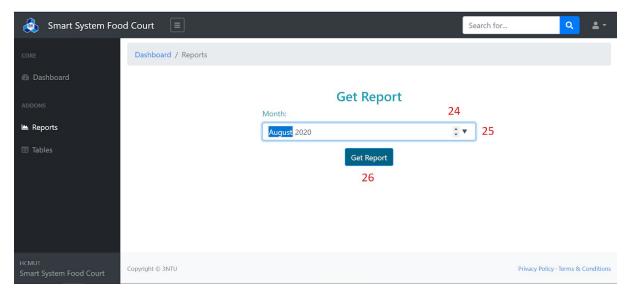




Message







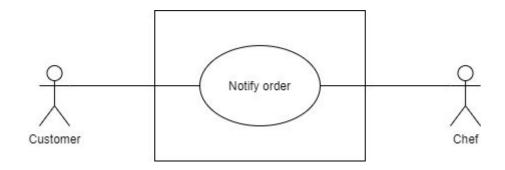
4.3.3 Description

| No | Field Name | Description | Control Type | Data Type | Mandatory | Default Value |
|----|-----------------|--|-----------------|--------------|-----------|------------------|
| 1 | Dashboard | Redirect to manager home page | Link | N/A | Yes | N/A |
| 2 | Reports | Redirect to report page | Link | N/A | Yes | N/A |
| 3 | Tables | Redirect to menu page | Link | N/A | Yes | N/A |
| 4 | Bars Icon | Open and close sidebar | Button | N/A | Yes | N/A |
| 5 | Login | Redirect to login page | Link | N/A | Yes | N/A |
| 6 | username | Type username | Text Input | N/A | Yes | Empty String |
| 7 | password | Type password | Text Input | N/A | Yes | Empty String |
| 8 | remember- me | Remember the account for next time | Check Box | N/A | Yes | False |
| 9 | submit | Submit login form to sever | Button | N/A | Yes | N/A |
| 10 | Add new | Open pop-up form and wait for user fill information to add new food | Button | N/A | Yes | N/A |
| 11 | Update | Open pop-up form and wait for user fill information to update food | Button | N/A | Yes | N/A |
| 12 | Delete | Delete food | Button | N/A | Yes | N/A |
| 13 | Food Name | Vendor owner type name of food | Text Input | N/A | Yes | N/A |
| 14 | Food Price | Vendor owner type price of food | Text Input | N/A | Yes | N/A |

| 15 | Quantity | Vendor owner type initial quantity of food | Text Input | N/A | Yes | Empty String |
|----|---------------|--|-----------------|------|-----|-----------------|
| 16 | Vendor ID | Vendor owner type vendor id which server this food | Text Input | N/A | Yes | N/A |
| 17 | Food Image | Vendor owner type image source of food | Text Input | N/A | Yes | N/A |
| 18 | Туре | Vendor owner fill type of food | Text input | Text | Yes | Empty String |
| 19 | Description | Vendor owner type detail description of food | Text input | Text | Yes | Empty String |
| 20 | Add | Submit form to server | Button | N/A | Yes | N/A |
| 21 | Message | Message is displayed after vendor owner complete a operation | Text Message | N/A | Yes | N/A |
| 22 | Ok | Confirm delete food | Button | N/A | Yes | N/A |
| 23 | Cancel | Vendor owner doesn't want to delete food | Button | N/A | Yes | N/A |
| 24 | Arrow | Increase or decrease month and year | Button | N/A | Yes | N/A |
| 25 | Arrow | Open calendar | Button | N/A | Yes | N/A |
| 26 | Get report | Get report of month is selected | Button | N/A | Yes | N/A |

4.4 Notify Order

4.4.1 Use case Description

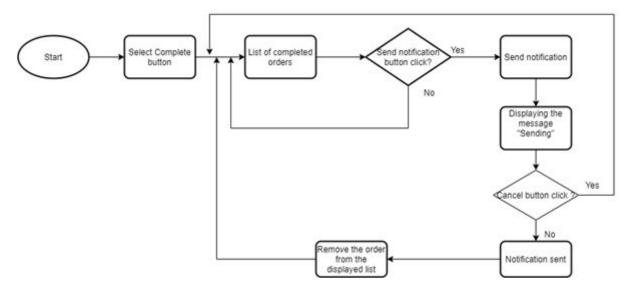


| Use Case ID: | 4 | | | |
|----------------------|---|---|--|--|
| Use Case Name: | Notify Order | | | |
| Actors | Chef, Customer | | | |
| Created By: | Tran Trong Nghia | Last Updated By: | Tran Trong Nghia | |
| Date Created: | 23 April 2020 | Date Latest Updated: | 01 May 2020 | |
| Description: | As a chef, I want to | send notice of orders to | o customers | |
| Trigger: | Chef wants to send | notice to the custome | r. | |
| Preconditions: | The food is ready The application connected to the the customer mager signal. The chef is viewing | on the customer phone network. If the custo ust not go out of rangengethe list of orders. | e must be mer uses a pager, e of receiving a | |
| Postconditions: | The chefs send notice of orders to customers successfully. The customer receives notification from chef. | | | |
| Normal Flow: | The chef selects orders to send notice The chef presses the button to send a notice of completion of the food preparation to the customer The system sends notification to the ordered account and the screen displays the message "Sending notice to customers". The customer receives a notification from the chef and the chef's screen displays the message "Notification sent." | | | |
| Alternative Flow: | Alternative 1: at ste | p 3 | | |

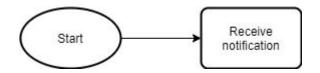
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| | 3a. If the order does not have the account name of the customer ordered, the system sends the order number to the pager machine.3a1. The pager machine sends a signal to the device whose code matches the order number that needs to be notified.The use case continues step 4 in the normal flow. |
|-------------|---|
| Exceptions: | Exception 1: at step 3 3b. On the message "Sending notice to the customer", the chef press the "Cancel" button, the use case stops. |

Chef main flow:



Customer main flow:



4.4.2 Mock-up



List of completed orders UI



Popup of sending notification

4.4.3 Description

| No. | Field Name | Description | Control Type | Data Type | Mandator y | Defaul t Value |
|-----|-----------------------|--|-----------------|--------------|---------------|----------------------|
| 1 | Complete button | Display the list of completed orders | Button | N/A | Yes | N/A |
| 2 | List Orders button | Display the list of orders to be processed | Button | N/A | Yes | N/A |
| 3 | Order ID | Order Number | Label | Text | Yes | N/A |
| 4 | Customer name | Name of customer | Label | Text | Yes | N/A |

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| 5 | Food name | Name of Food | Label | Text | Yes | N/A |
|---|--------------------------------|--|--------|------|-----|-----|
| 6 | Food quantity | Number of dishes ordered | Label | Text | Yes | N/A |
| 7 | Send Notification button | Send notification of completed orders to customers | Button | N/A | Yes | N/A |
| 8 | Cancel button | Cancel sending notice | Button | N/A | Yes | N/A |

4.5 Account Service (Login & Signup)

4.5.1 Use case Description

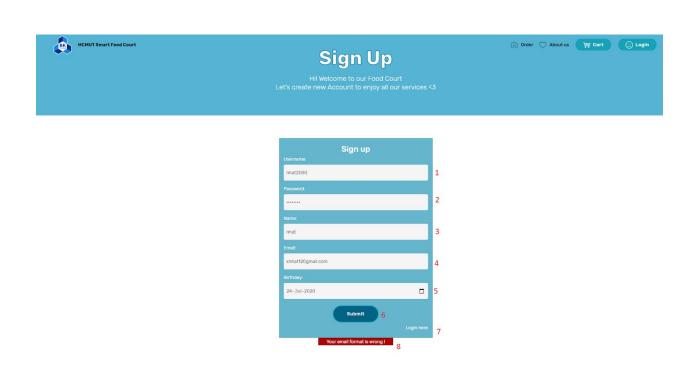
| Use Case ID | 5.1 | | | |
|------------------|--|------------------------------|------------|--|
| Use Case Name | Login Customer Account | | | |
| Created By | Nguyen Hoang Nhat | Last Updated By: Nguyen Nhat | | |
| Date Created | 2/5/2020 | Date Last Updated: | 04/05/2020 | |
| Actor | Customer, Account ser | vice. | | |
| Description | Customer logs in with | a registered accour | nt. | |
| Trigger | Customer wants to log | in with a registered | d account. | |
| Preconditions | Customer has loaded the website.customer already has an account. | | | |
| Postconditions | Customer's account is | logged. | | |
| Normal Flow | Customer presses the button "Login" on the screen. The system displays login form on the screen. Customer fills in the login form with 2 fields: username and password to login. Customer presses "Submit" button. The system will return to the homepage for customer to continue. | | | |
| Exceptions | Exception 1: at step 5 5a. If the password field or username fields is empty, notify the customer to fill in. 5b. If the password or username is shorter than 8, notify the customer to retype. 5c. If the password or username have special characters, notify the customer to delete them. 5d. If the username is correct but the password is incorrect, notify the customer the wrong password. | | | |

| Use Case ID | 5.2 | | | | |
|------------------------------------|---|-----------------------|----------------------|--|--|
| Use Case Name | Register Customer Account | | | | |
| Created By | Nguyen Hoang Nhat | Last Updated By: | Nguyen Hoang Nhat | | |
| Date Created | 3/5/2020 | Date Last Updated: | 06/05/2020 | | |
| Actor | Customer, Account ser | vice | | | |
| Description | Customer registers a no | ew account. | | | |
| Trigger | Customer wants to reg | ister a new account | · | | |
| Preconditions | Customer has loaded t | he website. | | | |
| Postcondition s | New account has been Database update new a | _ | | | |
| Normal Flow | Customer presses the text "Register here" on the Login page. The system displays the registration form on the screen. Customer fills in the registration form with 5 fields: username, password, name, email, birthday to register. Customer presses "Submit" button. The system notifies success. After that, the system will return to the login page for the customer to continue. | | | | |
| Exceptions | Exception 1: at step 5 5a. If the form has one or more fields that are empty, the system notify the customer to fill in. 5b. If the password or username is shorter than 8, notify the customer to retype. 5c. If the password or username have special characters, notify the customer to delete them. 5d. If the email is not in the correct email format, notify the customer to change it. 5e. If the username is already used to register, notify the customer to change it. | | | | |
| Non-functiona I Requirements | - The password is not saved directly. It must be hashed before saved on the database. | | | | |

4.5.2 Mock-up







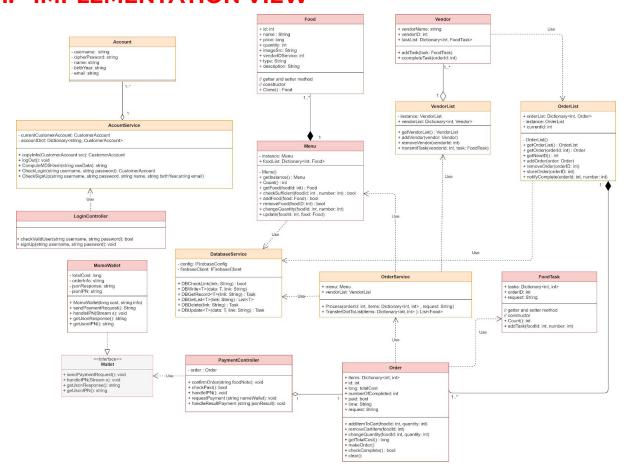
4.5.3 Description

| | Login | | | | | |
|----|-----------------|------------------------------------|------------------|--------------|---------------|-------------------|
| No | Field Name | Description | Contro I Type | Data Type | Mandat ory | Defaul t Value |
| 1 | username | Type username | Text Input | N/A | Yes | Empty String |
| 2 | password | Type password | Text Input | N/A | Yes | Empty String |
| 3 | remember-m e | Remember the account for next time | Check Box | N/A | Yes | False |
| 4 | submit | Submit login form to sever | Button | N/A | Yes | N/A |
| 5 | register-link | Redirect to "SignUp" page | Label | N/A | Yes | N/A |
| 6 | msg | Notice for exceptions | Label | Text | Yes | N/A |

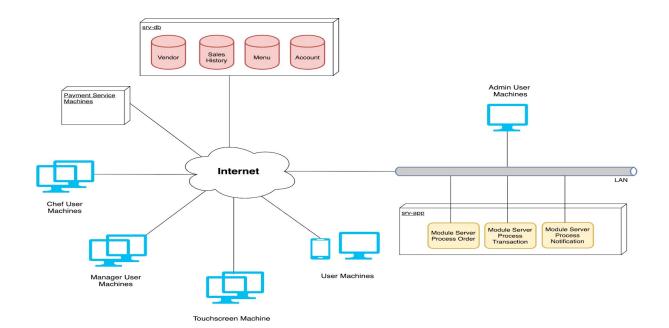
| | Register | | | | | |
|----|------------|------------------------------------|------------------|--------------|---------------|-------------------|
| No | Field Name | Description | Contro I Type | Data Type | Mandat ory | Defaul t Value |
| 1 | username | Type username | Text Input | N/A | Yes | Empty String |
| 2 | password | Type password | Text Input | N/A | Yes | Empty String |
| 3 | name | Type name | Text Input | N/A | Yes | Empty String |
| 4 | email | Type email | Text Input | N/A | Yes | Empty String |
| 5 | birthday | Type birthday | Date Input | N/A | Yes | Empty String |
| 6 | submit | Submit registration form to server | Button | N/A | Yes | N/A |

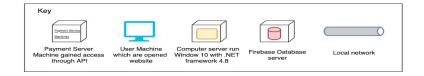
| 7 | login-link | Redirect to "Login" page | Label | N/A | Yes | N/A |
|---|------------|-----------------------------|-------|------|-----|-----|
| 8 | msg | Notice for exceptions | Label | Text | Yes | N/A |

III. IMPLEMENTATION VIEW



IV. ARCHITECTURE DESIGN

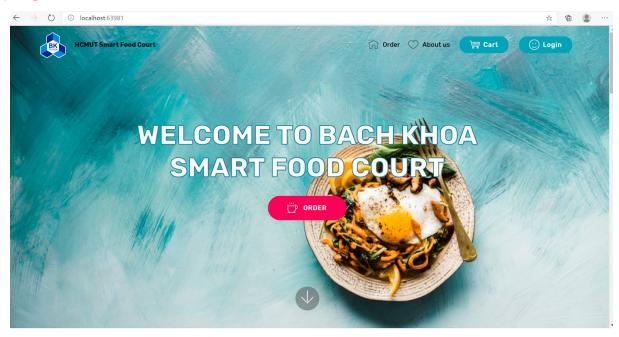




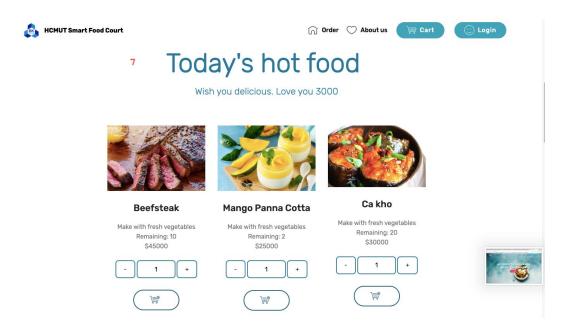
V. EVALUATION

| Member | Task | Function | Evaluation |
|-------------------|--|--------------------------|------------|
| | | Homepage design | 100% |
| Vo Hoang Hai Nam | Homepage, Signup | View Menu with labels | 100% |
| | feature and Class implementation | Choose number of food | 100% |
| | | Sign Up | 100% |
| | Cart, Payment | Cart View | 100% |
| Huynh Thi Uyen | feature and Connect | Payment UI | 100% |
| | to MOMO | Momo Payment | 100% |
| | Login, Get report feature and Database implementation | Login | 100% |
| Nguyen Hoang | | Get report | 80% |
| Nhat | | Database CRUD service | 100% |
| | | Manager UI | 100% |
| Dang Ngọc Tam | Manager UI and Edit | Add new food | 100% |
| Dang Ngoc Tam | menu feature | Update food | 100% |
| | | Remove food | 100% |
| Trang Trong Nghia | Chef UI and Notify | Chef UI | 100 % |
| Trang frong Ngma | feature | Notify feature | 80 % |

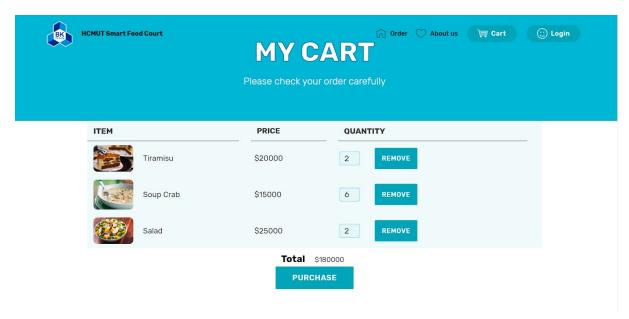
VI. UI PREVIEW



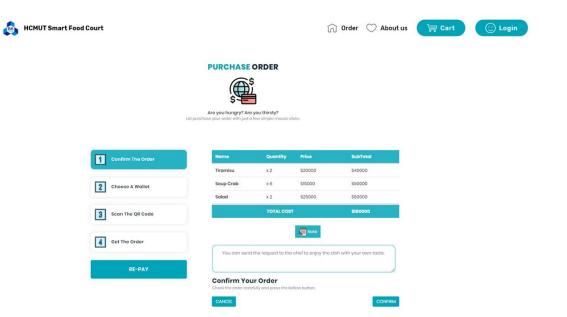
Home page



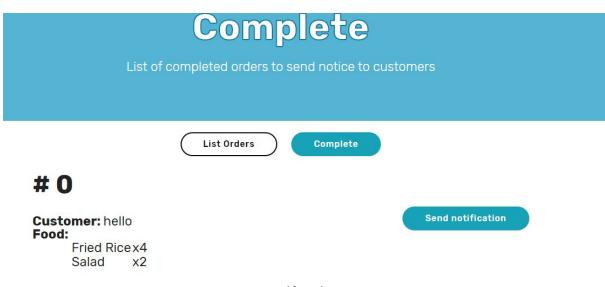
Order View



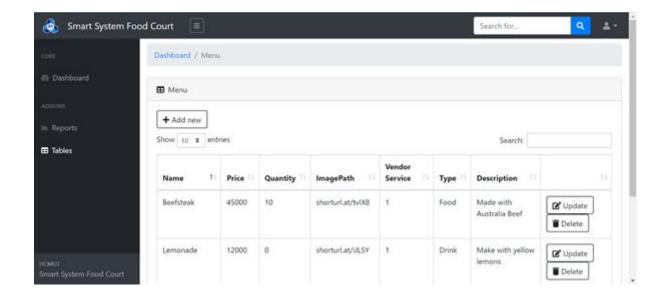
Cart View



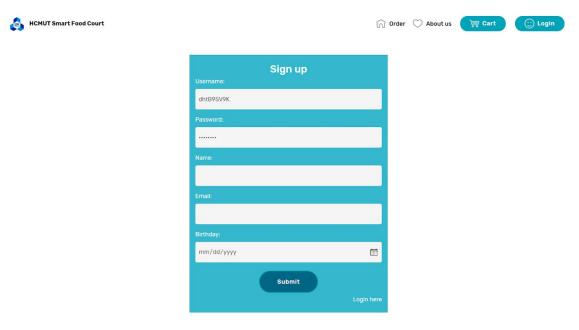
Payment view



Notify View



Manager View



Login View

VII. CONCLUSION

- Github: https://github.com/uyenhuynhuyen/SEFoodCourt
- The interface is almost done. But the system is still slow, some minor bugs still need to be fixed like the amount of food when it runs out. Besides, some functions will be improved later such as customer notification, adding a few types of wallets.
- The project was more than we expected at first, but not really complete. Satisfaction rate is 8/10.