

Business Requirement for ThinkFood

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1. System Overview

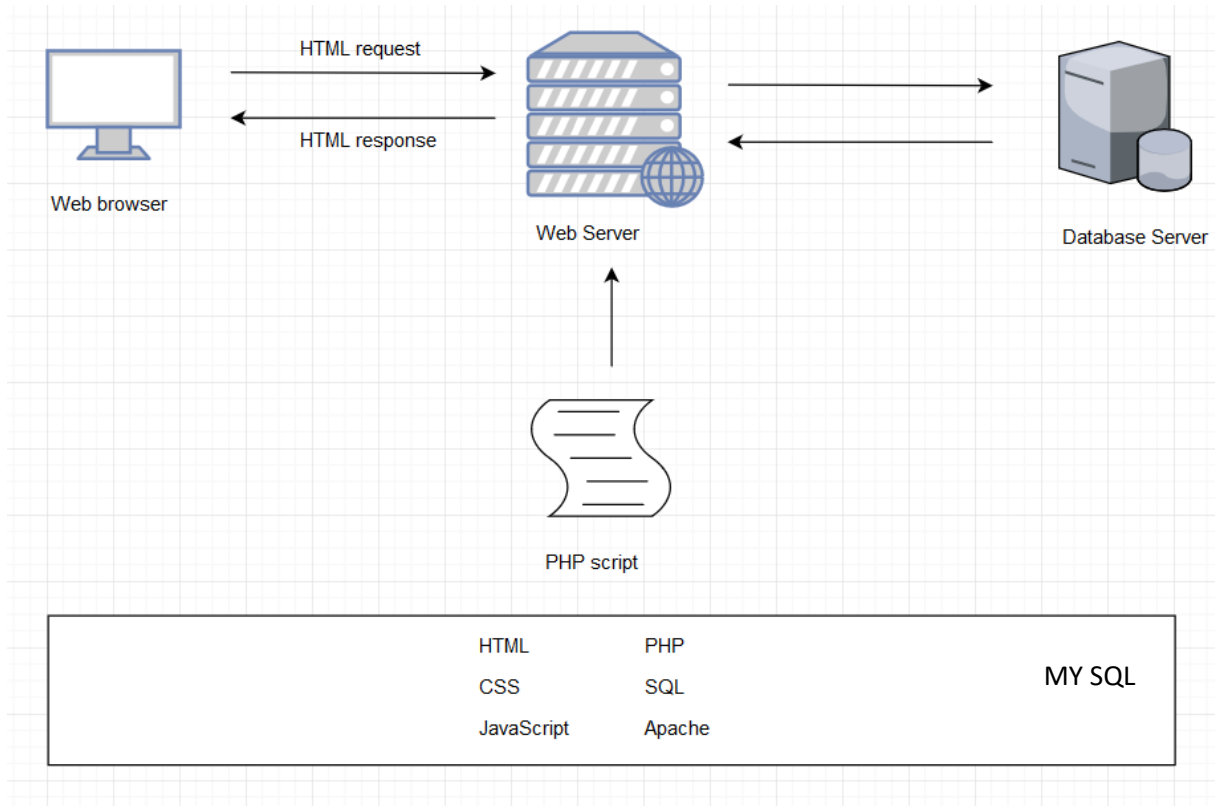


Figure 1 – System Architecture

2. Requirements Scope

2.1 In Scope

Requirement No	Description
R01	The client must be able to log into an admin account
R02	The client must be able add products the web site
R03	Must be able display products by categories
R04	Customers must register place orders
R05	display the current items in the cart
R06	add selected products the cart
R07	delete products (individually or all) from their cart
R08	adjust the quantity of a selected product currently in the cart
R09	preserve the contents of the cart if the user's session is disconnected
R10	have the cart accessible regardless from any machine the customer is logging in
R11	Create a unique file for each order that contains the order confirmation information
R12	include a secure, online payment process

R13	Allow customers view their order history
R14	Provide an intuitive, consistent look and feel the user interface
R15	Use free open source software
R16	Have the system fully tested and up and running in 8 weeks
R20	Allow customers provide reviews for any of the products they have purchased
R21	Must be able display the evaluation reviews for any products
R22	Provide customers with appropriate product recommendations when they log in
R23	Provide customers with any product recommendations when they look at a particular product

2.2 Out of Scope

No	Requirement
1	preserve the contents of the cart if the user's session is disconnected accidentally
2	allow the order to be shipped to a different address and person other than the user
3	Allow customers change their order after they have created it
4	Allow customers change their registration information

3. Functional Requirements

- R01 – The client must be able to log in to an admin account
- R02 – The client must be able to add products to the web site
- R03 – Must be able to display products by categories
- R04 - Customers must register to place orders
- Must provide a fully functioning shopping cart utility where a customer can:
 - R05 – display the current items in the cart
 - R06 - add selected products to the cart
 - R07 - delete products (individually or all) from their cart
 - R08 - adjust the quantity of a selected product currently in the cart
 - R09 - preserve the contents of the cart if the user's session is disconnected
 - R10 - have the cart accessible regardless from any machine the customer is logging in
 - R11 - Create a unique file for each order that contains the order confirmation information
 - R12 - include a secure, online payment process
- R13 - Allow customers to view their order history

Extra:

- R20 – Allow customers to provide reviews for any of the products they have purchased
- R21 – Must be able to display the evaluation reviews for any products
- R22 – Provide customers with appropriate product recommendations when they log in
- R23 – Provide customers with any product recommendations when they look at a particular product

3.1 UML Use Case Diagram

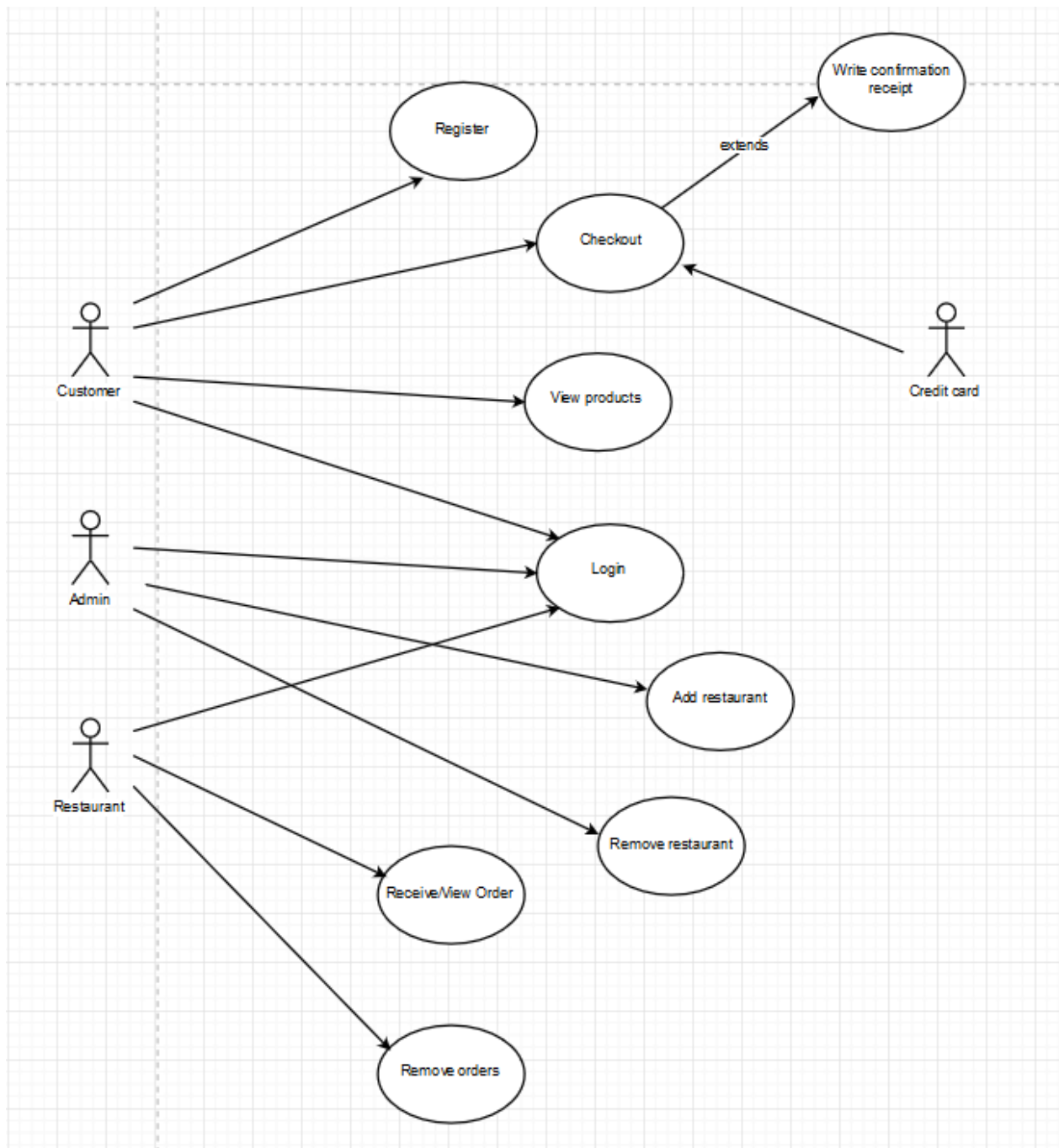


Figure 2 - Login Screen

3.2 UML Use Case Specifications

Registration

Use Case Name:	Register	Use Case ID:	UC001
Primary Actor:	Customer		
Description:	Customers fill out the mandatory items to register their accounts.		
Triggering Event:	Log-in is necessary for making a purchase. Customer information is needed for delivery and payment.		
Steps Performed (Main Path)			
1. Click the register button on the website			
2. Fill the personal information given			
3. Customers are checking the information correctly typed by validation function			
4. The information will be saved on the database			
5. Let the user know that the registration has been approved			
Extensions or Alternate Scenarios			
2a. Users can cancel the registration			
2b. Users do not fill the personal information properly, warning pops			
Pre-Conditions:	The database server must connect to the registration session in the website.		
Post-Conditions:	The customer can log in and view the products		
Assumptions:	Customer is good standing within general registration		
Success Guarantee:	1.The customer can log in successfully with the account they just have created 2. The information is stored in the database without any violation		
Outstanding Issues:	The connection could be lost during registration.		
Priority:	HIGH		

Check-Out

Use Case Name:	Check-Out	Use Case ID:	UC002
Primary Actor:	Customer, Credit Card		
Description:	The customer can check out the amount of products using payment system		
Triggering Event:	The customer selects the products and click the check-out button		
Steps Performed (Main Path)			
1. View the cart after shopping			
2. The customers select the products and click the check-out button			
3.The customers type the credit card number and extra information			
4. Create a Unique file in server to store order’s confirmation			
Extensions or Alternate Scenarios			
3a. The customer put the wrong format of credit card			
3b. Customer try to exit check-out session			
Pre-Conditions:	1. The customers must be logged in 2. The customers must have a valid credit card		
Post-Conditions:	A confirmation message shows up on the website to inform customer about their order		
Assumptions:	Customer is in good standing within the system.		
Success Guarantee:	After payment, customers and restaurants can receive the information		
Outstanding Issues:	Customer’s order cannot proceed The restaurant cannot receive orders		
Priority:	HIGH		

Write Confirmation Receipt

Use Case Name:	Write Confirmation Receipt	Use Case ID:	UC002
Primary Actor:	Customer		
Description:	Customer order receipt will be stored in the server		
Triggering Event:	When the customer checked out the order		
Steps Performed (Main Path)			
1. The Customer checked out the order			
2. The system will receive the order			
3. After the confirmation the system will write the order receipt in new created file			
Extensions or Alternate Scenarios			
2.a When the System is unable to confirm the order, the system will print an error and display it to the customer page.			
Pre-Conditions:	When the payment is successfully completed		
Post-Conditions:	After confirmation the system will create a unique file in the server and stored the receipt		
Assumptions:	The server has enough storage		
Success Guarantee:	The system will save the receipt into the server		
Outstanding Issues:	1. Does the system check if the server has enough storage? 2. Does the system has a proper permission to store a file?		
Priority:	HIGH		

View Products

Use Case Name:	View Products	Use Case ID:	UC003
Primary Actor:	Customer		
Description:	Customer can check products menu which includes product picture, price , review and rating		
Triggering Event:	Customer selects the products		
Steps Performed (Main Path)			
1. After logging in, the customer can select the different category of food to make sure which restaurant they prefer.			
2. The customer views menu from selected restaurants.			
3. The customer can check the picture, price and rating for each product.			
4. The customer can add selected products in their cart.			
5. The customer can view, add or delete current order in cart			
Extensions or Alternate Scenarios			
3a. When the customer select a product, there will be recommendation at the			
Pre-Conditions:	1. The customer must be connected to the system 2. The restaurant has already registered into the system		
Post-Conditions:	The customer can view the product		
Assumptions:	Customer is in good standing within the system.		
Success Guarantee:	1. The customer can check product picture, product price and product rating clearly after selected a restaurant. 2. The customer can check current recommendation for restaurant and dishes in main page 3. The customer can view/change the current order in their cart		
Outstanding Issues:			
Priority:	High		

Log In

Use Case Name:	Log in	Use Case ID:	UC004
Primary Actor:	Customer, Admin, Restaurant		
Description:	Customer, admin and restaurant can log in the system with different authorities		
Triggering Event:	Customer, admin and restaurant can log in the system after they registered.		
Steps Performed (Main Path)			
1. Customer or Admin or restaurant owner open the system.			
2. After they registered, they can access the system through log in page			
3. After logged in, customer or admin or restaurant owner can enter different main page			
Extensions or Alternate Scenarios			
1. After customer log in, the website should base on the current main page with the recommendations			
2. After admin log in, they can manage restaurants and products			
3. After restaurant log in, they can manage the orders			
Pre-Conditions:	1. All types of users log in with valid passwords		
Post-Conditions:	1. All users can be logged in with different authorities		
Assumptions:	Customer /restaurant is a current user/business in good standing within the system.		
Success Guarantee:	1. The customer can log in and active successfully. 2. The admin can log in and active successfully. 3. The restaurant can log in and active successfully.		
Outstanding Issues:	1. User forgot the account information		
Priority:	HIGH		

Add Restaurant

Use Case Name:	Add restaurant	Use Case ID:	UC05
Primary Actor:	Admin		
Description:	Admin can add more restaurant to the website		
Triggering Event:	Add restaurant button		
Steps Performed (Main Path)			
1. Admin login to the site			
2. Admin choose add restaurant button			
Extensions or Alternate Scenarios			
2a. Admin can cancel adding process. Go back to home screen			
2b. Admin can add menus			
2c. Admin will add restaurant’s information, contact, location, menu, price, etc...			
Pre-Conditions:	1. Admin must be connected to the website 2. Admin must chose add restaurant option		
Post-Conditions:	Admin must fill all information for that restaurant and their products or added at least one restaurant		
Assumptions:	Admin knows how to use and manage the site		
Success Guarantee:	Admin added a restaurant successfully and the information is saved on the database		
Outstanding Issues:	Admin cannot add restaurant Admin add a restaurant without important information		
Priority:	High		

Remove Restaurant

Use Case Name:	Remove restaurant	Use Case ID:	UC06
Primary Actor:	Admin		
Description:	Admin can remove restaurant on the website		
Triggering Event:	Remove restaurant button		
Steps Performed (Main Path)			
1. Admin login to the site			
2. Admin choose remove restaurant button			
Extensions or Alternate Scenarios			
2a. Admin can cancel removing process. Go back to home screen			
2b. Admin will choose which restaurant he/she wants to be removed then click delete button.			
2c. Alert a confirmation message when delete button is clicked			
2d. Admin can remove the products on each restaurant			
Pre-Conditions:	1 Admin must be connected to the website 2 Admin must chose remove restaurant option		
Post-Conditions:	Admin must choose at least one restaurant to be removed		
Assumptions:	Admin knows how to use and manage the site		
Success Guarantee:	Admin removed a restaurant successfully on the database		
Outstanding Issues:	1 Admin cannot remove restaurant 2 The restaurant’s information not deleted properly		
Priority:	High		

Receive and View Orders

Use Case Name:	Receive and View Orders	Use Case ID:	UC007
Primary Actor:	Restaurant		
Description:	The customer’s orders are sent to the restaurant view. The restaurant can view the orders they receive and cook it		
Triggering Event:	When the customer made purchases		
Steps Performed (Main Path)			
1. The restaurant is logged in			
2. Someone makes an order at their own category menu in the website			
3. The confirmation of the order is completed			
4. The system will be sent the order information to the restaurant view			
Extensions or Alternate Scenarios			
2.a The customers canceled their order after payment			
Pre-Conditions:	The restaurant must be register in the database, after that they just need to log in. They mush have the authority as a restaurant		
Post-Conditions:	The restaurant has cooked the order they receive		
Assumptions:	The restaurant is always logged in		
Success Guarantee:	The restaurant will cook as the order they received		
Outstanding Issues:	Does the system know if the restaurant’s menu is out of stock?		
Priority:	High		

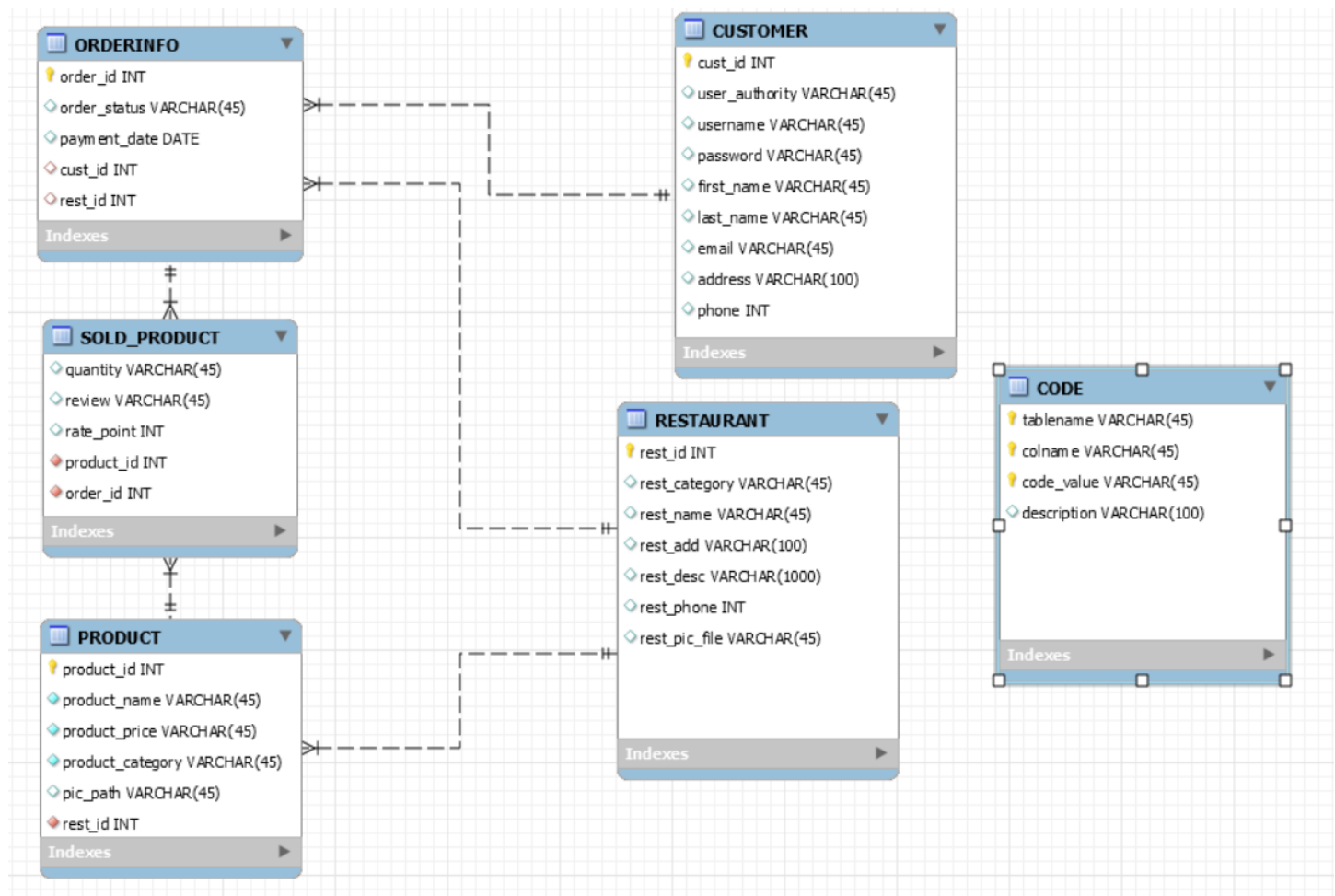
Remove orders

Use Case Name:	Remove orders	Use Case ID:	UC008
Primary Actor:	Restaurant		
Description:	The restaurant can remove the orders they received		
Triggering Event:	When the restaurant wants to remove the order		
Steps Performed (Main Path)			
1. The restaurant must be log in			
2. The restaurant must have received the orders			
3. The restaurant selects what orders they want to remove			
4. The order selected is removed			
Extensions or Alternate Scenarios			
3a. more than 1 orders could be removed at once			
Pre-Conditions:	The restaurant must be logged in to the database, they also must have received the orders		
Post-Conditions:	The restaurant erased the orders		
Assumptions:	Restaurant can't provide the product for some reason		
Success Guarantee:	The restaurant has deleted the orders they received		
Outstanding Issues:	1. Does the system will recommend the other menu equivalent to the food they order? 2. The canceled order should be refunded to the customer		
Priority:	Medium		

3. Non-Functional Requirements

No	Description
R14	Provide an intuitive, consistent look and feel the user interface
R15	Use free open source software
R16	Have the system fully tested and up and running in 8 weeks

4. Data Model



5. UI Screen Mock-ups

6.1 The following screen is for UC001 and shows the current contents of the customer register page.

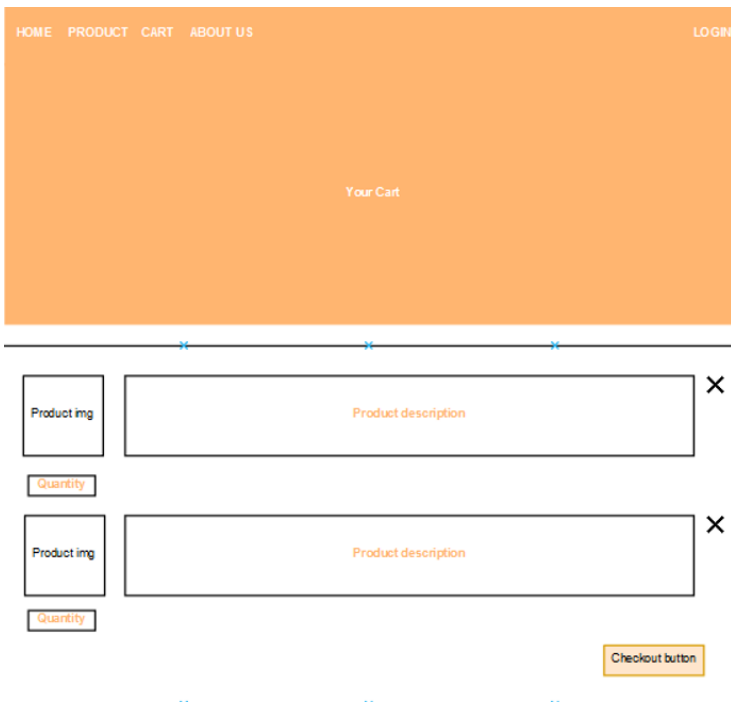
Figure 3-Register page



The Register page mockup features a light blue background. At the top, the word "Register" is displayed in a large, green, sans-serif font. Below the title, there are six input fields arranged vertically, each with a label to its left: "Username", "Password", "First name", "Last name", "Email", and "Phone". Each input field is a simple white rectangle with a thin blue border. At the bottom of the form, there is a blue rectangular button with the word "Submit" in white, centered text.

6.2 The following screen is for UC002 and shows the current contents of the customer checkout page.

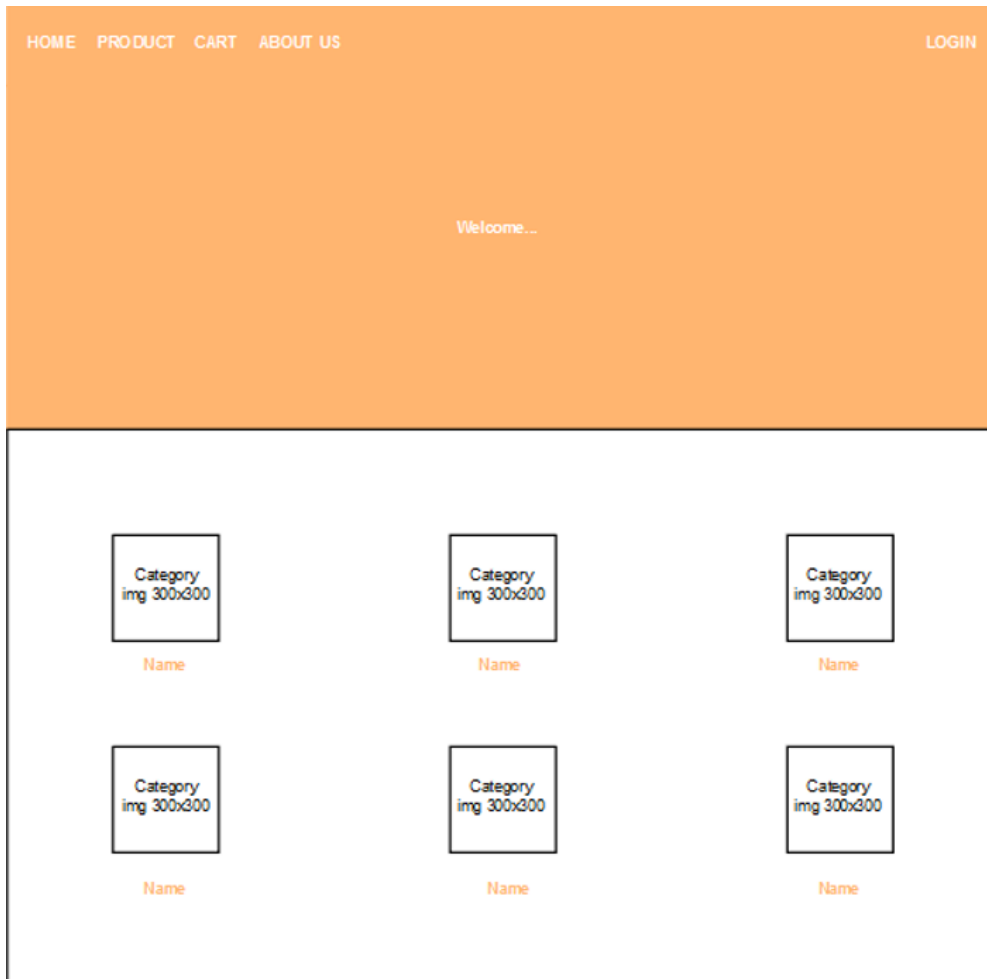
Figure 4-Checkout page



The Checkout page mockup is divided into two main sections. The top section has an orange background and contains a navigation bar at the top with links: "HOME", "PRODUCT", "CART", "ABOUT US", and "LOGIN". In the center of this section, the text "Your Cart" is displayed. The bottom section has a white background and contains a list of items in the cart. Each item is represented by a small box on the left with the label "Product img", followed by a larger box with the label "Product description". To the right of each item box is a close button (an 'X' icon). Below the item boxes, there is a "Quantity" input field for each item. At the bottom right of the section, there is a yellow button labeled "Checkout button".

6.3 The following screen is for UC003 and shows the current contents of the customer view products page.

Figure 5-View products through main page



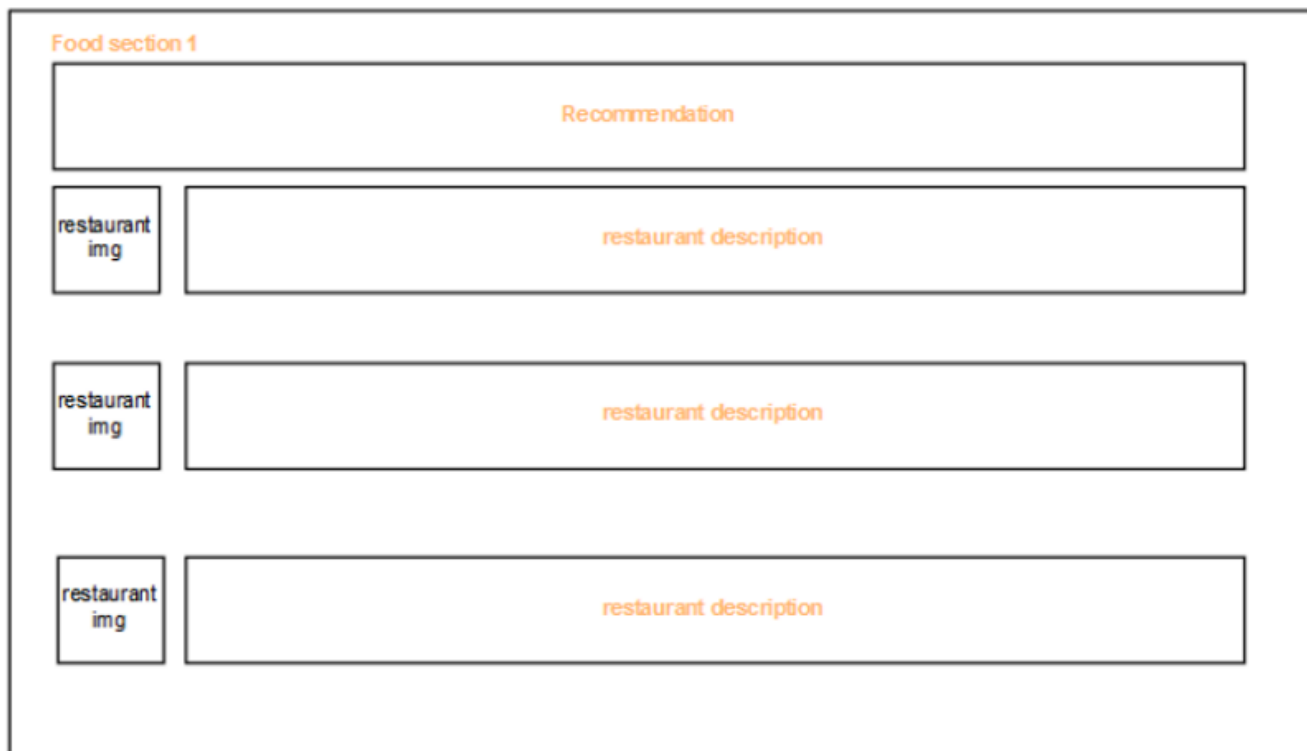
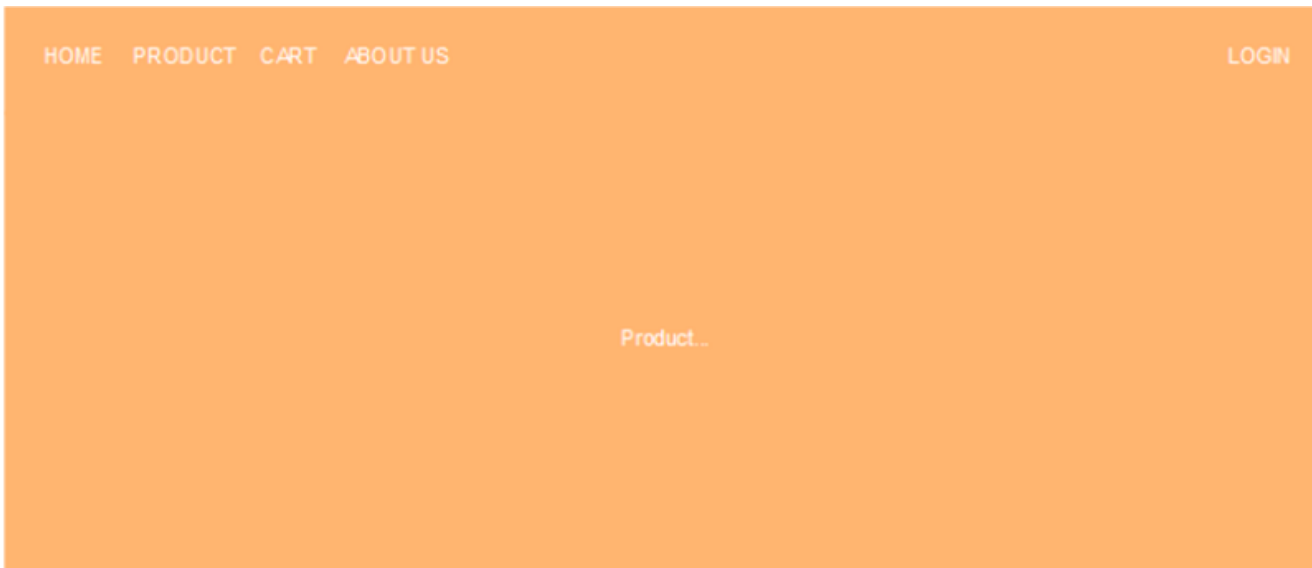
View products from main page



Restaurant name

Product img 200x200	Product description
rating	
Product img 200x200	Product description
rating	
Product img 200x200	Product description
rating	
Product img 200x200	Product description
rating	
Product img 200x200	Product description
rating	

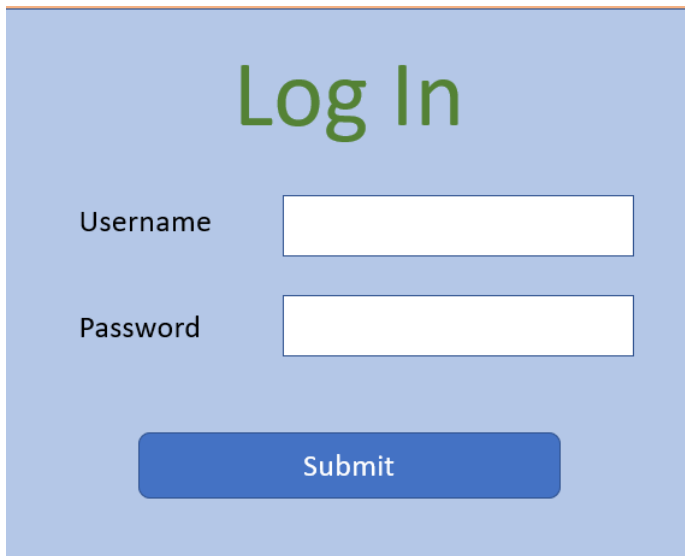
View products from restaurant page



View products from recommendation page

6.4 The following screen is for UC004 and shows the current contents of the customer/Admin/Restaurant login page.

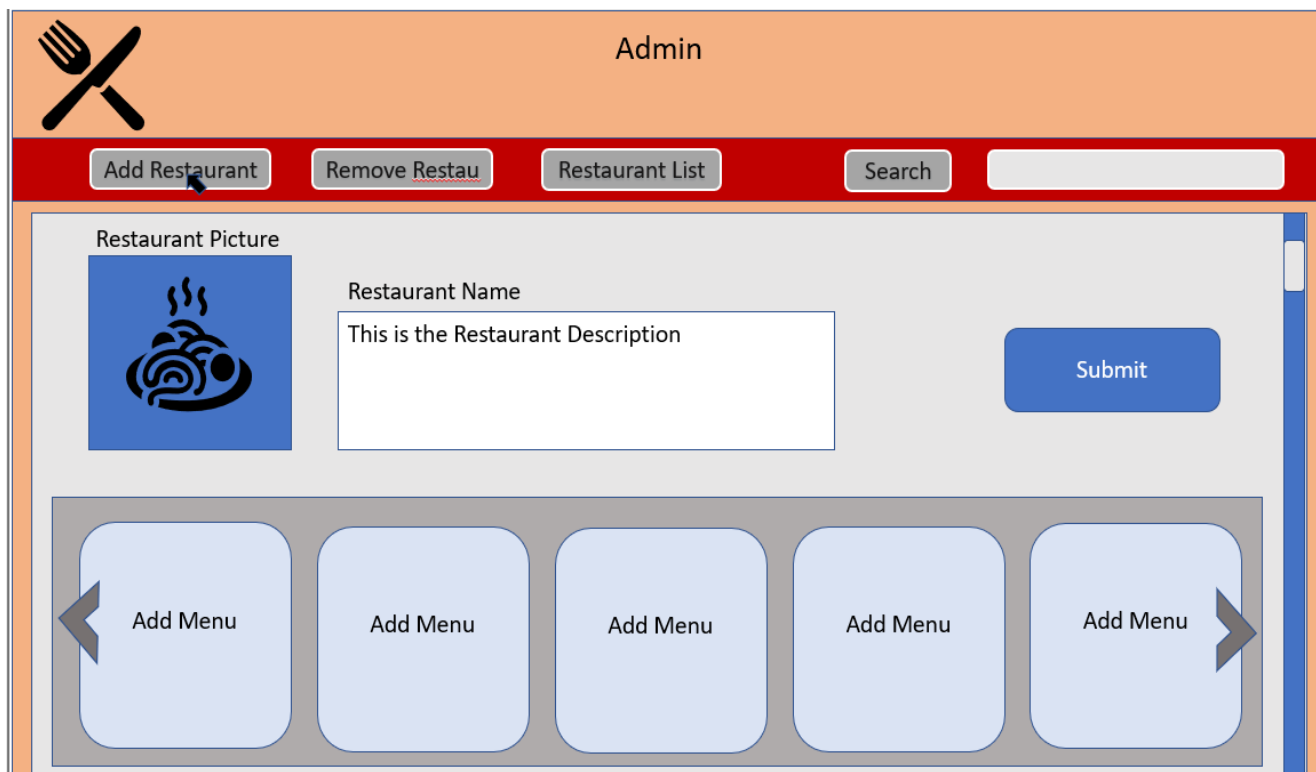
Figure 6-Login page



The login page has a light blue background. At the top center, the text "Log In" is displayed in a large, green, sans-serif font. Below this, there are two white input fields. The first is labeled "Username" and the second is labeled "Password". Both labels are in a black, sans-serif font. Below the input fields is a blue button with the word "Submit" in white, sans-serif font.

6.5 The following screen is for UC005 and shows the current contents of the Admin add restaurant page.

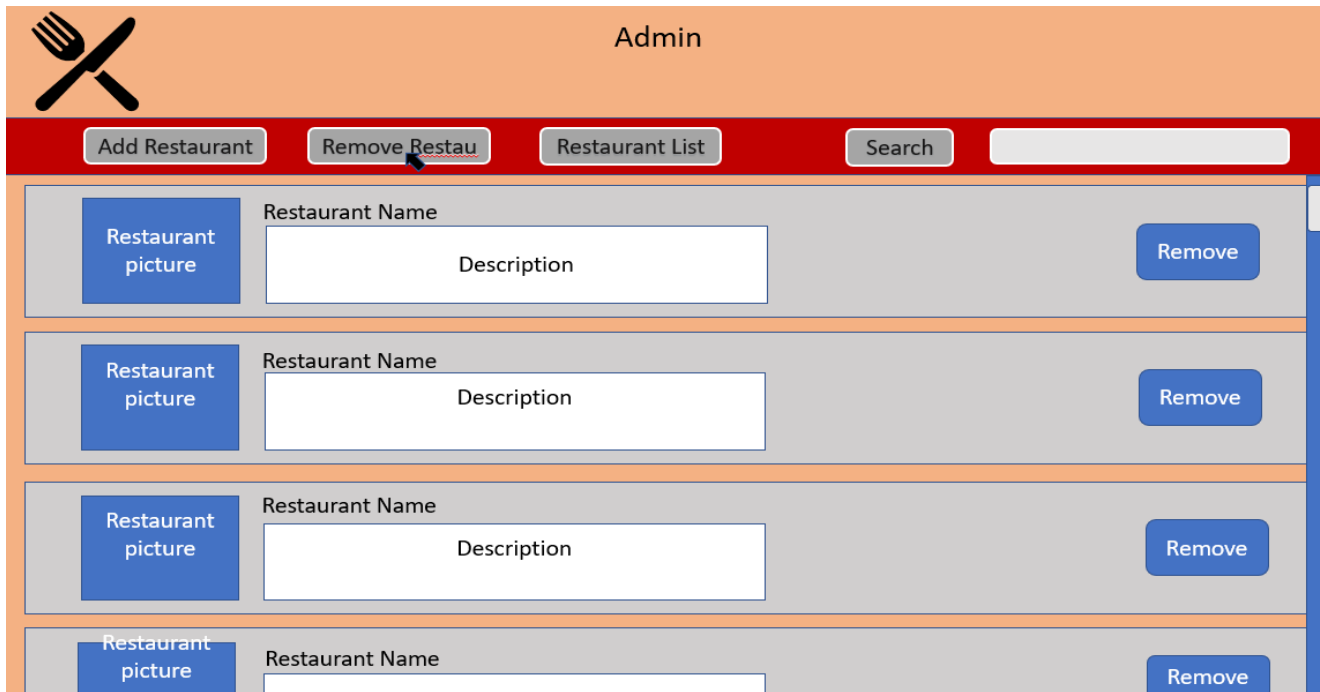
Figure 7-Add restaurant page



The admin page has an orange header bar with a black fork and knife icon on the left and the word "Admin" in the center. Below the header is a red navigation bar with five buttons: "Add Restaurant", "Remove Restau", "Restaurant List", "Search", and a search input field. The main content area has a light gray background. It features a "Restaurant Picture" section with a blue square containing a black icon of a flame and a swirl. To the right of this is a "Restaurant Name" section with a white input field containing the text "This is the Restaurant Description". A blue "Submit" button is to the right of the input field. At the bottom, there is a gray bar with five light blue rounded rectangles, each containing the text "Add Menu". The first and last rectangles have gray arrows pointing left and right, respectively.

6.6 The following screen is for UC006 and shows the current contents of the Admin remove restaurant page.

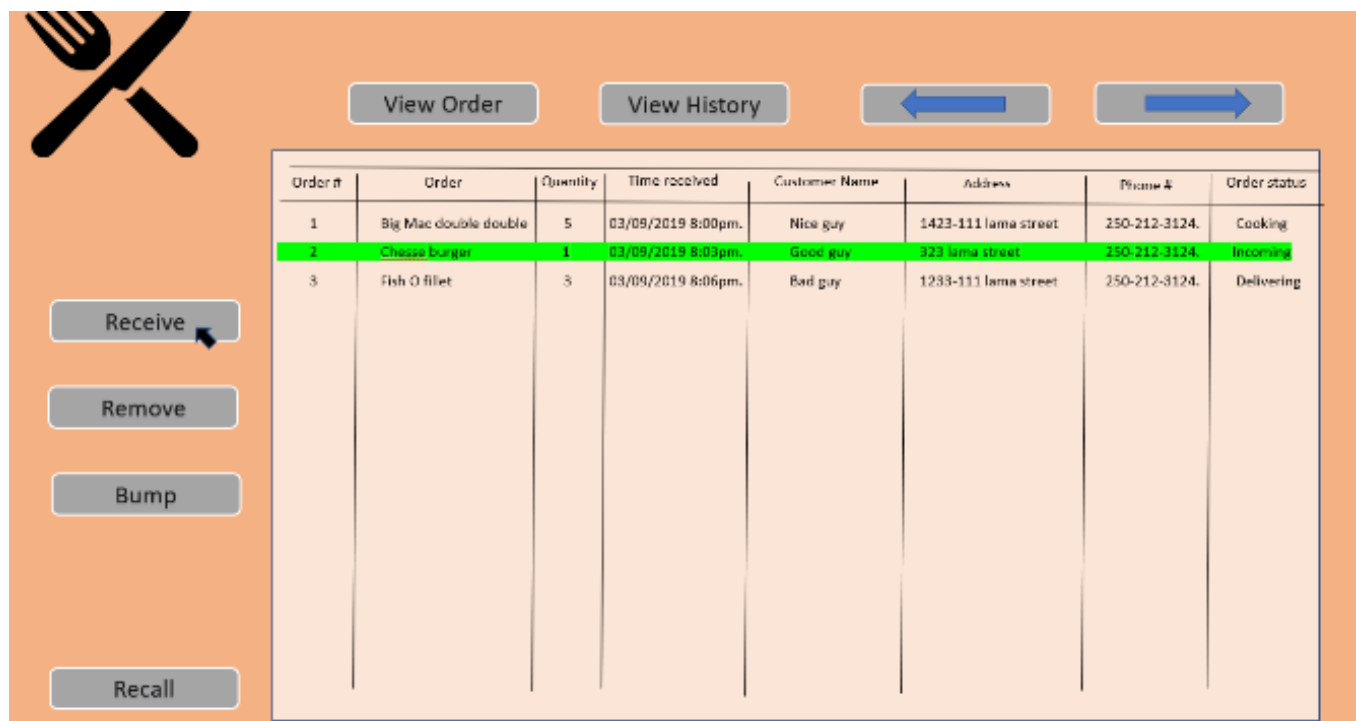
Figure 8-Remove restaurant page



The screenshot shows the 'Admin' interface for removing a restaurant. At the top, there's a header with a fork and knife icon and the word 'Admin'. Below this is a red navigation bar with buttons: 'Add Restaurant', 'Remove Restau' (highlighted), 'Restaurant List', and a 'Search' button next to a text input field. The main content area has a light orange background and contains four identical forms stacked vertically. Each form has a 'Restaurant picture' label next to a blue square icon, followed by 'Restaurant Name' and 'Description' text input fields, and a 'Remove' button on the right.

6.7 The following screen is for UC007 and shows the current contents of the restaurant receive/view orders page.

Figure 9-Recrive order page



The screenshot shows the 'Restaurant Receive/View Orders' page. It features a header with a fork and knife icon and two buttons: 'View Order' and 'View History'. Below these are two blue arrow buttons pointing left and right. The main area contains a table with the following data:

Order #	Order	Quantity	Time received	Customer Name	Address	Phone #	Order status
1	Big Mac double double	5	03/09/2019 8:00pm.	Nice guy	1423-111 lama street	250-212-3124.	Cooking
2	Cheese burger	1	03/09/2019 8:03pm.	Good guy	323 lama street	250-212-3124.	Incoming
3	Fish O fillet	3	03/09/2019 8:06pm.	Bad guy	1233-111 lama street	250-212-3124.	Delivering

On the left side of the page, there are four buttons: 'Receive' (highlighted with a mouse cursor), 'Remove', 'Bump', and 'Recall'.

6.8 The following screen is for UC008 and shows the current contents of the restaurant remove orders page.

Figure 10-Remove order page



Order #	Order	Quantity	Time received	Customer Name	Address	Phone #	Order status
1	Big Mac double double	5	03/09/2019 8:00pm	Nice guy	1423 111 lama street	250 212 3124	Cooking
2	Chicken burger	1	03/09/2019 8:03pm	Good guy	323 lama street	250 212 3124	Out of stock
3	Filet O Fille	1	03/09/2019 8:06pm	Bad guy	1233-111 lama street	250-212-3124	Delivering

6. Change Log

Change Request Id	Issue Date	Description
CR01	2019-Mar-14	R11 requirements is changed to Create a unique file for each order that contains the order confirmation information