

1.0 INTRODUCTION

In the contemporary landscape of technological advancements and changing consumer preferences, the advent of online food ordering systems has revolutionized the way individuals access and enjoy culinary offerings. An online food ordering system is a sophisticated platform that seamlessly connects customers with a diverse array of restaurants and eateries, offering a streamlined and convenient method for placing food orders through digital interfaces. This innovative system leverages the power of the internet to provide users with a user-friendly and efficient experience, allowing them to browse menus, make selections, and place orders from the comfort of their homes or on-the-go. Beyond the convenience it affords to customers, the online food ordering system also benefits restaurants by expanding their reach, enhancing operational efficiency, and fostering a direct and efficient communication channel with their clientele. This transformative technology exemplifies the symbiotic relationship between the culinary industry and digital innovation, marking a significant milestone in the evolution of food service mechanisms.

1.1 OBJECTIVES

- Design a simple and intuitive platform for customers to place orders easily and a restaurant management system.
- Building a strong backend infrastructure to enable advanced features.
- Aim to automate processes to enhance efficiency for both customers and restaurants.

1.2 PURPOSE

A food ordering system project aims to create a digital platform that facilitates the process of ordering food for customers and managing orders for restaurants or vendors. It provides convenience to customers by allowing them to browse menus, place orders, and make payments using an e-wallet, without the need to visit the restaurant physically. For restaurants, the system streamlines order management, helps in menu updates, and facilitates delivery or pickup logistics. Overall, it simplifies the food ordering process for both customers and businesses, enhancing efficiency and customer satisfaction.

1.3 LIMITATION

Food ordering systems, while beneficial, come with limitations. These include dependence on technology, accessibility challenges for some users, delivery constraints, menu and order accuracy issues, customer support demands, privacy concerns, integration difficulties, competition, and cultural differences. These limitations need to be addressed to ensure the effectiveness and satisfaction of both customers and businesses using these systems.

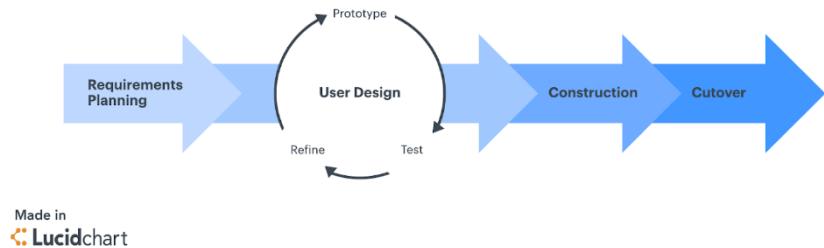
2.0 METHODOLOGY

2.1 SYSTEM PLANNING AND GUIDELINES

2.1.1 RAPID APPLICATION DEVELOPMENT (RAD) METHODS

This project used the Rapid Application Development (RAD) as a method to develop an Online Food Ordering system. Based on the picture below, the phase can be divided into four main phases, namely the Requirements Planning Phase, the User Design Phase, the Construction Phase and the Implementation Phase. The Rapid Application Development system is a system that repeats as long as the project is produced according to the user's wishes.

Rapid Application Development (RAD)



The figure 1 show Rapid Application Development (RAD) Diagram

1) Requirements Planning:

- Identify the user of the system: Think of everyone involved in the food ordering process – customers, restaurant owners, delivery personnel, and system administrators.
- Gather requirements: Understand what each stakeholder needs. Customers want an easy way to order, restaurant owners need a simple system to manage menus and orders, and administrators require tools to monitor transactions.
- Define project scope and constraints: Decide what the system will include initially, considering budget and time limits.

2) User Design:

- Involve users in design: Work with customers to create prototypes of the ordering system. Get their feedback through testing and adjust accordingly.
- Iterate based on feedback: Keep improving the design based on what users say to make sure it's easy to use.

3) Construction:

- Develop the system: Build the online ordering platform according to what stakeholders need, both in design and functionality.
- Involve users in development: Let user which is customer give feedback as the system is being built to catch any issues early on.

4) Implementation:

- Finalize the system: Make sure everything works smoothly. Test it thoroughly and provide training to users, like restaurant staff.
- Introduce the system: Once it's ready, roll out the system to everyone involved. Gather feedback from users and make improvements as needed to keep the system running smoothly.

2.1.2 GANTT CHART

The Gantt Chart for Online Food Ordering System

TASTEBYTE|FOOD ORDERING SYSTEM

Gantt Chart

PROCESS	1 JAN 2024				10 JAN 2024				4 FEB 2024			
	2	4	6	8	10	16	22	28	4	5	6	7
Planning												
Wireframing												
Design Process (Database)												
Front-end development												
Back-end development												
Testing and Simulation												

The figure 2 show Gantt Chart Food Ordering System

2.1.3 FLOWCHART SYSTEM

Figure 3 and Figure 4 show the flowchart for the Online Food Ordering System and Admin Restaurant.

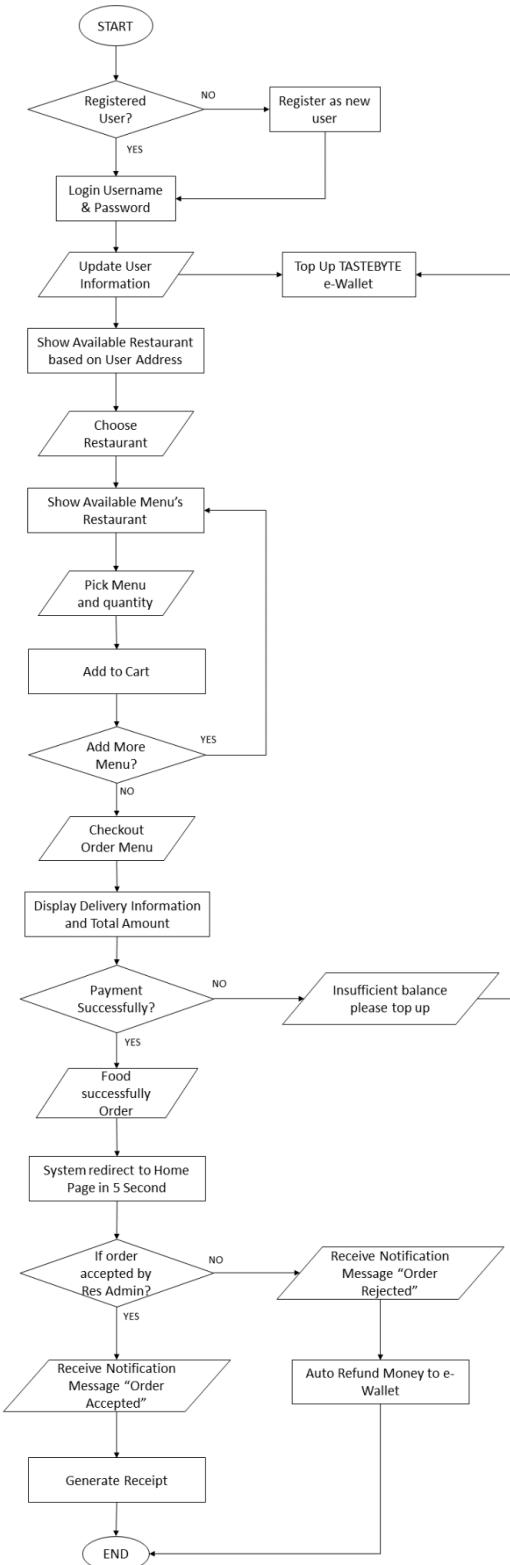


Figure 3: Online Food Ordering System

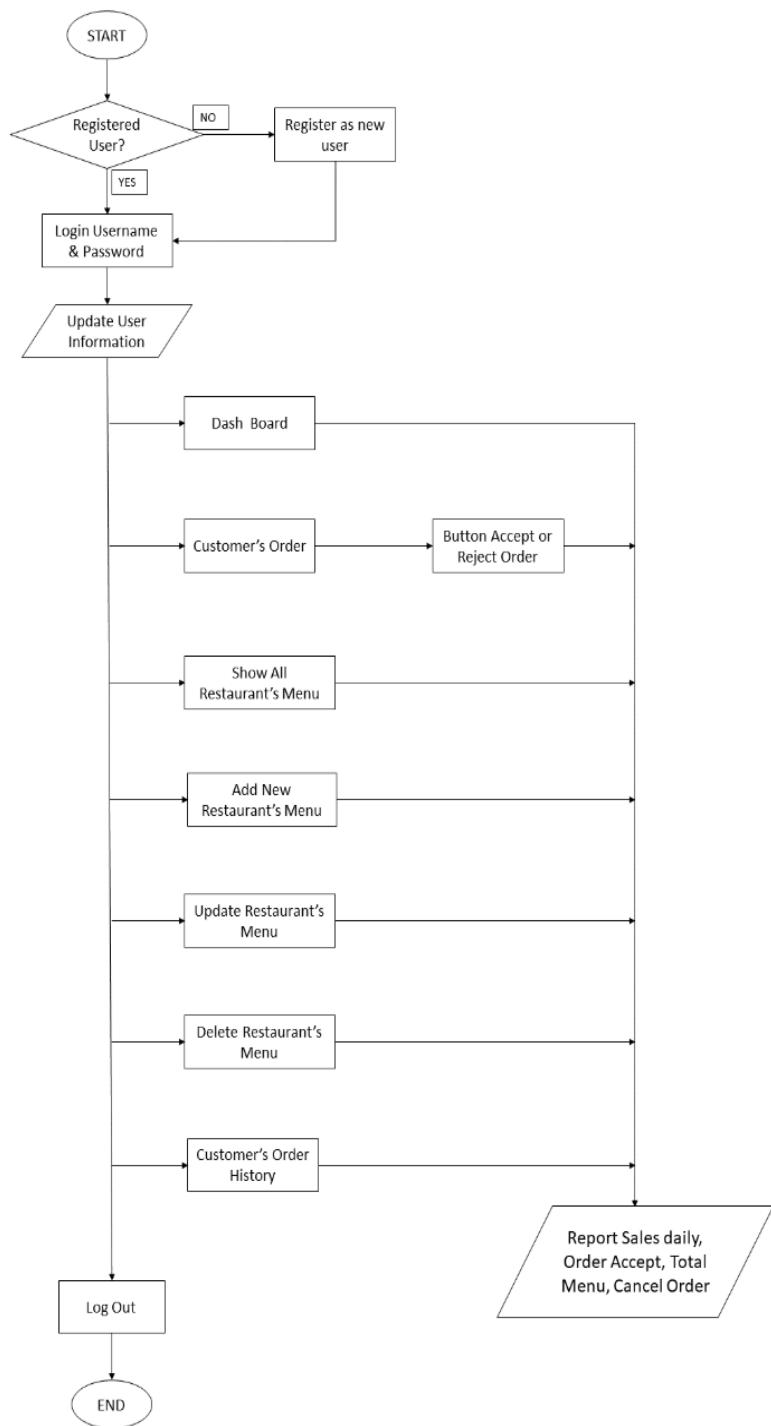


Figure 4: ADMIN Restaurant

2.2 DESIGN CONSIDERATION

2.2.1 USE CASE

The use case diagram for Online Food Ordering System is shown in the Figure 5

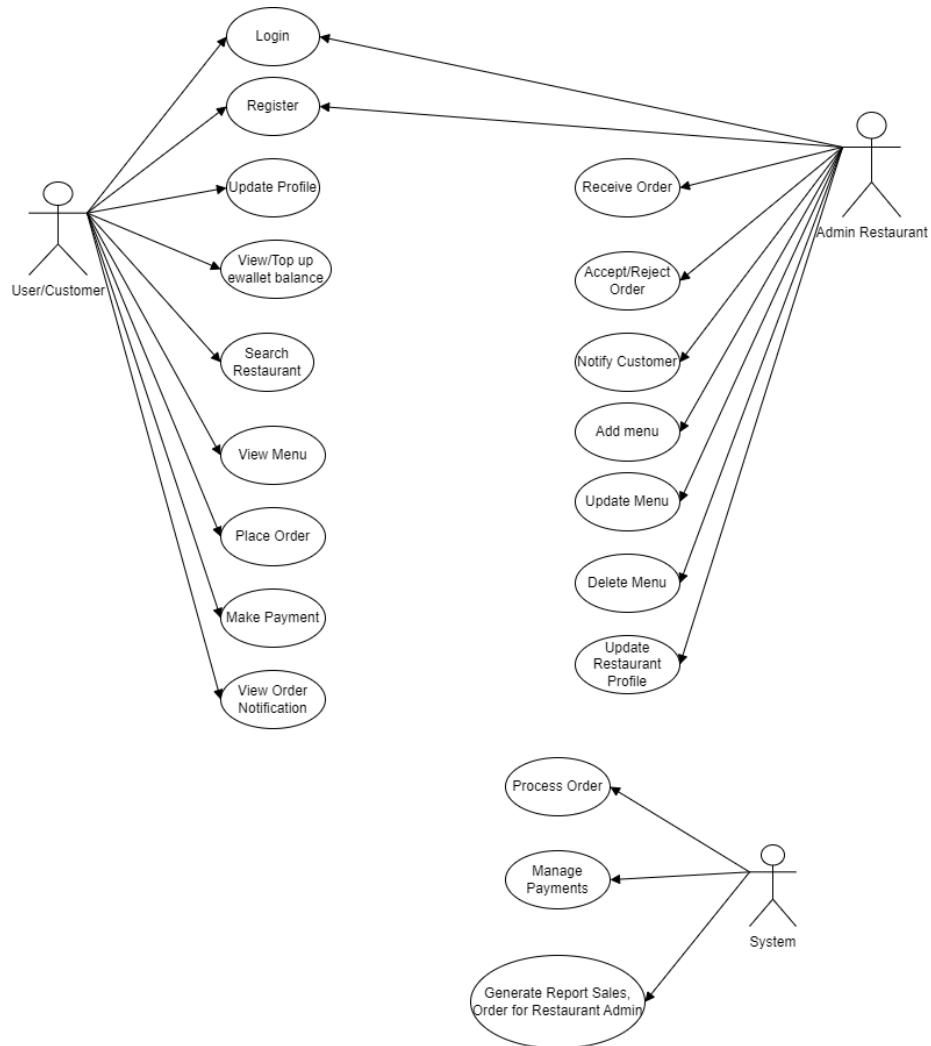


Figure 5 : Online Food Ordering System Use Case Diagram

2.2.2 ENTITY RELATIONSHIP DIAGRAM

The ER Diagram for the Online Food Ordering System is shown in the Figure 6

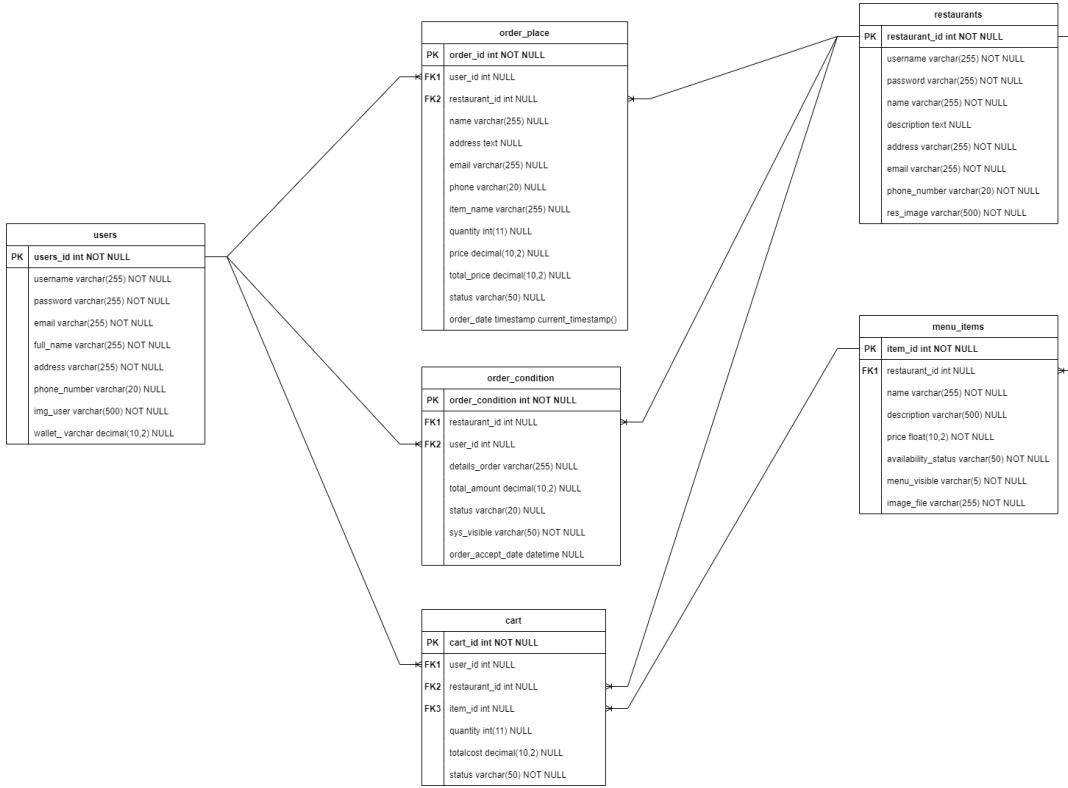


Figure 6 : Online Food Ordering System

2.2.3 CARDINALITY BETWEEN 2 ENTITIES (TABLE)

1) Users Table and order_place Table:

- One user can place multiple orders, but each order is placed by only one user. So, this relationship is one-to-many.

2) Restaurants Table and Menu Items Table:

- A restaurant can have multiple menu items, but each menu item belongs to only one restaurant. So, this relationship is one-to-many.

3) Users Table and Cart Table:

- A user can have multiple items in their cart, but each item in the cart belongs to only one user. So, this relationship is one-to-many.

4) Restaurants Table and Cart Table:

- A restaurant can have multiple items in the cart, but each item in the cart belongs to only one restaurant. So, this relationship is one-to-many.

5) Users Table and order_condition Table:

- A user can have multiple order conditions, but each order condition is associated with only one user. So, this relationship is one-to-many.

6) Restaurants Table and order_condition Table:

- A restaurant can have multiple order conditions, but each order condition is associated with only one restaurant. So, this relationship is one-to-many.

7) Restaurants Table and order_place Table:

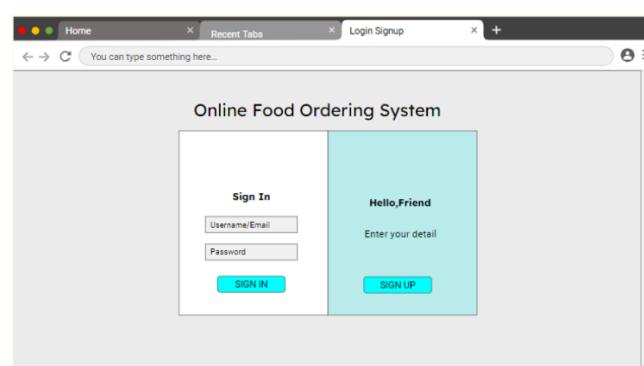
- A restaurant can receive multiple orders, but each order is placed with only one restaurant. So, this relationship is one-to-many.

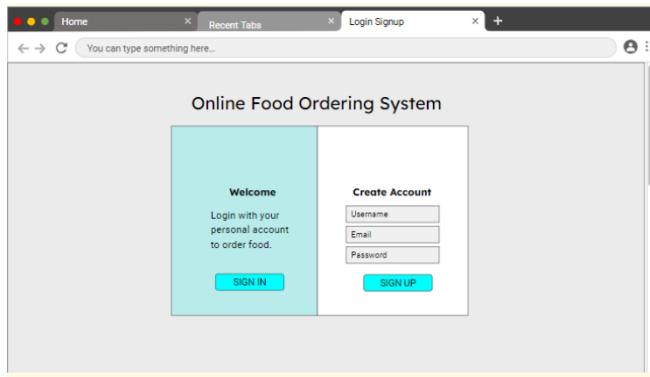
2.2.4 CONCEPTUAL USER DESIGN (WIREFRAME)

A conceptual user design, often represented in the form of a wireframe, is a visual representation or blueprint of a digital interface for our website.

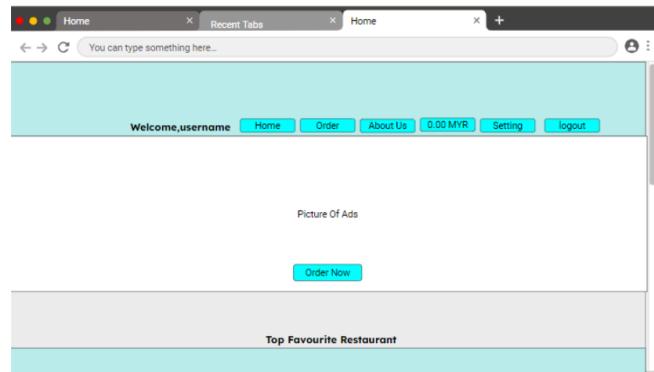
User Interface

Sign In and Sign Up Page

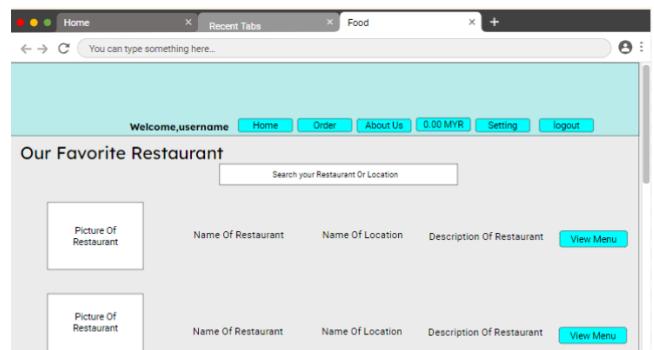




Homepage



Restaurant And Menu page

A screenshot of a web browser showing the 'Menu' page of the 'Online Food Ordering System'. The page has a light blue header with tabs for 'Home', 'Recent Tabs', and 'Menu'. Below the header is a search bar with placeholder text 'You can type something here...'. The main content area features a 'Welcome,username' message followed by a horizontal menu with buttons for 'Home', 'Recent Tabs', and 'Menu'. Below the menu is a section titled 'Our Menu' with a table showing a list of products. The table has columns for 'Image', 'Name', 'Description', 'Price', 'Status', 'Quantity', and 'Action'. Each row contains a product card with a picture, name, description, price (RM 0.00), status, quantity input field (set to 0), and an 'Add to Cart' button.

Update Profile And Change Username/Password

The image contains two screenshots of a web application interface. Both screenshots show a header with 'Home', 'Recent Tabs', 'Profile' (active tab), '0.00 MYR', 'Setting', and 'Logout'. A search bar at the top says 'You can type something here...'. The first screenshot shows a 'Welcome,username' message and a 'Update Profile' section with fields for 'Choose image' (with a 'Choose file...' button), 'Original image' (a placeholder box labeled 'Picture of User'), 'Email', 'Fullname', 'Address', and 'Address'. A 'Save' button is at the bottom. The second screenshot shows a 'Welcome,username' message and a 'Setting to change username /password' section with fields for 'Username', 'New Password', and 'Re-Type Password'. A 'Save' button is at the bottom.

Add to Cart

The image shows a 'Our Menu' section with columns for 'Image', 'Name', 'Description', 'Price', 'Status', 'Quantity', and 'Action'. Below it is a 'Cart' summary table:

Cart						
	Name	Description	Price	Status	Quantity	Action
Picture Of Product	Picture Of product	Name Of Product	20.00	2	40.00	<button>Add to Cart</button>
Picture Of Product						<button>Add to Cart</button>
Picture Of Product						<button>Add to Cart</button>

Total: RM40.00

Checkout

Checkout

The screenshot shows a web browser window titled "Checkout". The page contains a form with the following fields:

- DELIVERY FOOD COUNTRY: A dropdown menu.
- NAME: An input field.
- EMAIL ADDRESS: An input field.
- DELIVERY ADDRESS: An input field.
- PHONE NUMBER: An input field.
- FOOD ITEM: A table with columns "Item Name", "Quantity", and "Price".
- SUBTOTAL: RM0
- RMO(6% Service Tax): RM0
- RMO(Delivery Charge): RM0

At the bottom is a blue "Place Order" button.

Transaction Payment

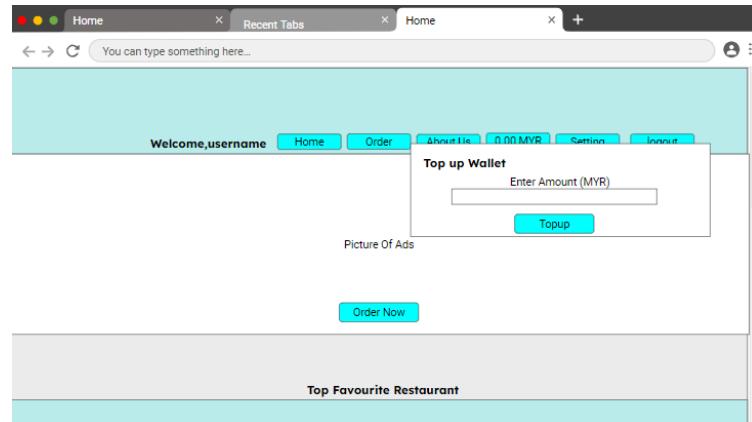
The screenshot shows a web browser window titled "Transaction". The page displays a success message:

Your Payment Was Successful
Thank you for your Payment

The screenshot shows a web browser window titled "Transaction". The page displays an error message:

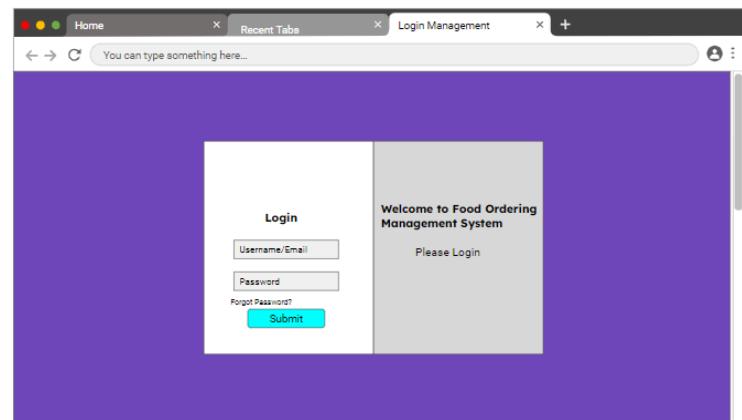
Your Payment Failed
Insufficient Funds

Top Up Wallet

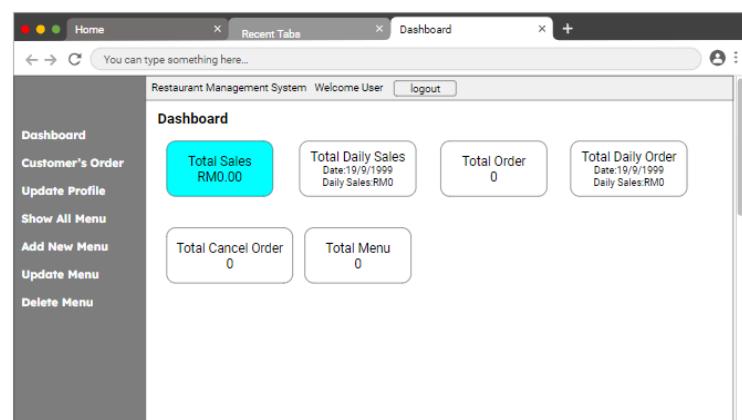


Admin Interface

Login



Dashboard



Customer's Order

A screenshot of a web-based restaurant management system. The main title bar says "Recent Tabs" and "Customers Order". The left sidebar has links for "Dashboard", "Customer's Order", "Update Profile", "Show All Menu", "Add New Menu", "Update Menu", and "Delete Menu". The main content area is titled "Customer's Order" and shows a table with one row of data:

Name	Address	Phone	Detail Order	Total Amount	Order	Date Status	Action
User	Perak	011****	Chicken	RM0.00	Pending	19/9/1999	Accept Reject

Result After Accept and Reject At User page.

A screenshot of a user's home page. The top bar shows "Recent Tabs" and "Home". The sidebar says "Welcome,username". A "Notification" box appears, containing:

Item Buy: Tealive boba Status Ordering: ACCEPTED

Order Now

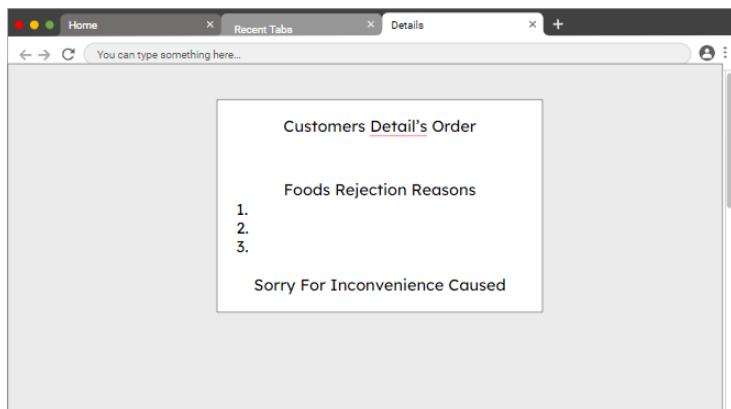
Top Favourite Restaurant

A screenshot of a user's home page. The top bar shows "Recent Tabs" and "Home". The sidebar says "Welcome,username". A "Notification" box appears, containing:

Item Buy: Tealive boba Status Ordering: REJECT

Order Now

Top Favourite Restaurant



Update Restaurant Profile

A screenshot of a web browser window titled "Home". The main content area shows a form titled "Update Restaurant Profile". The form includes fields for "Chosen File" (with "No File Chosen" selected), "Original Image", "Picture of Restaurant" (an empty input field), and "Username" (an empty input field). On the left side, there is a vertical sidebar menu with options: Dashboard, Customer's Order, Update Profile, Show All Menu, Add New Menu, Update Menu, and Delete Menu.

A screenshot of a web browser window titled "Home". The main content area shows a form titled "Update Profile". The form includes fields for "Password", "Restaurant's Name", "Description Restaurant", "Address Restaurant", "Email", and "Phone Number". At the bottom right of the form is a blue "Update Profile" button. On the left side, there is a vertical sidebar menu with options: Dashboard, Customer's Order, Update Profile, Show All Menu, Add New Menu, Update Menu, and Delete Menu.

Show All Menu

Image	Name	Price	Description
Picture Of Product	Name Of Product	RM 0.00	Description Of Product
Picture Of Product	Name Of Product	RM 0.00	Description Of Product
Picture Of Product	Name Of Product	RM 0.00	Description Of Product

Add New Menu

Restaurant Management System | Welcome User | logout

Upload Your Restaurant Food

Name Of Food

Description of Food

Price(RM)

Availability Status

Chosen File | No File Chosen

Original Image

Picture of Food

Delete Menu

Image	Name	Price	Description	Action
Picture Of Product	Name Of Product	RM 0.00	Description Of Product	<button>Delete</button>
Picture Of Product	Name Of Product	RM 0.00	Description Of Product	<button>Delete</button>
Picture Of Product	Name Of Product	RM 0.00	Description Of Product	<button>Delete</button>

Update Menu

Image	Name	Price	Description	Action
Picture Of Product	Name Of Product	RM 0.00	Description Of Product	<button>Update</button>
Picture Of Product	Name Of Product	RM 0.00	Description Of Product	<button>Update</button>
Picture Of Product	Name Of Product	RM 0.00	Description Of Product	<button>Update</button>

2.3 SYSTEM REQUIREMENT

2.3.1 HARDWARE AND SOFTWARE REQUIREMENTS

Hardware and software requirements are the essential elements needed to effectively develop a system. These requirements ensure that the system can be designed, implemented, and run efficiently.

Hardware/Software requirements for developing process:

- Desktop or Laptop Computer: Need a computer to write and execute the code.
- Internet Connection: This is required for accessing online resources, libraries, and possibly for testing our application.
- Local Database (XAMPP): XAMPP is a software package that includes Apache, MySQL, PHP, and Perl. It's used for developing web applications locally on a machine before deploying them to a live server. We don't need separate hardware for this; it's software that runs on our computer.

- Sublime Text Editor: This is a text editor used for writing your code. Alternatively, you can use any other text editor or Integrated Development Environment (IDE) that you prefer.
- Google Chrome: This is a web browser, often used for testing and debugging web applications. You might need it to view your web pages and test how they appear and function in a browser environment.

2.3.2 FUNCTIONAL REQUIREMENTS

1) User Authentication

The system must provide a secure user authentication mechanism to ensure that only authorized users can access the system and its features.

Login and Logout:

- Users should be able to log in securely using their registered email address/username and password, and log out when they finish using the system.

Session Management:

- Users should remain logged in until they choose to log out or their session expires to provide a seamless experience.

Profile Creation:

- Users should be able to create a profile with basic information such as name, contact details, delivery address, and preferred payment methods.

Automatic Logout on Password or Username Change:

- When a user initiates a change to their password or username, the system must automatically log out the user from their current session.

Multiple Login Options:

- Users should be able to log in to the system using either their registered email address or username.

2) Menu Management:

- The system should allow administrators to manage the menu by adding, editing, or removing food items.
- Each food item should include details such as name, description, price, and availability status.

3) Order Placement:

- Users should be able to search the restaurant they want, browse the menu, select food items, choose the quantity and add them to their cart.
- The system should display the number of items added to the cart prominently on the user interface.
- If the cart is empty, the system should display a message indicating that the cart is empty.
- The system should calculate the total order amount, including taxes and delivery charge.
- Users should have the option to review their order, modify quantities, and remove items before finalizing the order.
- Upon successful placement of an order, the system should automatically clear the contents of the user's cart.

4) Order Management:

- Restaurant Administrators have access to an order management interface to view and process incoming orders.
- Restaurant Administrators should be able to update the status of orders (Accepted or Reject) and communicate with users regarding order status changes.
- In the event that an order is rejected by the restaurant (e.g., due to unavailability of items, inability to fulfill the order), the system should initiate a refund process for the total amount paid by the customer.
- Upon order rejection, the system should automatically trigger the refund process and notify the customer via in-web app notification.

5) Payment Processing with eWallet:

- The system supports payment transactions through eWallet services for convenience, speed, and security.
- Before placing an order, the system should verify the user's eWallet balance to ensure it is sufficient to cover the total order amount.
- If the user's eWallet balance is insufficient, the system should notify the user and prevent the order from being placed.
- The system should display a clear message indicating the reason for the inability to place the order (insufficient balance) and provide guidance on how to add funds to the eWallet.

- No charges should be applied to the user's eWallet if the order cannot be placed due to insufficient balance.
- Users should have the option to either add funds to their eWallet or modify the order to reduce the total amount before proceeding with the checkout process.
- Once the user's eWallet balance is sufficient to cover the total order amount, they can proceed with placing the order as usual.

6) Restaurant Admin Dashboard:

- Offer a concise dashboard for restaurant administrators, featuring total sales and order statistics.
- This feature allows restaurant admins to quickly track sales performance and order metrics to inform decision-making.

7) Food's Menu Status Indicator:

- Display food's menu availability status prominently alongside each item in the menu.
- Items with sufficient stock should be indicated with a green color, indicating availability.
- Items with low stock levels should be highlighted with a red color to alert users.

8) Informative Notification:

- When the order is accepted by the restaurant, the customer receives a notification confirming the acceptance of their order. This notification includes the receipt detailing the items ordered, total cost, estimated delivery time, and any other relevant information.

- If the restaurant rejects the order for any reason (e.g., out of stock items, unable to fulfill the order), the customer receives a notification indicating the rejection. This notification includes details explaining why the order was rejected, such as specific items that are unavailable or any other relevant information provided by the restaurant.

3.0 RESULT

3.1 In PhpMyAdmin, there exists a database named "taste-byte" with six tables: Cart, Menu_item, order_condition, order_place, restaurant, and users.

Table	Action	Rows	Type	Collation	Size	Overhead
cart		54	InnoDB	utf8mb4_general_ci	64.0 KiB	-
menu_items		36	InnoDB	utf8mb4_general_ci	32.0 KiB	-
order_condition		6	InnoDB	utf8mb4_general_ci	48.0 KiB	-
order_place		76	InnoDB	utf8mb4_general_ci	48.0 KiB	-
restaurants		5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
users		3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
6 tables	Sum	180	InnoDB	utf8mb4_general_ci	224.0 KiB	0 B

3.2 The "cart" table contains several fields, including cart_id, user_id, restaurant_id, item_id, quantity, total_cost, and status.

		cart_id	user_id	restaurant_id	item_id	quantity	totalcost	status
<input type="checkbox"/>		179	7	1	8	1	15.00	DONE ORDER
<input type="checkbox"/>		180	7	1	9	1	27.00	DONE ORDER
<input type="checkbox"/>		181	7	1	13	1	32.00	DONE ORDER
<input type="checkbox"/>		182	7	1	14	1	6.00	DONE ORDER
<input type="checkbox"/>		190	7	1	8	1	15.00	DONE ORDER

3.3 The "menu_item" table includes various fields, such as item_id, restaurant_id, name, description, price, availability_status, menu_visible, and image_file.

The screenshot shows two tables in MySQL Workbench:

	item_id	restaurant_id	name	description	price	availability_status	menu_visible	image_file
1	4	11	Chocolate Chip Walnut cake	Cocoa sponge with layers of chocolate cream filled...	17.00	Available	1	menu-images/choc chip walnut.jpg
2	8	1	Cheese Crème Strawberry Frappé	Get ready for a berry cheesy blast! A playful blend...	15.00	Available	1	menu-images/Cheese-Crème-Strawberry-Frappé1.jpg
3	9	1	Icy Spanish Latte	Combining the rich flavour of Spanish Latte with a...	13.00	Available	1	menu-images/Icy Spanish Latte.jpg
4	12	1	Japanese Matcha Frappé	Cool down with our ice blended Frappé made with pr...	14.90	Low Stock	1	menu-images/jap-matcha-frappe.jpg
5	13	1	Iced Buttercrème Spanish Latte	A touch of Buttercrème adds another layer of ind...	13.00	Available	1	menu-images/Iced-Buttercreme-Spanish-Latte.jpg
6	14	1	Burnt Cheese Cake	Dont be intimidated by its burnt top because its t...	14.00	Available	1	menu-images/burnt cheese cake.jpg
7	15	1	Roti Canai	Fluffy Roti Canai	2.00	Available	0	menu-images/Roti-Canai-3.jpg
8	16	13	Kennys Quarter Meal	Rotisserie-roasted 1/4 Chicken with 3 side dishes ...	27.00	Available	1	menu-images/kenny quater meal.jpg
9	17	13	Kennys Half Meal	Rotisserie-roasted 1/2 chicken with 3 side dishes ...	41.00	Available	1	menu-images/kenny half meal.png
10	18	13	Kenny Chicken & Soup Meal	Rotisserie-roasted 1/4 chicken Aromatic rice 1 Ken...	29.00	Available	1	menu-images/Kenny Chicken & Soup Meal.png
11	19	13	Trio Meal	Rotisserie-roasted 1/4 chicken,4-pcs of beef meatb...	42.00	Available	1	menu-images/Trio Meal.jpg
12	20	13	kennys Family Meal	Rotisserie-roasted whole chicken with 3 bowls of s...	115.00	Available	1	menu-images/kenny family meal.png

	item_id	restaurant_id	name	description	price	availability_status	menu_visible	image_file
1	21	13	2-pcs Kennys Ayam Goreng	Tender,juicy chicken cooked to golden perfection.	17.00	Available	1	menu-images/2pcs_kennychicken.jpeg
2	22	13	6-pcs Kennys Ayam Goreng	Tender,juicy chicken cooked to golden perfection.	49.00	Available	1	menu-images/6pcs_kennychicken.png
3	23	12	Bang Bang Chocolate with Brown Sugar Warm Pearls	Rich coco served with soft & chewy brown sugar war...	8.00	Available	1	menu-images/Bang Bang Chocolate with Brown Sugar W...
4	24	12	Bang Bang Fresh Milk with Brown Sugar Warm Pearls	Creamy fresh milk served with soft & chewy brown s...	8.00	Available	1	menu-images/Bang Bang Fresh Milk with Brown Sugar ...
5	25	12	Caramel Macchiato	Tealive signature blend of 100% premium Arabica co...	10.00	Available	1	menu-images/Caramel Macchiato.jpg
6	26	12	Coco Oreo Smoothie	Icy blend of creamy chocolate topped with crunchy ...	10.00	Available	1	menu-images/Coco Oreo Smoothie.jpg
7	27	12	Bang Bang Nishio Matcha with Brown Sugar Warm Pear...	Authentic Japanese green tea imported from Nishio,...	11.00	Available	1	menu-images/Bang Bang Nishio Matcha with Brown Sug...
8	28	12	Belgian Lotus Biscoff Coffee	Tealive signature blend of 100% premium Arabica co...	15.00	Available	1	menu-images/Belgian Lotus Biscoff Coffee.jpg
9	29	12	Hazelnut Latte	With 100% premium Arabica coffee with a twist of h...	9.00	Available	1	menu-images/Hazelnut Latte.jpg
10	30	1	Summer Berries Cheese Cake	Want to feel the warmth and sweetness of summer in...	14.50	Available	1	menu-images/summerberries.cake.jpg
11	31	1	ZUS Gula Melaka	A beautiful marriage of Espresso, Gula Melaka, Pan...	11.00	Available	1	menu-images/zus_gula_melaka.jpg
12	32	11	Moist Chocolate Cake	Moist chocolate cake baked with smooth coffee fill...	17.00	Available	1	menu-images/Moist cake choc.jpg
13	33	11	Milo Cheese Cake	A tribute to every famlys favourite chocolate dri...	20.00	Available	1	menu-images/milo cake.jpg

3.4 The "order_condition" table comprises different fields, including order_condition_id, restaurant_id, user_id, detail_order, total_amount, status, sys_visible, and order_accept_date.

	<input type="checkbox"/> Edit Copy	order_condition_id	restaurant_id	user_id	details_order	total_amount	status	sys_visible	order_accept_date
<input type="checkbox"/>	Copy	20	1	7	Cheese Crème Strawberry Frappé - x1 - RM 15.00 ...	26.00	ACCEPT	0	2024-02-06 02:25:00
<input type="checkbox"/>	Copy	21	1	7	Icy Spanish Latte - x1 - RM 13.00	13.00	ACCEPT	0	2024-02-06 05:31:47
<input type="checkbox"/>	Copy	22	12	9	Bang Bang Chocolate with Brown Sugar Warm Pearls -...	8.00	REJECT	0	2024-02-06 19:10:33
<input type="checkbox"/>	Copy	23	12	9	Bang Bang Chocolate with Brown Sugar Warm Pearls -...	16.00	ACCEPT	0	2024-02-06 19:17:16
<input type="checkbox"/>	Copy	24	12	9	Bang Bang Chocolate with Brown Sugar Warm Pearls -...	16.00	REJECT	0	2024-02-06 19:22:39
<input type="checkbox"/>	Copy	25	12	9	Bang Bang Chocolate with Brown Sugar Warm Pearls -...	8.00	REJECT	0	2024-02-06 23:12:43

3.5 The "order_place" table contains various fields, including order_id, user_id, restaurant_id, name, address, email, phone, item_name, quantity, price, total_price, status, and order_date.

	<input type="checkbox"/> Edit Copy	order_id	user_id	restaurant_id	name	address	email	phone	item_name	quantity	price	total_price	status	order_date
<input type="checkbox"/>	Copy	59	6	1	Nurun Najihah	Jejawi, Kangarr	nurunnajihah2311@gmail.com	1114324687	Nasi Goreng Kampung Pedas	3	6.00	18.00	DONE DECIDE	2024-02-04 00:28:13
<input type="checkbox"/>	Copy	60	6	1	Nurun Najihah	Jejawi, Kangarr	nurunnajihah2311@gmail.com	1114324687	Rendang Daging	1	32.00	47.00	DONE DECIDE	2024-02-04 00:31:03
<input type="checkbox"/>	Copy	61	6	1	Nurun Najihah	Jejawi, Kangarr	nurunnajihah2311@gmail.com	1114324687	Burger Monster Chicken	1	15.00	47.00	DONE DECIDE	2024-02-04 00:31:03
<input type="checkbox"/>	Copy	62	7	1	Irfan	Puncak Alam	irfan@gmail.com	1114324687	Nasi Goreng Kampung Pedas	1	6.00	6.00	DONE DECIDE	2024-02-04 00:44:52
<input type="checkbox"/>	Copy	63	7	1	Irfan	Puncak Alam	irfan@gmail.com	1114324687	Nasi Goreng Kampung Pedas	1	6.00	264.00	DONE DECIDE	2024-02-04 02:31:49
<input type="checkbox"/>	Copy	64	7	1	Irfan	Puncak Alam	irfan@gmail.com	1114324687	Burger Monster Chicken	3	15.00	264.00	DONE DECIDE	2024-02-04 02:31:49

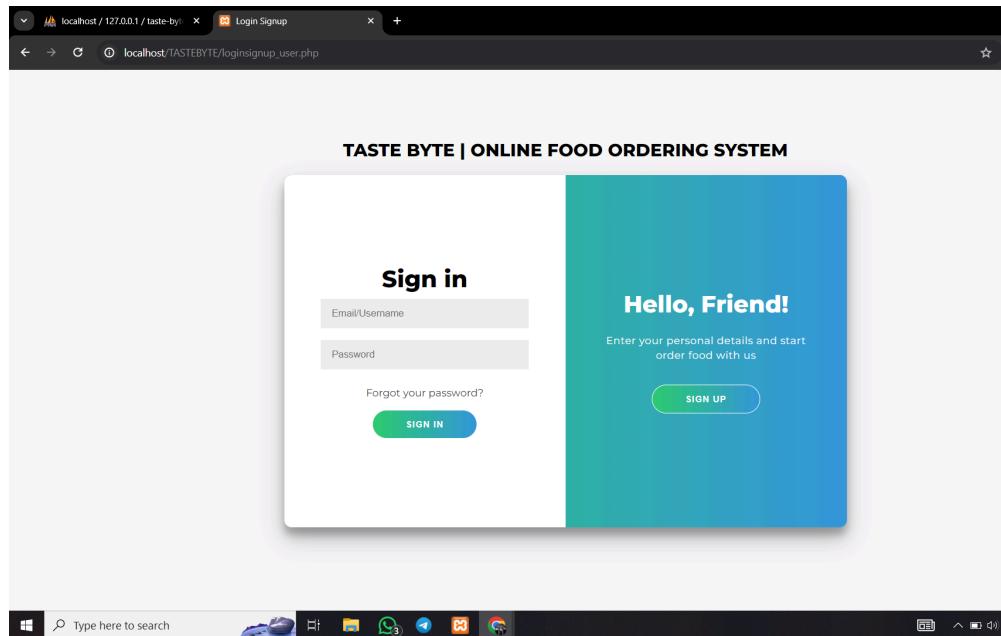
3.6 The "restaurant" table comprises various fields, including restaurant_id, username, password, name, description, address, email, phone_number, and res_image.

	restaurant_id	username	password	name	description	address	email	phone_number	res_image
Delete	1	John	\$2y\$10\$SKXLK2b9n3sKCSA8g7CbBsgUcfx4rTKtFKcPzCneo...	Zus Coffee	a Necessity not a Luxury	Setia City Mall, Selangor	zusofficial@gmail.com	0333933355	restaurant-in
>Delete	11	gaza	\$2y\$10\$2HKLJgjSAuaHjApJEwRs.iXUclGY4SG79AdOwqn3hR...	Secret Recipe	Dessert World best	Aeon Kinta City Ipoh, Perak	SecretRecipe@gmail.com	083453556	restaurant-in
>Delete	12	Chong	\$2y\$10\$2HKLJgjSAuaHjApJEwRs.iXUclGY4SG79AdOwqn3hR...	Tealive	Always More Than Tea	Setia City Mall, Selangor	chong@gmail.com	037273723823	restaurant-in
>Delete	13	ahmad	\$2y\$10\$2HKLJgjSAuaHjApJEwRs.iXUclGY4SG79AdOwqn3hR...	Kenny Rogers Roasters	Deliciously Healthy, less fat, less salt, less ca...	Aeon Mall Klebang,Ipoh,Perak	ahmad@gmail.com	0116151353	restaurant-in
>Delete	14	Ryan	\$2y\$10\$2HKLJgjSAuaHjApJEwRs.iXUclGY4SG79AdOwqn3hR...	Pizza Hut	No one outpizzas the hut.	Aeon Mall Klebang,Ipoh,Perak	PizzaHutofficial@gmail.com	0145677890	restaurant-images/294...

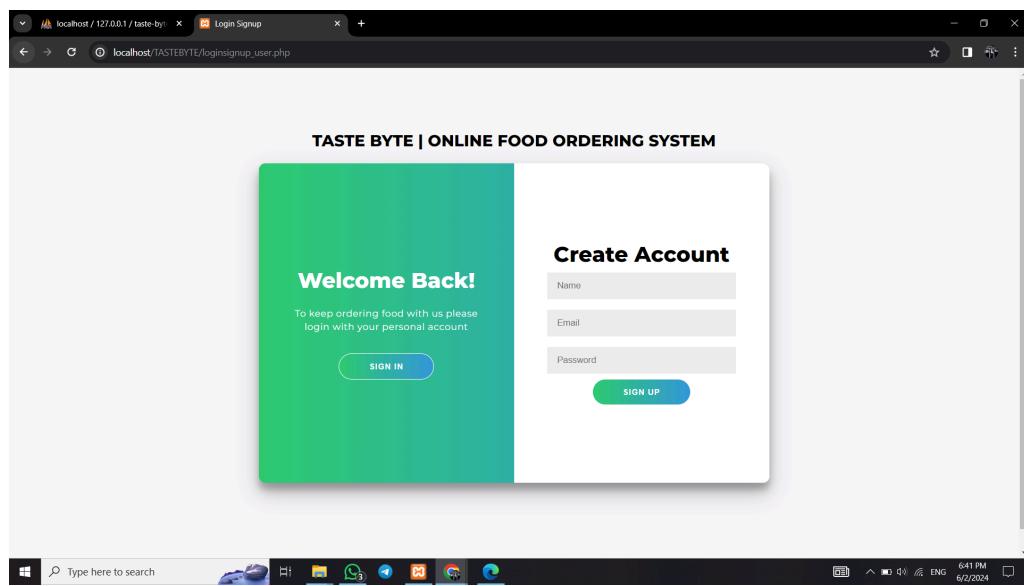
3.7 The "users" table contains fields related to user_id, username, password, email, full_name, address, phone_number, image_user, and wallet_balance.

	user_id	username	password	email	full_name	address	phone_number	img_user
>Delete	6	Jiah	\$2y\$10\$0lRQ/guAJcEkf9H066N8eejfYz7SZXpWo1sf5DYKk90...	nurunnajihah2311@gmail.com	Nurun Najihah	Jejawi, Perlis	01114324687	ADMIN/user-images/9131529.png
>Delete	7	Irfan	\$2y\$10\$z5ZW9rdIKu/nZcvI/dhFO0StBjpyumO4uirPHM.b8g...	irfan@gmail.com	Irfan	Puncak Alam, Selangor	01114324687	ADMIN/user-images/9131529.png
>Delete	9	AIRIS	\$2y\$10\$aq8AUmmqMmeRd.B4UT6i2exlKTxijTDOCHSqkYwGos...	rafiqulhadif09@gmail.com	Rafiqul Irfan bin Mohd Aidl	Kampung Aur, Telong 16300 Selangor	0123456789	ADMIN/user-images/WIN_20220623_13_11_25_P...

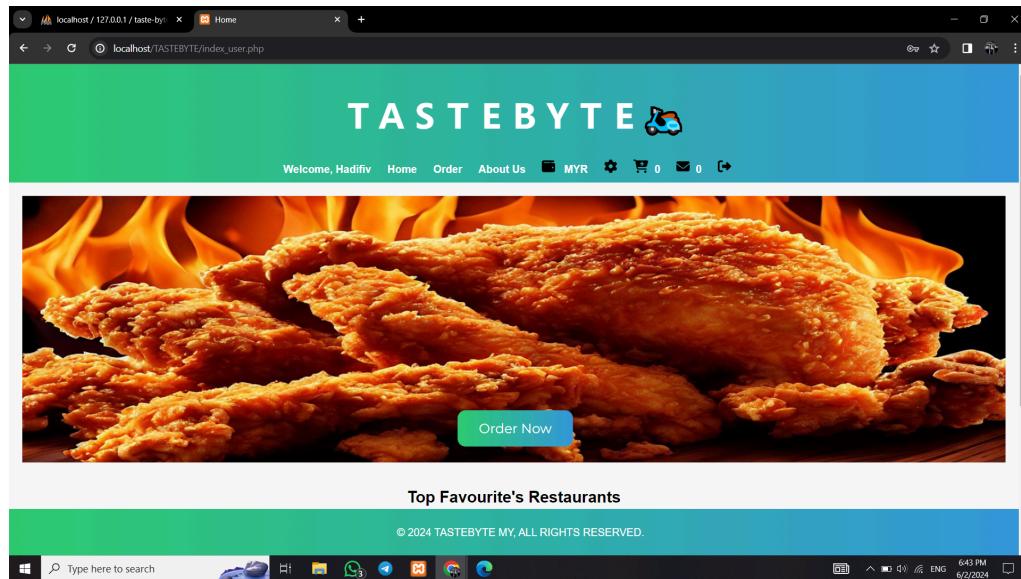
3.8 Online Food Ordering System User Sign in Page



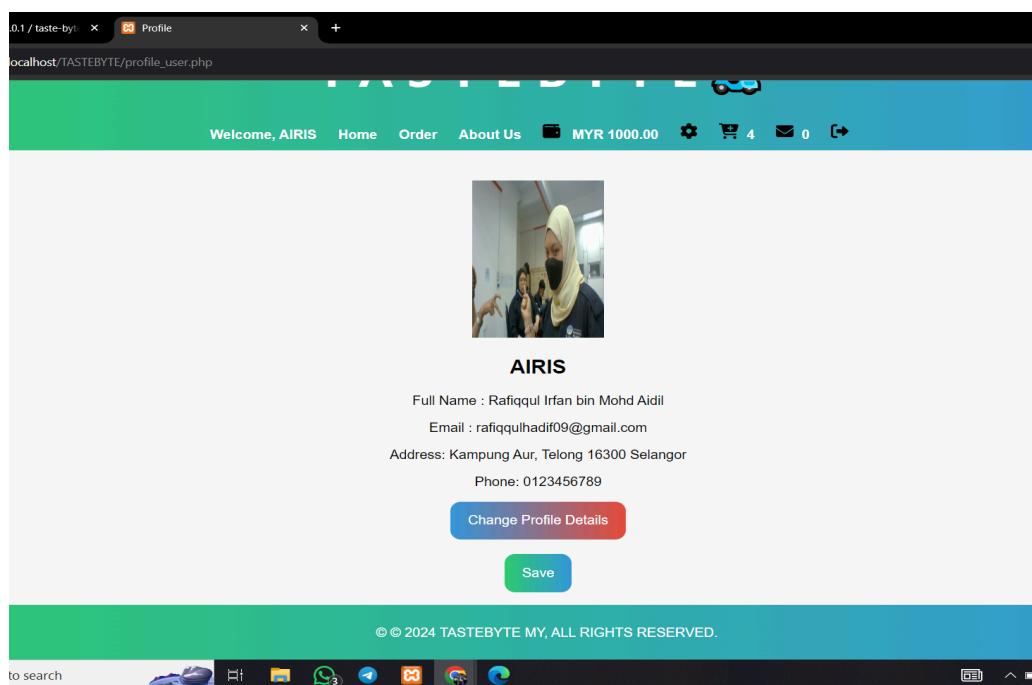
3.9 Online Food Ordering System New User Sign Up



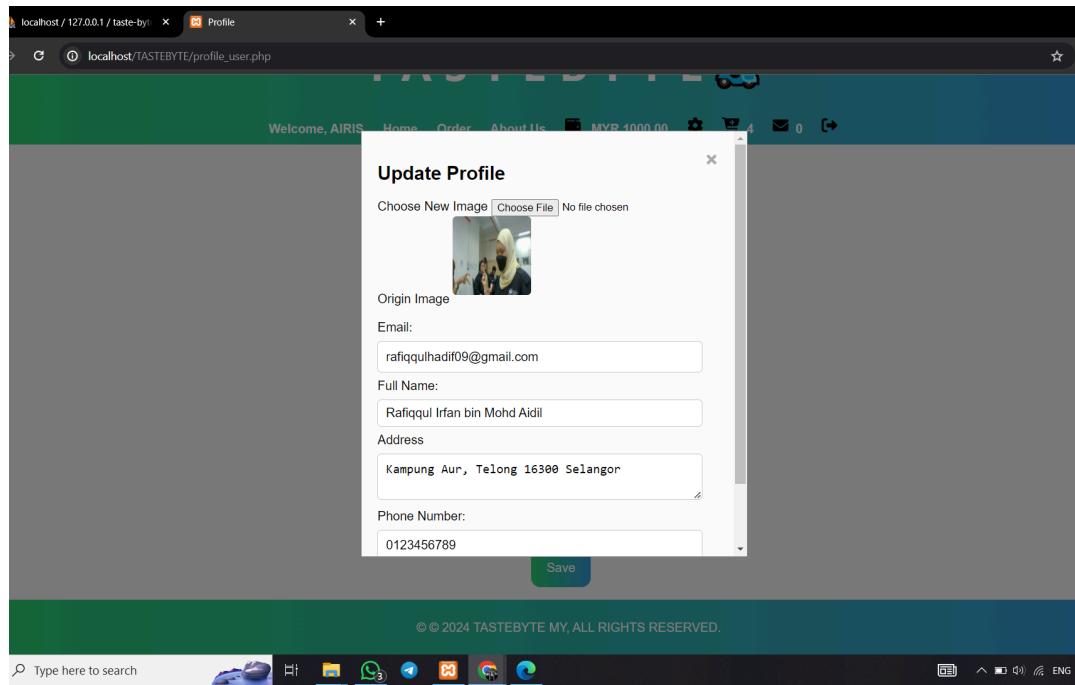
3.10 Online Food Ordering System User Home Page



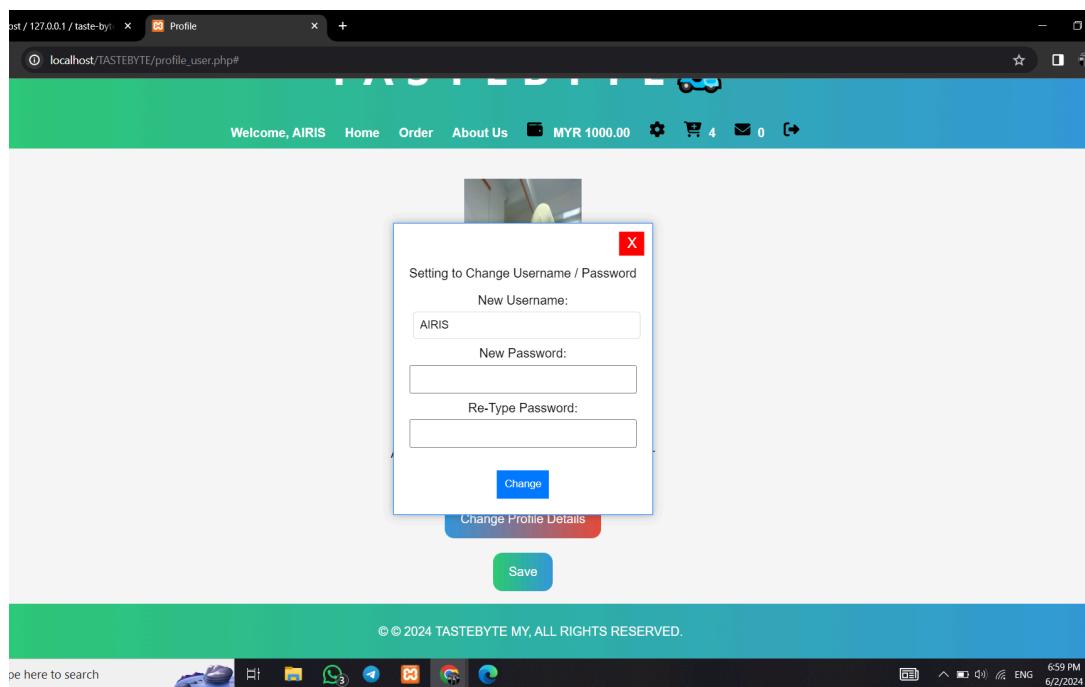
3.11 TasteByte User Information Setting Page



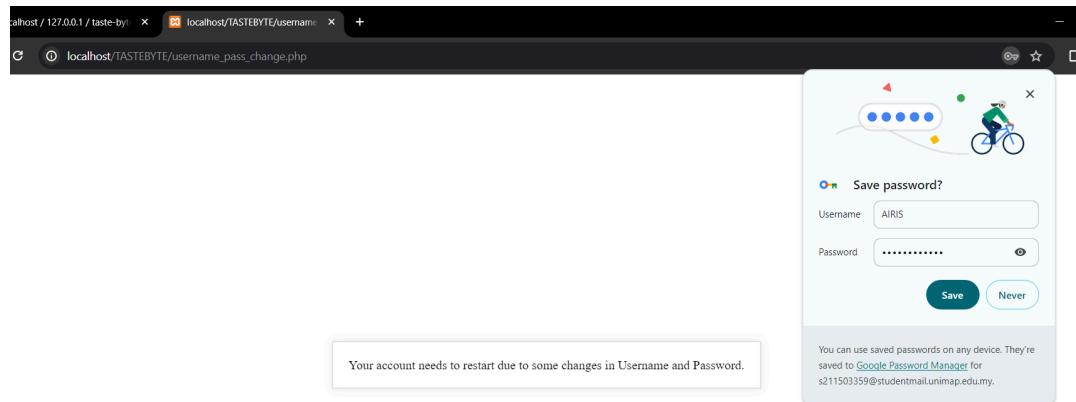
3.12 Food Ordering System User Profile Update



3.13 Food Ordering System User Password/Username Setting



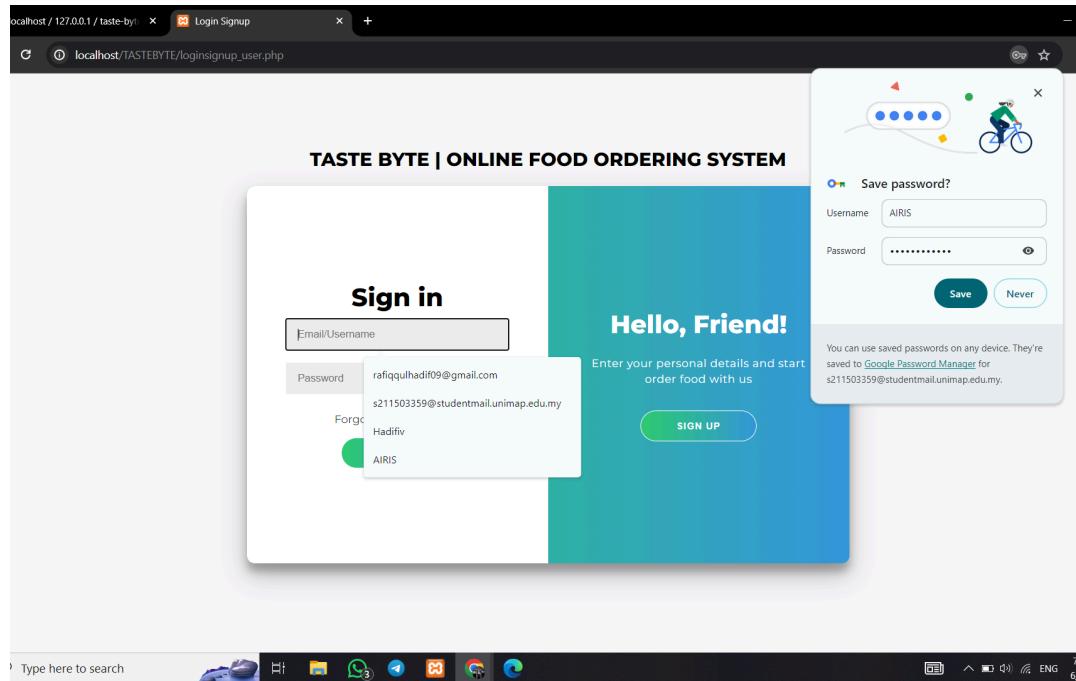
3.14 Page Restart After Password/Username Changed



Your account needs to restart due to some changes in Username and Password.



3.15 Window Pop up Username Sign in History



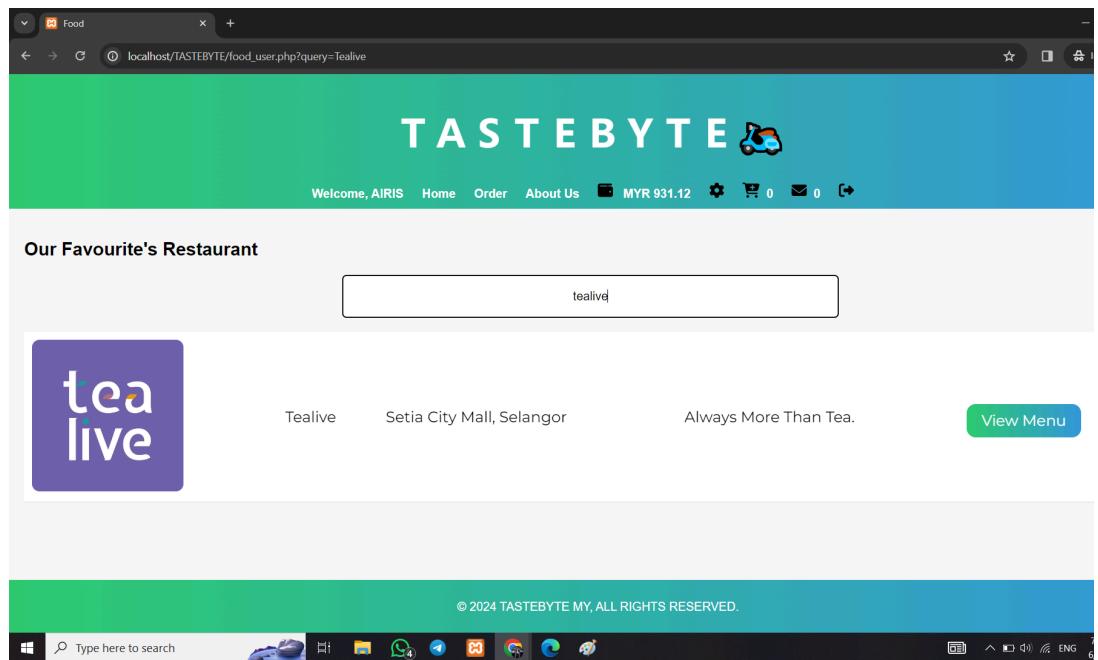
3.16 Restaurant Option Page for Food Ordering System

The screenshot shows a web browser window for the 'TASTE BYTE' food ordering system. The header includes a logo, the text 'TASTE BYTE', and a small delivery truck icon. Navigation links include 'Welcome, Hadifiv', 'Home', 'Order', 'About Us', 'MYR', and a shopping cart icon showing '0'. A search bar at the top says 'Search your restaurant name and location'. Below it, a card for 'Zus Coffee' is displayed, featuring its logo, name, address ('Setia City Mall, Selangor'), and slogan ('a Necessity not a Luxury'). A green button labeled 'View Menu' is on the right. A red banner with the word 'Secret' is visible above the card. The footer contains a copyright notice: '© 2024 TASTE BYTE MY, ALL RIGHTS RESERVED.' and a Windows taskbar at the bottom.

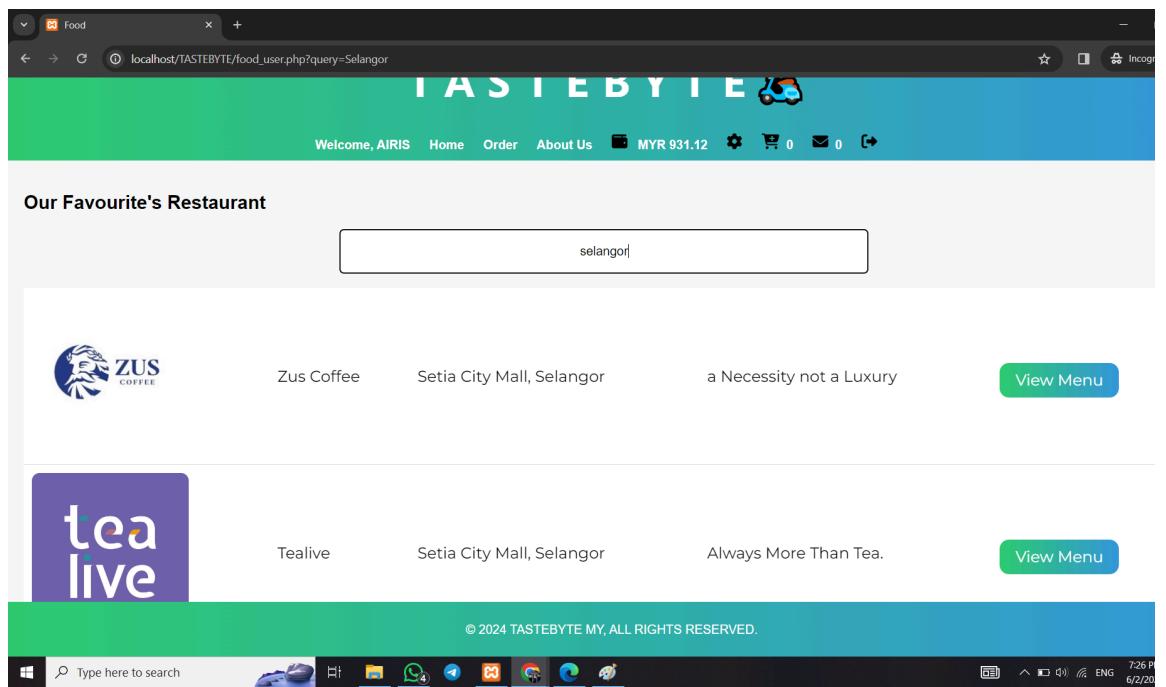
3.17 Expanded Variety of Restaurant Options.

The screenshot shows a web browser window for the 'TASTE BYTE' food ordering system displaying three restaurant options. The first card is for 'Secret Recipe', showing its logo, name, address ('Aeon Kinta City ,Ipoh, Perak'), and slogan ('Dessert World best'). A green 'View Menu' button is on the right. The second card is for 'Tealive', showing its logo, name, address ('Setia City Mall, Selangor'), and slogan ('Always More Than Tea.'), also with a green 'View Menu' button. The third card is for 'Kenny Rogers Roasters', showing its logo, name, address ('Aeon Mall Klebang,Ipoh,Perak'), and slogan ('Deliciously Healthy,less fat...less salt...less calories.'), also with a green 'View Menu' button. A green banner with the word 'Secret' is visible above the cards. The footer contains a copyright notice: '© 2024 TASTE BYTE MY, ALL RIGHTS RESERVED.' and a Windows taskbar at the bottom.

3.18 Search Feature for Locating Available Restaurants.



3.19 Locate Nearby Restaurants with the Search Function.



3.20 Company Information Page for the Food Ordering System.

The screenshot shows a web browser window for the TASTEBYTE food ordering system. The title bar reads "localhost / 127.0.0.1 / taste-byi" and "Home". The page has a green header with the TASTEBYTE logo and a delivery scooter icon. The main content area is titled "About Us" and contains text about the company's mission to provide convenient, enjoyable, and memorable dining experiences. It also includes sections for "Our Mission", "Why Choose TASTEBYTE?", and "Contact Us". A footer at the bottom of the page includes a search bar, a copyright notice ("© 2024 TASTEBYTE MY, ALL RIGHTS RESERVED."), and a Windows taskbar at the bottom.

3.21 Restaurant Menu Page featuring Available Food Options.

The screenshot shows a web browser window for the TASTEBYTE restaurant menu. The title bar reads "localhost / 127.0.0.1 / taste-byi" and "Menu". The page has a green header with the TASTEBYTE logo. The main content area is titled "Our Menu" and displays a table of food items. The table columns are: Food Image, Name, Description, Price, Status, Quantity, and Action. Three items are listed:

Food Image	Name	Description	Price	Status	Quantity	Action
	Bang Bang Chocolate with Brown Sugar Warm Pearls	Rich coco served with soft & chewy brown sugar warm pearls.	RM 8.00	Available	<input type="button" value="-"/> 0 <input type="button" value="+"/>	<button>Add to Cart</button>
	Bang Bang Fresh Milk with Brown Sugar Warm Pearls	Creamy fresh milk served with soft & chewy brown sugar warm pearls.	RM 8.00	Available	<input type="button" value="-"/> 0 <input type="button" value="+"/>	<button>Add to Cart</button>
	Caramel Macchiato	Tealive signature blend of 100% premium	RM	Available	<input type="button" value="-"/> 0 <input type="button" value="+"/>	<button>Add to Cart</button>

A footer at the bottom of the page includes a search bar, a copyright notice ("© 2024 TASTEBYTE MY, ALL RIGHTS RESERVED."), and a Windows taskbar at the bottom.

3.22 Low Stock Notification for Available Products.

Name	Description	Price	Status	Quantity	Action
Icy Spanish Latté	Combining the rich flavour of Spanish Latté with a refreshing icy twist, it's like a cool party in a cup. Say Hola! to the perfect way to refresh!	RM 13.00	Available	0	Add to Cart
Japanese Matcha Frappé	Cool down with our ice blended Frappé made with premium Japanese Matcha Powder and topped with whipped cream for that decadent touch.	RM 14.90	Low Stock	0	Add to Cart
Iced Buttercrème Spanish Latté	A touch of Buttercrème adds another a layer of indulgence to everyone favourite Spanish Latté! The perfect coffee choice on any day.	RM 13.00	Available	0	Add to Cart

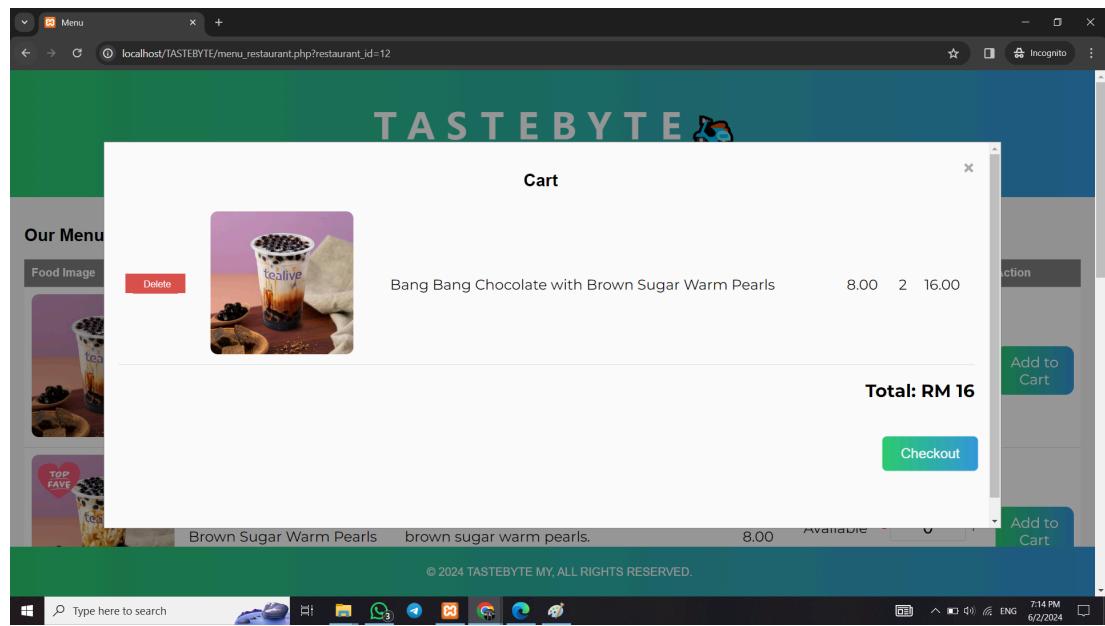
© 2024 TASTEBYTE MY, ALL RIGHTS RESERVED.

3.23 Quantity Control Function for Food Ordering.

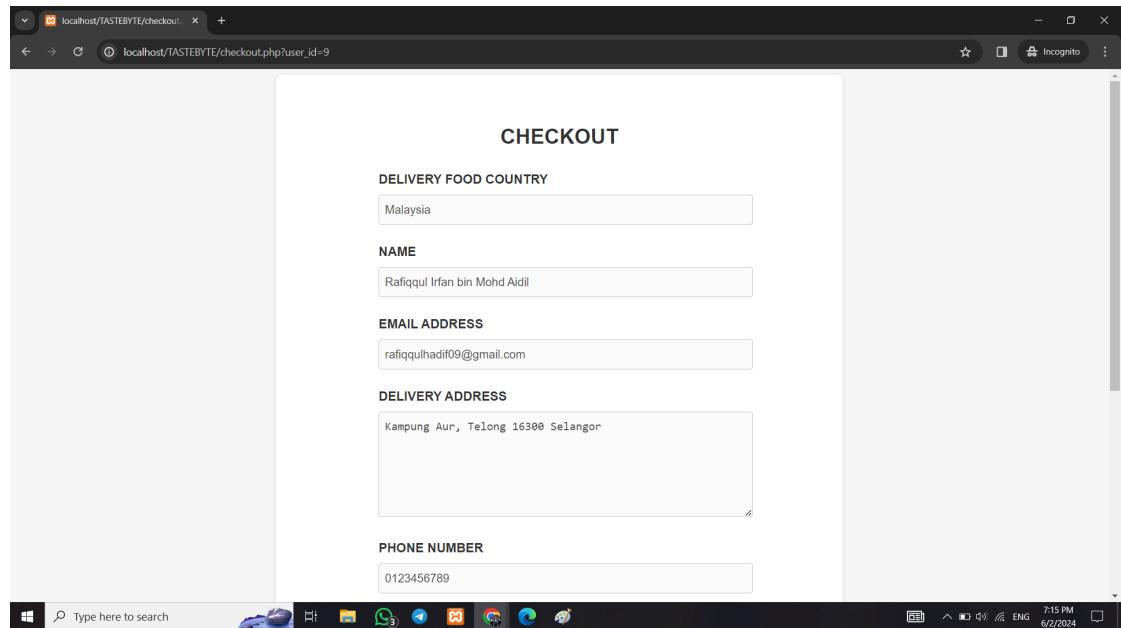
Food Image	Name	Description	Price	Status	Quantity	Action
	Bang Bang Chocolate with Brown Sugar Warm Pearls	Rich coco served with soft & chewy brown sugar warm pearls.	RM 8.00	Available	1	Add to Cart
	Bang Bang Fresh Milk with Brown Sugar Warm Pearls	Creamy fresh milk served with soft & chewy brown sugar warm pearls.	RM 8.00	Available	2	Add to Cart
	Caramel Macchiato	Tealive signature blend of 100% premium Arabica coffee.	RM 10.00	Available	3	Add to Cart

© 2024 TASTEBYTE MY, ALL RIGHTS RESERVED.

3.24 Add Selected Menu Items to Cart Function.



3.25 Customer Information for Food Delivery Service.



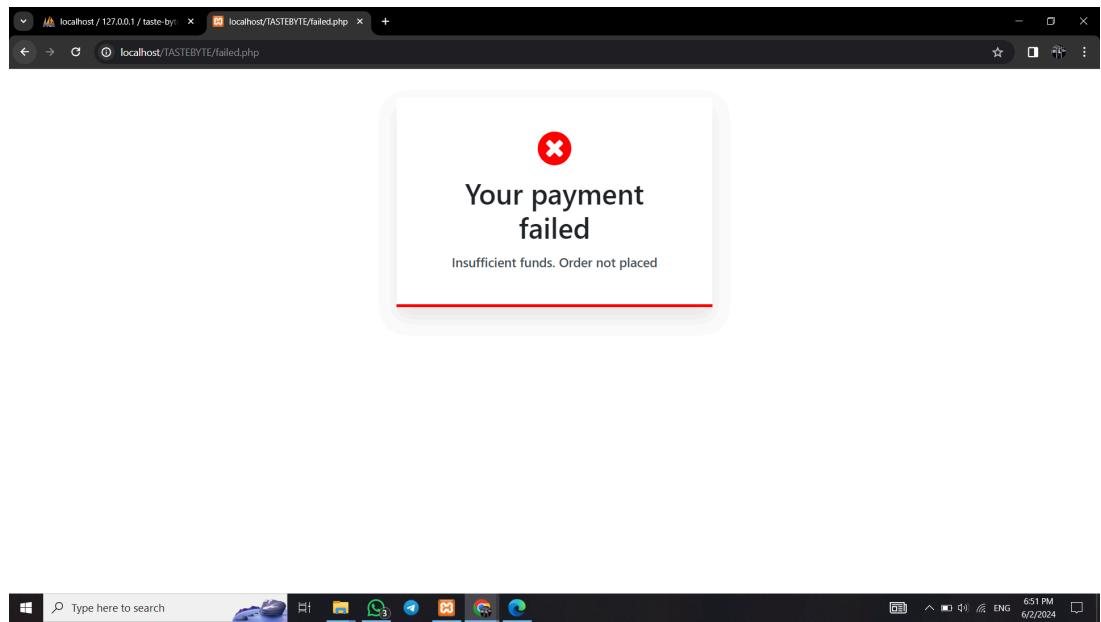
3.26 Confirmation Function for Placing Orders.

The screenshot shows a web browser window with the URL `localhost/TASTEBYTE/checkout.php?user_id=9`. The page displays a form for placing an order. At the top, there is a text input field containing the address: "Kampung Aur, Telong 16300 Selangor". Below this is a "PHONE NUMBER" input field containing "0123456789". A "FOOD ITEM" section contains a table with two items:

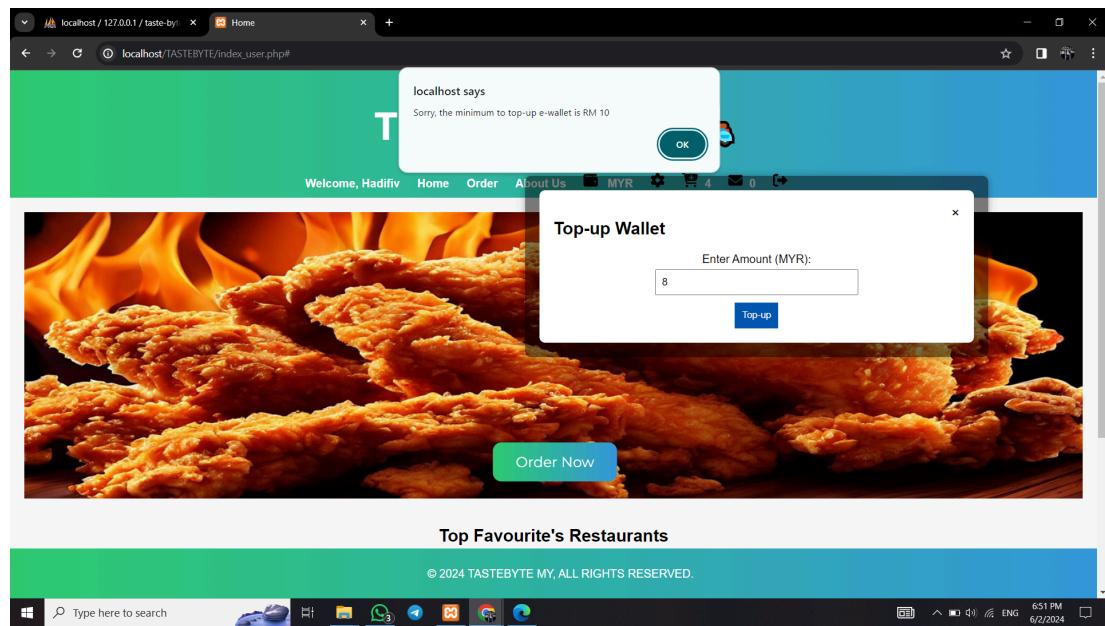
Item Name	Quantity	Price
Bang Bang Chocolate with Brown Sugar	2	RM 8.00
Warm Pearls		

Below the table, the "SUBTOTAL" is listed as "RM 16". To the right, it shows "RM 0.96 (6% Service Tax)" and "RM 4.50 (Delivery Charge)". The "TOTAL TO PAY" is "RM 21.46". At the bottom is a large green button labeled "Place Order".

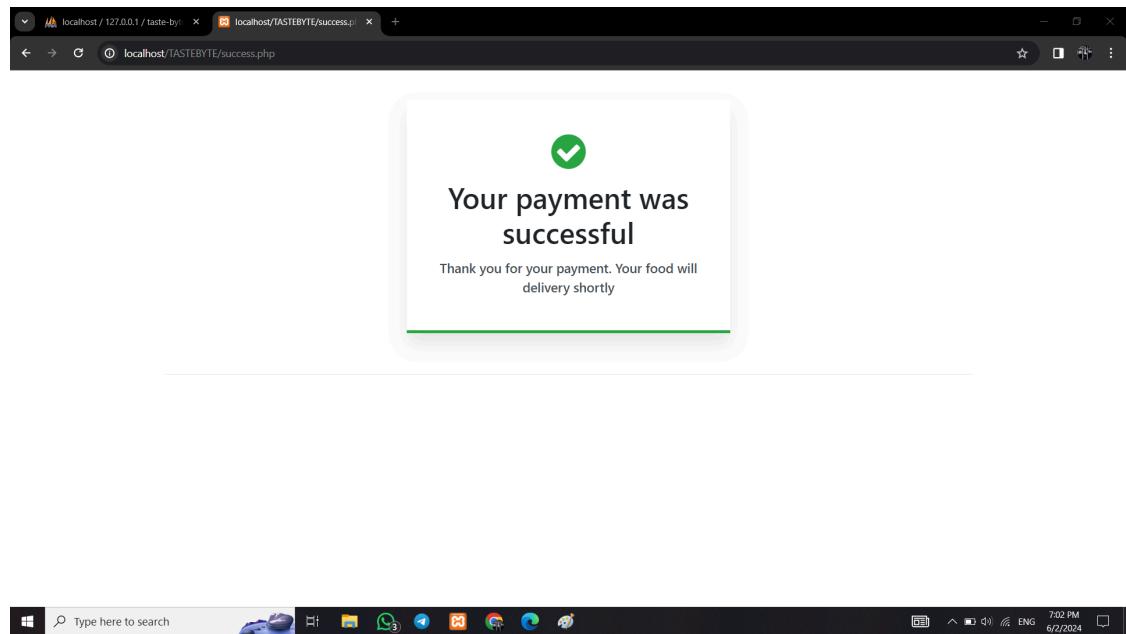
3.27 Insufficient Funds Result in Payment Failure.



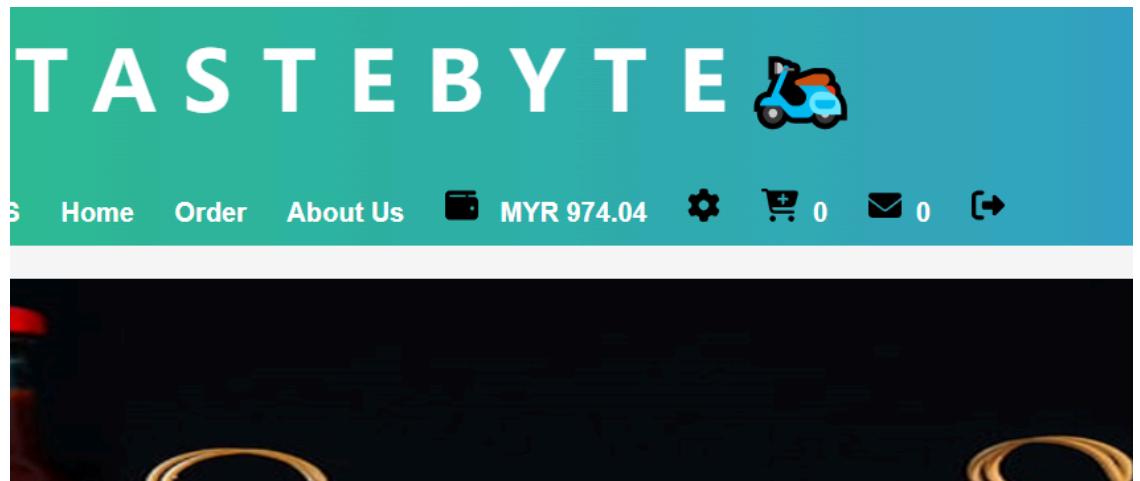
3.28 The minimum recharge amount is RM10.00.



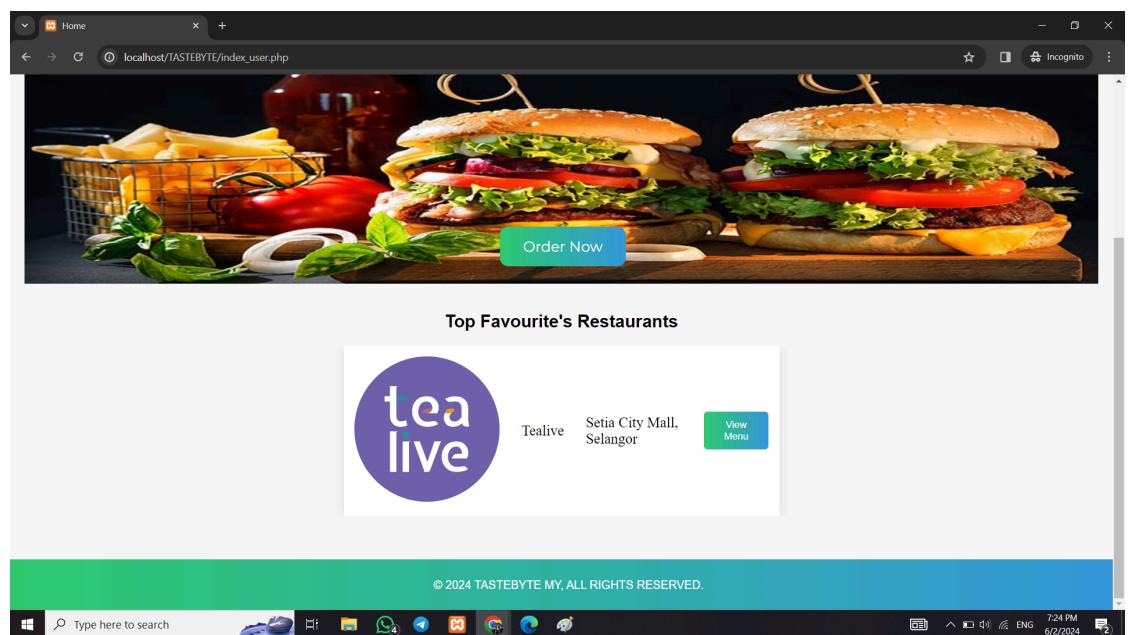
3.29 Adequate funds for a successful payment.



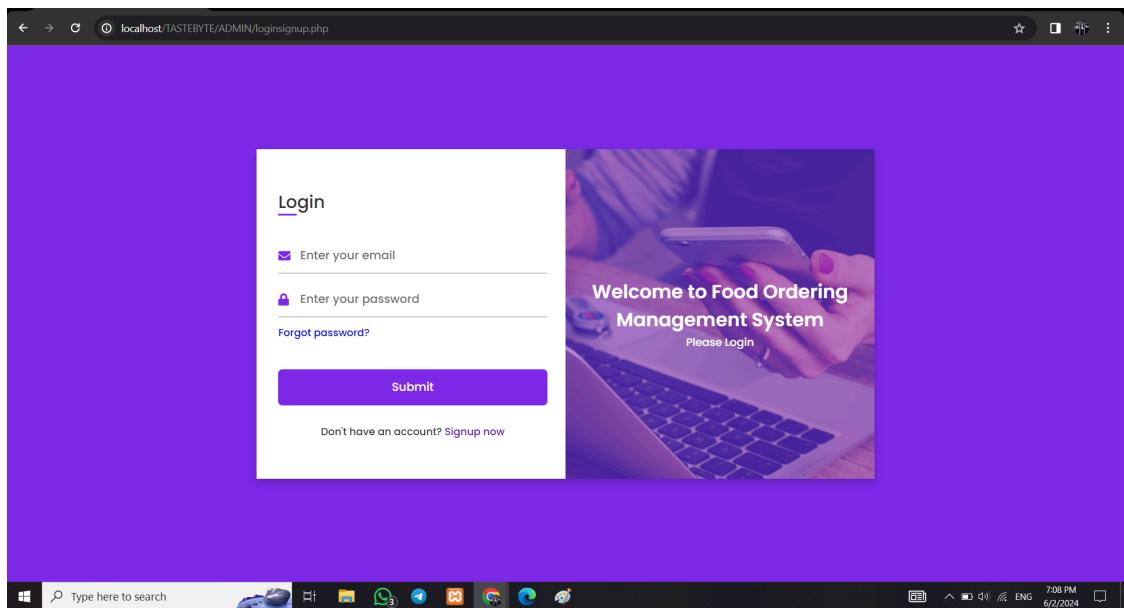
3.30 Display Total Amount on the Homepage.



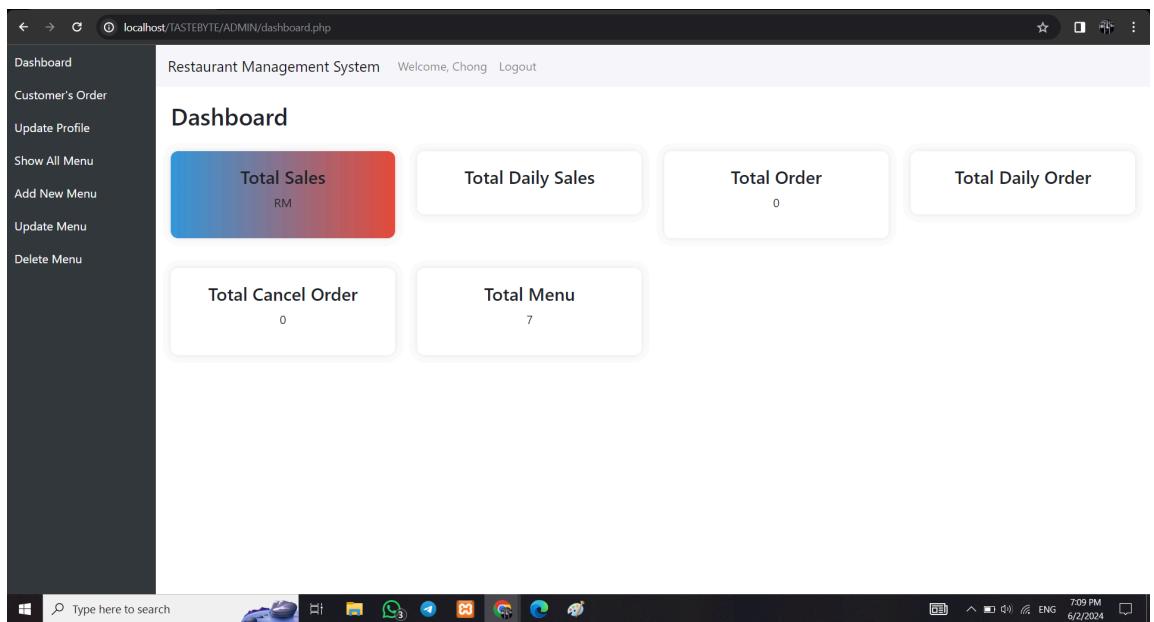
3.31 Displaying User's Preferred Restaurant Selections.



3.32 Food Ordering System Admin Login Page



3.33 Admin Management System Page



3.34 Admin Order Notification Info Page

The screenshot shows a web browser window for the 'Restaurant Management System' on the 'customer.order.php' page. The left sidebar has links for Dashboard, Customer's Order, Update Profile, Show All Menu, Add New Menu, Update Menu, and Delete Menu. The main content area is titled 'Customer's Order' and displays a table with one row of data. The table columns are Name, Address, Phone, Details Order, Total Amount, Order Date, Status, and Action. The data in the table is:

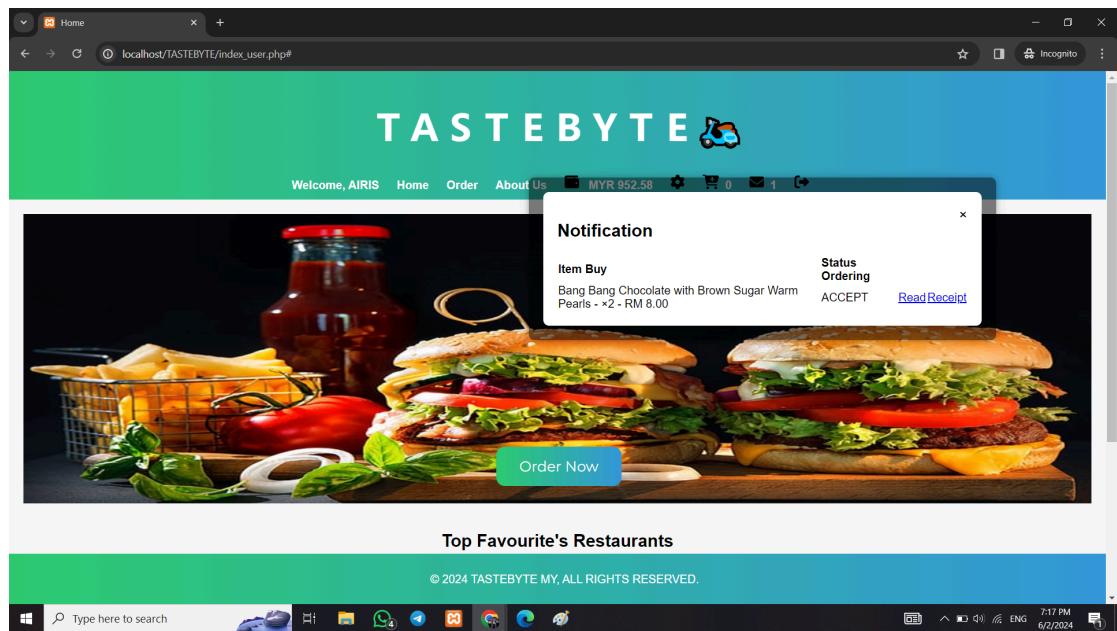
Name	Address	Phone	Details Order	Total Amount	Order Date	Status	Action
Rafiqul Irfan bin Mohd Aidil	Kampung Aur, Telong 16300 Selangor	123456789	Bang Bang Chocolate with Brown Sugar Warm Pearls - x2 - RM 8.00	RM 16.00	2024-02-06 19:15:58	Pending	<button>Accept</button> <button>Reject</button>

3.35 Admin Dashboard

The screenshot shows a web browser window for the 'Restaurant Management System' on the 'dashboard.php' page. The left sidebar has the same set of links as the previous page. The main content area is titled 'Dashboard' and features five cards with summary data:

- Total Sales**: RM 16.00
- Total Daily Sales**: Date: 2024-02-06, Daily Sales: RM 16.00
- Total Order**: 1
- Total Daily Order**: Date: 2024-02-06, Daily Order Count: 1
- Total Cancel Order**: 1
- Total Menu**: 7

3.36 User Customer Accept Order Notification



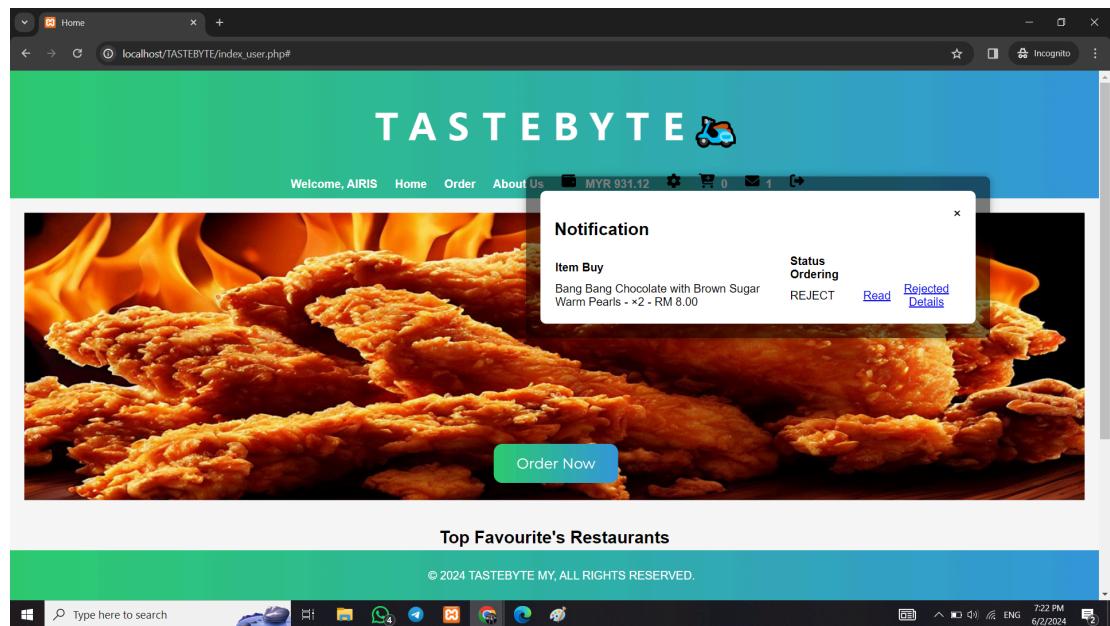
3.37 Admin Page Order Rejection Feature.

A screenshot of a web browser displaying the TASTEBYTE Admin interface. The left sidebar contains navigation links: "Dashboard", "Customer's Order", "Update Profile", "Show All Menu", "Add New Menu", "Update Menu", and "Delete Menu". The main content area is titled "Customer's Order". It displays a table with the following data:

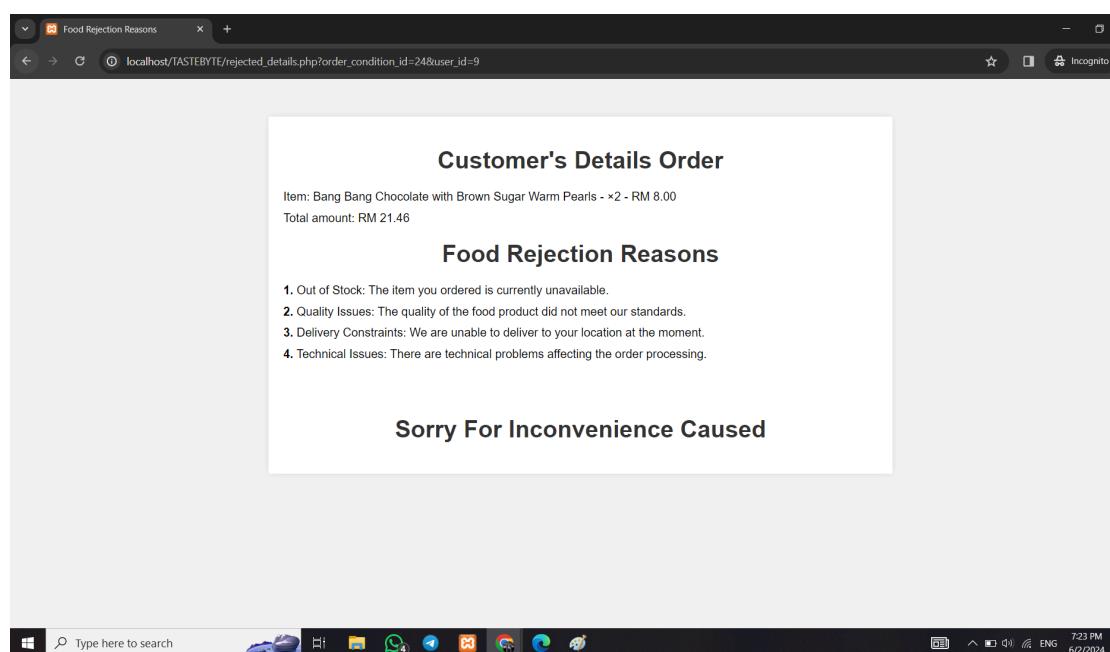
Name	Address	Phone	Details Order	Total Amount	Order Date	Status	Action
Rafiqkul Irfan bin Mohd Aidil	Kampung Aur, Telong 16300 Selangor	123456789	Bang Bang Chocolate with Brown Sugar Warm Pearls - x2 - RM 8.00	RM 16.00	2024-02-06 19:21:38	Pending	<button>Accept</button> <button>Reject</button>

The taskbar at the bottom of the screen shows various application icons.

3.38 User Customer page Reject Order Notification



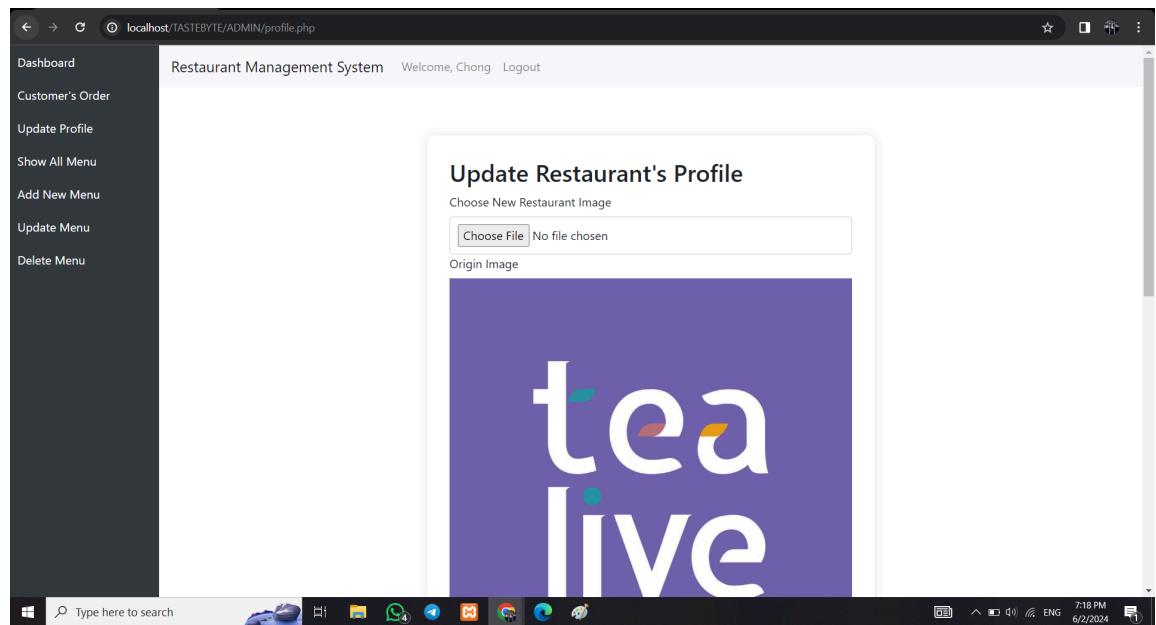
3.39 User Rejection Order Information Page



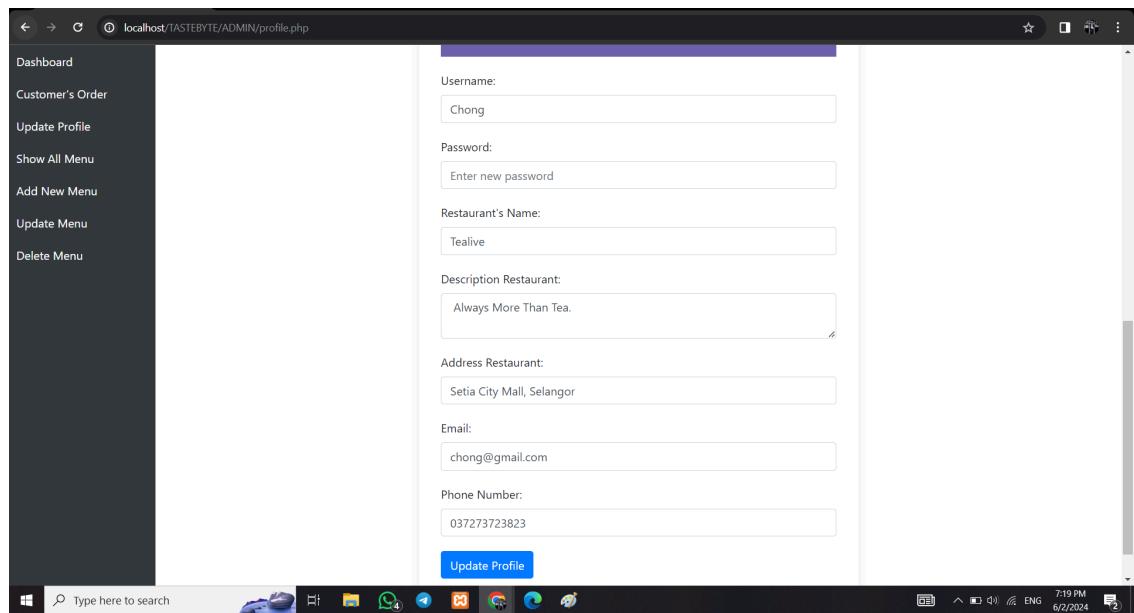
3.40 E-Wallet Money Refund.



3.41 Admin Restaurant Profile Setting Page



3.42 Enhanced Features in Restaurant Profile Settings.



3.43 Admin Page for Restaurant Menu Availability.

A screenshot of a web browser showing the 'showall_menu.php' page from the 'TASTEBYTE' admin system. The left sidebar contains the same navigation links as the previous screenshot. The main content area displays a table of menu items:

Image_File	Name	Price	Description
	Bang Bang Chocolate with Brown Sugar Warm Pearls	8.00	Rich coco served with soft & chewy brown sugar warm pearls.
	Bang Bang Fresh Milk with Brown Sugar Warm Pearls	8.00	Creamy fresh milk served with soft & chewy brown sugar warm pearls.
	Caramel Macchiato	10.00	Tealive signature blend of 100% premium Arabica coffee.
	Coco Oreo Smoothie	10.00	Icy blend of creamy chocolate topped with crunchy Oreo cookie pieces.
	Bang Bang Nishio Matcha with Brown Sugar Warm Pearls	11.00	Authentic Japanese green tea imported from Nishio, served with soft & chewy brown sugar warm p

3.44 Admin Restaurant Management Page Adding New Menu Feature.

The screenshot shows a Windows desktop environment with a browser window open to `localhost/TASTEBYTE/ADMIN/add_menu.php`. The page title is "Restaurant Management System". On the left, a dark sidebar menu lists: Dashboard, Customer's Order, Update Profile, Show All Menu, Add New Menu (which is highlighted in blue), Update Menu, and Delete Menu. The main content area has a heading "Upload Your Restaurant's Food". It contains several input fields: "Name of Food" (text input with placeholder "Enter name of food"), "Description of Food" (text area with placeholder "Enter description of food"), "Price (RM)" (text input with placeholder "Enter price"), "Availability Status" (dropdown menu with option "Available"), and "Food Image" (file upload input with placeholder "Choose File" and message "No file chosen"). The status bar at the bottom shows the date and time as 6/2/2024 7:20 PM.

3.45 Admin Restaurant Management Page Delete Menu Feature.

The screenshot shows a Windows desktop environment with a browser window open to `localhost/TASTEBYTE/ADMIN/update_menu.php`. The page title is "Restaurant Management System". The left sidebar menu is identical to the previous screenshot. The main content area displays a table of menu items with columns: Image File, Name, Price, Status, and Description. The table contains five rows of data:

Image File	Name	Price	Status	Description
	Bang Bang Chocolate with Brown Sugar Warm Pearls	8.00	Available	Rich coco served with soft & chewy brown sugar warm pearls.
	Bang Bang Fresh Milk with Brown Sugar Warm Pearls	8.00	Available	Creamy fresh milk served with soft & chewy brown sugar warm pearls.
	Caramel Macchiato	10.00	Available	Tealive signature blend of 100% premium Arabica coffee.
	Coco Oreo Smoothie	10.00	Available	Icy blend of creamy chocolate topped with crunchy Oreo cookie pieces.
	Bang Bang Nishio Matcha with Brown Sugar Warm Pearls	11.00	Available	Authentic Japanese green tea imported from Nishio, served with soft & chewy brown s

The status bar at the bottom shows the date and time as 6/2/2024 7:20 PM.

4.0 DISCUSSION

The presented food ordering system demonstrates a comprehensive and user-friendly platform that leverages modern technology to redefine the way individuals engage with culinary offerings. This innovative system not only caters to the convenience of customers but also brings significant benefits to restaurants by expanding their reach and enhancing operational efficiency. The project's objectives encompass the creation of an intuitive platform for effortless customer ordering and a robust backend infrastructure to support advanced features. The emphasis is on automating processes to optimize efficiency for both customers and restaurants.

The purpose of this food ordering system is to provide a digital platform facilitating seamless food ordering for customers while offering a streamlined order management system for restaurants or vendors. It aims to enhance convenience for customers, enabling them to browse menus, place orders, and make payments through an e-wallet without the need for physical restaurant visits. Simultaneously, it streamlines order management for restaurants, simplifying menu updates and facilitating delivery or pickup logistics.

However, to acknowledge certain limitations associated with food ordering systems, including technological dependencies, accessibility challenges, delivery constraints, accuracy issues, customer support demands, privacy concerns, integration difficulties, competition, and cultural differences. Addressing these limitations is imperative to ensure the effective and satisfactory use of the system for both customers and businesses.

The methodology employed in the development of the system involves Rapid Application Development (RAD) methods, emphasizing iterative phases such as Requirements Planning, User Design, Construction, and Implementation. This

approach ensures continuous user involvement and feedback, leading to an adaptable and user-centric food ordering system.

The report further provides a detailed insight into the system's planning and guidelines, including the Gantt Chart, Flowchart, Design Considerations such as Use Case and Entity Relationship Diagrams, and the System Requirement specifications covering both hardware and software prerequisites. Functional requirements outline crucial aspects like user authentication, order placement and management, payment processing with an eWallet, and a dashboard for restaurant administrators.

The inclusion of visual aids such as screenshots and diagrams enhances the report's clarity and comprehensibility. The User Interface design showcases user sign-in and sign-up pages, home pages, profile settings, and password/username change functionalities. Additionally, the Admin Interface is illustrated with login pages, order notification info, and order history features.

5.0 CONCLUSION

In conclusion, the food ordering system is successfully implemented which already outlined in this report aligns with the dynamic demands of the contemporary culinary landscape. Its development methodology, comprehensive features, and attention to user experience make it a robust solution for modernizing the food service industry. The report provides a holistic overview of the system's design, functionality, and implementation, setting the stage for a transformative role in the evolution of food service mechanisms.