

**DEPARTMENT OF INFORMATION AND COMMUNICATION
TECHNOLOGY**

**DIPLOMA IN INFORMATION TECHNOLOGY
(DIGITAL TECHNOLOGY)**

DFT50114: INTEGRATED PROJECT

**BistroXpress
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SESSION: SHORT SEMESTER 2023

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1.0 ABSTRACT

The "**BistroXpress**" project was developed specifically **for Syed Bistro Restaurant**, combining features such as food ordering, total order sales calculation per day and staff management. This web-based, mobile-friendly system aims to optimize business performance and improve customer satisfaction. The user-friendly interface allows customers to easily select items and add them to their cart. Once the order is placed, the admin receives details for quick processing and performs activities such as managing menus and staff.

The purpose is to reduce and simplify the time taken for customer orders to be taken, prepared and served in the restaurant by implementing a more efficient ordering and serving process. In addition, to improve customer service and staff attention in the restaurant by implementing a digital menu system with real-time order updates to minimize errors and communication issues between customers, staff and the kitchen and to be able to Increase customer engagement and feedback collection to foster better customer relationships. solid and better understand their needs.

This project uses tools like Sublime and XAMPP for its implementation, providing an interactive menu and a smooth user experience without any doubt. As a result, customers can check the menu available in the menu list, make table reservations before coming to the restaurant, reduce waiting time and increase overall satisfaction.

2.0 PROJECT PLAN

2.1 PROBLEM STATEMENT

- I. The process where staff need to take orders from customers manually which is take orders by using a paper, it is time-consuming.
- II. The restaurant has poor service and inattentive staffs. As a result, customers have to wait at their dining table without receiving any service from the staff.
- III. Customers cannot express feedback to the admin about the food and services they have experienced in that restaurant.

2.2OBJECTIVE

- I. To reduce and simplify the time taken for a customer's order to be taken, prepared, and served in the restaurant by implementing a more efficient ordering and serving process.
- II. To improve customer service and staff attentiveness in the restaurant by implementing a digital menu system with real-time order updates to minimize errors and communication issues between customers, staff, and the kitchen. On the other hand, it also enables staff to efficiently manage orders through the digital system, reducing delays and improving overall service.
- III. Improve customer engagement and feedback collection to foster stronger customer relationships and better understand their needs.

2.3 SCOPE

SYSTEM SCOPE

This web-based system offers features such as online booking for customers. On the other hands this system also help admin to calculate income, manage orders and menus. It also provides customers with an interactive and up-to-date menu from which they can easily chooseand order. The system streamlines order processing and ensures efficient processing and tracking in real time. It also allows customers to place orders.In addition, the customers need to fill in personal information such as name and phone number after making an order. The system will be designed to be user-friendly, mobile-friendly, efficient, and scalable, with the aim of enhancing the overall performance of the restaurant

USER SCOPE

1.Admin

- I. Admin can see total income
- II. Admin can manage menu (with CRUD operation) which is C for create, R for remove, U for update and D for delete.
- III. Admin can add new staff members.

2.Staff

- I. Staff members will be able to manage menu.
- II. Staff can view orders.
- III. Staff will be able update order status.
- IV. Staff can manage table reservations.

3. Customers

- I. Customers will be able to place online orders
- II. Customer can choose either to takeaway or make table reservations.
- III. Customer will have to fill up order confirmation details.

Overall, the user scope for the restaurant system will be to provide a comprehensive solution that addresses the needs of all users involved in the restaurant's operations.

2.4 LITERATURE REVIEW

Table 2.4 Literature Review

Logo			
Name of Application / Website	Chicken Rice Shop	K fry	Sukiya
Programming Language	• C++ • Html • Css	• JavaScript • PHP • Ruby	• CSS • JavaScript • Html
Advantage (feature)	• Easy online ordering • User friendly interface • Mobile responsive	• Easy online ordering • Creative user interface • Can reserve table.	• Easy online booking and reservation • Mobile responsive
	• Social media integration	• Provide detailed information about the restaurant. • Mobile responsive • Social media integration – linked	

		with social media profile	
Disadvantages (Feature)	• Use online platform to create their website. • Limited functionality- focus on ordering only • Limited payment option • Limited customization – customer cannot make specific request or modification	• limited accessibility- not accessible for all customer, particularly those with disabilities	• Use online platform to create their website. • not user-friendly • no detailed information about the restaurant • fewer payment methods
Platform	• Website, IOS, Android	• Website	• Website, IOS, Android

2.5 METHODOLOGY



Figure 1: Agile Methodology

The methodology used for this project is Agile. Agile methods typically use a spiral model, which represents a series of iterations, or revisions, based on user feedback. This method breaks development process down into cycles, or iterations that add functionality.

Reason: this agile methodology was chosen to reduce major risks by incremental steps in short time to build a project. Also, the advantage in this method is very flexible and efficient in dealing with change.

1. Requirements
 - Conduct Market Research.
 - Develop project plan.
 - Develop project schedule.
 - Define project budget.
 - Identify project Risk.
 - Finalize project plan.
2. Design
 - Develop user interface design.
 - Develop database design.
 - Develop software design.

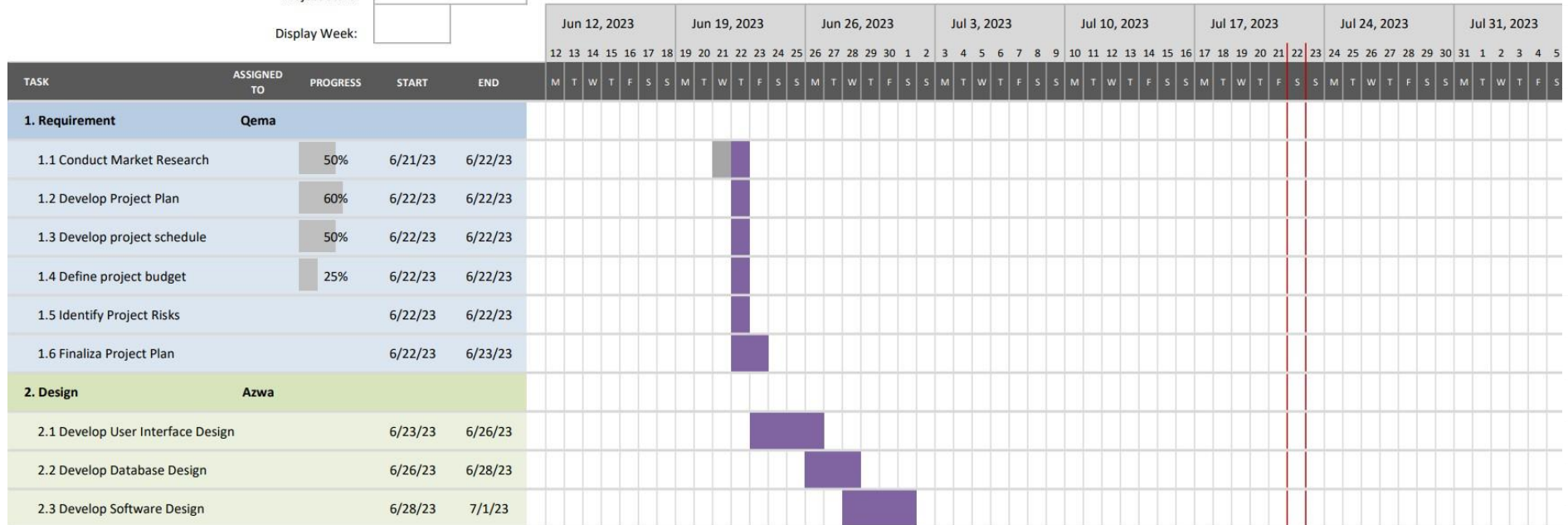
3. Development
 - Develop Front-End system.
 - Develop Back-End system.
 - Develop interaction between the systems.
4. Testing
 - Develop test plan.
 - Conduct unit testing.
 - Conduct system testing.
 - Create summary documents.
5. Deployment
 - Deploy system to the production server.
 - Provide warranty.
6. Review
 - Gather feedback from user.
 - Conduct post-implementation review.
 - Identify lesson learned and areas for improvement.
 - Conduct review meeting with stakeholders.

2.6 GANTT CHART

Syed Bistro

BistroXpress

Project Start:	Wed, 6/21/2023	
Display Week:		



Continue...



Figure 2.6: Gantt Chart Table

3.0 REQUIREMENT SPECIFICATION

Requirements specification, which is a set of documented requirements to be used in the design, project. It is very important to document for future reference.

3.1 Functional Requirement

1. Staff Order Management
 - I. The dashboard should display all incoming orders and their corresponding statuses.
 - II. Staff members be able to update the order status manually if needed (e.g., marking an order as "Being Prepared" or "Completed").
2. Order History
 - I. The BistroXpress able maintain a comprehensive order history for the restaurant, including details such as date, time, menu items ordered, and customer information.
3. Real-time Communication
 - I. Staff members will be able to receive notifications about new incoming orders and any status changes related to their assigned orders.

3.2 Non-Functional Requirement

Requirement	Product
Performance	The website responds to user interactions promptly, such as loading menu items, adding items to the cart, and processing orders.
Reliability	Customer can access the menu 97% without failure.
Availability	Any updates to the menu, including adding or removing items, should be applied instantly to ensure real-time availability for customers.
Maintainability	Minimize downtime and ensure customers can access the platform whenever they want to place orders or check the menu.
Recoverability	Perform regular and automated backups of critical data, including customer orders, menu updates, and staff information.
Capacity	Designed to handle the increasing volume of data generated by customer orders, feedback, and other system activities
Serviceability	Implement comprehensive logging to record system events, errors, and user activities.
Security	Admin can add and define roles for staff to enable access the system.
Manageability	Administrators should have access to all management features, while staff members should only access functionalities relevant to their roles
Environmental	The website running 24 hours from Sunday to Saturday.
Data integrity	The system maintains detailed data logs and audit trails to track data access, modifications, and deletions.
Interoperability	The system's design and architecture vendor-neutral,

Usability	The system produces feature visually appealing user interface with clear navigation, consistent layout, and easy-to-understand controls

Table 3.2 : Products of Non-Functional Requirements

3.3 Hardware and Software Requirement

Hardware Requirement

I. HP Laptop 14s



The laptop that we use is HP laptop for web development because Its reliability, powerful performance, and user-friendly features enhance our productivity in coding, designing, and testing websites and web applications.

II. Posiflex Aura PP6900U Thermal Receipt Printer



The printer chosen printed receipts clear, legible, and fade-resistant, providing a professional touch to our transaction process. With its reliability and ease of use.

III.SAMSUNG GALAXY TAB A8



This tab is used by restaurant staff to make it easy for them to see orders because it is easy to carry anywhere in addition to its light weight

NO	ITEM	QUANTITY	PRICE (RM)
1.	HP Laptop 14s	1	RM 2099.00
2.	Posiflex	1	RM 725.00
3.	Samsung galaxy tab A8	1	RM 389.00
TOTAL PRICE			RM 3 213.00

Table 3.3 : Hardware Requirement cost

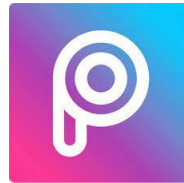
Software Requirement

I.Canva (Pro)



Canva is used to create social media graphics, presentations, posters, documents, and other.

II.Picsart (Free)



Picsart is used to sketch the interface for the website.

III.XAMPP (Free)



XAMPP is used to test websites before publishing them to a remote web server.

IV.Sublime Text (Free)



Sublime Text is used to write code.

v.Domain Web Server



Domain hosts provide domain names, which are the addresses that help visitors access website content.

NO	SOFTWARE	PRICE(RM)
1.	Canva Pro	RM 29.99
2.	Picsart	Free
3.	XAMPP	Free
4.	Sublime	Free
5.	Domain Web Server	RM15.00
TOTAL PRICE		RM 44.00

3.4 System Configuration

1.Hardware Components

- I. This website requires at least 8 GB of RAM for efficient web development.
- II. This website also needs to use the latest generation processor, this website uses intel i5 to make the processing smoother and may work well.

2.Software Configuration

- I. User can open this website by google chrome.
- II. This website can be open by any android and ios version for mobile phone.

3.Network Configuration

- I. This website requires internet access to access the customer page. when the customer has placed an order, their order details will be entered into the database, admin and staff site.

3.5 Security Requirement

1. Authorization

- I. In this system have authorization for the security where the staff only can access the dashboard, manage ordering, manage menu and setting profile. But for the admin can access the dashboard, manage ordering, manage menu, manage administrator, view customer feedback and setting profile. For admins, admins can manage administrators where they can determine admin or staff roles. here only the admin can add and define roles for staff to enable access the system.

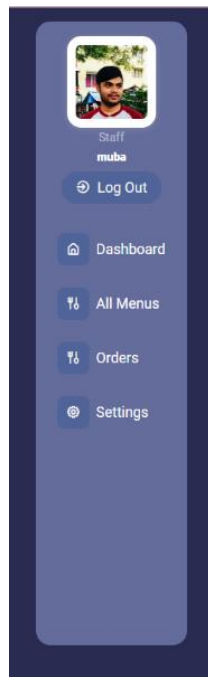


Figure 1: Staff Site Menu

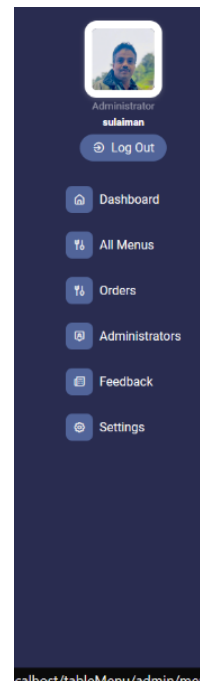


Figure 2: Admin Site Menu

2. Authentication

- I. In this system there is also confirmation where the system needs to be logged in for admin and staff. For the login page, users need to fill in their first name and password for verification where there are two roles, namely admin and staff. to determine whether the user is admin or staff, the password entered must be correct, if the password entered is wrong, the user will not be able to enter the system.

The image shows a login page with a light blue background. At the top, there is a pink banner with the text "Login Please!". Below this, the word "Login" is written in a large, bold, black font. Underneath "Login", the text "Welcome back!" is displayed in a smaller, black font. There are two input fields: the first is labeled "First Name" and contains the text "azwa"; the second is labeled "Password" and contains four dots. Below the input fields is a blue button with the text "Login" in white. At the bottom of the form, there is a link that says "Don't have an account? Contact Admin!".

Login Please!

Login

Welcome back!

First Name

azwa

Password

....

Login

Don't have an account? Contact Admin!

Figure 3 : Login page

4.0 FINAL DESIGN

4.1 Logical Design

I. Functional Decomposition Diagram (FDD)

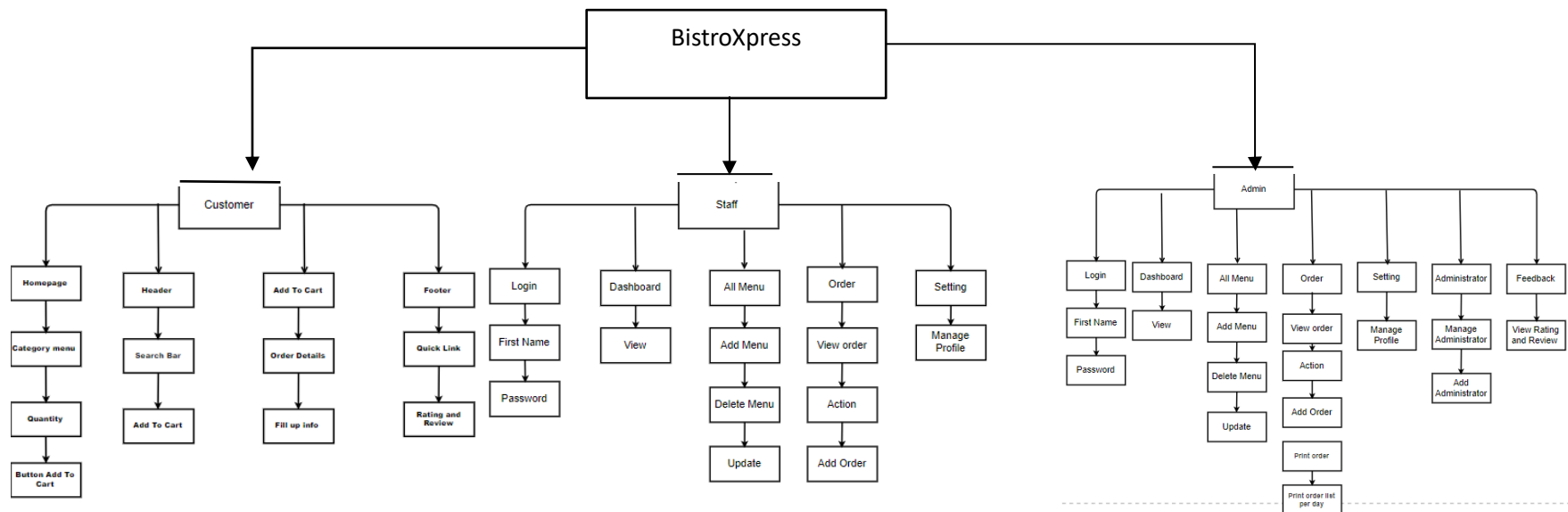


Figure 4.1 a : BistroXpress FDD

II.Context Diagram

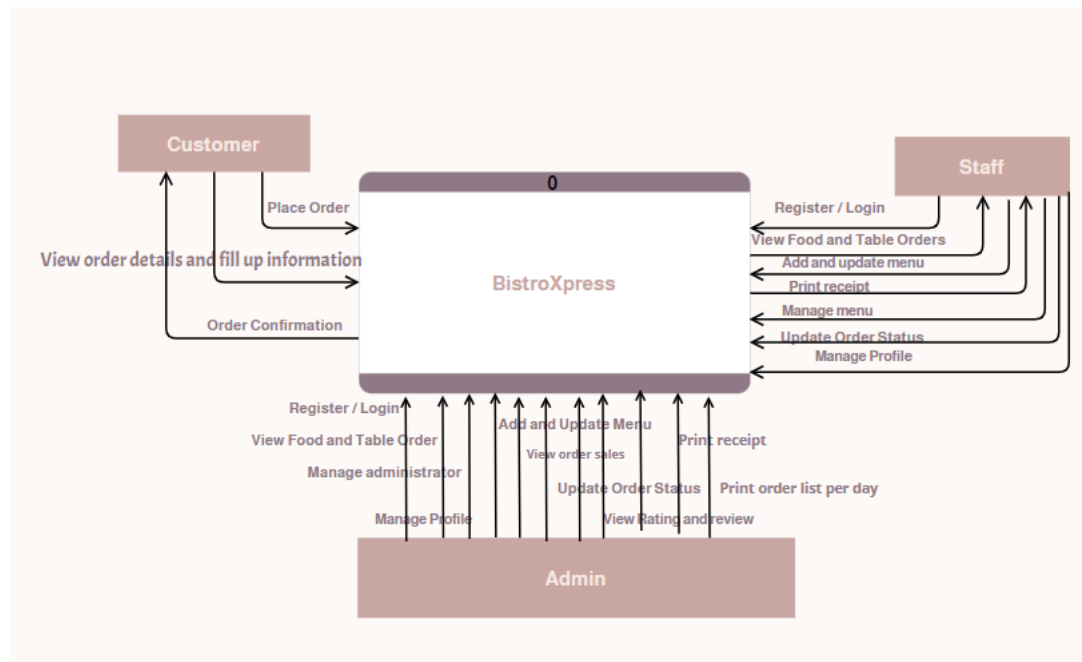


Figure 4.1 b:BistroXpress Context Diagram

4.2 Physical Design

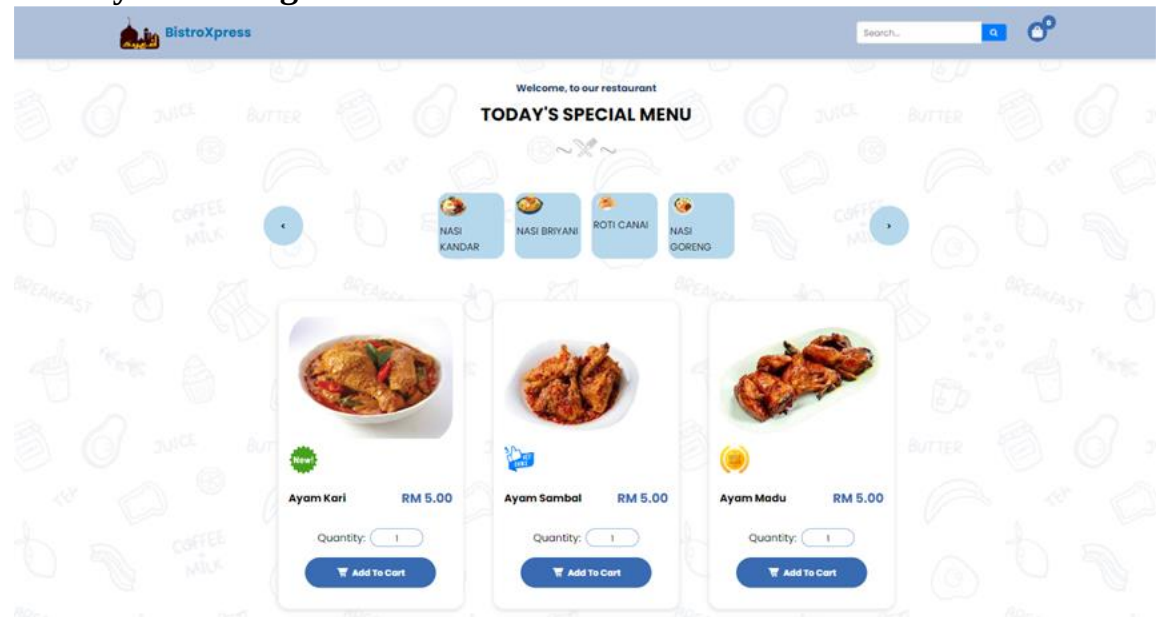


Figure 4.1 a: Customer Page (Menu)

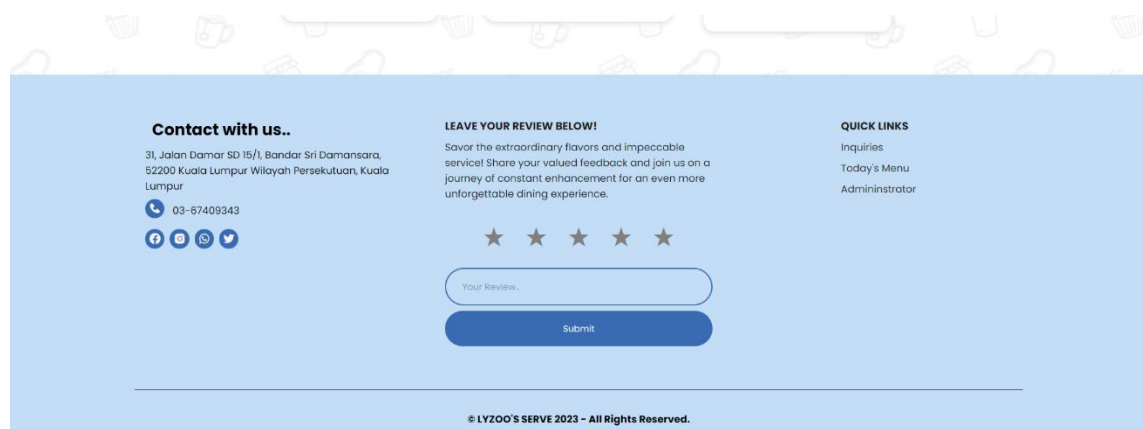


Figure 4.1 d: Customer Page (Cart Details Footer)

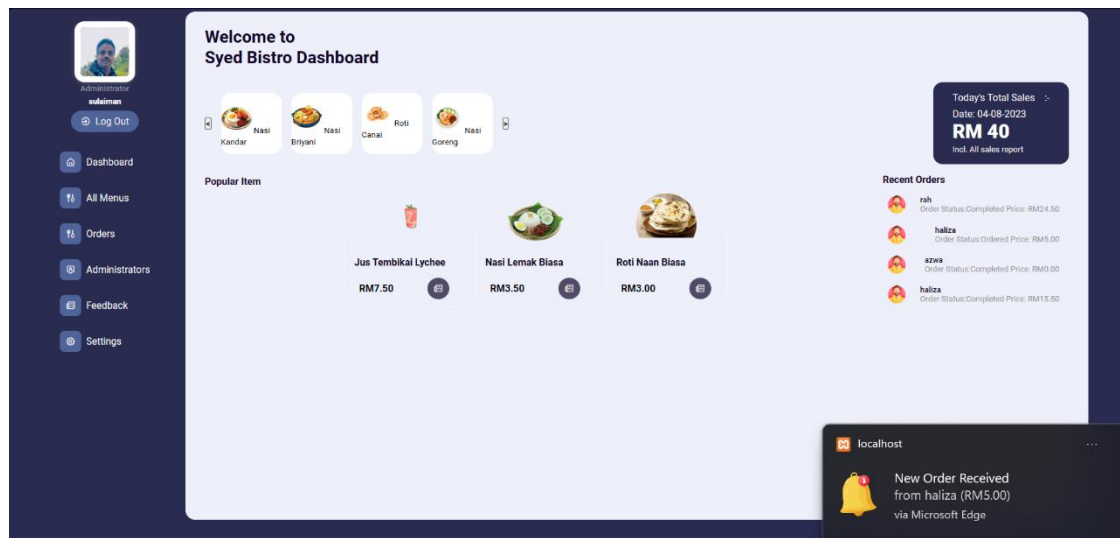


Figure 4.1 e: Administrator Page (Dashboard)



Figure 4.1 f: Administrator Page (All Menus)

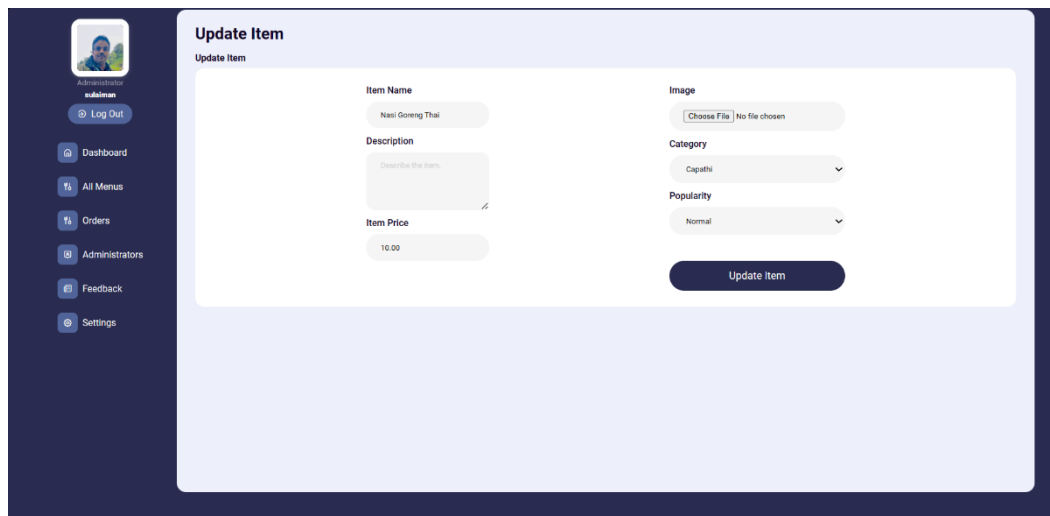


Figure 4.1 g: Administrator Page (Update Item)

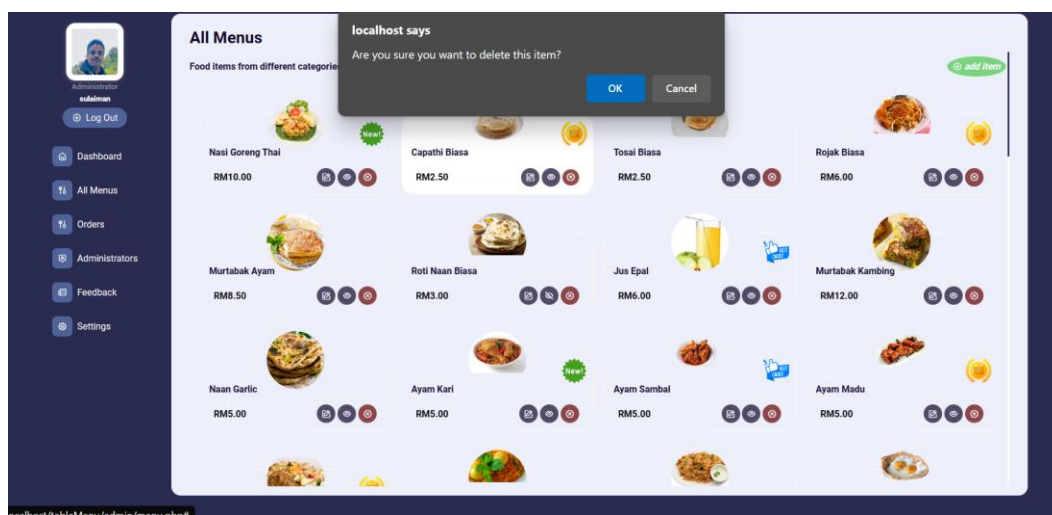


Figure 4.1 g: Administrator Page (Message Box Confirmation Delete Item)

Customer Orders

All Orders
Date: 04-08-2023 [Print](#)

ID	Name	Contact	Table No	Total Cost	Status	Action
1	rah	16876	43	RM24.50	Completed	
2	haliza	56	34	RM5.00	Ordered	
3	azwa	0272021405	Take Away	RM0.00	Completed	
4	haliza	0172021405	17	RM15.50	Completed	

Date: 03-08-2023 [Print](#)

ID	Name	Contact	Table No	Total Cost	Status	Action
1	nurul	0192535367782	4	RM25.50	Completed	
2	bkd	82379	4	RM5.00	Processing	
3	gwhjd	2638	2	RM5.00	Completed	
4	haliza	6776	Take Away	RM5.00	Processing	
5	akjak	123	2	RM11.00	Completed	
6	324	234	Take Away	RM9.50	Completed	
7	sdaf	344	Take Away	RM11.00	Completed	

Figure 4.1 h: Administrator Page (All the Customer Order Details)

Print
Total: 1 sheet of paper

Printer
Microsoft Print to PDF

Copies
1

Layout
☒ Portrait
☐ Landscape

Pages
☒ All

[Print](#) [Cancel](#)

Total Sales: RM62
Date: 03-08-2023

ID Name	Contact	Table No	Total Cost	Status
1 nurul	0192535367782	4	RM25.50	Completed
2 gwhjd	2638	2	RM5.00	Completed
3 akjak	123	2	RM11.00	Completed
4 324	234	Take Away	RM9.50	Completed
5 sdaf	344	Take Away	RM11.00	Completed

Figure 4.1 i: Administrator Page (Total sales per day to print out)

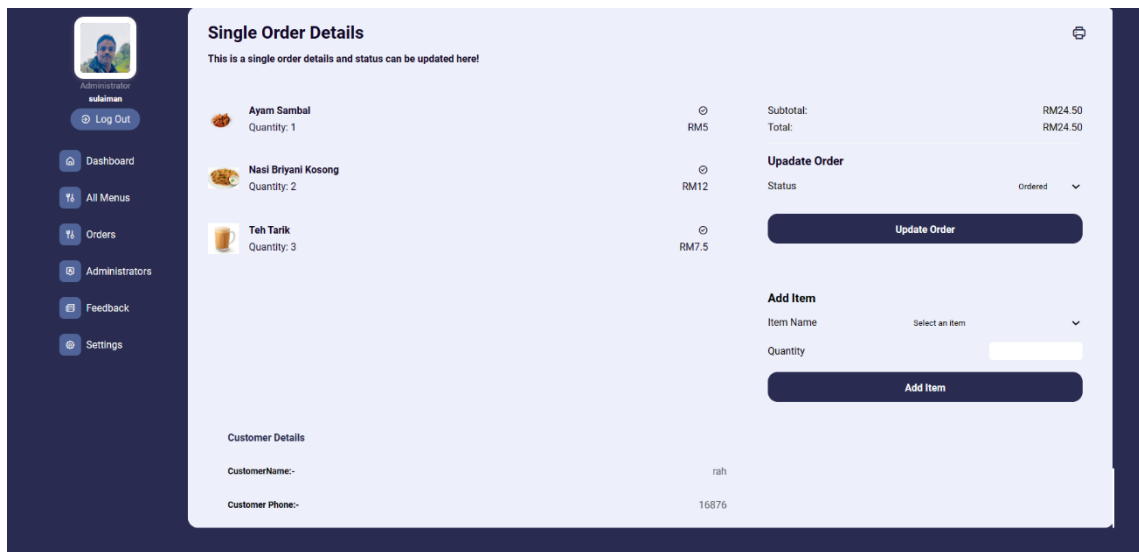


Figure 4.1 j: Administrator Page (Single Order Details)



Figure 4.1 k: Administrator Page (Receipt)

New Admin
Register a new administrator

First Name Nurazilah	Password 2345
Second Name Arafah	Profile Picture Choose File 8.jpg
Phone Number 0172021405	Admin Role Click to change Manager
Admin Email azilah@gmail.com	

Add Admin

Figure 4.1 l: Administrator Page (Add new Manager)

Update Admin
Update current administrator

First Name Muba	Password QWER
Second Name muba	Profile Picture Choose File No file chosen
Phone Number +60173710699	Admin Role Click to change Staff
Admin Email muba@gmail.com	

Update Admin

Figure 4.1 m: Administrator Page (Add new Staff)

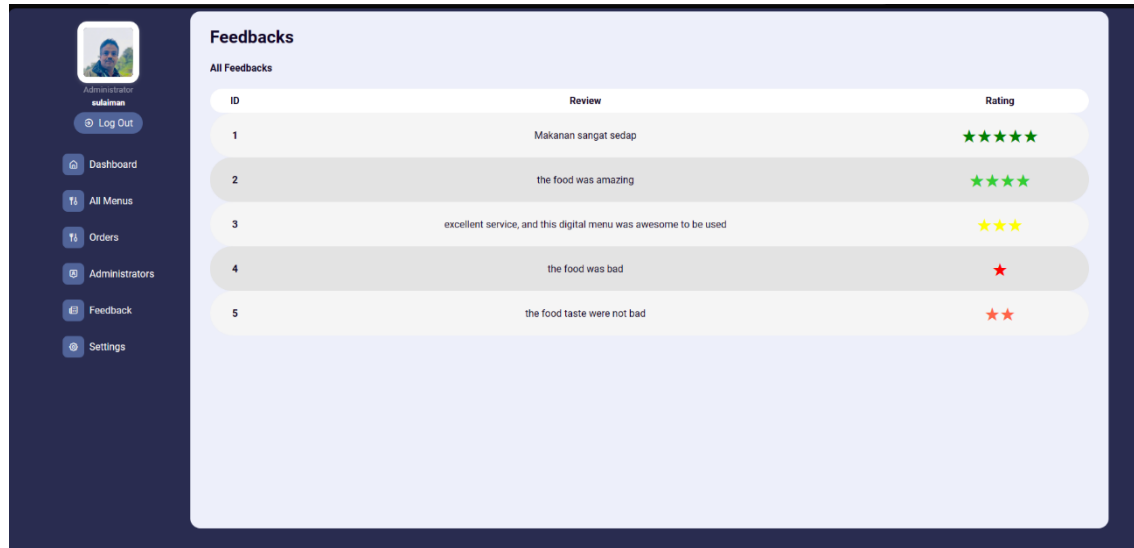


Figure 4.1 n: Administrator Page (View Feedbacks from customer)

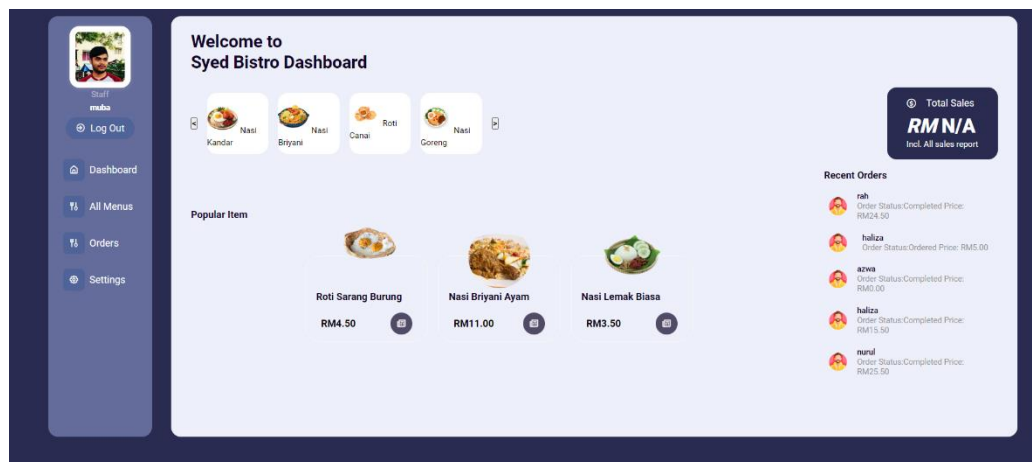


Figure 4.1 o: Staff Page (Staff Dashboard)



Figure 4.1 p: Staff Page (All Menus)

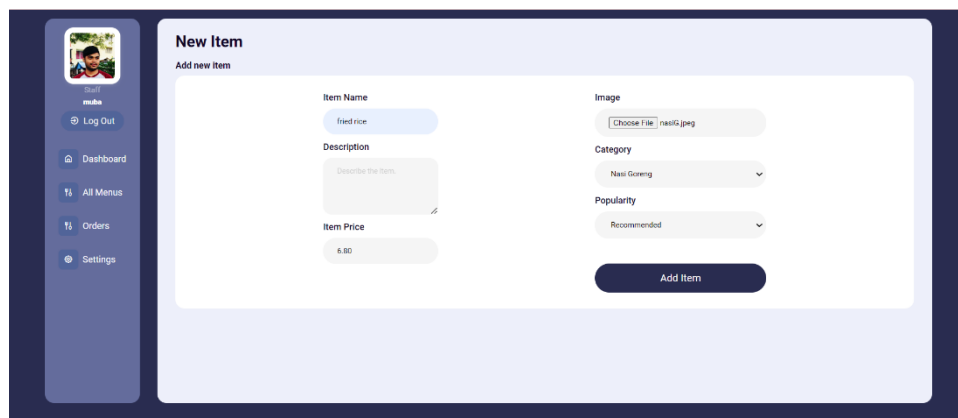


Figure 4.1 q: Staff Page (Add New Item)

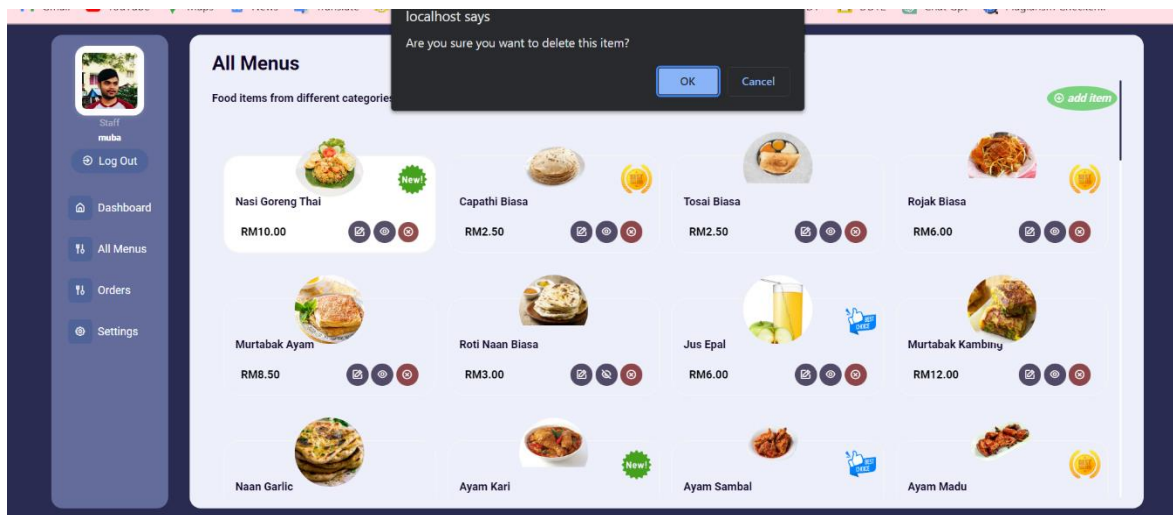


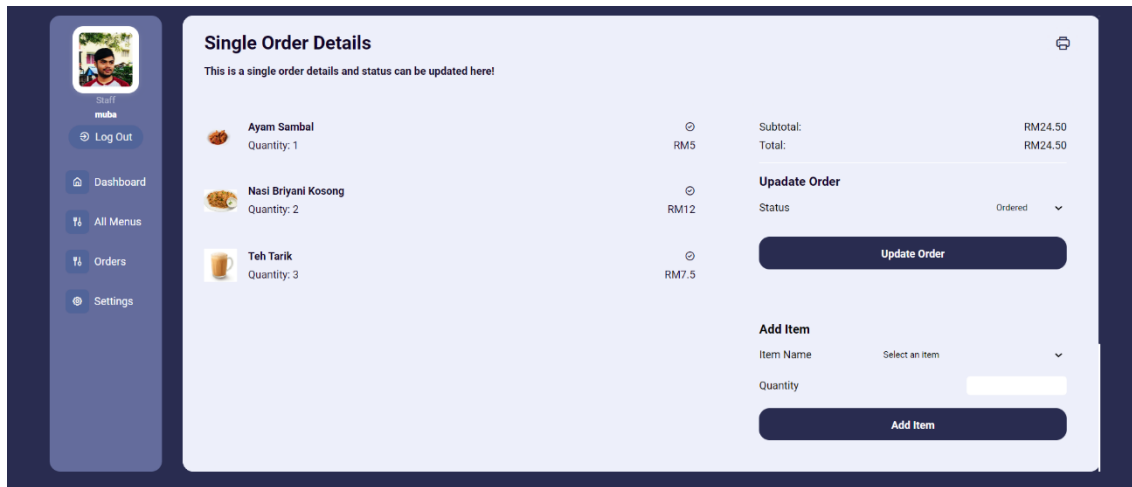
Figure 4.1 r: Staff Page (Message Box Confirmation Delete Item)

ID	Name	Contact	Table No	Total Cost	Status	Action
1	rah	16876	43	RM24.50	Completed	
2	haliza	56	34	RM5.00	Ordered	
3	azwa	0272021405	Take Away	RM0.00	Completed	
4	haliza	0172021405	17	RM15.50	Completed	

Date: 03-08-2023

ID	Name	Contact	Table No	Total Cost	Status	Action
1	nurul	0192535367782	4	RM25.50	Completed	
2	bkd	82379	4	RM5.00	Processing	
3	gwhjd	2638	2	RM5.00	Completed	
4	haliza	6776	Take Away	RM5.00	Processing	

Figure 4.1 s: Staff Page (All the Customer Order Details)



Single Order Details

This is a single order details and status can be updated here!

Item	Quantity	Price	Total
Ayam Sambal	1	RM5	RM24.50
Nasi Briyani Kosong	2	RM12	RM24.50
Teh Tarik	3	RM7.5	

Update Order

Status: Ordered

Add Item

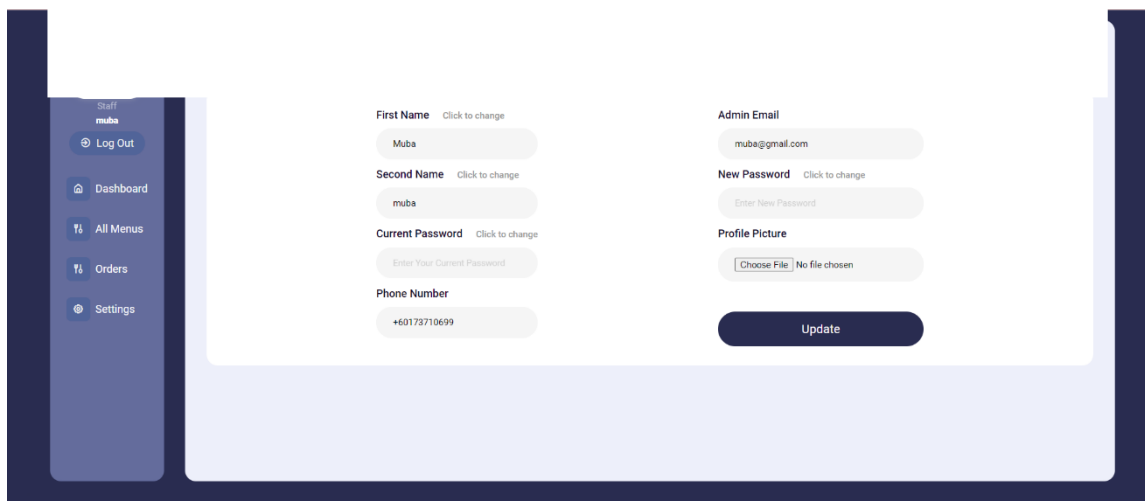
Item Name: Select an item

Quantity:

Update Order

Add Item

Figure 4.1 t : Staff Page (Single Order Details)



Staff

muba

Log Out

Dashboard

All Menus

Orders

Settings

First Name Click to change

Muba

Second Name Click to change

muba

Current Password Click to change

Enter Your Current Password

Phone Number

+60172710699

Admin Email

muba@gmail.com

New Password Click to change

Enter New Password

Profile Picture

Choose File No file chosen

Update

Figure 4.1 v: Staff Page (Manage Profile)

5.0 TEST DESCRIPTION AND RESULT

5.1 Unit Testing Plan

Table1: unit testing plan - Customer page

UNIT TESTING PLAN (UTP)						
NO	Test Case Name	Test Procedure	Pre-condition	Expected Results	Tester	Result (Pass/Fail)
1.	Starting page to home page choose category button	Users are required to press one of the available category buttons.	Enter the home page.	The menu will change according to the category.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
2.	Add to cart button	User need to fill quantity before click "add to cart"	Choose menu and add quantity.	The menu will added in cart page for order details.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
3.	Review submit button.	User need to give rating star and give a review then click "submit" button.	Enter home page	The rating and review that user give will be appear on admin site.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass

4.	Search bar.	The user will search for the menu by entering a word in the search bar and click on the icon search button.	Enter home page	The searched menu will be displayed while the unsearched menu will disappear.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
5.	Order details.	User will add the order to cart.	Choose menu at home page.	The order made will be displayed as order details and will calculate the total bill to be paid by the customer.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
6.	Order details delete button.	User required to click on cancel order button.	Choose menu and add to cart.	The order details item will be deleted and disappear.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
7.	Check out button	User required to fill form before click "check out" button to place order.	Choose menu and add to cart.	The order that has been placed will be successful and a successful popup will appear on the home page. then the order details will go into the staff	MR. SYED SULAIMAN BIN KAMARDEEN	Pass

				and admin page.		
--	--	--	--	--------------------	--	--

Table 2 : unit testing plan - Staff page

UNIT TESTING PLAN (UTP)						
NO	Test Case Name	Test Procedure	Pre-condition	Expected Results	Tester	Result (Pass/Fail)
1.	Starting page to login page.	User is required to fill first name and password before click the login.	User need to contact admin for registration.	Log in successful if user enter the right first name and password.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
2.	Add new item.	User is required to fill up the form before click "add item".	User need to go to all menu interface.	The new item will appear in all menu page and customer home page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
3.	Available button.	User is required to click on icon available.	User need to add item.	The menu on customer page will appear as unavailable item and can't place order.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
4.	Delete button.	User is required to click on icon delete.	User need to add item.	After click on delete icon, the confirmation	MR. SYED SULAIMAN BIN KAMARDEEN	Pass

				popup box will appear and if user click on confirm button the menu will be delete in “all menus” page in admin and staff page. Also it will be deleted in customer page.		
5.	Update button.	User is required to fill up form and click to “update item”.	User need to click icon edit.	The menu will successful update to customer page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
6.	Action button.	User is required change the status ordering by choosing and click on “update status” button.	Enter the orders page.	The status will be change in order details.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
7.	Setting page.	User is required to fill up the form before click “update” button to update the profile.	User need to login staff page.	the page automatically logout and go to login page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
8.	Add items for customers who add new orders.	User is required to choose what item want to be add and	User need to go to orders detail then click on “action” button	The item will be added to the customer's order details and the bill	MR. SYED SULAIMAN BIN KAMARDEEN	Pass

		also put the quantity the click on “add item” button		total will be recalculated.		
--	--	--	--	-----------------------------	--	--

Table3 : unit testing plan - Admin page

UNIT TESTING PLAN (UTP)						
NO	Test Case Name	Test Procedure	Pre-condition	Expected Results	Tester	Result (Pass/Fail)
1.	Starting page to login page.	User is required to fill first name and password before click the login.	Register first.	Log in successful if user enter the right first name and password.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
2.	Add new item.	User is required to fill up the form before click “add item”.	User need to go to all menu interface.	The new item will appear in all menu page and customer home page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
3.	Available button.	User is required to click on icon available.	User need to add item	The menu on customer page will appear as unavailable item and can't place order.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
4.	Delete button.	User is required to click on icon delete.	User need to add item.	After click on delete icon, the confirmation popup box will appear and if user click on confirm button the menu will be	MR. SYED SULAIMAN BIN KAMARDEEN	Pass

				delete in “all menus” page in admin and staff page. Also it will be deleted in customer page.		
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5.	Update button.	User is required to fill up form and click to “update item”.	User need to click icon edit.	The menu will successful update to customer page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
6.	Action button.	User is required change the status ordering by choosing and click on “update status” button.	User need to enter orders page.	The status will be change in order details and if the status complete it be calculate for total sales per day and it will to dashboard admin.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
7.	Orders details print button.	Click on print link.	Need to enter orders page.	The orders details will be print by days to show totals sales per day. Also it will be print only complete orders.	MR. SYED SULAIMAN BIN KAMARDEEN	

9.	Add items for customers who add new orders.	User is required to choose what item want to be add and also put the quantity the click on “add item” button.	User need to go to orders detail then click on “action” button	The item will be added to the customer's order details and the bill total will be recalculated.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
10.	Add new admin button.	User is required to fill the form to add new admin and can choose role which is admin or staff.	User need to go administrator page.	The new administrator will save in database, appear on administrator page for details administrator and can be entered the admin or staff page by entering first name and password.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
11.	Delete administrator button.	User is required to click on delete icon button to delete the administrator.	Enter the administrator page.	The administrator that have be delete will disappear and cannot access the staff or admin page. The login will be failed.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
12.	Edit administrator button.	User is required to update administrator by fill up the form and click “update admin”.	Enter administrator page and click edit icon button.	The administrator will be updated to the new admin and can be entered into	MR. SYED SULAIMAN BIN KAMARDEEN	Pass

				the database and can be seen in the		
INTEGRATION TESTING PLAN (ITP)						
NO	Test Case Name	Test Procedure	Pre-condition	Expected Results	Tester	Result (Pass/Fail)
1.	Cart button.	Click on cart icon button on the header.	User need to enter the home page.	After click on cart button, it will go to cart page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
2.	Add to cart button.	Choose menu and enter the quantity then click on “add to cart” button.	User need to enter the home page.	It will be entering the cart page and show the orders details.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
3.	Continue shopping button.	Click on “continue shopping” button.	User need to enter cart page.	After click continue shopping button, it will enter the home page to make another order.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
5.	Quick link: “Today’s Menu” link.	Click the “Today’s Menu” link in the footer.	User need to enter home page or cart page.	It will be entered and refresh the home page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
6.	Quick link: “Administrator” link.	Click the “Administrator” link in the footer.	User need to enter home page or cart page.	It will go to login page for administrator.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass

Table 4: integration testing plan - Customer page

Table 5: integration testing plan - Staff page

INTEGRATION TESTING PLAN (ITP)						
NO	Test Case Name	Test Procedure	Pre-condition	Expected Results	Tester	Result (Pass/Fail)
1	Login Button.	User is required to fill first name and password before click the login.	User need to contact admin for registration.	Log in successful if user enter the right first name and password, it will go to dashboard staff page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
2.	Logout button.	User is required to click on logout button.	Enter the staff site.	It will go to log in page back.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
3.	Navigation bar: Dashboard button.	User is required to click on “Dashboard” button.	Enter the staff site.	It will go to staff dashboard page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
4.	Navigation bar: All Menus button.	User is required to click on “All Menus” button.	Enter the staff site.	It will go to staff All Menus page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
5.	Add item button on All Menus page.	User is required to click the “add item” button	Enter the staff All Menus page.	It will go to new item page to add new item.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
6.	Edit menu button on All Menus Page.	User is required to click the edit icon button.	Enter the staff All Menus page.	It will go to staff update item page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass

7.	Navigation bar: Orders button.	User is required to click on “Orders” button.	Enter the staff site.	It will go to Customer Orders page.	MR. SYED SULAIMAN BIN KAMARDE EN	Pass
8.	Action button on Customer orders page.	User is required to click icon action button.	Enter the Customer Orders page.	It will go to single order details to update status and add orders item.	MR. SYED SULAIMAN BIN KAMARDE EN	Pass
9.	Print button on single order details.	User is required to click print button.	Enter the single order details page.	It will go to print receipt for the customer.	MR. SYED SULAIMAN BIN KAMARDE EN	Pass
10.	Navigation bar: Setting button.	User is required to click on “Setting” button.	Enter the staff site.	It will go to staff Setting page to manage and update profile.	MR. SYED SULAIMAN BIN KAMARDE EN	Pass

Table 6: integration testing plan - Admin page

INTEGRATION TESTING PLAN (ITP)						
NO	Test Case Name	Test Procedure	Pre-condition	Expected Results	Tester	Result (Pass/Fail)
1.	Login Button.	User is required to fill first name and password before click the login.	User need to contact admin for registration.	Log in successful if user enter the right first name and password, it will go to dashboard Admin page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
2.	Logout button.	User is required to click on logout button.	Enter the admin site.	It will go to log in page back.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
3.	Navigation bar: Dashboard button.	User is required to click on "Dashboard" button.	Enter the admin site.	It will go to admin dashboard page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass

4.	Navigation bar: All Menus button.	User is required to click on “All Menus” button.	Enter the admin site.	It will go to admin All Menus page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
5.	Add item button on All Menus page.	User is required to click the “add item” button.	Enter the admin All Menus page.	It will go to new item page to add new item.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
6.	Edit menu button on All Menus Page.	User is required to click the edit icon button.	Enter the staff All Menus page.	It will go to admin update item page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
7.	Navigation bar: Orders button.	User is required to click on “Orders” button.	Enter the admin site.	It will go to Customer Orders page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
8.	Action button on Customer orders page.	User is required to click icon action button.	Enter the Customer Orders page.	It will go to single order details to update status and add orders item.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
9.	Print button on single order details.	User is required to click print button.	Enter the single order details page.	It will go to print receipt for the customer.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
10.	Navigation bar: Administrators button.	User is required to click on “Administrators” button.	Enter the admin site.	It will go to administrator’s page and show the administrator details.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
11.	Add new administrators’ button on Administrators page.	User is required to click to icon “+” to add new add new administrator.	Enter the Administrator page.	It will go to new admin page to register new administrator.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass

12.	Edit administrators' button on Administrators page.	User is required to click on icon edit button.	Enter the Administrator page.	It will go to Update administrator page.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
13.	Navigation bar: Feedback button.	User is required to click on "Feedback" button.	Enter the admin site.	It will go to Feedback page to show all the feedbacks from customer.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass
14.	Navigation bar: Setting button.	User need to click on "Setting" button.	Enter the Admin site.	It will go to Admin Setting page to manage and update profile.	MR. SYED SULAIMAN BIN KAMARDEEN	Pass

6.0 MAJOR FINDINGS AND DISCUSSION

6.1 ADVANTAGES OF PROJECT

- I. Customers can check the menu available in the menu list, make a table reservation before coming to the restaurant, reducing waiting time and increasing overall satisfaction.
- II. The implementation of this digital menu helps to track and display total daily order sales. This eliminates the need for manual calculations, saving valuable time for restaurant administrators.
- III. The system minimizes errors and confusion associated with manual order taking and reservation processes, allowing restaurant staff to focus on providing excellent service.

6.2 DISADVANTAGES OF PROJECT

- I. The system may experience delays or become inaccessible, causing potential disruptions to the order pickup process and customer experience due to having Connectivity issues in areas with poor Internet connectivity or network disruptions.
- II. Some customers, especially the older generation or those who are less familiar with technology will be a resistance to customers, older customers may find it difficult or uncomfortable to use the digital ordering system, which leads to potential frustration and dissatisfaction.
- iii. Introducing a new digital ordering system may require staff members to adapt to new technology and processes, leading to a learning curve that could temporarily affect efficiency during the initial implementation phase

7.0 RECOMMENDATION CONCLUSION

After examining every aspect of creating this system, it can be concluded that our system offers significant advantages for both customers and restaurants. These online systems allow for easy and convenient access to restaurant ordering, as well as more efficient and accurate restaurant management. In this system, customers can be able view menus, place orders, and check out orders from their smartphones or computers without the need to call for waiter to take orders and instead could be able to make orders by own wills. This saves time, reduces stress and makes the overall experience more enjoyable for both customer and restaurant staff.

Additionally, this digital table menu can provide restaurants efficient managements of orders so that customer satisfaction is fulfilled. Moreover, restaurant can tailor their offerings to better meet the needs and expectations of their target audience based on the customer reviews.

In conclusion, BistroXpress system work by providing easy and convenient access food ordering, as well as efficient order management and also improve the dining experience for everyone involved.

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APPENDIX A- Testing the system with Client

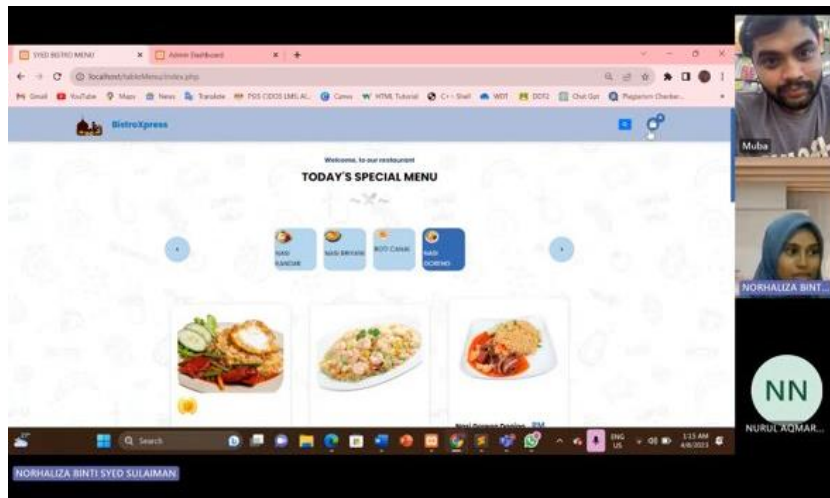


Figure 1: Show the customer page and what customers need to go through to complete their order process.

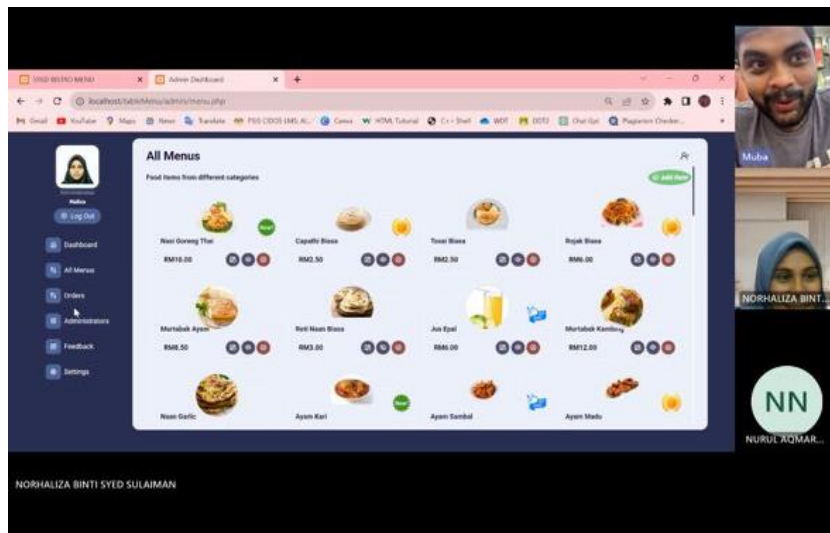


Figure 2 : Show the admin page and what the admin can do with the steps.

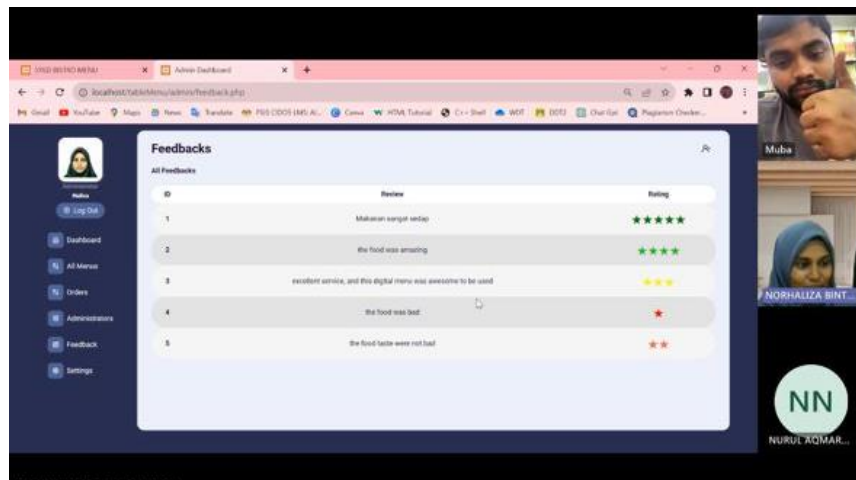


Figure 3: Explains that the admin can find out the feedback given by the customer.

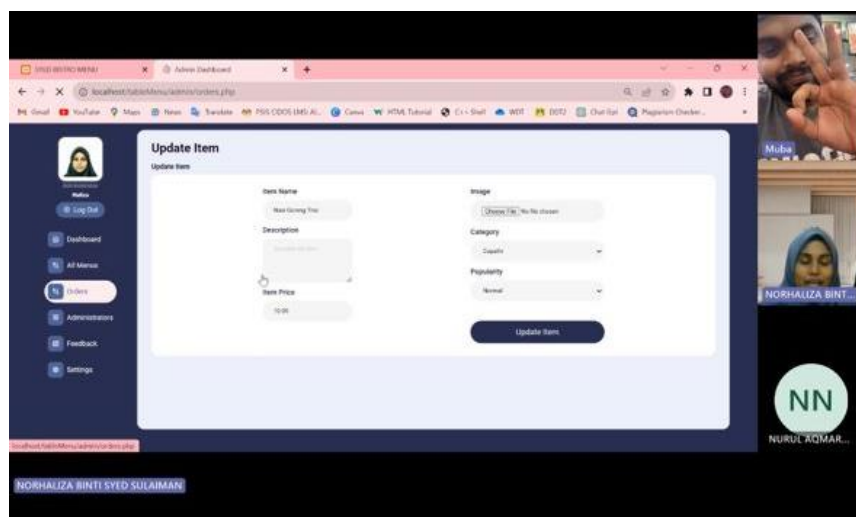


Figure 4: Explains how admin can also update their new menu in the following way.

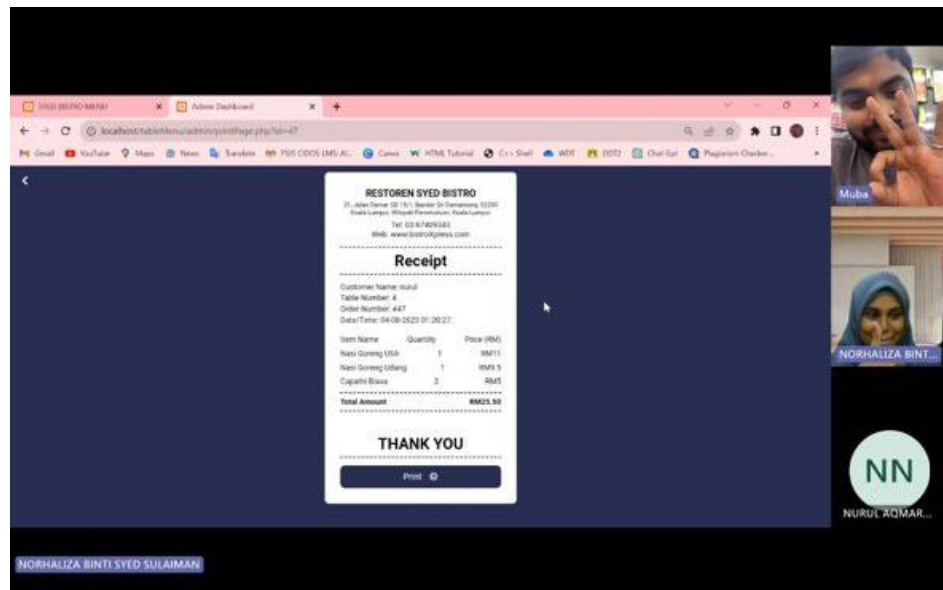


Figure 5: The client can see the following is the receipt that will come out for them to print after a customer completes their order