American International University-Bangladesh (AIUB)
Department of Computer Science
Faculty of Science &Technology (FST)
Fall 22 23

Section: B

Software Quality Assurance and Testing

Online Restaurant Management System

A Report submitted

By

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Software Test Plan

for

<Online Restaurant Management System>

Version 1.0 approved

Prepared by <Md Tanvir Hossain Anik, Nabajit Day, Kifat Sakib, Md Mehedi Muhtasim>

<American International University-Bangladesh(AIUB)>

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Checked By Industry Personnel

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Designation:

Company:

Sign:

Date:

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Revision History

Revision	Date	Updated by	Update Comments
0.1	2022.9.29	Md.Tanvir Hossain Anik	First Draft
0.2	2022.9.30	Nabajit Day	Second Draft
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0.9	2022.10.4	Md.Tanvir Hossain Anik	Ninth Draft

1.TEST PLAN IDENTIFIER:RS-Online Restaurant Management System_1.3

2.REFERENCES

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3. https://dl.ucsc.cmb.ac.lk/jspui/bitstream/123456789/4501/1/2017%20MIT%20055.pdf
4. https://www.canva.com/design/DAFUACtVr04/jHeG3jez81GiUuwn5AT9bw/edit

3.INTRODUCTION

Background to the Problem

Nowadays, many restaurants manage their business by manual especially take customer ordering. In traditional booking system, a customer has to go to restaurant or make a phone call in order to get his meal reserved. Today, restaurant waiter takes the customer ordering by manual system with using paper. Customer does some formal conversation like hello, hi, etc. Then he demands for today's menu and do some discussion over menu items then he orders. It takes 5 to 10 minutes to book the order and waiter book the order on paper so there is probability of lost and duplication of customer information. Restaurant management system puts the order in a queue with specific priority according to time and quantity, and then a cook is assigned for the specific order to complete it.
Besides, the restaurant waiter information also by manual system kept use paper and this is difficult for restaurant administrator to find waiter information, probability missing the paper and difficult to arrange the schedule. Initial problem is that the customer has to get connected over the phone; it would be harder if the restaurant is very popular and busy.
Sometimes, waiter information and customer information are important to restaurant administrator for reference in the future. The chances of committing mistakes at the restaurant side in providing a menu list for a specific time would be more. Many people have experienced going to a restaurant where the service is poor and there is a lack of attention from the wait staff. The paper menus can be flimsy, hard to navigate, and outdated. To leverage the growing mobile industry, the on -line restaurant proffers solution. This restaurant menu and management system will replace the paper waste, is more maintainable, and allows for greater customer engagement. The problem confronting the research is to determine the Documentation for online restaurant management system.

Solution to the Problem

Online Restaurant Management System" is a web application. This system is developed to automate day to day activity of a restaurant. Restaurant is a kind of business that serves people all over world with ready-made food. This system is developed to provide service facility to restaurant and also to the customer. This restaurant management system can be used by employees in a restaurant to handle the clients, their orders and can help them easily find free tables or place orders. The services that are provided is food ordering and reservation table management by the customer through the system online, customer information management and waiter information management, menu information management and report. The restaurant menu is organized by categories (appetizers, soups, salads, entrees, sides and

drinks) of menu items. Main objective builds the system this is to provide ordering and reservation service by online to the customer. Each menu item has a name, price and associated recipe. A recipe for a menu item has a chef. preparation instruction sand associated ingredients. With this system online, ordering and reservation management will become easier and systematic to replace traditional system where are still using paper. To resister a meal online, the customer has to become a member first then he can access the later part of the site. This project to facilitate customer for make online ordering and reservation. The option of becoming member was only an attempt to avoid (to some extent) placing the fake bookings.
Online Restaurant management system is the system for managing the restaurant business. After successful login the customer can access the menu page with the items listed according to the desired time. The main point of developing this system is to help restaurant administrator manage the restaurant business and help customer for online ordering and reserve table. In proposed system user can search for a menu according to his choice i.e., according to price range and category of food and later he can order a meal.

4.REQUEIREMNT SPECIFICATION

4.1.System Features

1.Admin Features

Functional Requirements

- Can Registration
- Can Log In
- Can Log out
- Can Change Password
- Can Recover Password
- Can Update Profile
- Can check employee status
- Can add employee
- Can remove employee
- Can Update food menu (Add, Delete, Update Price)
- Can see customer feedback
- Can monitor per month expense

Priority Level: High

Precondition: Admin must have valid username and password.

1.1. Manager Features

Functional Requirements

- Can Registration
- Can Log In
- Can Log out
- Can Change Password
- Can Recover Password
- Can Update Profile

- Can check order list
- Can check food availability
- Can Update food menu (Add, Delete, Update Price)
- Can check pre-order list
- Can check customer personal info
- Can update discount offer

Priority Level: High

Precondition: Manager must have valid username and password.

1.2. Customer Features

Functional Requirements

- Can Registration
- Can Log In
- Can Log out
- Can Change Password
- Can Recover Password
- Remember Password
- Can Update Profile
- Can check Menu + Select food
- Delete item from chart
- Can order for food (from chart)
- Add delivery/billing address
- Can check special offer

Priority Level: High

Precondition: Customer must have valid username and password.

1.3. Delivery Man Features

Functional Requirements

- Can Registration
- Can Log In
- Can Log out
- Can Change Password
- Can Recover Password
- Can Update Profile
- Can check customer info

- Order Details
- Can confirm food delivery
- Can Cancel order
- Multi payment
- Can page coin information

Priority Level: High

Precondition: Delivery Man must have valid username and password.

4.2.System Quality Attributes

A software's quality may be ensured by several critical quality characteristics.

Usability: Anyone should be able to sign up for an account and utilize the system.

Efficiency: Every Functional requirement must be met.

Portability: All devices with online capabilities or internet connection will work flawlessly with it.

Maintainability: If find out a problem in the system, it will be possible to solve it.

Correctness: All characteristics mentioned will be finished according to consumers' preferences.

Functionality: A registered user can only bid on certain products; an unregistered user can view the current bidding for any product by visiting current running bid.

Accessibility: It may be accessible from anywhere on the Internet as it is web-based software.

Readability: Due to the substantial number of customers who might bid on one product, it is crucial to accurately display the current bid price. So, it is essential to assess whether the system is sturdy enough to survive any circumstance.

Reliability: All features will work as intended across a range of working environments or gadgets.

Fexibility: Will be able to adjust to any demands.

Security: In order to avoid data loss, unauthorised access to system operations, and to protect the privacy of data submitted into the system, system integrity or security should be sufficient. Integrity and security go hand in hand.

Installation: No lengthy downloads or installations are required because it is web-based. There will be a website URL. Anyone can access it because it is straightforward.

Customer Support: This is a critical part given the importance of an effective auction mechanism.

The service provider ought to give phone and live email support.

4.3.System Interface

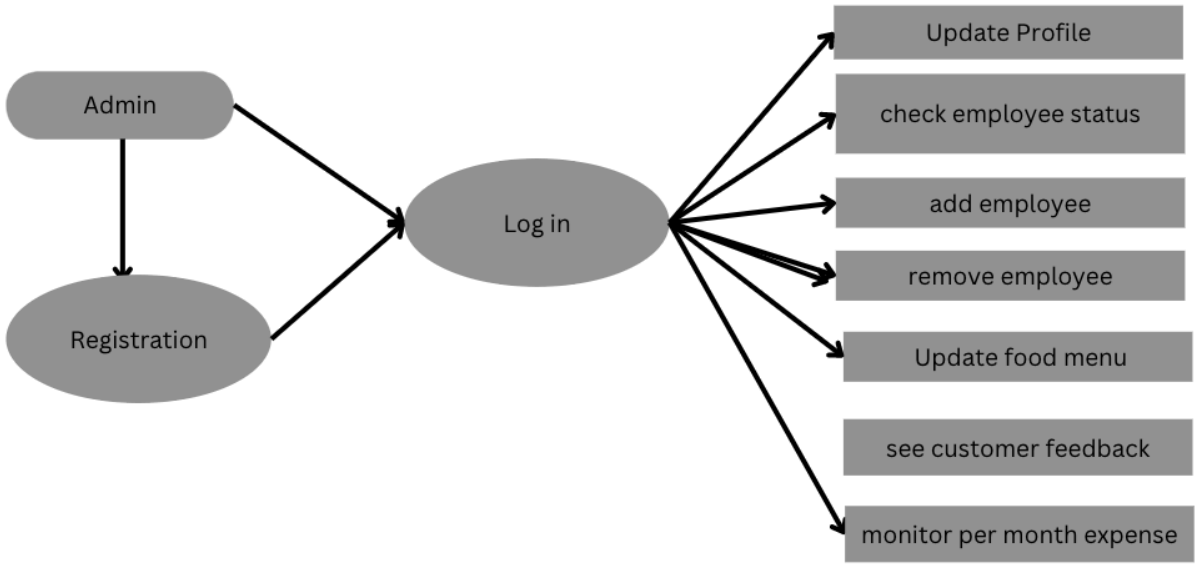


Figure 1: Admin interaction with the system

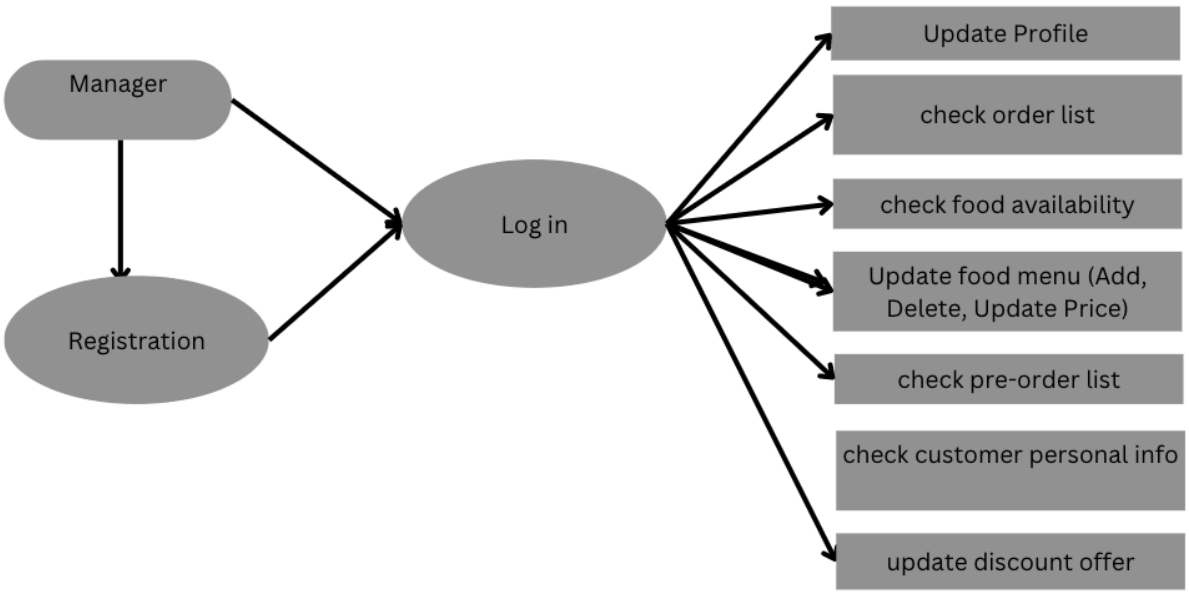


Figure 2: Manager interaction with the system

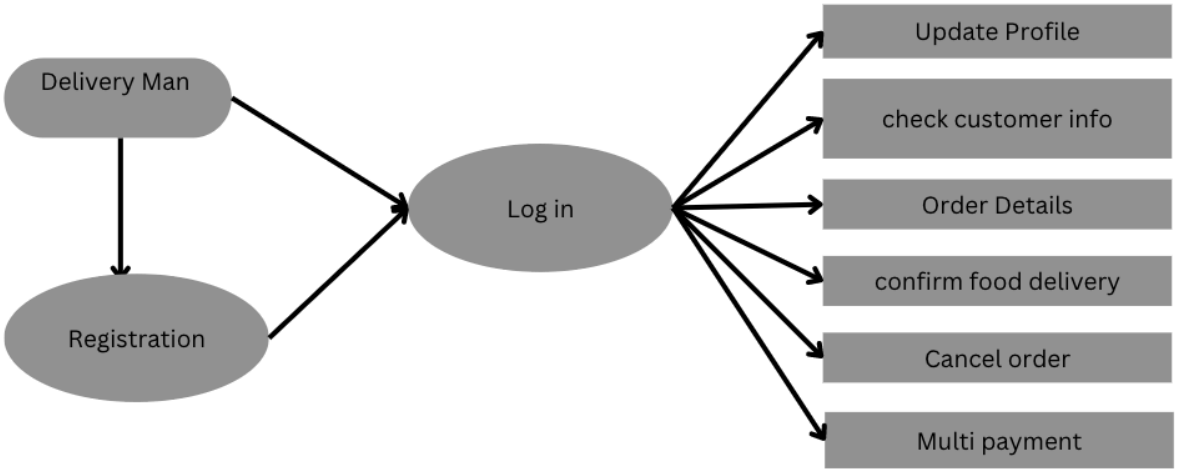


Figure 3: Delivery Man interaction with the system

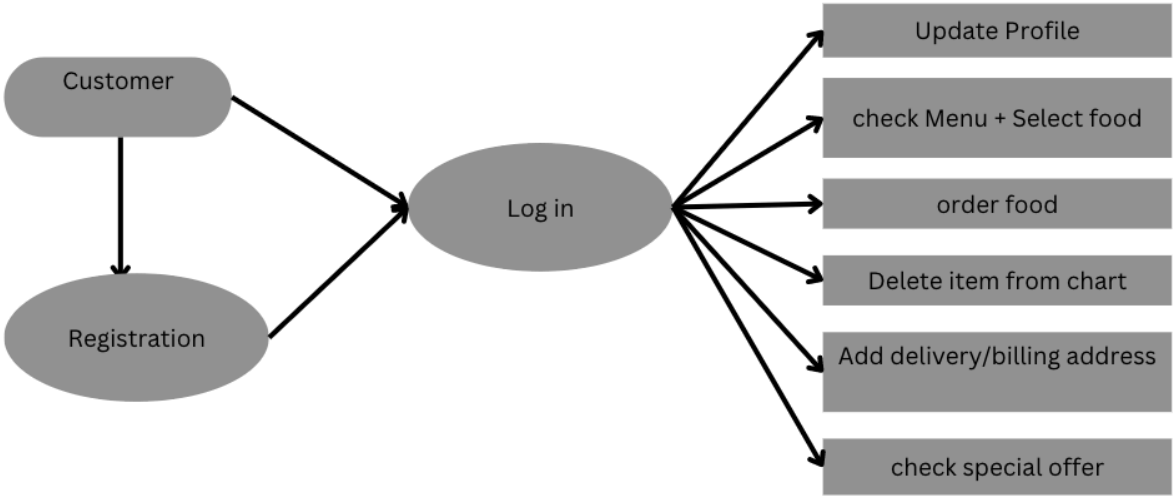


Figure 4: Customer interaction with the system

4.4.Project Requirements

- Time: This web-based application may take around 3 months (90 days) to complete.
- Budget : 3,75,000 BDT
- Size: This web-based application's final size will not exceed 250-300 MB, but for users, it will be a webpage link.
- HTML, PHP, XAMPP, JAVASCRIPT and AJAX will be used to build this web-based application.
- There are numerous online auction systems available worldwide. But Bangladesh was our main area of attention. So, this method is only for users in Bangladesh.

5.FEATURES NOT TO BE TESTED

The following is a list of the areas that will not be specifically addressed. All testing in these areas will be indirect as a result of other testing efforts. Below there are some modules in our project we did not perform selenium testing.

In Admin:

- customer feedback
- remove employee

In Manager :

- customer personal info
- pre-order list

In Delivery Man:

- page coin information
- Multi payment

6.TESTING APPROACH

6.1.Testing Levels

- **UNIT TESTING:** In the early stages of software development, we test each individual unit of the program through unit testing. Units are discrete, compact, and independent components of a program. The major objective is to make sure that the tiniest components are functioning correctly so that they do not present a problem after being integrated into a module. Part of the code must be separated and tested separately as part of the unit test. When creating or coding those units, the developer will run these tests. The lead of the development team can keep an eye on unit tests. From official websites, you can get testing tools and packages. Without waiting for the project to be integrated or for additional code, we may test the simplest project components early on. By running unit tests, we can make sure that even the smallest units work properly, find bugs as soon as they arise, and make later debugging processes and product quality easier.

- **SYSTEM TESTING:** After integration testing is finished, system testing should be carried out to make sure that all the connected modules are functioning properly as a whole. Additionally, a dedicated testing crew should carry out this. Since it is not necessary to understand what is contained in those modules or how they function, it might be referred to as "Blackbox" testing. We test the system as a whole, and the tester should be familiar with the needs and in use of the application. Additionally, before starting the system, essential modules must be prioritized and the test approach must be ready. To ensure that all of the components and external applications work together, end-to-end testing is necessary. Correct system testing will make future mitigating and maintenance much simpler. Bugs with low priority can wait until acceptance testing to betested.Toprovide the highest level of product quality, system testing must examine all the software's quality attributes.

- **INTEGRATION TESTING:** Unit testing is followed by integration testing, which is handled by a separate testing team. The major goal is to test various software modules to make sure they all function properly as standalone components of the program and to validate the performance, functionality, and dependability of the combined module. Additionally, the effectiveness of each module will be verified. Early use of integration testing will result in fewer bugs and easier top-down and bottom up debugging processes. Integration testing is crucial for comparing developer-implemented functionalities to user requirements. There are numerous methods for conducting integration tests, including Big Bang, Incremental, Top-down, Bottom-up, Sandwich, and others. Any of these can be followed depending on what makes sense for the development process. Integration testing cannot begin before the test strategy is ready. Prior to integration testing, it is important to prioritize the identification of critical modules. An automation testing tool should be used to carry out the test cases for integration testing after they have been prepared. It is important to find errors and report them for further testing.
- **ACCEPTANCE TESTING:** After system testing, the acceptance test is the final significant testing stage in the software development process, and it is carried out by the user. Customer reviews or decisions are made here regarding whether or not the software is ready for the markEt.A beta or alpha version of the product should be created for this. The user should be wellversed in the product, its field, and its features. Issues discovered during the acceptance test process need to be rectified right away and given top priority. Acceptance testing verifies the work of the development and testing teams and represents the caliber of the program as a whole. There are many acknowledged forms of acceptance tests, including UAT, BAT, RAT, CAT, Alpha/Beta Testing, etc.

6.2.Test Tools

For the project required testing tools are described below –

Selenium: Selenium is the most popular open-source browser automation tool that can run scripts across multiple browsers and automate web application for testing. It is an enhanced framework that supports cross-platform and cross-browser and can be easily integrated. It is language independent and support various popular languages such as Java, C#, Python, Ruby, PHP, JavaScript etc. it can be integrated with popular testing tools such as SauceLabs, Maven, TestNG, QMetry, Extent, JUnit and others and run parallel testing. It is not a single tool, instead it's a collection of tools that can later be integrated with Agile, DevOps others. We can also handle reports with selenium. Selenium itself offers different tools like Selenium IDE, Selenium WebDriver, Selenium Grid etc. Selenium also supports mobile testing. We can test hybrid, native or mobile web apps with selenium. For mobile testing, few popular tools of selenium are Appium, Selendroid, Robotium, IOS-driver etc. supporting Android, IOS and other popular OS. Selenium is a universal use case which is good enough for testers to put forth a greater effort and ignore the codeless trend. Various third-party solutions are available for report like TestNG, JUnit, Extend Library, Allure to prepare report in various format including graphs, timeline, screenshots, pic charts, error logs and so on.

Postman: Postman is one of the most famous testing tools for comprehensive API testing. It provides maximum flexibility and enables frontend, backend, full-stack developer or QA engineer to work in parallel and accelerate development process. Postman also offers cross-team and cross-platform support for developers for maximum flexibility. We can run end-to-end testing and evaluate functionality, performance, exceptions, reliability, and debug. It can send API requests and monitor responses from API and also automate the whole process. It offers various integrations of tools like Jenkins, Travis CI to automate API tests. For CLI (command line) newman can be used with postman. It can also import

different schema formats like JSON, Rest, OpenAPI, GraphQL, cURL, RAML, Swagger. Data can be easily tracked with the help of Postman test reports that is sent through the request builder. On test failure, it generates reports using Collection runs. Also, we can generate reports in HTML format.

Apache JMeter: Apache JMeter is one of the best load testing tools for software load testing. It can be used to test web application as well as JavaScript desktop application. It is an open-source free software therefore saves budget. It is compatible with several web and networking protocols such as HTTP, HTTPS, XML, SOAP, FTP, LDAP, JDBC, POP3, IMAP, SMTP, TCP. As the application is a Java-oriented system, it works with JDBC and Message-oriented middleware (MOM) with the help of JMS. Shell scripts and native commands are easier to implement the test plans with JMeter. JMeter can test both dynamic and static application resources. Servers, logs, queries, scripts, files etc. resources can be utilized during test phase. JMeter is popular for load testing so testers can inspect applications under heavy load and evaluate their stability, functionality, reliability and performance against different load levels. Apache JMeter offers GUI interface and its highly extendable with plugin manager. This is a multithread application and can handle dynamic input.

6.3.Meetings

Every week, our test team meets to discuss progression, difficulties, work status and suggestions for testing process. To improving functionality, error characteristics and feasibility test, regular meeting is necessary. Every two weeks, test team lead or supervisor will check if progress meets user requirement and quality. Continuous monitoring and supervising should be maintained to ensure maximum quality. Additional meetings may be called as needed in emergency situations. Testers should discuss difficulties and progress with other testers. Employees may participate in live chat sessions from home to discuss new advancements and recommendations for improving functionality before any planned meetings. Different teams and their progress should be collaborated by team lead and team lead will be in continuous touch with every team via regular meeting.

7.TEST CASES/TEST ITEMS

Project Name: Online Restaurant Management System.	Test Designed by:Nabajit Dey
Test Case ID: FR_1	Test Designed date: 15/7/22
Test Priority : Medium	Test Executed by: Nabajit Dey
Module Name: Home Page	Test Execution date:16/7/22

Project Name: Online Restaurant Management System.			Test Designed by:Nabajit Dey	
Test Case ID: FR_1			Test Designed date: 15/7/22	
Test Priority : Medium			Test Executed by: Nabajit Dey	
Module Name: Home Page			Test Execution date:16/7/22	
Test Title: Home Page Test				
Description:Check Home Page Module works perfectly or not.				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
2. Go to the website 3. Enter username 4. Enter password 5. Click submit	Username:9999999999 Password: 321	Home Page Test successful.	Home Page Test successful	Pass
Post Condition: Successful Home Page Test.				

Project Name: Online Restaurant Management System.			Test Designed by: Nabajit Dey	
Test Case ID: FR_2			Test Designed date:	
Test Priority : High			Test Executed by: Nabajit Dey	
Module Name: signup			Test Execution date:	
Test Title: Registered Test				
Description:Check Registered Module works perfectly or not.				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
6. Go to the website 7. Enter username 8. Enter password 9. Click submit	Username: admin00011 Password: admin0001	SignupTest successful.	Signup Test successful	Pass
Post Condition: Registered test Successful				

Project Name: Online Restaurant Management System.			Test Designed by: Nabajit Dey	
Test Case ID: FR_3			Test Designed date:	
Test Priority : High			Test Executed by: Nabajit Dey	
Module Name: Admin Login Test			Test Execution date:	
Test Title: Admin Login Test				
Description:Check Admin Login Test Module works perfectly or not.				
Precondition (If any): Admin Login Test must have valid username and password.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
10. Go to the website 11. Enter username 12. Enter password 13. Click submit	Username: admin00011 Password: admin0001	Admin Login Test successful.	Admin LogIn Page Test successful	Pass
Post Condition: Login test Successful				

Project Name: Online Restaurant Management System.			Test Designed by: Nabajit Dey	
Test Case ID: FR_4			Test Designed date:	
Test Priority : High			Test Executed by: Nabajit Dey	
Module Name: ChangePassword			Test Execution date:	
Test Title: ChangePassword Test				
Description:Check ChangePassword Page Module works perfectly or not.				
Precondition (If any): Admin must have new username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
14. Go to the website 15. Enter username 16. Enter password 17. Click submit	Old Password: admin00011 New password: admin0009 Confirm Passward: admin0009	Home Page Test successful.	Home Page Test successful	Pass
Post Condition: Successful Home Page Test.				

Project Name: Online Restaurant Management System.			Test Designed by: Nabajit Dey	
Test Case ID: FR_5			Test Designed date:	
Test Priority : High			Test Executed by: Nabajit Dey	
Module Name: logout session			Test Execution date:	
Test Title: logout session Test				
Description:Check logout session Module works perfectly or not.				
Precondition (If any): Admin must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
18. Go to the website 19. Enter username 20. Enter password 21. Click submit	Username: admin0007 Password: admin0001	Logout session Page Test successful.	Logout session Page Test successful	Pass
Post Condition: Logout test Successful.				

Project Name: Online Restaurant Management System.			Test Designed by: Nabajit Dey	
Test Case ID: FR_6			Test Designed date:	
Test Priority : Medium			Test Executed by: Nabajit Dey	
Module Name: Create Employe Account			Test Execution date:	
Test Title: Create Employe Account Test				
Description:Check Create Employe Accoun Page Module works perfectly or not.				
Precondition (If any): Employee must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
22. Go to the website 23. Enter username 24. Enter password 25. Click submit	Username: admin0001 Password: admin0001	Create Employe Account Page Test successful.	Create Employe Account Page Test successful	Pass
Post Condition: Create Employe Account Test Successful.				

Project Name: Online Restaurant Management System.			Test Designed by: Nabajit Dey	
Test Case ID: FR_7			Test Designed date:	
Test Priority : Medium			Test Executed by: Nabajit Dey	
Module Name: Add Food			Test Execution date:	
Test Title: Add Food Page Test				
Description:Check Add Food Page Module works perfectly or not.				
Precondition (If any): Admin must have valid Food name , Food Price				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
26. Go to the website 27. Enter username 28. Enter password 29. Click submit	Food Name : Water Food Price : 25	Add Food Page Test Successful.	Add Food Page Test Successful	Pass
Post Condition: Successfully added in menu.				

Project Name: Online Restaurant Management System.			Test Designed by: Nabajit Dey	
Test Case ID: FR_8			Test Designed date:	
Test Priority : Medium			Test Executed by: Nabajit Dey	
Module Name: Update Food Price			Test Execution date:	
Test Title: Update Food Price Page Test				
Description:Check update foodprice Page Module works perfectly or not.				
Precondition (If any): Admin can Update food price.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
30. Go to the website 31. Enter username 32. Enter password 33. Click submit	Enter new price : 255	Update Food Price PageTest successful.	Update Food Price Page Test successful	Pass
Post Condition: Successfully changed food price!				

Project Name: Online Restaurant Management System.			Test Designed by: Nabajit Dey	
Test Case ID: FR_9			Test Designed date:	
Test Priority : Medium			Test Executed by: Nabajit Dey	
Module Name: Delete Food Item			Test Execution date:	
Test Title: Delete Food Item Test				
Description:Check:Check Delete Food Item Page Module works perfectly or not.				
Precondition (If any): Admin can Delete Food Item.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/ Fail)
1. Go to the website 2. Enter username 3. Enter password 4. Click submit	Username: admin0001 Password: admin0001	Delete Food Item Page Test successful.	Delete Food Item Page Test successful	Pass
Post Condition: Successfully Delete food price!				

8.ITEM PASS/FAIL CRITERIA

This section's primary goal is to outline the PASS/FAIL standards for the tests included in this project. A component, unit, system, or integrated test item will be deemed to meet the pass criterion if it scores between 80% and 95%, and the failure criteria will be applied to any system or unit scoring below 80%. This measurement is what we used in our project to determine how dependable and user-satisfying it is. The test process will be completed once the initial set of distributors have successfully sent in reassigned sales data for a period of one month and the new EDI data balances with the old ZIP/FAX data received in parallel. When the sales administration staff is satisfied that the data is correct the initial set of distributors will be set to active and all parallel stopped for those accounts.

9.TEST DELIVERABLES

After development, technical process should be followed. Delivery process should be defined in SQ Test plan –

1. The results of unit tests should be adequately documented. To aid with post-testing, the product needs to be carefully assessed. Document for turnover must be prepared.
2. Test strategies, results, and connected modules in system integration should be documented. Integration with COTS and third parties should be specified. Component functioning and OTS tolerance level should be accurately defined. To make it simpler to comprehend effort and improvement for system testing, DRE, PhAge, Spoilage, and other calculations should be calculated and documented prior to software delivery.
3. Carefully choose the acceptance test audience to ensure accurate results and feedback. It functions as a contract for the release of the development team and the delivery of software.
4. The System Requirement Specification (SRS) document will serve as the basis for the test strategy decision. The Test manager or lead created this high-level document. It is necessary to mention the test's aim, methodology, scope, levels, entry and exit criteria, staffing, etc.
5. Test progress and plans should be monitored using project management software such as Clickup, Wrike, etc.
6. Depending on the client's request, a test summary report may be required to assess overall performance. All test operations, results, client and tester information, scope, objectives, test methodology, defect report, etc. are included in the test summary report.
7. The text should be accompanied by concepts and toolkits for screen-based software prototyping. Understanding software functionality and any risks or problems is beneficial. It is used to communicate to the end user how the criteria were met.
8. A mockup report that provides a model, visual draft of how the project will look or how the design was originally envisioned must be ready before the project is delivered. To make it easier for readers to view the entire document without pausing and restarting, several formats for charts, graphs, and illustrations might be employed.
9. A test manual covering the unit, integration, and system tests that will be conducted before delivery and the anticipated results should be included in the documentation.
10. The test log keeps track of events that happened during the execution and scheduling of a test as well as the progress of each phase. Every aspect of the project has been observed, and data describing the project's activities and various approaches has been recorded.

10.STAFFING AND TRAINING NEEDS

The goal of the staffing strategy is to guarantee that there are enough workers on the project with the necessary skills and background to complete it successfully. Additionally, hiring and training are crucial human resource management strategies used to boost business performance by enhancing human capital assets. The tasks that must be completed for the project to be completed are mentioned in detail in the section below. It outlines the positions necessary to complete the project, their responsibilities, and the number of people needed to fill each position.

1. If the project is well-funded and all of its viewpoints are engaged, it will go smoothly. These are things that we ought to be aware of. We must broaden our initiative to incorporate training and other initiatives as required.

2. First and foremost, there will be one or two project managers who are skilled at planning, organizing, and completing projects while adhering to budgetary and time constraints.

3. We used lead programmers for our project. Lead programmers are software developers who manage a lot of projects. He is responsible for overseeing projects, making technical decisions, and creating technical work. At the managerial level, he is in charge of meeting goals and adhering to deadlines.

4. System/integration and acceptability testing phases for our project call for at least one full-time tester. The project will be under the full-time tester's control for four months after it starts. The test manager will take on this role if there isn't a tester available. If we want to ensure a complete and accurate assessment, we must address a number of training-related problems.

5. Developers and testers need to be taught the fundamentals of our project interface. Operations staff must also receive full training in this project communication procedure prior to the project's official approval.

6. By examining the project's needs, ascertain how to turn a designer's idea into a plan that developers can implement. A requirement analyst could help us with these kinds of duties in our project.

7. We established the project's aim after considering the testing strategy and objectives. Viewed the results of a testing cycle after it had been successfully finished.

8. The monitoring and control systems are essential to achieve project objectives. If project-related discussions have taken place, a monitoring system will be helpful. The project's developer will keep an eye on its progress and make any adjustments that are required.

9. There is better integration between user management and development management. The user administrator chooses after taking into account changes to the control procedure. In our project, the user management team was able to be contacted as a result whenever the development management system needed help enhancing the project. The testing group must then determine if there is an issue or if an upgrade or modification is required.

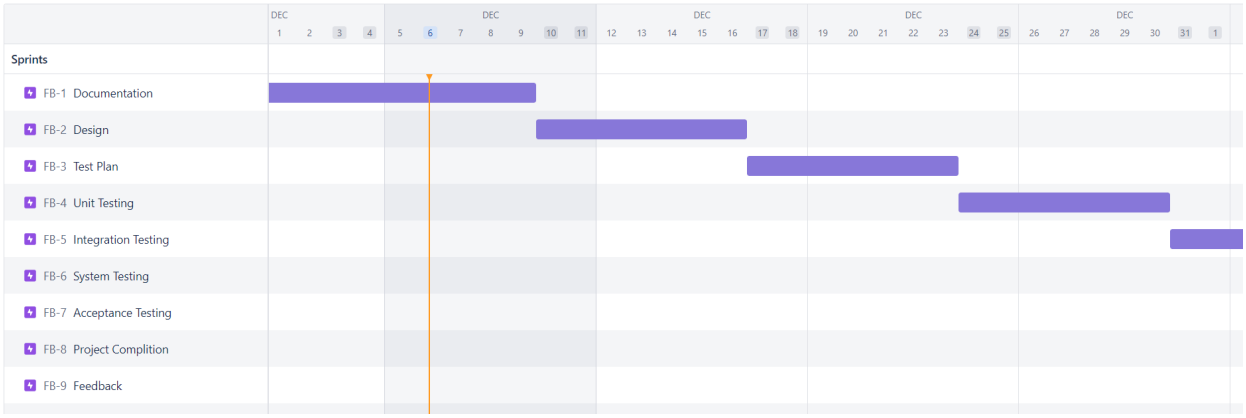
Finally, we may say that enough staffing and training (if needed) are essential. If we want to effectively complete the project on time, staffing and training are essential.

11.RESPONSIBILITIES

	TM	PM	Dev. Team	Test Team	Client
Acceptance test Documentation & Execution	X	X		X	X
System/Integration test Documentation & Exec.	X		X	X	
Unit test documentation & execution	X		X	X	
System Design Reviews	X	X	X	X	X
Detail Design Reviews	X	X	X	X	
Test Procedures and rules	X	X	X	X	
Screen & Report Prototype reviews			X	X	X
Change control and Regression testing	X	X	X	X	X

12.TESTING SCHEDULE

Task Name	Duration	Responsible
Documentation	1 Week	Test Lead
Design	6 Days	Software Tester
Test Plan	5 Days	Test Engineer
Unit Testing	5 Days	Software Tester
Integration Testing	2 Days	Software Tester
System Testing	6 Days	Software Tester
Acceptance Testing	2 Days	Software Tester
Project Completion	6 Days	Test Engineer
Feedback	4 Days	Test Lead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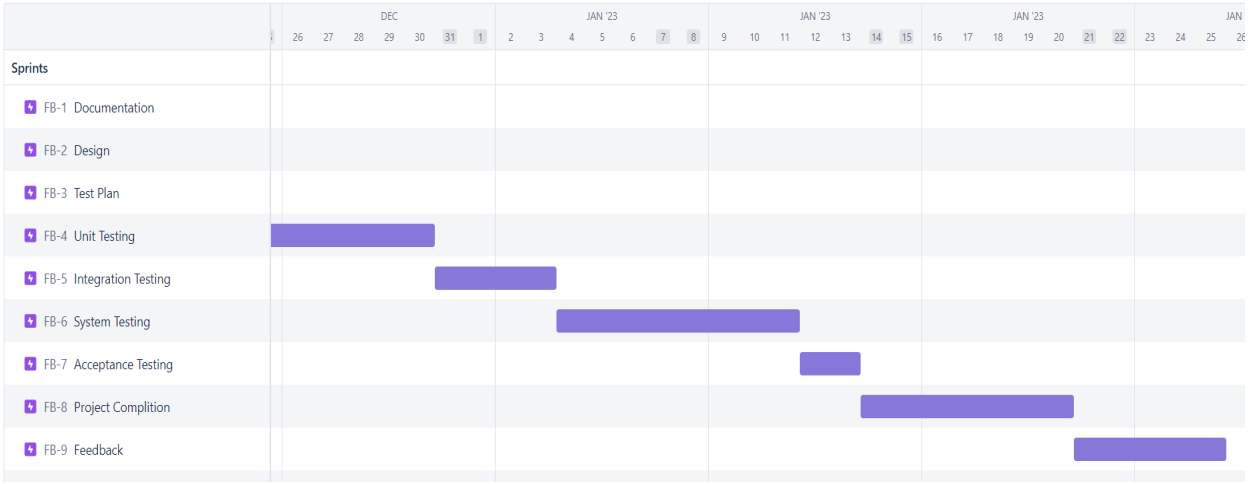
FB-9 Feedback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FB-9 Feedback

13.PLANNING RISKS AND CONTINGENCIES

- Limited Reassigned Sales staff. The Reassigned Sales administration staff currently has two positions unfilled. As a result of this staff shortage there may be delays in getting staff to review appropriate documents and to participate in the Acceptance test process. Should client staff become a problem, the appropriate dates for reviews and acceptance testing will slip accordingly. No attempt will be made to bypass any part of the review and testing processes.

Risk	Portability	Impact	Mitigation
Error in function	Medium	Medium	Test the website continuously.
Loss of encrypted data	Medium	High	Maintain security checkup continuously.
User's account hacking possibility	High	High	Restrict user after 3 unsuccessful login attempts.

14.APROVALS

Project Sponsor - Steve Sponsor	
Development Management - Ron Manager	
EDI Project Manager - Peggy Project	
RS Test Manager - Dale Tester	
RS Development Team Manager - Dale Tester	
Reassigned Sales - Cathy Sales	
Order Entry EDI Team Manager - Julie Order	