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Software Quality Assurance and Testing

Restaurant Management System

A Report submitted
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Software Test Plan

for

Restaurant Management System

Version 1.0 approved

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1. TEST PLAN IDENTIFIER:RS-MTP01.3

2. REFERENCES

- Software Requirements Specification Restaurant Menu & Ordering System

https://www.academia.edu/11259743/Software_Requirements_Specification_Restaurant_Menu_and_Ordering_System

- Software Requirements Specification Restaurant Management Project Report

<https://sites.google.com/site/ignoubcafinalyearprojects/project-report/restaurant-management-system-project-report>

3. INTRODUCTION

Background to the Problem

Restaurant management software is an unexpected surprise for the entrepreneur or a small business owner. A restaurant management system helps manage orders simply across all platforms. It keeps track of both online and physical orders. Every update is mirrored on system, and customers are continually notified. The entire procedure becomes simple, and customer's may check the progress of their purchase at any time.

The restaurant may serve great cuisine and have the best chefs on staff, but this is insufficient for advertising if the establishment does not have a website. Restaurant websites are an excellent place to begin advertising their company and attracting new customers. The cloud-based restaurant billing software is available on a monthly subscription basis. On the other hand, customer's may obtain a whole bundle for a one-time fee. As a result, open source restaurant management software is the finest and most appropriate for your restaurant business.

To begin, hungry guests might look over your restaurant's dishes and meals. They may quickly order the meals they want from the website using mobile devices. Second, restaurant owners may manage all operations, such as workforce, inventory, online orders, accounts, finance, and so on, using a dynamic admin interface.

The long-term goal of an entrepreneur or small restaurant company owner is to stay in business. A restaurant table management software aids in the effective operation of a restaurant's business. Managing a large number of orders at once may be hard and challenging. An online food management system can give an accurate order management method in this regard. Proper order management is critical to customer happiness. The consumer is pleased with the efficient online buying process. Customer retention will improve as a result of this.

The first issue that conventional offline restaurants confront is inconvenience. More and more individuals believe that ordering food online is more convenient and user-friendly than conventional dining out since orders can be simply ordered using a mobile app or a website and delivered quickly. However, there may be several approaches that offline restaurants may use to address this issue and increase their competitiveness. One of them is working on an app to make ordering easier and to improve customer experiences. People may use this app to not only preview the menu and book a reservation, but also to place pre-orders. This helps the restaurant to plan the time and ingredients needed ahead of time, potentially reducing customer wait time. People may also get recommendations and evaluations from previous customers who visited the restaurant in the app, which helps them make smarter decisions in less time.

Solution to the Problem

A restaurant is a type of company that provides ready-made cuisine to customers all around the world. Our system is developed to provide service to both the restaurant and the customer.

We propose creating a software project that can successfully handle and manage various restaurant activities, all of which will be overseen by the administrator. Restaurants are now expanding at a rapid pace. They must handle their jobs and operations at the same time. The easiest strategy to utilize these operations is to expand the company's internet presence. Today's younger generation prefers high-tech services, particularly those delivered online. As a consequence, the project has been expertly designed to aid restaurant owners in automating their business activities. Customers' information is kept in the greatest possible condition, and their demands are addressed, thanks to this effort.

By embracing new technology, they not only make their consumers' life easier, but they also ensure that their company can compete in the market. When it comes to online ordering, the choice of technology isn't just about being able to place orders online, but also about being able to reach the right people in the right places at the right time.

People used to have to call in orders or drive to restaurants for take-out, then wait for the meal to be made and delivered. When placing an order over the phone, it is possible that there will be errors in the order. Clearly, these aren't the finest ways to order meals from restaurants, especially for those who have hectic lives. Switching to online ordering is the best solution. Business operators may establish a website, an app, or both to simplify the ordering process for consumers. An online ordering system can help a restaurant's day-to-day operations run more smoothly. When a consumer puts an order online, they take their time to read the menu and become acquainted with any add-on bargains or specials that the restaurant may be providing. This can result in an exponential increase in total order value.

By offering an end-to-end Customer Interaction Management system, an online ordering system for restaurants helps to improve the customer-restaurant relationship. It gives a comprehensive sales dashboard that includes information on new/active/canceled orders, lifetime sales details, and so on. This system also includes an order management system, which simplifies the ordering process from order placement to final delivery.

Customers may use their mobile phones, tablets, or other portable devices to place orders at any time and from any location. There is no need for the consumer to call while violating their privacy or disrupting a meeting to place a lunch order. A mobile app allows the consumer to place a purchase without having to converse on the phone.

4. REQUIREMENT SPECIFICATION

4.1 System Features

4.1.1 System Sign up

- Username Must Be 6 characters Long to insert username.
 - Username Should Not Contain White Space to insert username.
 - Email must contain @ to insert email.
 - Password Must Be 8 Character Long to insert password.
 - The software will allow the admin to sign up into the system by providing name, username, email and finally setting a password.
 - By providing name, username, email, and finally a password, the software will also enable the customer to register with the system.
 - The sign-up page can be found by going to the login page and then clicking the sign-up link under the login button.
 - After providing all info then by clicking sign up, the user will be registered to the system.
- **Priority Level:** Medium
- **Precondition:** Null
- **Cross-references:** Null.

4.1.2 System Log in

- Username Must Be 6 characters Long to insert username.
 - Password Must Be 8 Character Long to insert password.
 - The software will allow the admin, manager, deliveryman and customer to login into their individual site by providing valid username and password.
 - After providing valid username and password then by clicking login, the user will be redirect to their individual home page.
- **Priority Level:** High
- **Precondition:** Admin & Customer must sign up and Manager & Deliveryman need to be added to the system by admin.
- **Cross-references:** 4.1.1, 4.1.3, 4.1.7

4.1.3 Create Manager

- Email must contain @ to insert manager email.
- Phone number should contain Numeric values only to insert manager phone number.
- The software will allow the admin to insert any new manager information into the system database.
- By inserting name, email, phone no, address, joining date and finally by selecting gender, the software will enable the admin to add new manager into the system.

- After providing all info about new manager then by clicking add, the manager will be registered to the system.
- **Priority Level:** High
- **Precondition:** Null.
- **Cross-references:** Null.

4.1.4 Read Manager

- The software will allow the admin to see all manager information stored from the system database.
- By clicking on edit button admin can also update any manager information from the system.
- By clicking on delete button admin can also remove any manager information from the system.
- **Priority Level:** Medium
- **Precondition:** Manager must be registered to the system.
- **Cross-references:** 4.1.3.

4.1.5 Update Manager

- Email must contain @ to update manager email.
- Phone number should contain Numeric values only to update manager phone number.
- The software will allow the admin to update any new manager information into the system database.
- By updating name, email, phone no, address, joining date and finally by selecting gender, the software will enable the admin to update any existing manager information into the system.
- After updating information about any manager then by clicking update, the manager updated information will be reform to the system.
- **Priority Level:** High
- **Precondition:** Manager must be registered to the system.
- **Cross-references:** 4.1.3.

4.1.6 Delete Manager

- The software will allow the admin to remove any manager information stored in the system database.
- By clicking on delete button admin can also remove any manager information from the system successfully.
- **Priority Level:** High
- **Precondition:** Manager must be registered to the system.
- **Cross-references:** 4.1.3.

4.1.7 Create Deliveryman

- Email must contain @ to insert deliveryman email.
 - Phone number should contain Numeric values only to insert deliveryman phone number.
 - The software will allow the admin to insert any new deliveryman information into the system database.
 - By inserting name, email, phone no, address, joining date then again selecting gender and as well as by providing NID copy, the software will enable the admin to add new deliveryman into the system.
 - After providing all info about new deliveryman then by clicking add, the deliveryman will be registered to the system.
- **Priority Level:** High
 ➤ **Precondition:** Null.
 ➤ **Cross-references:** Null.

4.1.8 Read Manager

- The software will allow the admin to see all deliveryman information stored from the system database.
 - By clicking on edit button admin can also update any deliveryman information from the system.
 - By clicking on delete button admin can also remove any deliveryman information from the system.
- **Priority Level:** Medium
 ➤ **Precondition:** Deliveryman must be registered to the system.
 ➤ **Cross-references:** 4.1.7.

4.1.9 Update Manager

- Email must contain @ to update manager email.
 - Phone number should contain Numeric values only to update deliveryman phone number.
 - The software will allow the admin to update any new deliveryman information into the system database.
 - By updating name, email, phone no, address, joining date then again selecting gender and as well as by providing NID copy, the software will enable the admin to update any existing deliveryman information into the system.
 - After updating information about any deliveryman then by clicking update, the deliveryman updated information will be reform to the system.
- **Priority Level:** High
 ➤ **Precondition:** Deliveryman must be registered to the system.
 ➤ **Cross-references:** 4.1.7.

4.1.10 Delete Manager

- The software will allow the admin to remove any deliveryman information stored in the system database.

- By clicking on delete button admin can also remove any deliveryman information from the system successfully.
- **Priority Level:** High
- **Precondition:** Deliveryman must be registered to the system.
- **Cross-references:** 4.1.7.

4.1.11 Create Food Menu

- Food price should contain Numeric values only to insert food price inside menu.
- The software will allow the admin to insert any new food details into the system database.
- By inserting food name, price and finally by selecting category, the software will enable the admin/ manager to add new food item into the system.
- After providing all info about new food item then by clicking add menu, the food item will be registered to the system.
- **Priority Level:** High
- **Precondition:** Null.
- **Cross-references:** Null.

4.1.12 Read Food Menu

- The software will allow the admin/ manager/ customer to see all food item details stored from the system database.
- By clicking on edit button admin/ manager can also update any food item details from the system.
- By clicking on delete button admin/ manager can also remove any food item details information from the system.
- From customer site food menu can be seen in category wise for example: fast-food, snacks, lunch, dinner, dessert, drinks.
- **Priority Level:** Medium
- **Precondition:** Food item must be registered to the system.
- **Cross-references:** 4.1.11.

4.1.13 Update Food Menu

- Food price should contain Numeric values only to update food price inside menu.
- The software will allow the admin to insert any new food item details into the system database.
- By updating food name, price finally by selecting category, the software will enable the admin/ manager to update existing food item into the system.
- After updating information about any food item then by clicking update, the food item updated information will be reform to the system.
- **Priority Level:** High
- **Precondition:** Food item must be registered to the system.

- **Cross-references:** 4.1.11.

4.1.14 Delete Food Menu

- The software will allow the admin/ manager to remove any food item details stored in the system database.
- By clicking on delete button admin/ manager can also remove any food item details from the system successfully.
- **Priority Level:** High
- **Precondition:** Food item must be registered to the system.
- **Cross-references:** 4.1.11.

4.1.15 Create Income Statement

- Rent expenses should contain Numeric values only to insert rent cost inside income statement.
- Tax should contain Numeric values only to insert tax inside income statement.
- Food Expenses should contain Numeric values only to insert food cost inside income statement.
- Utility Bill should contain Numeric values only to insert utility bill inside income statement.
- Expenses should contain Numeric values only to insert expenses inside income statement.
- Catering Expenses should contain Numeric values only to insert catering cost inside income statement.
- Delivery Charge should contain Numeric values only to insert delivery cost inside income statement.
- Total Cost should contain Numeric values only to insert total charge inside income statement.
- Total Income should contain Numeric values only to insert total income inside income statement.
- Profit should contain Numeric values only to insert profit inside income statement.
- The software will allow the admin to insert daily income details into the system database.
- By inserting rent, tax, raw expenses, utilities, other expenses, catering expenses, delivery expenses, total expenses, total income and finally by inserting profit, the software will enable the admin to store daily income status into the system.
- After providing all info about daily income then by clicking store, the income statement will be registered to the system.
- **Priority Level:** High
- **Precondition:** Null.
- **Cross-references:** Null.

4.1.16 Read Income Statement

- The software will allow the admin to see daily stored income statements from the system database.
- From here admin can easily check the business profit through different time to time.
- **Priority Level:** Medium
- **Precondition:** Income statement must be stored to the system.
- **Cross-references:** 4.1.15.

4.1.17 Create Shipping Statement

- Email must contain @ to insert shipper email.
- Phone number should contain Numeric values only to insert shipper phone number.
- Phone Number Must Be 11 Character Long to insert shipper phone number.
- The software will allow the admin to insert any new shipping information into the system database.
- By inserting name, email, phone no, address and finally by selecting shipping date, the software will enable the admin to add new shipping status into the system.
- After providing all info about new shipping status then by clicking insert, the shipping details will be stored to the system.
- **Priority Level:** High
- **Precondition:** Null.
- **Cross-references:** Null.

4.1.18 Read Shipping Statement

- The software will allow the admin to see all the shipping statement stored from the system database.
- By clicking on edit button admin can also update any shipping details from the system.
- From here admin can easily check the upcoming shipping details or previous shipping details.
- **Priority Level:** Medium
- **Precondition:** Shipping statement must be stored to the system.
- **Cross-references:** 4.1.17.

4.1.19 Update Shipping Statement

- Email must contain @ to update shipper email.
- Phone number should contain Numeric values only to update shipper phone number.
- Phone Number Must Be 11 Character Long to update shipper phone number.
- The software will allow the admin to update any existing shipping information into the system database.
- By updating name, email, phone no, address and finally by selecting shipping date, the software will enable the admin to update existing shipping status into the system.
- After providing all info about updated shipping status then by clicking insert, the updated shipping details will be reform to the system.

- **Priority Level:** High
- **Precondition:** Shipping statement must be stored to the system.
- **Cross-references:** 4.1.17.

4.1.20 Read Delivery Statement

- The software will allow the admin to see all the delivered statement stored from the system database.
- From here admin can easily check the previously done delivery details.
- Regular customers' information, including contact information so that the admin can easily announce any discounts to them, can be easily found from delivery statements.
- **Priority Level:** Medium
- **Precondition:** Delivery statement must be stored to the system.
- **Cross-references:** 4.1.34

4.1.21 Create Online Order

- Email must contain @ to insert shipper email.
- Phone number should contain Numeric values only to insert orderer phone number.
- Phone Number Must Be 11 Character Long to insert orderer phone number.
- The software will allow the admin to insert any new orderer information into the system database.
- By inserting food name, quantity, orderer email, phone no, the software will enable the manager to add new online order into the system.
- After providing all info about new online order details then by clicking add order, the online order details will be stored to the system.
- **Priority Level:** High
- **Precondition:** Null.
- **Cross-references:** Null.

4.1.22 Read Online Order

- The software will allow the manager to see all the online order details stored from the system database.
- By clicking on cancel button manager can also remove any online order details from the system.
- From here manager can easily track the ongoing online order details or previous online order details.
- **Priority Level:** Medium
- **Precondition:** Online order details must be stored to the system.
- **Cross-references:** 4.1.21.

4.1.23 Delete Online Order

- The software will allow the manager to cancel any online order stored in the system

database.

- By clicking on cancel button manager can remove any online order details from the system successfully within 5 minutes of placing the order.
 - **Priority Level:** Medium
 - **Precondition:** Online order details must be registered to the system.
 - **Cross-references:** 4.1.21.

4.1.24 Create Discount Offer

- Food price should contain Numeric values only to insert any existing food price.
- Discounted price should contain Numeric values only to insert any discounted food price
- The software will allow the manager to insert any new discount offer into the system database.
- By inserting food name, existing food price and finally declaring the discounted food price, the software will enable the manager to add new discount offer into the system.
- After providing all info about new discount offer then by clicking add discount, the discount offer will be stored to the system and will be applicable until the discount is removed.
 - **Priority Level:** Medium
 - **Precondition:** Null.
 - **Cross-references:** Null.

4.1.25 Read Discount Offer

- The software will allow the manager to see all the ongoing discount offer stored from the system database.
- By clicking on cancel button manager can also remove any discount offer from the system.
- From here manager can easily track the ongoing discount offer.
- **Priority Level:** Low
- **Precondition:** Discount offer must be stored to the system.
- **Cross-references:** 4.1.24.

4.1.26 Update Discount Offer

- Food price should contain Numeric values only to update any existing food price.
- Discounted price should contain Numeric values only to update any discounted food price
- The software will allow the manager to update any existing discount offer into the system database.
- By updating food name, existing food price and finally declaring the discounted food price, the software will enable the manager to update any existing discount offer into the system.
- After providing all info about updated discount offer then by clicking update, the

discount offer will be reform to the system and will be applicable until the discount is removed.

- **Priority Level:** Medium
- **Precondition:** Discount offer must be stored to the system.
- **Cross-references:** 4.1.24.

4.1.27 Delete Discount Offer

- The software will allow the manager to cancel any ongoing discount offer stored in the system database.
- By clicking on delete button manager can remove any discount offer from the system successfully.
- **Priority Level:** Medium
- **Precondition:** Discount offer must be registered to the system.
- **Cross-references:** 4.1.24.

4.1.28 Create Raw Materials Shipping

- Email must contain @ to insert shipper email.
- Phone number should contain Numeric values only to insert shipper phone number.
- Phone Number Must Be 11 Character Long to insert shipper phone number.
- The software will allow the manager to insert any new raw material shipping information into the system database.
- By inserting first name, last name, email, phone no, the software will enable the manager to add new raw material shipping status into the system.
- After providing all info about new raw material shipping status then by clicking add shipping, the raw material shipping details will be stored to the system.
- **Priority Level:** High
- **Precondition:** Null.
- **Cross-references:** Null.

4.1.29 Read Raw Materials Shipping

- The software will allow the manager to see all the raw material shipping statement stored from the system database.
- By clicking on update button manager can also update any upcoming raw material shipping details from the system.
- From this point, the manager can quickly look up past or upcoming raw material shipping information to decide whether to offer the shipper a contract or not.
- **Priority Level:** Medium
- **Precondition:** Raw material shipping statement must be stored to the system.
- **Cross-references:** 4.1.28.

4.1.30 Update Raw Materials Shipping

- Email must contain @ to update shipper email.
 - Phone number should contain Numeric values only to update shipper phone number.
 - Phone Number Must Be 11 Character Long to update shipper phone number.
 - The software will allow the manager to update any existing raw material shipping information into the system database.
 - By updating first name, last name, email, phone no, address, the software will enable the manager to update existing raw material shipping status into the system.
 - After providing all info about updated raw material shipping status then by clicking update shipping, the updated raw material shipping details will be reform to the system.
- **Priority Level:** Medium
- **Precondition:** Raw material shipping statement must be stored to the system.
- **Cross-references:** 4.1.28.

4.1.31 Create Reservation

- Phone number should contain Numeric values only to insert reservee phone number.
 - Phone Number Must Be 11 Character Long to insert reservee phone number.
 - Pre-payment should contain Numeric values only as well as need to satisfy the pre-payment policy to insert pre-payment amount.
 - The software will allow the manager to insert any new reservation information into the system database.
 - By inserting name, phone no, address, pre-payment amount and then finally by selecting the reservation date, the software will enable the manager to add new reservation status into the system.
 - After providing all info about new reservation then by clicking add reservation, the reservation details will be stored to the system.
 - Confirming any new reservation into system by customer it can be seen by manager.
- **Priority Level:** High
- **Precondition:** Null.
- **Cross-references:** Null.

4.1.32 Read Reservation

- The software will allow the manager to see all the reservation details stored from the system database.
 - By clicking on edit button manager can also update any upcoming reservation details from the system.
 - From this point, the manager can quickly look up past or upcoming reservation details.
- **Priority Level:** Medium
- **Precondition:** Reservation details must be stored to the system.
- **Cross-references:** 4.1.31.

4.1.33 Update Reservation

- Phone number should contain Numeric values only to update reservee phone number.
 - Phone Number Must Be 11 Character Long to update reservee phone number.
 - The software will allow the manager to update any existing reservation information into the system database.
 - By updating name, phone no, address, pre-payment amount and then finally by selecting the reservation date, the software will enable the manager to update existing reservation status into the system.
 - After providing all info about updated reservation then by clicking edit reservation, the reservation details will be reform to the system.
- **Priority Level:** Medium
- **Precondition:** Reservation details must be stored to the system.
- **Cross-references:** 4.1.31.

4.1.34 Create Delivery Statement

- Phone number should contain Numeric values only to insert orderer phone number.
 - Phone Number Must Be 11 Character Long to insert orderer phone number.
 - Email must contain @ to insert orderer email.
 - Price should contain Numeric values only to insert food price.
 - Tax should contain Numeric values only to insert tax.
 - Total price should contain Numeric values only to insert total price.
 - The software will allow the manager to see all the delivered statement stored from the system database.
 - From here manager can easily check the previously done delivery details.
 - Regular customers' information, including contact information so that the manager can easily announce any discounts to them, can be easily found from delivery statements.
- **Priority Level:** High
- **Precondition:** Null
- **Cross-references:** Null.

4.1.35 Read Delivery Statement

- The software will allow the manager/ deliveryman to see all the delivery details stored from the system database.
 - From this point, the manager can quickly look up past or upcoming delivery details.
 - From this point, the deliveryman can quickly look up upcoming delivery details.
- **Priority Level:** Low
- **Precondition:** Delivery details must be stored to the system.
- **Cross-references:** 4.1.34.

4.1.36 Order Food

- By selecting food item and quantity, the software will enable the customer to place order into the system.

- After selecting food item and quantity a delivery contact info page will be pop up.
- By inserting name, phone no, address, extra requirement, date, time, the software will enable the customer to confirm order into the system.
- After providing all info about orderer contact info then by clicking insert, the order will be confirmed to the system.
 - **Priority Level:** High
 - **Precondition:** Null
 - **Cross-references:** Null.

4.1.37 System Review

- The software will allow the customer to post review inside the system.
- From here admin/ manager can easily check the review posted by customer.
 - **Priority Level:** Low
 - **Precondition:** Null
 - **Cross-references:** Null.

4.1.38 Log out

- The software will allow the admin, manager, deliveryman and customer to logout from their individual site and take them to the general home page.
 - **Priority Level:** Medium
 - **Precondition:** User must be logged in, in the system.
 - **Cross-references:** 4.1.2.

4.2 System Quality Attributes

4.2.1 Availability

The software will be available for 24/7. As the software will be using through internet, it will be very easy to perform any operations with the software from anywhere at any time, if not any inconvenient issue occurs.

Priority Level: High

4.2.2 Performance

Every web page of the software will be downloaded in 10 seconds or less over a 60 Kbps modem connection. So that, the user can get a smooth performance while using the software.

Priority Level: High

4.2.3 Integrity

The user will have the privilege of authentication if the user wants. Also, the software will ask for authentication if the user changes device. The personal information of one user will be protected because there will be access restrictions of others.

Priority Level: High

4.2.4 Robustness

The software will automatically exit the system or Logout, if the user has no involvement with the software in 20 minutes, because of avoiding being hacked. The software will save data in every 10 seconds while the user will do any operations. So that, if the user got any inconvenient issue, the user can just start the same operations from where it left.

Priority Level: High

4.2.5 Usability

A trained user shall be able to submit a complete request for creating, reading, updating or deleting any operation only in 2 minutes.

Priority Level: High

4.2.6 Efficiency

At least 30 percent of the processor capacity and RAM available to the application shall be unused at the planned peak load conditions. So that, the user can get instant responses from the software, if the number of users is high.

Priority Level: Medium

4.2.7 Reliability

The software will not fail no more than five experimental runs out of 1000.

Priority Level: Medium

4.2.8 Maintainability

A user can easily modify any information, if it is given wrong. But for modification, the user must go through security phases.

Priority Level: Medium

4.3 System Interface

4.3.1 General System Interface View

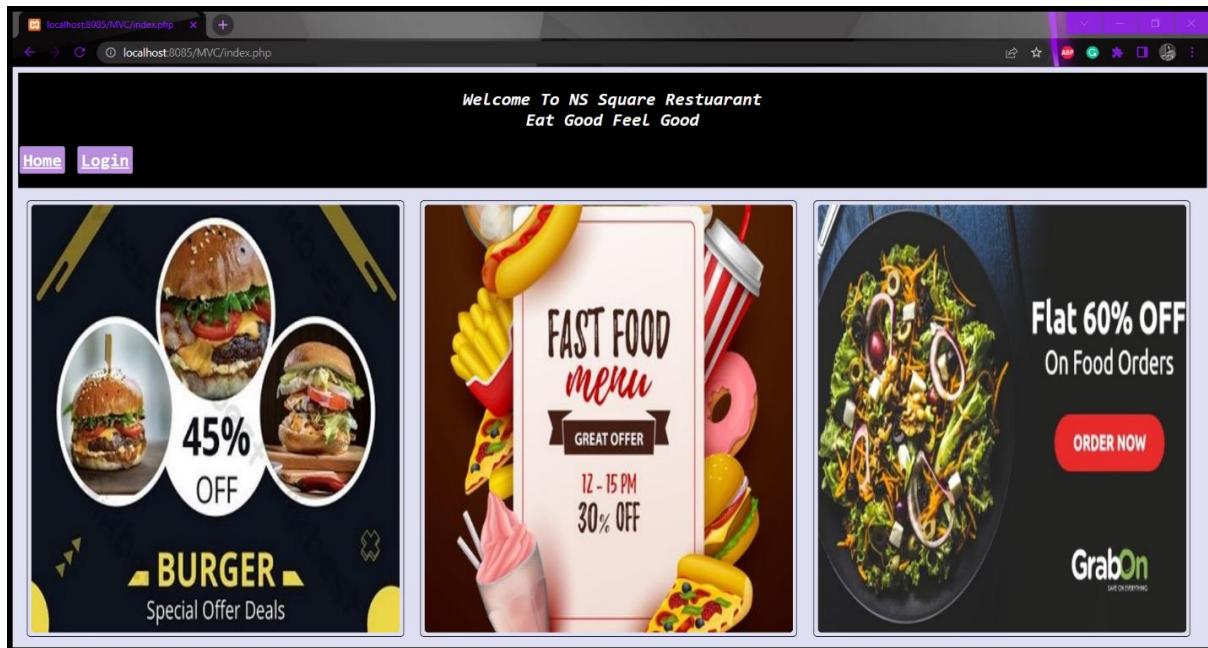


Figure1: General Home Page

This is the NS Square Restaurant Management System's general page. This page, which includes all the discount offers, is displayed without registration or login. It will redirect to the login page by clicking the login option in the top left corner.

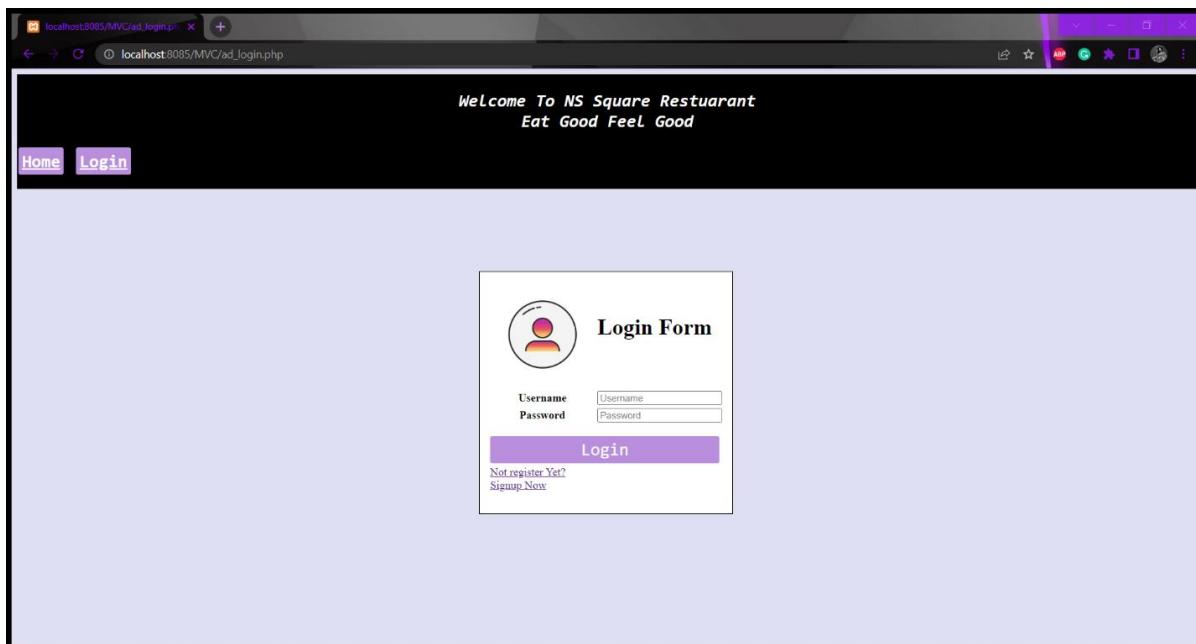


Figure2: Login Page

This is the NS Square Restaurant Management System login page. It will appear after selecting the login option on the General page. Clicking on the Signup option it will direct to the sign-up page if doesn't register for the system yet.

The screenshot shows a web browser window with the URL `localhost:8085/MVC/ad_signup.php`. The page title is "Sign Up". The form consists of four input fields arranged vertically: "Name" (with placeholder "First Name"), "Username" (with placeholder "Username"), "Email" (with placeholder "Email"), and "Password" (with placeholder "Password"). Below the form is a purple "Sign Up" button.

Figure3: Sign Up Page

This is the registration page for the NS Square Restaurant Management System. After providing all the necessary information, click "sign up" to complete registration. The user will then be redirected to their own page by returning to the login page and entering a valid username and password. There are 4 users available in our NS Square Restaurant Management System. 1. Admin, 2. Manager, 3. Deliveryman, 4. Customer.

4.3.2 Admin System Interface View

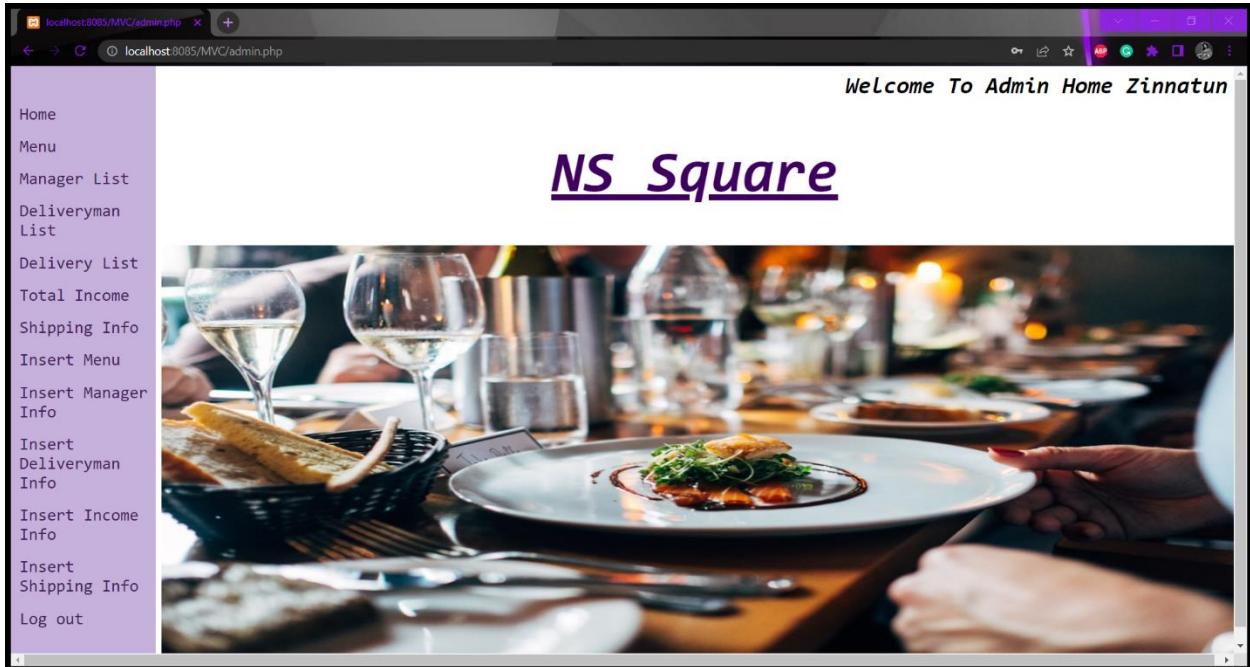


Figure4: Admin Home Page

The admin will be redirected to the Admin Home page after entering a valid username and password. If there are multiple admins available, the top right corner of the admin home page will also display which admin is currently using it.

A screenshot of a web browser window showing the Manager Insertion page. The URL is 'localhost:8085/MVC/m_insertion.php'. The title bar says 'Manager Insertion'. The form consists of several input fields: Name (text input), Email (text input), Phone (text input), Address (text input), Joining Date (a dropdown menu for Day, Month, and Year), and Gender (radio buttons for Male and Female). At the bottom is a large purple 'Add' button.

Figure5: Manager Insertion Page

Manager registration is the responsibility of the admin. The administrator will add all of the new manager's information here. Manager can then access their personal page by entering the username and password that admin has provided.

Id	Name	Email	Phone	Address	Joining Day	Joining Month	Joining Year	Gender		
1	Zinnatun Nissa	zinnatun.nissa@gmail.com	1515602057	ka-20,kuratuli,khilkhel,dhaka-1229	11	May	2021	Female	<button>Edit</button>	<button>Delete</button>
2	Junaynah Ahmed	junaynah11@gmail.com	1711547654	ka-20,kuratuli,khilkhel,dhaka-1229	28	June	2021	Female	<button>Edit</button>	<button>Delete</button>

Figure6: Manager Information Page

This page will display all of the managers added to the system. Additionally, by selecting the edit option, manager information can be updated, or by selecting the delete option, manager information can be permanently deleted.

Name	<input type="text" value="Manager Name"/>
Email	<input type="text" value="Email"/>
Phone	<input type="text" value="Number"/>
Address	<input type="text" value="Address"/> <input type="text" value="City"/> <input type="text" value="Zip Code"/>
Joining Date	<input type="text" value="Day"/> <input type="text" value="Month"/> <input type="text" value="Year"/>
Gender	<input type="radio"/> Male <input type="radio"/> Female
Update	

Figure7: Manager Information Update Page

This is our system's manager info update page. Admin can update any manager-related information from this page.

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

- Name: Input field
- Email: Input field
- Phone: Input field
- Address: Input field
- Joining Date: A dropdown menu with three parts: Day, Month, and Year.
- Gender: Radio buttons for Male and Female.
- NID Submission: Input field with a file selection icon.

At the bottom of the form is a purple "Add" button.

Figure8: Delivery Man Insertion Page

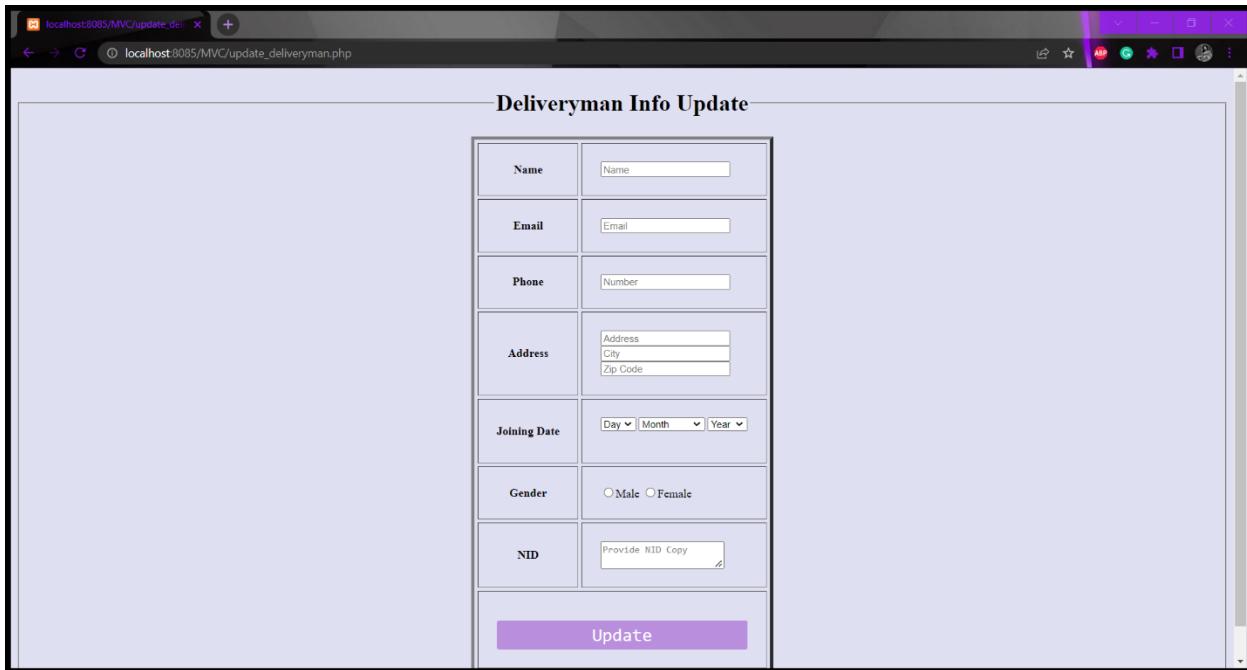
The admins is in charge of registration for deliverymen. The admins will fill in all of the data for the new deliveryman here. Once the username and password have been entered, the deliveryman can access their personal page.

The screenshot shows a web browser window titled "Deliveryman Info". The page displays a table of deliveryman information:

ID	Name	Email	Phone	Address	Joining Day	Joining Month	Joining Year	Gender	NID	Edit	Delete
1	Zinnatun Nissa	zinnatun.nissa@gmail.com	1515602057	ka-20,kurutuli,khilkhel,dhaka-1229	11	May	2021	Female	1234567890	<button>Edit</button>	<button>Delete</button>
2	Junaynah Ahmed	junaynah11@gmail.com	1515602057	ka-20,kurutuli,khilkhel,dhaka-1229	28	June	2021	Male	1234567890	<button>Edit</button>	<button>Delete</button>

Figure9: Delivery Man Information Page

All of the deliverymen added to the system will be shown on this page. In addition, the deliveryman's information can be updated by choosing the edit option or deleted permanently by choosing the delete option.



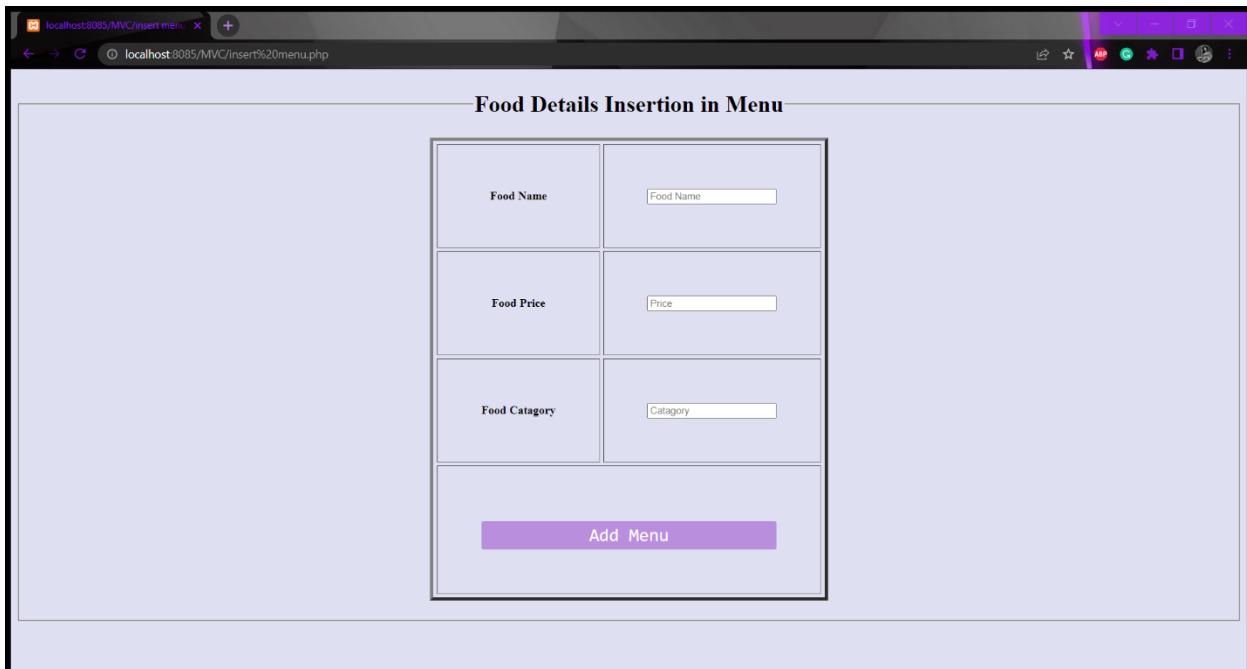
The screenshot shows a web browser window titled "Deliveryman Info Update". The URL in the address bar is "localhost:8085/MVC/update_deliveryman.php". The page contains a form with the following fields:

Name	<input type="text"/>
Email	<input type="text"/>
Phone	<input type="text"/>
Address	<input type="text"/> <input type="text"/> <input type="text"/>
Joining Date	<input type="text"/> Day Month Year
Gender	<input type="radio"/> Male <input type="radio"/> Female
NID	<input type="text"/>

At the bottom of the form is a purple "Update" button.

Figure10: Delivery Man Information Update Page

This is the deliveryman information update page for our system. Any deliveryman-related information can be updated by admin from this page.



The screenshot shows a web browser window titled "Food Details Insertion in Menu". The URL in the address bar is "localhost:8085/MVC/insert%20menu.php". The page contains a form with the following fields:

Food Name	<input type="text"/>
Food Price	<input type="text"/>
Food Category	<input type="text"/>

At the bottom of the form is a purple "Add Menu" button.

Figure11: Food Details Insertion Page

This form is used to insert new food item information. New food items can be added to the system's menu by entering their name, price, and category, then clicking "Add menu."

Food Id	Food Name	Food Price	Catagory		
1	chicken fry	100	snacks	Edit	Delete
2	dosa	200	snacks	Edit	Delete
3	doi fuchka	200	snacks	Edit	Delete
4	nachos	250	snacks	Edit	Delete
5	baked pasta	300	snacks	Edit	Delete
6	pizza	600	snacks	Edit	Delete
7	noodles	200	breakfast	Edit	Delete
8	french fry	100	breakfast	Edit	Delete

Figure12: Food Menu Page

This is the restaurant management system's food menu. The updated menu was visible when we come to this page. Also, by selecting the edit option, item information can be updated, and by selecting the delete option, item information can be permanently deleted.

Update Food Name	<input type="text" value="Food Name"/>
Update Food Price	<input type="text" value="Price"/>
Update Food Catagory	<input type="text" value="Catagory"/>
Update	

Figure13: Food Menu Update Page

This is the Food Item information update page for our system. Any Food Item-related information can be updated from this page.

The screenshot shows a web browser window with the URL `localhost:8085/MVC/income.php`. The page title is "Income Details". It contains a form with the following fields:

Rent	<input type="text"/>
Tax	<input type="text"/>
Raw Expenses	<input type="text"/>
Utilities	<input type="text"/>
Other Expenses	<input type="text"/>
Catering Expenses	<input type="text"/>
Delivery Expenses	<input type="text"/>
Total Expenses	<input type="text"/>
Total Income	<input type="text"/>
Profit	<input type="text"/>
Store	

Figure14: Income Details Page

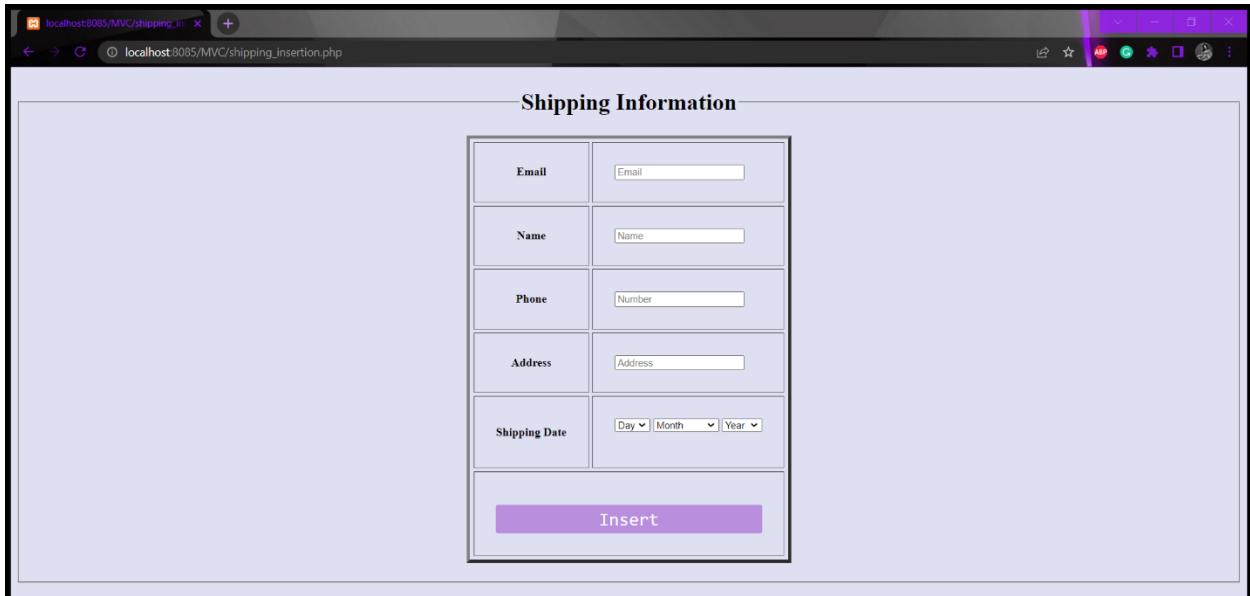
The Income Details page of the restaurant management system can be found here. This form allows administrators to store daily income information.

The screenshot shows a web browser window with the URL `localhost:8085/MVC/total_income.php`. The page title is "Income Info". It displays a table with the following data:

Id	Rent	Tax	Raw Expenses	Utilities	Other Expenses	Catering Expenses	Delivery Expenses	Total Expenses	Total Income	Profit
1	234567	123	345678	3456	345	234567	3456	123456789	2147483647	23456784
2	234	23	123	12	123	123	345	1234	34567	23456
3	234	23	123	12	123	123	345	1234	34567	23456
4	234	23	123	12	123	123	345	1234	34567	23456
5	234	23	123	12	123	123	345	1234	34567	23456
6	234	23	123	12	123	123	345	1234	34567	23456
7	234	23	123	12	123	123	345	1234	34567	23456

Figure15: Income Information Page

This is the page where the restaurant management system stores all of its income information. On this page, we can see the information about the daily stored income.



A screenshot of a web browser window showing a form titled "Shipping Information". The form consists of five input fields: Email, Name, Phone, Address, and Shipping Date. Below the form is a purple "Insert" button. The browser address bar shows "localhost:8085/MVC/shipping_insertion.php".

Figure16: Shipping Information Insertion Page

New shipping information can be entered using this form. All shipping information must be entered in order to update the system's database with any new shipping information.



A screenshot of a web browser window showing a table titled "Shipping Info". The table has columns for Id, Email, Name, Phone, Address, SDay, SMonth, SYear, and an Edit button. One row is visible, containing the values: Id=1, Email=zinnatun.nissa@gmail.com, Name=Zinnatun Nissa, Phone=01515602057, Address=ka-20,kuratuli,khilkhel,dhaka-1229, SDay=11, SMonth=May, SYear=2021, and Edit button. The browser address bar shows "localhost:8085/MVC/shipping.php".

Id	Email	Name	Phone	Address	SDay	SMonth	SYear	
1	zinnatun.nissa@gmail.com	Zinnatun Nissa	01515602057	ka-20,kuratuli,khilkhel,dhaka-1229	11	May	2021	<button>Edit</button>

Figure17: Shipping Information Page

The restaurant management system keeps all of its shipping information on this page. All of the shipping details that have been confirmed are listed on this page. Additionally, shipping details may be updated at any time by selecting the edit option.

localhost:8085/MVC/update_shipping.php

Update Shipping Information

Update Email	<input type="text"/>
Update Name	<input type="text"/>
Update Phone	<input type="text"/>
Update Address	<input type="text"/> <input type="text"/> <input type="text"/>
Shipping Date	<input type="text"/> Day Month Year
Insert	

Figure18: Shipping Information Update Page

This is the shipping details information update page for our system. Any shipping-related information can be updated by admin from this page.

localhost:8085/MVC/delivery.php

Delivery List

ID	Name	Phone	Address
1	Zinnatun Nissa	01515602057	ka-20,kurutuli,khilkhel,dhaka-1229
2	Zinnatun Nissa	01515602057	ka-20,kurutuli,khilkhel,dhaka-1229
3	Zinnatun Nissa	01515602057	ka-20,kurutuli,khilkhel,dhaka-1229
4	Zinnatun Nissa	01515602057	ka-20,kurutuli,khilkhel,dhaka-1229
5	Zinnatun Nissa	01515602057	ka-20,kurutuli,khilkhel,dhaka-1229
6	Zinnatun Nissa	01515602057	ka-20,kurutuli,khilkhel,dhaka-1229
7	Zinnatun Nissa	01515602057	ka-20,kurutuli,khilkhel,dhaka-1229

Figure19: Delivery List Information Page

The data on this page, which is the already delivered shipping information list, was taken from the system database. All of the information on this page was entered by the manager and is available to observe by the admin through the system's database.

4.3.3 Manager System Interface View

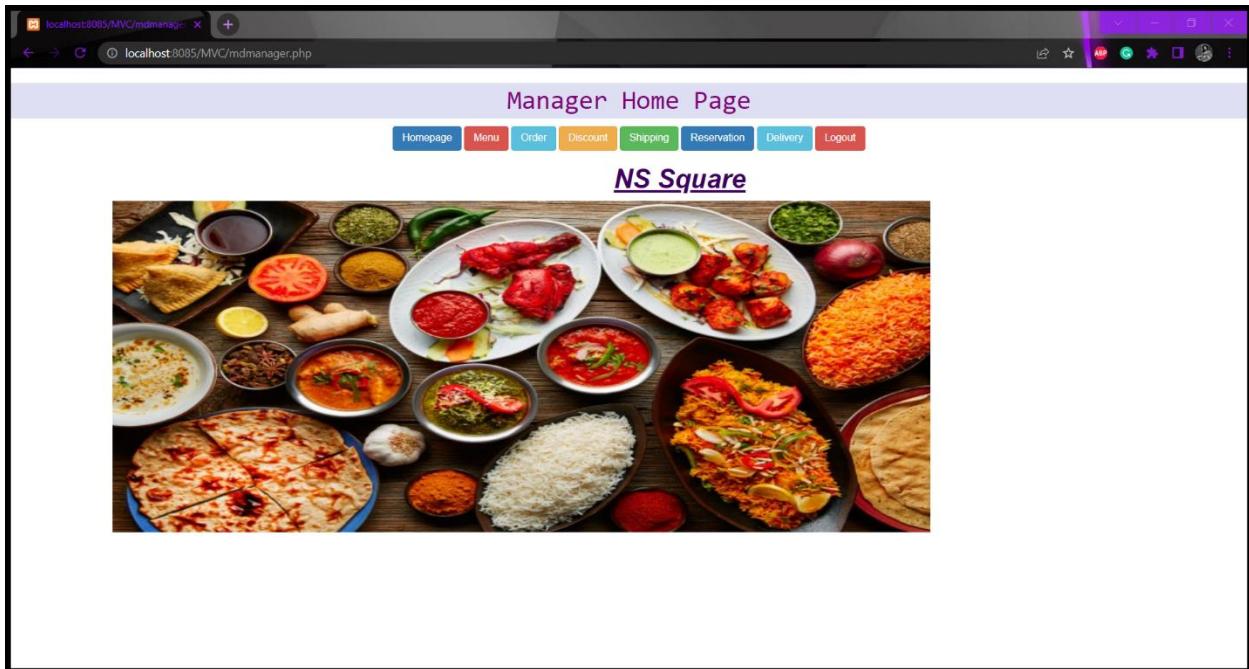


Figure20: Manager Home Page

The manager will be redirected to the Manager Home page after entering a valid username and password given by admin.

A screenshot of a web browser window titled "Insert Food Menu". The URL in the address bar is "localhost:8085/MVC/md_menu.php". The form has fields for Food Name (name), Price (price), Category (Choose Catagory dropdown), Food Quantity (quantity), Added By (addedby), and an "Insert Menu" button.

Figure21: Menu Insertion Page

This form is used to insert new food item information. New food items can be added to the system's menu by entering their name, price, quantity, added by whom and category, then clicking "Insert menu."

Serial	Name	Price	Catagory	Quantity	Added_by		
1	Burger	200	Snacks	20	manager	Edit	Delete
2	Pasta	300	Snacks	20	manager	Edit	Delete
3	Burger	250	Snacks	12	manager	Edit	Delete
4	Noodles	300	Dinner	20	manager	Edit	Delete

Figure22: Updated Menu Page

This is the restaurant management system's food menu. The updated menu was visible to manager when come to this page. Also, by selecting the edit option, item information can be updated, and by selecting the delete option, item information can be permanently deleted.

Food Name:	Burger
Food Price:	200
Food Catagory:	Snacks
Food Quantity:	20
Added By:	manager

Update

Figure23: Edit Menu Details Page

This is the Food Item information update page for our system. Any Food Item-related information can be updated from this page.

Food Name	<input type="button" value="Choose Food Item"/>
Food Quantity	<input type="text" value="quantity"/>
Address	<input type="text" value="Address"/>
Customer's Number	<input type="text" value="Number"/>
Email	<input type="text" value="Email"/>

Add Order

Figure24: Oder Insertion Page

This form is used to insert any new order info place to the restaurant instantly. New order info can be added to the system's database by entering the ordered details by clicking "Add Order" button.

Order Details					
Serial	Food Name	Food Quantity	Customer's Address	Customer's Number	Email
1	Chicken Fry	120	mallbag	1701037691	sadia.sorno.zaman@gmail.com
2	Dosa	120	dhdjgv	1701037691	sadia.sorno.zaman@gmail.com

Figure25: Order details Information Page

This is the restaurant management system's order details form. The updated every order detail placed from the restaurant is visible to manager when come to this page. Also, by selecting the cancel option, order can be cancelled within 5 minutes of placing the order.

Name	Name
Food Price	Previous Price
Discount Price	Discount Price

Add Discount

Figure26: Discount Insertion Page

This form is used to generate any new discount coupon for online or offline customers. New discounted offer info can be added to the system's database by clicking "Add Discount."

Update Discount				
Serial	Food Name	Previous Price	Discount Price	
1	pasta	300	250	Edit Delete
2	Burger	300	100	Edit Delete

Figure27: Discount details update Page

This is the restaurant management system's all the given Discount coupon details form. The updated every Discount coupon detail placed is visible to manager when come to this page. Also, by selecting the edit option, discount coupon offer can be updated, and by selecting the delete option, discount offer can be removed.

The screenshot shows a web browser window with the URL `localhost:8085/MVC/mdadddiscount.php?id=1`. The page title is "Food:". It contains three input fields: a text input for "Food" containing "pasta", a text input for "Previous Price" containing "300", and a text input for "Discount Price" containing "250". A green "Update" button is located at the bottom right of the form.

Figure28: Discount details edit Page

This is the Discount offer update page for our system. Any Discounted Item-related information can be updated from this page.

The screenshot shows a web browser window with the URL `localhost:8085/MVC/mdmanager_shipping.php`. The page title is "Manager Shipping". It features a form with five input fields: "First Name" (text), "Last Name" (text), "Phone" (text), "Address" (text), and "Email" (text). Below the form is a black "ADD Shipping" button.

Figure29: Shipping Information Insertion Page

This form can be used to enter new shipping details. To update the system's database with any new shipping data, all shipping information must be entered. Through the use of this form, the system's database is updated with all the information regarding the delivered raw materials to the restaurant.

The screenshot shows a web browser window with the URL `localhost:8085/MVC/mdshipping.php`. The page title is "Shipping Details". It displays a table with six columns: "Serial", "First Name", "Last Name", "Phone Number", "Address", and "Email". There are two rows of data:

Serial	First Name	Last Name	Phone Number	Address	Email
1	kim	Namjooooooooo	1987654321	mailbag 098	sadia.sorno.zaman@gmail.com
2	Sadia	Zaman	1701037691	dhdjgv	sadia.sorno.zaman@gmail.com

Figure30: Shipping Details Information Page

The restaurant management system keeps all of its shipped raw material information on this page. All of the shipped raw material details are listed on this page. Additionally, shipping details may be updated at any time by selecting the edit option.

First Name:

Last Name:

Phone:

Address:

Email:

Update Shipping

Figure31: Shipping Details Update Information Page

This is the shipping details information update page for our system. Any raw material shipped-related information can be updated by manager from this page.

Name

Phone

Address

Reservation Date

Month

Day

Pre Payment

Add Reservation

Figure32: Reservation Details Insertion Page

Any online reservation information is entered into the restaurant system using this form. By entering the customer information and the reservation date and clicking "Add Reservation," new online reservation data can be added to the system's database. Customers who make reservations online must pay a fee to confirm the reservation and must pay the entire bill after receiving the full service in the restaurant.

Serial	Name	Phone	Address	Time	Previous Payment
3	shorno	1734997669	dhdgv	18	1200

Edit **Delete**

Figure33: Reservation Details Information Page

This is the online reservation details form for the restaurant management system. The manager can view the most recent versions of every online reservation detail when they visit this page. Additionally, the manager can edit online reservation details by choosing the edit option, and also can delete online reservation. But to cancel it Customer need to inform the manager within the next two hours then he can receive a full refund of the pre reservation fee.

The screenshot shows a web browser window titled "Edit Reservation". The URL is "localhost:8085/MVC/mdeditreservation.php?id=3". The page contains a form with the following fields:

- Client Name:** shorno
- Phone:** 1734997669
- Address:** dhdjv
- Time :** 18
- Previous Payment :** 1200

At the bottom right of the form is a green rectangular button labeled "Edit Reservation".

Figure34: Reservation Details Update Information Page

This is the online reservation information update page for our system. Any online reservation-related information can be updated by manager from this page.

The screenshot shows a web browser window titled "Manage Delivery". The URL is "localhost:8085/MVC/mdinsertdelivery.php". The page contains a form with the following fields:

- First Name:** [First Name]
- Last Name:** [Last Name]
- Phone:** [Number]
- Destination:** [Address]
- Email:** [Email]
- Price:** [Price]
- Tax:** [Tax]
- Total Price:** [Total Price]

At the bottom center of the form is a black rectangular button labeled "Add Delivery".

Figure35: Delivery Details Update Information Page

This form is used to input any online order data into the restaurant's computer system. All order information is entered into the system database by entering the customer information, pricing, and then clicking "Add Delivery." Online customers have the option of paying with cash on delivery or an online payment once their orders have been delivered.

Delivery Details									
Serial	First Name	Last Name	Phone Number	Address	Email	Price	Tax	Total Price	
1	kim	Taehyung	1987654321	Dhanmondi	shorno1029@gmail.com	500	150	650	
2	Sadia	Zaman	1701037691	dhdjv	sadia.sorno.zaman@gmail.com	100	150	650	

Figure36: Delivery Details Information Page

This is the online order delivered details form for the restaurant management system. The manager can view the most recent versions of every online order delivered detail when they visit this page.

4.3.4 Deliveryman System Interface View



Figure37: Delivery Man Home Page

The deliveryman will be redirected to the Deliveryman Home page after entering a valid username and password given by admin.



Figure38: Customers Order Details Information Page

This form can be used to enter any customer's new shipping information. This form can be used to store all of the customer's delivery-related information, making it possible for the deliveryman to view the customer's contact information at any time and quickly recall the shipping address.

4.3.5 Customer System Interface View



Figure39: Customer's Home Page

After completion of a successful registration the customer will be redirected to the Customer Home page by entering a valid username and password.



Figure40: Customer Food Menu Page

This is the customer's food menu page. From this point, customers can select the category of food item they are currently craving.

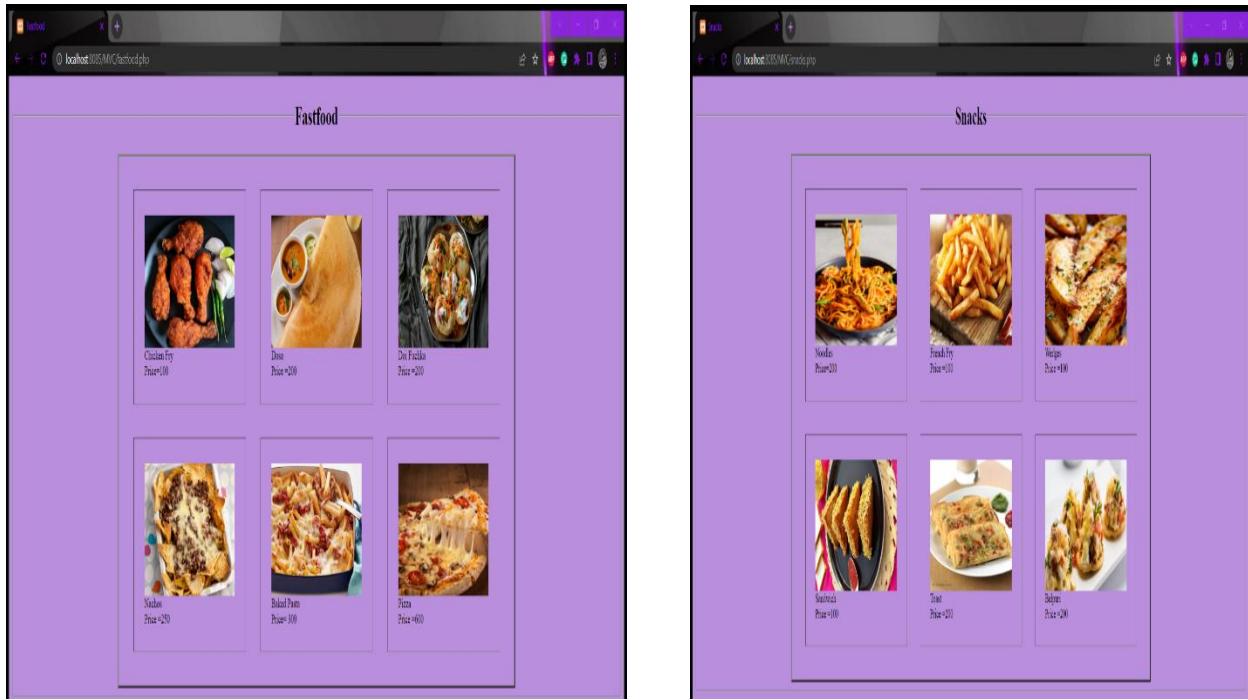


Figure41: Customer's Categorized Food Menu Page

Food menus organized by variety set will be displayed after selecting a specific category. Initially, clicking on fast food will display the left page, then clicking on snacks will display the right page.

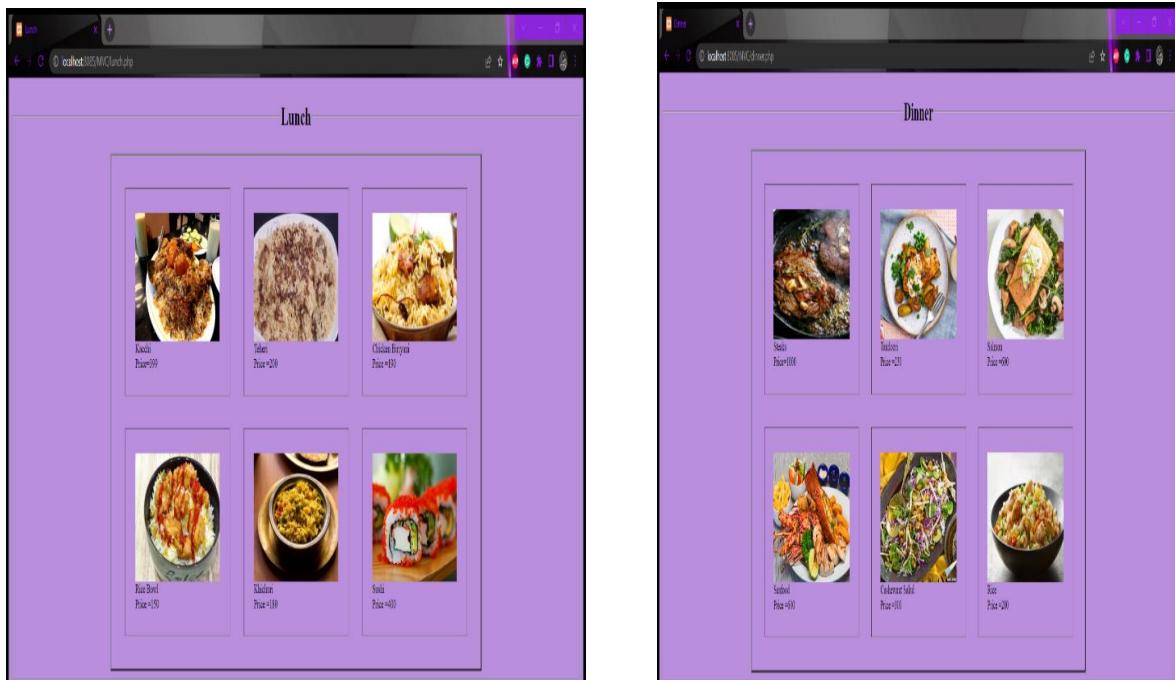


Figure42: Customer's Categorized Food Menu Page

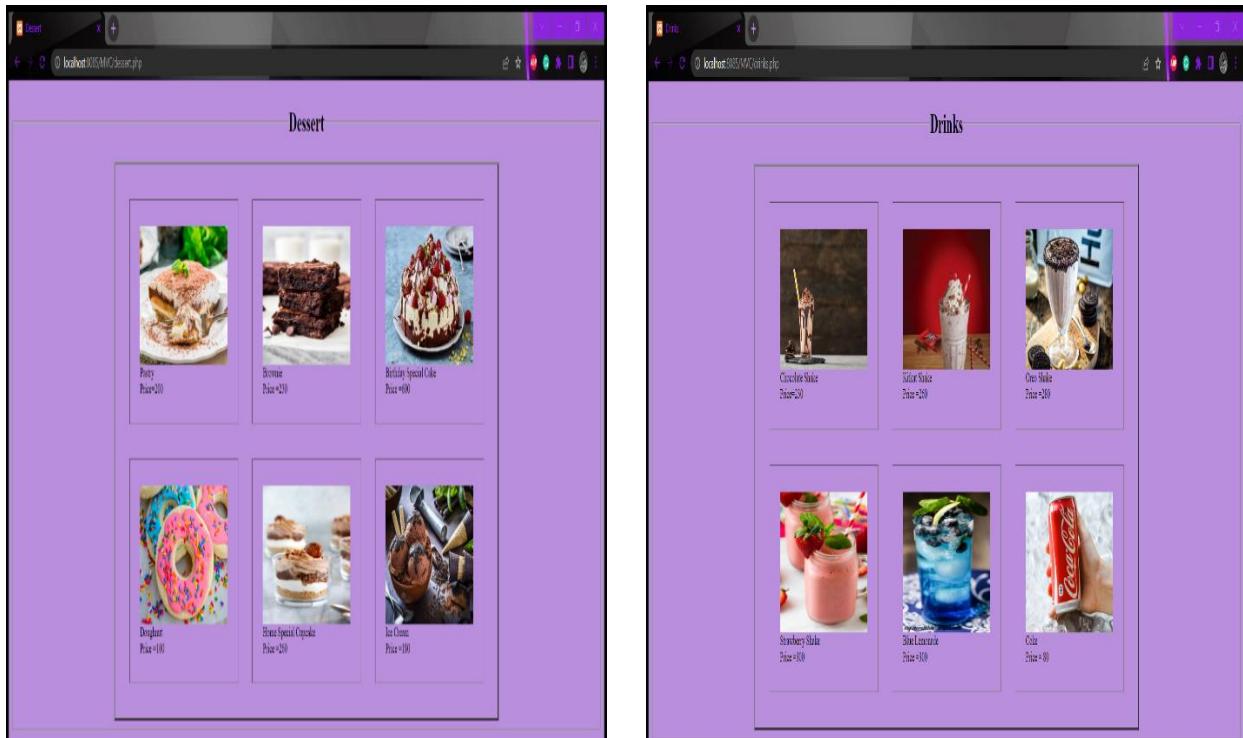


Figure43: Customer's Categorized Food Menu Page

Once more, clicking on lunch will display the left-top page, then clicking on dinner will display the right-top page, again selecting desert will display the bottom-left page, and finally selecting drinks will display the bottom-right page.



Figure44: Customer's Order Page

Customers can place online orders through this page after reviewing the menu.

The screenshot shows a web browser window with the URL `localhost:8085/MVC/deliveryCustomer.php`. The page title is "Customer Delivery Information". It contains a form with the following fields:

- Customer Name:** A text input field.
- Phone:** A text input field.
- Address:** A text input field for "Building Number" and another for "City". Below it, there's a "Zip Code" input field.
- Extra Requirement:** Two checkboxes: "Sauce" and "Naga".
- Date:** A date selector with dropdowns for Day, Month, and Year.
- Time:** A time selector with dropdowns for Hour and Minute.
- Insert:** A purple rectangular button at the bottom.

Figure45: Customer's Delivery Information Insert Page

Customers must fill out this page with their delivery information after placing any online order.

The screenshot shows a web browser window with the URL `localhost:8085/MVC/reservation.php`. The page title is "Reservation". It contains a form with the following fields:

- Name:** A text input field.
- Email:** A text input field.
- Phone:** A text input field.
- Date:** A date selector with dropdowns for Day, Month, and Year.
- Time:** A time selector with dropdowns for Hour and Minute.
- Reserve:** A purple rectangular button at the bottom.

Figure46: Customer's Reservation Insert Page

Through this page, customers can also make reservations for any program.

The screenshot shows a web browser window with the URL `localhost:8085/MVC/review.php`. The page title is "Review Section". It contains a form with the following fields:

- Customer Name:** A text input field.
- Review:** A text input field containing the text "review please".
- Submit:** A purple rectangular button at the bottom.

Figure47: Review Section Page

This is the review page of our restaurant management system. Customer are welcome to add any suggestion or complaint about the restaurants.

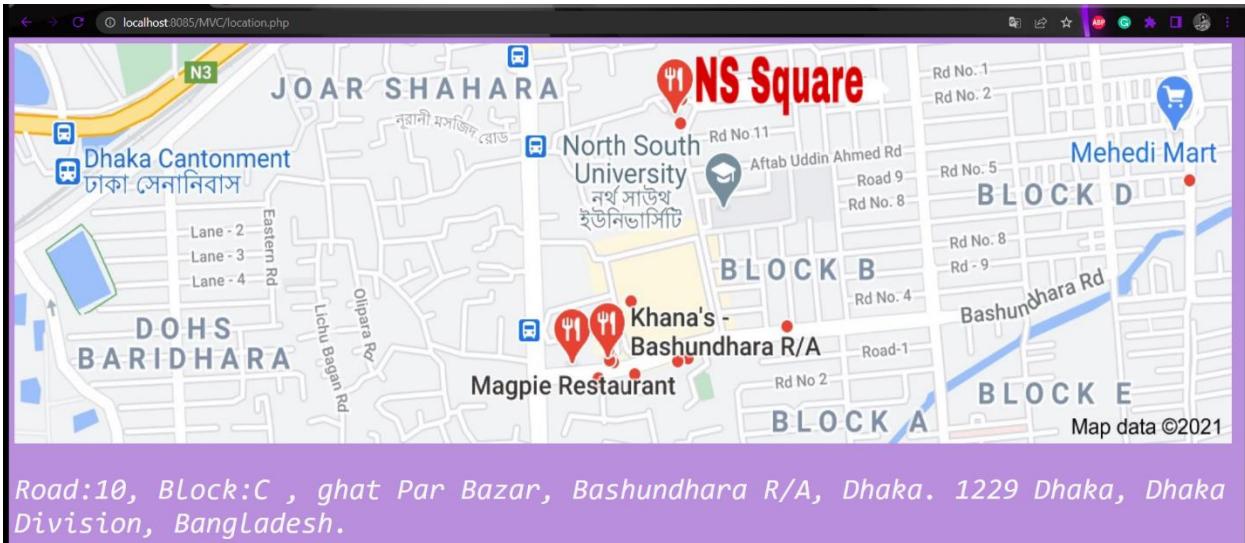


Figure48: Restaurant Location Page

Any customer can view the restaurant's exact location on this page, which displays its location on a Google map.



Figure49: About US Page

This is the restaurant about page which contains some information about the restaurant.

4.4 Project Requirements

Project Estimation Schedule	
Project Title	Restaurant Management System
Prepared By	Project Manager
Project Environment	http://localhost:8085 /MVC/
Total Time Required	2472 hours
Total Cost Estimated	9,68,908.8Tk

Assigned Job	Role	Required Member	Budget Hour	Estimated Date	Per Hour Cost	Total Cost	Work Status
Requirement Collection	Business Analyst	1	10*24=240 hours	16 th March,22	200.5Tk	48,120Tk	Done
Requirement Analysis	Business Analyst	1	5*24=120 hours	26 th March,22	200.5Tk	24,060Tk	Done
Mock up	Business Analyst	1	3*24=72 hours	31 st March,22	200.5Tk	14,436Tk	Done
UI/UX Designing	Business Analyst	1	5*24=120 hours	5 th April,22	200.5Tk	24,060Tk	Done
Develop Components & Unit Testing	Developer	5	80*24*5=960 0 hours	16 th June,22	252.8Tk	4,85,376Tk	Done
Integration Test	Tester & Developer	3	15*24*3=108 0 Hours	1 st July,22	234.2Tk	2,52,936Tk	Done
System Testing	Tester	3	28*24*3=201 6 hours	29 th July,22	234.2Tk	4,72,147.2Tk	Done
Bug Fixing	Tester	3	10*24*3=720 hours	8 th August,22	234.2Tk	1,68,624Tk	In Progress
Acceptance Testing	Customer	Real time Customer	7*24=168 Hours	15 th August,22	0.00Tk	0.00Tk	Waiting
Train Customers	Project Manager	1	5*24=120 hours	20 th August,22	270.7Tk	32,484Tk	Not Started
Maintenance	Developer	2	7*24*2=336 hours	27 th August,22	252.8Tk	84,940.8Tk	Not Started
Total Resources	2472 hours	Total Labor Hour	14492 Hours	Total Cost		16,07,184Tk	

5. FEATURES NOT TO BE TESTED

- Menu Page (Manager Module)
- Discount Page (Manager Module)
- Shipping Info Page (Admin & Manager Module)

6. TESTING APPROACH

6.1 Testing Levels

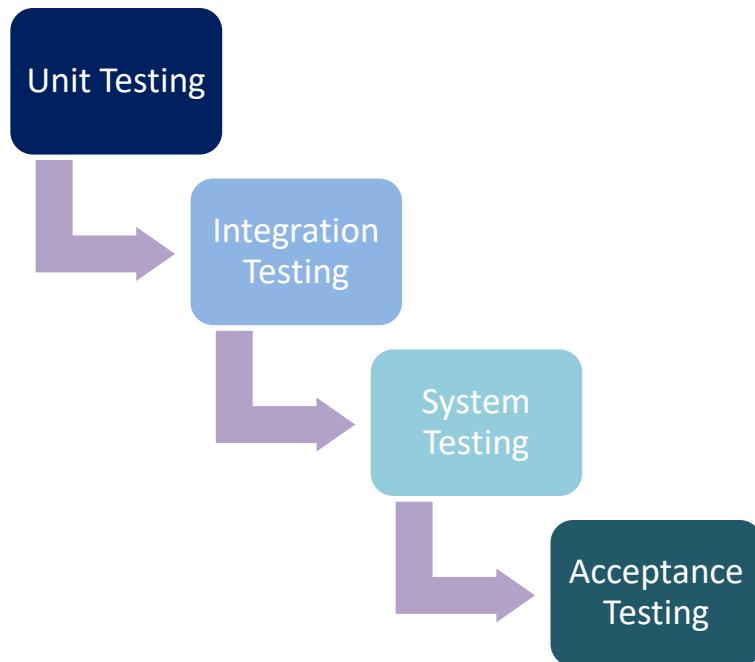


Figure50: Testing Levels

In this project, we'll put our test strategy for the restaurant management system into practice. We must go through four main stages of testing before we can proceed to test the software in relation to the project. Numerous test levels require attention.

- A white-box testing strategy that examines an application's internal architecture. In order to verify that internal operations are carried out in accordance with specifications and that all internal modules are correctly implemented, white-box testing necessitates a tester to step through the code line by line. To make sure that our restaurant management system is operating properly, we performed white-box testing during its development. White-box testing currently comes in a variety of

forms, and test planning can make advantage of these methods.

- One of the fundamental procedures carried out in the beginning is unit testing. Most testers prefer to check to verify if a specific code unit is functional. Because they aid in removing fundamental and simple defects, unit tests are one of the general procedures carried out for each activity. As a result, after finishing each unit and module, we must construct a test case and run a unit test to see whether the module functions as intended. There are both static and dynamic unit tests for testing unit.
- Some of our code's static parts are tested as part of the static analysis process. This procedure is used to identify one of the flaws or faults that could exist in the application code. Early in the testing process, this phase is crucial to excluding basic errors. The next stage after static analysis in a typical path test is dynamic analysis. The source code is analyzed and run-in accordance to dynamic analysis. Without influencing the process, the step's final phase aids in output analysis.
- Integration testing will be used for our restaurant management system. It is mostly used to examine how various modules interact with one another when integrated into a system. The procedure is carried out following unit testing and will be repeated each time a new module is introduced to the system. The interface between the system's components is the main focus of Integration test cases.
- System testing is testing conducted on a complete integrated system to evaluate the system's compliance with its specified requirements. System testing takes, as its input, all of the integrated components that have passed integration testing. In our system after completion of full system we have done complete system testing.
- Lastly, but certainly not least, we shall perform acceptance testing. The end users will handle it with assistance from our development staff. If our system satisfies all user needs, they will verify this.

6.2 Test Tools

It is necessary to create a test tool that can execute tests automatically and auto-generate test results in accordance with predefined forms. Additionally, a number of tests must be conducted. The test must be conducted simultaneously in order to run more quickly. We've written a testing code in order to test an existing project login page. Then by running testing is successfully accomplished.

```

File Edit Selection View Go Run Terminal Help
Librarian-added.py Release Notes: 1.69.1 login.py using System; Untitled-1
C:\Users\Zinnatun Nissa > Downloads > login.py
1 from selenium.webdriver.common.by import By
2 from selenium import webdriver
3 import time
4 from selenium.webdriver.chrome.service import Service
5 from webdriver_manager.chrome import ChromeDriverManager
6 driver = webdriver.Chrome(service=Service(ChromeDriverManager().install()))
7 # driver = webdriver.Chrome(executable_path="chromedriver.exe")
8 driver.get("http://localhost:8085/MVC/ad_login.php")
9 time.sleep(5)
10 #name = u.username
11 name = driver.find_element(By.ID, "uname")
12 name.send_keys("zinnatun")
13 time.sleep(5)
14 print("Username input completed")
15 password = driver.find_element(By.ID, "pas")
16 password.send_keys("12345678")
17 print("Password input completed")
18 time.sleep(5)
19 button = driver.find_element(By.ID, "login")
20 button.click()
21 print("Login button clicked")
22 print("Successfully Logged In")
23 time.sleep(5)
24 driver.quit()

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\Zinnatun Nissa\Downloads> py login.py

DevTools listening on ws://127.0.0.1:54984/devtools/browser/6c4cc600-c1a1-467b-b7e3-1b38478edf67 [14096:11780:0718/215457.679:ERROR:device_event_log_impl.cc(214)] [21:54:57.679] USB: usb_device_handle_win.cc:1048 Failed to read descriptor from node connection: A device attached to the system is not functioning. (0x1f) [14096:11780:0718/215457.681:ERROR:device_event_log_impl.cc(214)] [21:54:57.680] USB: usb_device_handle_win.cc:1048 Failed to read descriptor from node connection: A device attached to the system is not functioning. (0x1f)

Username input completed
Password input completed
Login button clicked
Successfully Logged In

PS C:\Users\Zinnatun Nissa\Downloads>

Figure51: Login Module Test with Selenium

This page is automated tested by selenium.

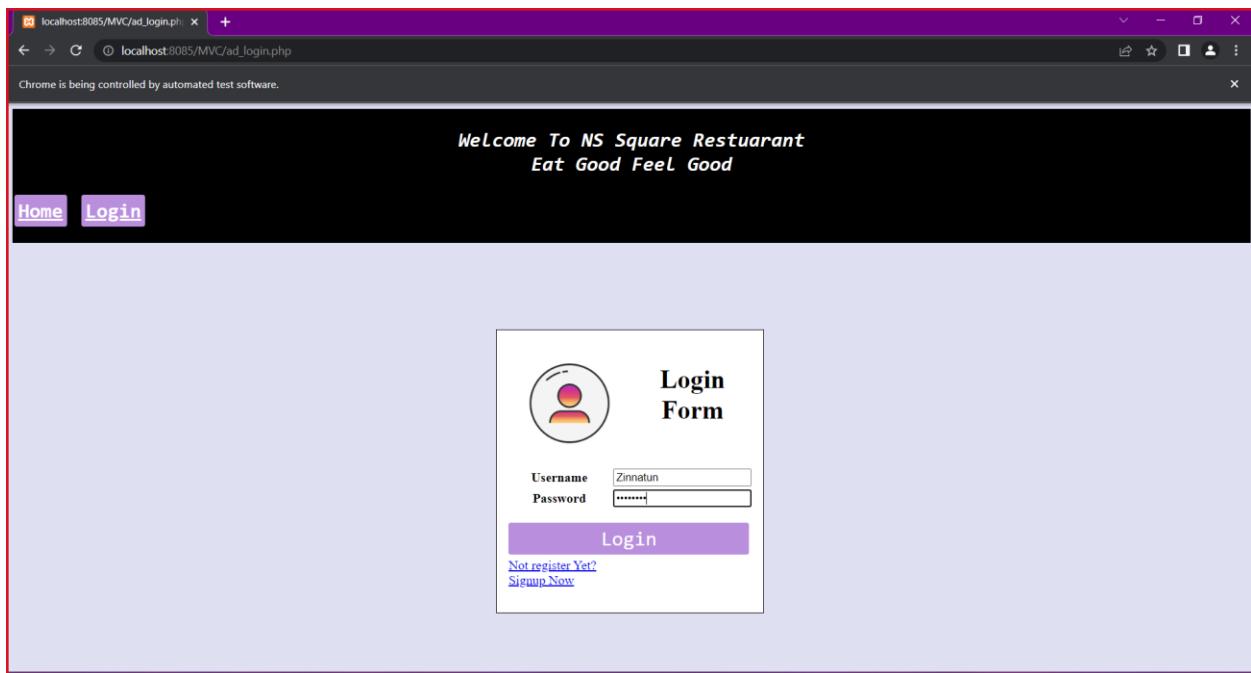


Figure52: Login Page

Finally, Admin Home page is shown after a successful login.



Figure53: Admin Home Page

6.3 Meetings

To guarantee that the project is finished on schedule, meetings should be conducted every two weeks. Throughout the project evaluation, a testing team will come together to study the development of and keep it up to date, monitoring for bug patterns and issues as soon as possible. The test team leader meets with the development and project managers once a week.

7. TEST CASES/TEST ITEMS

Project Name: Restaurant Management System.	Test Designed by: Md. Salman Arefin.			
Test Case ID: A1	Test Designed date: August 1, 2022			
Test Priority (Low, Medium, High): Medium	Test Executed by: Md. Salman Arefin.			
Module Name: Admin Module	Test Execution date: August 10, 2022			
Test Title: Manager And deliveryman signup				
Description: Admin have the rights to Add Manager and deliveryman.				
Precondition (If any): Admin is valid by the systems.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Navigate to the website and login as admin.	User name: Zinnatun Password: 12345678	User should be login in to the Admins home page.	As expected	Pass
2.Tap to the insert Manager then fill up the details required then click Add button.	Name: sadiarm Email: sadia@gmail.com Phone: +880155555 Address: Dhaka Joining Date: 8.8.2022 Gender: Female	Window reloaded and clean the information boxes.	As expected	Pass
2.Tap to the insert Deliveryman then fill up the details required then click Add button.	Name: Md. Salman Arefin. Email: salman@gmail.com Phone: +8801601555458 Address: Dhaka Joining Date: 10.8.2022 Gender: Male NID submission: 0011233	Window reloaded and clean the information boxes.	As expected	Pass
Post Condition: Manager and Deliveryman will be inserted by Admin and details will be shown in Manager list and Deliveryman list.				

Project Name: Restaurant Management System.	Test Designed by: Zinnatun Nissa.			
Test Case ID: A2	Test Designed date: August 1, 2022			
Test Priority (Low, Medium, High): Medium	Test Executed by: Zinnatun Nissa.			
Module Name: System login Module	Test Execution date: August 10, 2022			
Test Title: User login process				
Description: Login process of Admin, Manager, Customers and Delivery man.				
Precondition (If any): User has valid user name and password.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Navigate to the website and click login button. (Manager)	User name: sadiarm Password:1234	User should be login in to the Managers home page.	As expected	Pass
2. Navigate to the website and click login button. (Customer)	User name: Mak Password: 089	User should be login in to the customers home page.	As expected	Pass
3. Navigate to the website and click login button. (Deliveryman)	User name: Salman Password: 01601	User should be login in to the Delivery man's home page.	As expected	Pass
Post Condition: User is validated with database and successfully login to account.				

Project Name: Restaurant Management System.		Test Designed by: Sadia Zaman.		
Test Case ID: A3		Test Designed date: August 1, 2022		
Test Priority (Low, Medium, High): Medium		Test Executed by: Sadia Zaman.		
Module Name: Admin Module		Test Execution date: August 10, 2022		
Test Title: Manager and Deliveryman Info				
Description: Manager list and Deliveryman list Edit and Delete.				
Precondition (If any): Manager and Deliveryman must be inserted by Admin				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Tap to the manager list and Update managers information then click on update button.	Name "Sadia" To Name: Mak	Window reload and Manager Name updated.	As expected	Pass
2.Tap to the manager list and delete managers click on delete button.	Manager : Mak	Window reload and Manager deleted.	As expected	Pass
3. Tap to the deliveryman list and Update deliveryman information then click on update button	Address: Dhaka To Address: Malibugh.	Window reload and deliveryman's address updated.	As expected	Pass
4.Tap to the deliveryman list and delete deliveryman click on delete button.	Deliveryman Salman	Window reload and Deliveryman deleted.	As expected	Pass
Post Condition: Manager and deliveryman will be deleted and admin have to add them again for their access to the system.				

Project Name: Restaurant Management System.		Test Designed by: Md. Salman Arefin.		
Test Case ID: A4		Test Designed date: August 2, 2022		
Test Priority (Low, Medium, High): Medium		Test Executed by: Md. Salman Arefin.		
Module Name: Admin		Test Execution date: August 11, 2022		
Test Title: Menu Insertion				
Description: Food item can be inserted with Name, Food category and Price tag.				
Precondition (If any): Admin must be login.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Navigate to the website login as admin.	User name: Zinnatun Password: 12345678	User should be login in to the Admins home page.	As expected	Pass
2.Tap to Insert Menu button		New window comes with Food Name: , Food Price: , Food Category: and Add Menu Button.	As expected	Pass
3.Fillup the boxes and click on the Add menu button.	Food Name: Beef Chess Blast Burger Food Price: 350 TK. Food Category: Fast Food	Window reload and boxes will be clean and food item will be added to the menu	As expected	Pass
Post Condition: Added item shows in the Menu button from home page.				

Project Name: Restaurant Management System.		Test Designed by: Zinnatun Nissa.		
Test Case ID: A5		Test Designed date: August 2, 2022		
Test Priority (Low, Medium, High): Medium		Test Executed by: Zinnatun Nissa.		
Module Name: Admin		Test Execution date: August 11, 2022		
Test Title: Food item edit and delete form the Menu.				
Description: Food item can be edited with Name, Food category and Price tag and deleted.				
Precondition (If any): Admin must be login and Menu have at least 1 food item.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Nevigate to the web site and login as admin	User name: Zinnatun Password: 12345678	User should be login in to the Admins home page.	As expected	Pass
2.Click on Menu button		New window comes with Food items, Edit and Delete Button beside on food name.	As expected	Pass
3.Click on edit button of any food update the required changes and click on update button	Food Name: Beef Chess Blast Burger Food Price: 350 TK. Food Category: Fast Food To Food Name: Chicken Chess Blast Burger Food Price: 320 TK. Food Category: Fast Food	Window reload and Food item will be updated in the menu	As expected	Pass
4. Click on delete button of any food.	Food Name: Chicken Chess Blast Burger	Window reload and Food item will be deleted from the menu	As expected	Pass
Post Condition: Food items can be update with Name, Food category and Price and also deleted.				

Project Name: Restaurant Management System.	Test Designed by: Sadia Zaman.			
Test Case ID: M1	Test Designed date: August 3, 2022			
Test Priority (Low, Medium, High): Medium	Test Executed by: Sadia Zaman.			
Module Name: Manager	Test Execution date: August 12, 2022			
Test Title: Order confirming process				
Description: Offline costumers order will be inserted, confirmed and cancel.				
Precondition (If any): Manager must be login in Manager Module to perform this ordering process.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Nevigate to the website and login as Manager	User name: sadiarm Password:1234	User should be login in to the Managers home page.	As expected	Pass
2.Click on the order button		New window comes with the the insert boxes Food name: , Quantity, Adress: ,Customers number: , Email: and Add order button.	As expected	Pass
3.Fillup the boxes then click on Add order button	Food name: Chicken Chess Blast Burger. Quantity: 5. Adress: Ugandian. Customers number: 875, Email: mak_sadia@email.com	New window comes with order details and cancel order button	As expected	Pass
Post Condition: Oder Item will be add on database.				

Project Name: Restaurant Management System.		Test Designed by: Md. Salman Arefin.		
Test Case ID: M2		Test Designed date: August 1, 2022		
Test Priority (Low, Medium, High): Medium		Test Executed by: Md. Salman Arefin.		
Module Name: Manager		Test Execution date: August 10, 2022		
Test Title: Table reservation process				
Description: Offline costumers reservation information will be inserted, Confirmed and Delete.				
Precondition (If any): Manager must be login in Manager Module to perform this reservation process.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Nevigate to the website and login as Manager	User name: sadiarm Password:1234	User should be login in to the Managers home page.	As expected	Pass
2.Click on the Reservation button		New window comes with the the insert boxes Name: , Phone: , Adress: , Reservation date: , Pre-payment: , and Add reservation button.	As expected	Pass
3.Fillup the boxes then click on Add Reservation button	Name: MAK. Phone: 0175621000 Adress: Uganda Reservation date: 10.8.2022 Pre-payment:10Tk,	New window comes with reservation details.	As expected	Pass
Post Condition: Reservation information will be added on database.				

Project Name: Restaurant Management System.	Test Designed by: Md. Salman Arefin.			
Test Case ID: I1	Test Designed date: August 3, 2022			
Test Priority (Low, Medium, High): Medium	Test Executed by: Md. Salman Arefin.			
Module Name: Admin and Manager	Test Execution date: August 16, 2022			
Test Title: Integrated delivery list				
Description: verifying that manager insert the delivery info and admin can view the delivery list.				
Precondition (If any): Manager must be login in manager module and as well Admin must be login in admin module.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Navigate to the website and login as manager	User name: sadiarm Password:1234	User should be login in to the Managers home page.	As expected	Pass
2.Tap to the Delivery button		New window comes with First name:, Last name:, Phone:, Destination:, Email, Price:, Total price: boxes and ADD delivery button	As expected	Pass
3.Fill the boxes and click on Add delivery button	First name: Md. Salman, Last name: Arefin, Phone: 01601555458, Destination: 287/B West shantibagh, Email:salmanmdarefin@gmail.com, Price: 350Tk, Total price: 735Tk	Window reloaded and clean and details is saved in database. And will be shown in delivery list on manager module.	As expected	Pass

4.Navigate to the website login as admin.	User name: Zinnatun Password: 12345678	User should be login in to the Admins home page.	As expected	Pass
5.Tap on Delivery list		Window reloaded details will be shown which was inserted by the manager.	As expected	Pass
Post Condition: Admin can view and observe the delivery list.				

8. ITEM PASS/FAIL CRITERIA

If the test phase was completed successfully and the planned output was 95% functional with no serious flaws, the test stage is considered successful. If a test step could not be completed or was completed but the expected outcome did not occur, or the expected outcome could not be validated from the record, the test step should be regarded failed and the requirement should not be verified. For the program to pass the testing, all of the paths must be thoroughly evaluated.

9. TEST DELIVERABLES

- Unit Test Plan
- Integration Test Plan
- System Test Plan
- Acceptance Test Plan
- Report mock-ups

10. STAFFING AND TRAINING NEEDS

The value of experienced employees and teams in project building and delivery cannot be emphasized. To do this task correctly, a team of qualified specialists is necessary. Because qualified employees and staff can execute the project on budget and on time; alternatively, a lack of trained people might make it impossible to complete the project on time. As a result, it should be rigorously checked to guarantee that the project's employees and workers are competent. To

create and assure the availability of various skill-based training sessions. The team consists of a project manager, a senior test engineer (test lead), a junior test engineer, a testing manager, a database analyst, and other experts. If a senior test engineer is unable to work for an extended length of time, the project manager can take over or replace the junior engineer with someone who possesses the required skills.

11. RESPONSIBILITIES

	Business Analyst	Project Manager	Developer	Tester	Client
Unit Test Documentation & Execution			✓		
Integration Test Documentation & Execution			✓	✓	
System Design Reviews	✓	✓		✓	
Detail Design Review	✓	✓		✓	
Acceptance Test Documentation & Execution				✓	✓
Change Control & Regression Testing		✓		✓	

12. TESTING SCHEDULE

A project schedule is a timeline that indicates the beginning and ending dates of each task, how they connect to one another, and who is in charge of completing them typically team members or other resources. During the initial planning phase, a dynamic document is produced. The authorized project schedule serves as a starting point for work, but it is adjusted as necessary as the project progresses.

Our Restaurant Management System is fully scheduled by Asana.

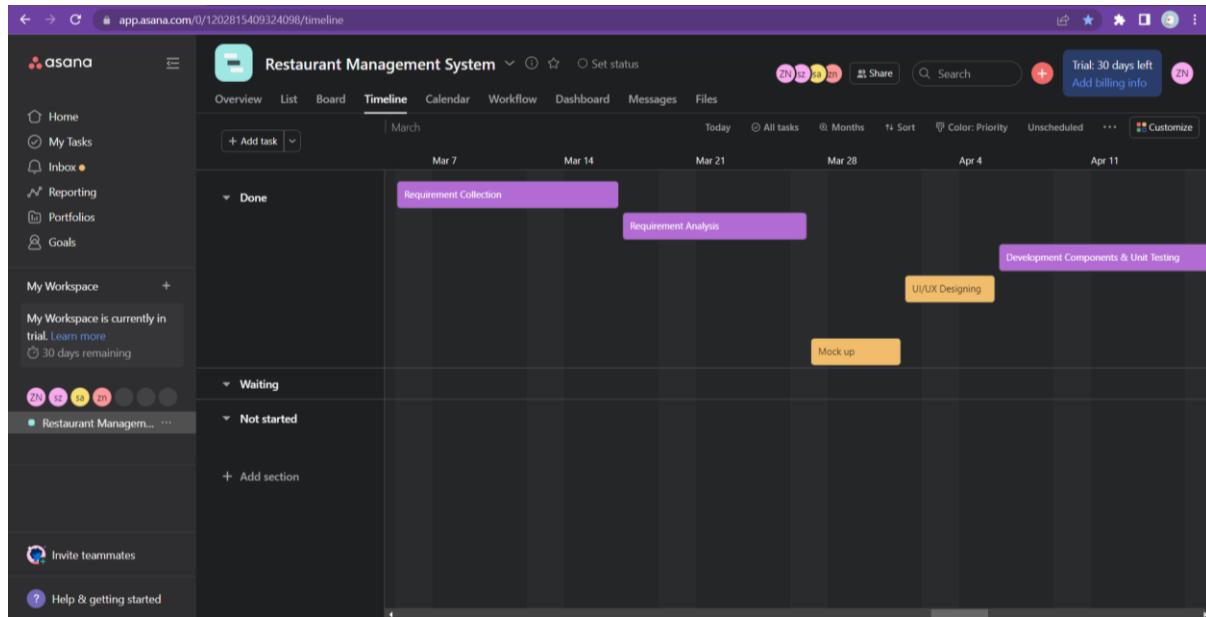


Figure54: Timeline of Restaurant Management System

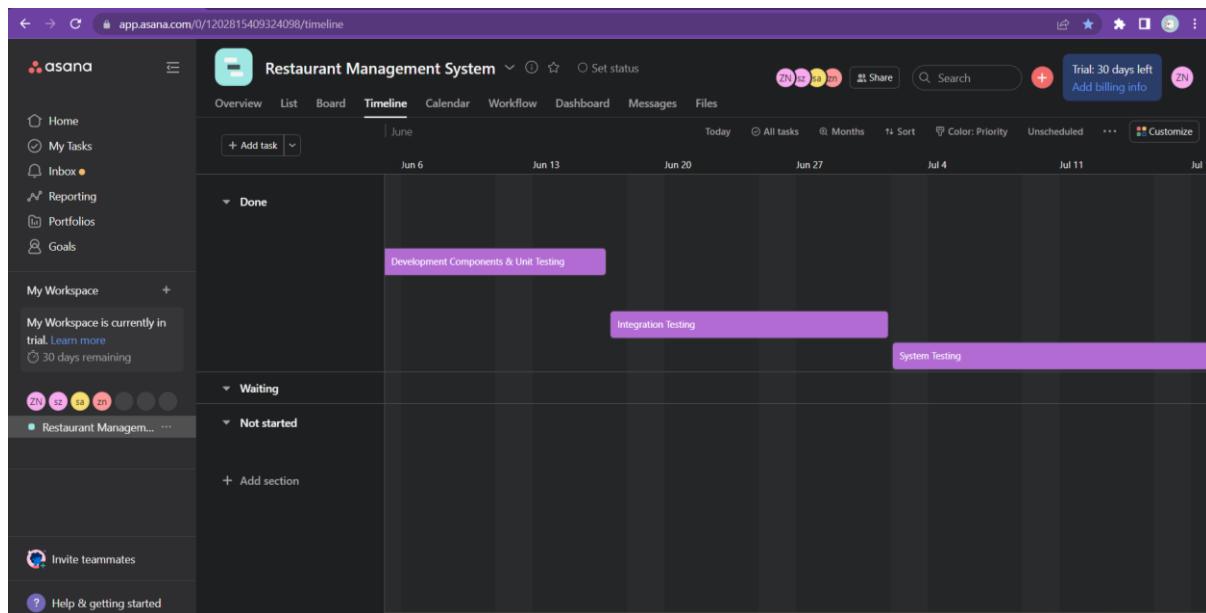


Figure55: Timeline of Restaurant Management System

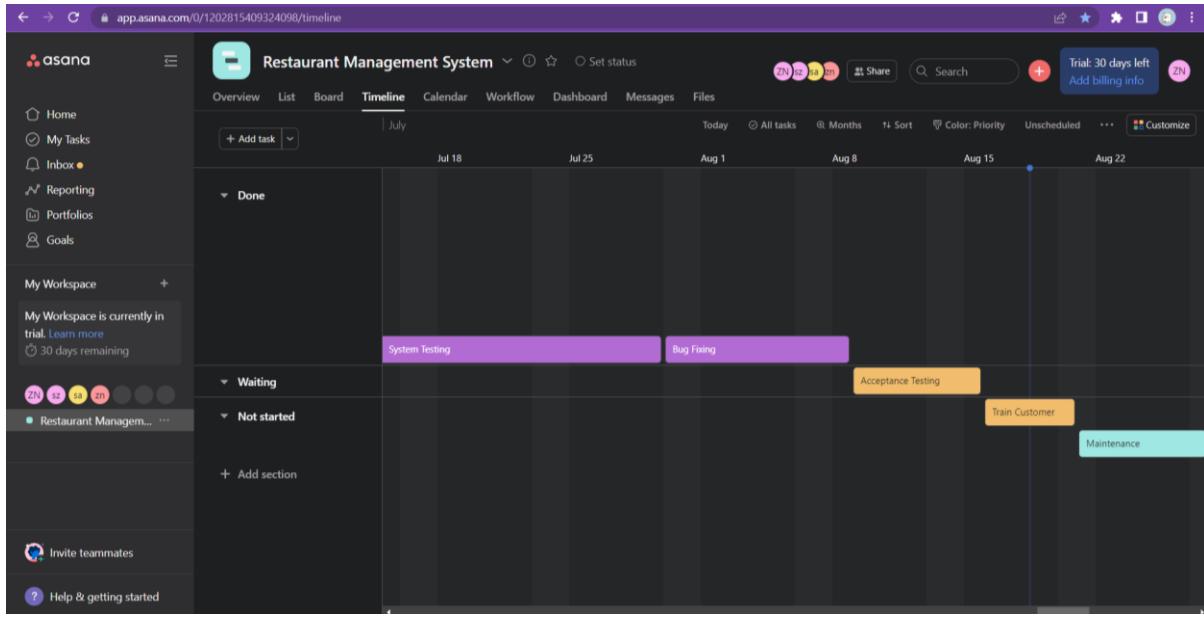


Figure56: Timeline of Restaurant Management System

Figures 54,55,56 depict the project's timetable. In calendar view, the project time schedule is shown with their priority color scheme. The requirement gathering process will begin on March 6 and end on March 16. Then, the requirement analysis will begin on March 17 and end on March 26. The next mock-up start date is March 27, and the mock-up finish date is March 31. Additionally, the UI/UX designing project has a 1 April start date and a 5 April conclusion date. The following development and unit testing start date is April 5 and end date is June 16 respectively. The following Integration testing will begin on June 17 and end on July 1. The following system testing will begin on July 2 and end on July 29. Next starting date for Bug fixing is 30th July and finish date is 8th August. Next starting date for Acceptance Testing is 9th August and finish date is 15th August. Next starting date for Train customer is 16th August and finish date is 20th August. Next starting date for Maintenance is 21th August and finish date is 27th August. The next bug-fixing period will begin on July 30 and end on August 8. The following Acceptance Testing start and end dates are August 9 and August 15, respectively. The following train customer starting and finishing dates are August 16 and August 20, respectively. The following maintenance period will begin on August 21 and end on August 27.

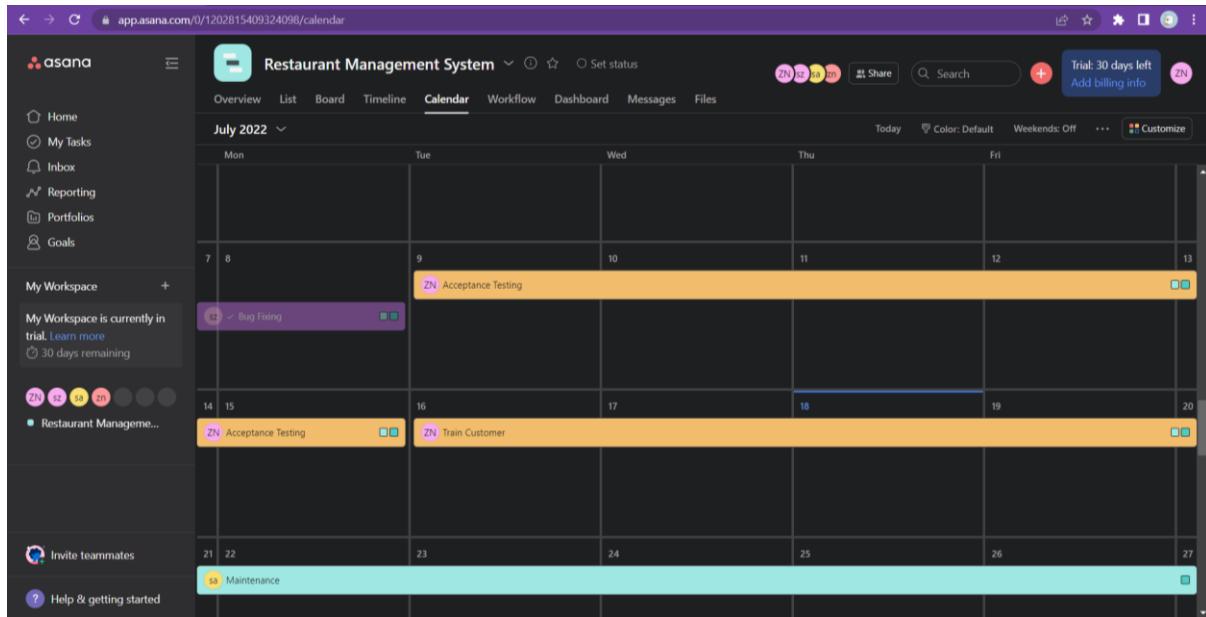


Figure57: Incomplete Task Timeline of Restaurant Management System

Here our incomplete task is acceptance testing, train customer and maintenance task.

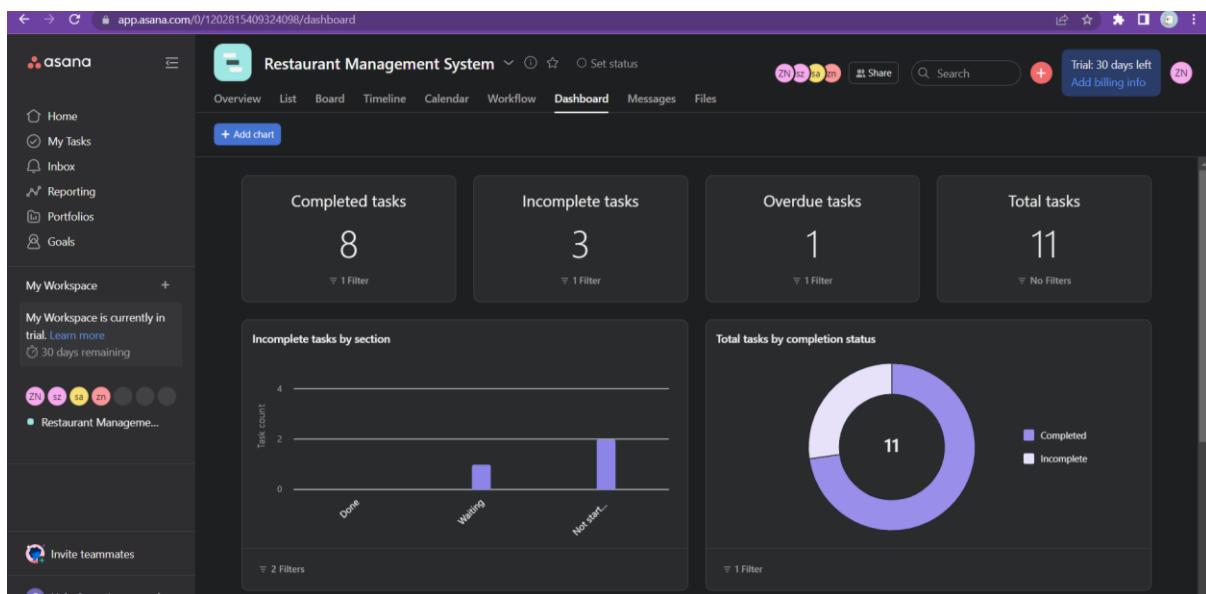


Figure58: Dashboard of Restaurant Management System

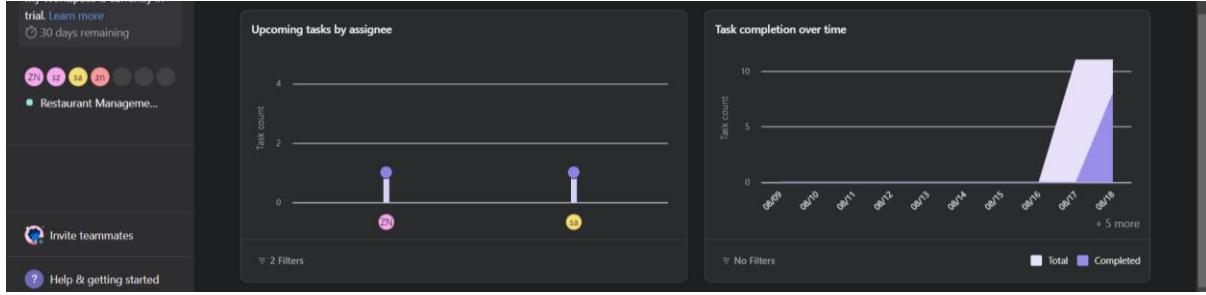


Figure59: Dashboard of Restaurant Management System

The dashboard for the project is shown in Figures 58,59. Incomplete tasks by section, upcoming tasks by assignee, total task by completion status and task completion over time are all displayed on the project dashboard. Finally, a look at the upcoming tasks by section reveals that acceptance testing, train customer and maintenance tasks are scheduled in order.

13. PLANNING RISKS AND CONTINGENCIES

A multitude of dangers might jeopardize the success of a software development project. As a result, we must be prepared in every way to guarantee that no dangers harm the project. Time linked risk develops as a result of schedule associated risk. If the schedule is not completed appropriately, project time challenges may arise, and the project may take longer to prepare. The job will not be finished on time, and the client will be unhappy. Incorrect cost estimation can lead to cost-related risk. The majority of the costing risk is due to a scheduling problem. The longer it takes to plan a project, the more expensive it will be. When a project's quality falls short of stakeholder expectations, it is unlikely to succeed. Low-quality code can lead to technical debt. Because the code is difficult to read, other developers may find it difficult to inspect or modify it. It was possible that it was rushed and supplied without sufficient testing, resulting in a huge number of defects that may have been prevented. Because you rely largely on their feedback, having an open, rapid, and insightful interaction with your stakeholders is crucial. If a customer or stakeholder with whom you are working does not engage with you or your team as much as they should, your workflow and efficiency will suffer dramatically.

14. APPROVALS

Business Analyst	Zinnatun Nissa
Project Manager	Sadia Zaman
Test Lead	Md. Salman Arefin
Tester	Sadia Zaman
End User	Zinnatun Nissa

