American International University-Bangladesh (AIUB)
Department of Computer Science
Faculty of Science &Technology (FST)
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Section: H
Software Quality Assurance and Testing

Hotel Management System

A Report Submitted By

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Under the supervision of
Md. Anwarul Kabir
Professor, AIUB

Software Test Plan

for

Hotel Management System

Version 1.0

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NUSHRAT JAHAN

13 May 2023

Checked By Industry Personnel

Name:

Designation:

Company:

Sign:

Date:

Table of Contents

Revision History

Revision	Date	Updated by	Update Comments

1. TEST PLAN IDENTIFIER:

Hotel Management system RS-MTP01.3

2. REFERENCES

The references we used are:

- Yu, Chuanbao, Haiyan Sun, and Baozhen Han. "Design and implementation of Chinese high star-level hotel management information system." *2015 International Conference on Education Technology, Management and Humanities Science (ETMHS 2015)*. Atlantis Press, 2015.

- Deeti, Sumanth, Sravani Manne, and Veerendra Vundavalli. "Hotel Management System." (2016).

3. INTRODUCTION

Technology is transforming the economy in its whole in today's modern world. Thanks to technological advancements, people can now complete tasks and jobs more quickly, easily, and efficiently. Technology is developing and expanding so quickly that machines are replacing workers to accomplish the same task at a productivity rate more than ten times that of the labor force. However, if we substantially and solely rely on technology, it might pose a serious issue because it lacks internal emotions and unconventional creativity, which would result in monotonous and constant work performance. The best kind of performance are in jobs where labor and technology complement each other to produce the maximum output.

In the world of hotels and resorts, the competition in the market is very high. Every year, due to poor management, many hotels and resorts become stale and go out of competition. Managements the key factor in determining whether the hotel will stay in the competition or run out of business. First impression of a hotel to the public is its management, which, if it is upto the mark, raises the reputation of the hotels in the eyes of the people. In today's world, the only way to keep management up to the mark is to make labor and technology work in compliment with each other. Most of the hotels today use a labor-based management system, which, as a result causes the management to lack behind the demands of people as there are somany people checking in and out of each hotel every single day that the labor based

management system cannot keep up and then the complains of people rises which degrades the reputation of the hotel and eventually it goes out of business. On the other hand, very heavy technology-based management systems, which many 5 star and 7-star hotels use, fail to cater to the needs of the people and provide extra care to them, which also downgrades the relevancy of the hotel.

A labor technology-based management system is, in this case, the most reliable choice which can both keep up with the demands of the public and also provide extra care to them, which, as a result will upgrade the reputation and prolong its relevancy. But there is a huge problem. In the case of this type of management system, the application or website used to control the management of the whole hotel is usually so complex inefficient to use that the admins, managers, receptionist and the customers get very much confused and it becomes very hard for them to grapple with the complex technicalities of the management system. As a result, the performance of the labor handling the complex technology become inefficient and the whole management lacks behind and the reputation of the hoteldeteriorates.

3.1. Solution to the Problem

What are the solutions you are going to propose to deal with the problem? why is this technology involved in the operation of the management system usually becomes complexand inefficient and difficult to handle by the labor and the customers because all the different functionalities enabled in the management system do not have a definite origin or source. Different functionalities are originated from different sources, which, as a result, makes the whole system very vulnerable to deficiencies and very difficult to use. If one of the sources is embedded with undiscovered defects and lags, some of the functionalities become disabled and as the functionalities are dependent on one another, all of them disintegrates and the whole system collapses. As the usability of the functionalities in each panel are connected with each other and make up the whole management system, when some of the functionalities become disabled, the whole management system lacks behind the demands and needs of people. To solve this huge problem, a web-based hotel management system is developed in which all the functionalities are originated from a single source. We have to check and remove defects from only that source and as a result, all the functionalities in each panel will be enabled to work together, which makes the management system simple and efficient to use and as the functionalities are connected with each other, the admins, managers, receptionists and customers use the management system faster andeasily.

4. REQUEIREMNT SPECIFICATION

4.1. System Features

This project for a hotel administration system has 4 panels and 1 homepage. Each panelist contributes a crucial quality to the project. The following is a list of the system functional specifications for the hotel management system.

4.1.1. Admin Panel

After logging into the website, an admin can handle every part of the hotel management system from the admin panel. He or she can access the admin panel with the standard login and password. The administrator's vast variety of abilities are crucial to a hotel management system. By clicking the "Homepage" and "Logout" buttons on this panel, the admin can easily reach the homepage and logout.

1.1. **Login:** A user name and password are provided by default. If the username or password have been entered incorrectly numerous times, the system will offer a verification code to try again.
1.2. **Add employee:** After successfully login in to the admin interface, the admin can add employees. If any of the provided information is missing, it won't be authorized. The data should be complete in every way. The employee data is added to the list using SQL.
1.3. **Employees List:** Here, the listed data for each employee is shown.
1.4. **Add Category:** For both consumers and staff, the administrator can add different list categories.
1.5. **Category List:** This page displays every category that the administrator has added.
1.6. **Customers List:** The administrator has the right to see all activity on the panel. The list of clients added by the front desk agent is visible to the admin.
1.7. **Add an Event:** The administrator can add events for both customers and employees.
1.8. **Events List:** This page shows the most recent list of events.
1.9. **Add Rooms:** All of the responsibilities of a hotel management system are handled by admin. Additional rooms for the client may be added, at the admin's discretion.
1.10. **All Booked Rooms:** The rooms that have been reserved by the administrator or the receptionist are listed here.
1.11. **All Approved Rooms:** This page provides admin access to and viewing of the approved room booking list.
1.12. **All Available Rooms:** The hotel's manager can look up the number of available rooms.
1.13. **Add notification:** Admin may post a notification about the hotel for the benefit of the staff and guests. Every query a consumer submits is examined by the administrator. The administrator can view the customer's reserved time for the gym.
1.14. **Spa schedule for all reservations:** The administrator can see the client's reserved spa time.
1.15. **Log Out:** Once all tasks have been completed, the admin can successfully log out of the panel. Regardless matter how frequently someone logs out of the panel, they must log back in with the proper user-name and password.

Priority Level: High
Prerequisite: User must follow all instructions there and have a valid user ID and password.

4.1.2. Manager Panel

The management of a hotel management system requires a manager. Here are a handful of the manager panel's most important features.

2.1. **Log in:** The manager receives a user ID and password from the admin automatically. The system will present a verification code to try again if the login and/or password have been entered incorrectly many times.
2.2. **Add Category:** The manager is able to add new list categories for both customers and employees
2.3. **All Clients:** During reception, every client's information is displayed.
2.4. **Add Event:** The manager has the ability to add events for both clients and staff.
2.5. **All Events:** This page shows the most recent list of events.
2.6. **Add Rooms:** The manager is responsible for fulfilling all requirements outlined in the hotel management system. The manager may decide to add additional rooms for the client. In the event that the management does not adhere to all requirements, no rooms will be added.
2.7. **All Rooms:** This section lists the rooms that the management or the receptionist has reserved.
2.8. **All Approved Rooms:** This page allows managers to examine and gain access to the list of approved room bookings.
2.9. **Add notification:** The hotel manager may post a notification. The manager can keep an eye on the customer's reserved time for the gym.
2.10. **All scheduled Spa appointments:** The administrator can see the client's scheduled spa appointment.
2.11. **Log out:** The manager can successfully log out of the panel after all processes have been completed. Regardless of how often a user logs out of the panel, they must log back in using the correct user's name and password.

Priority Level: High

Prerequisite: User must follow all rules and have a working user ID and password.

4.1.3. Receptionist Panel

The receptionist is a crucial component of the hotel management staff. This panel has a number of functions that are essential to the hotel management system. These include,

3.1. **Booked Room:** The front desk agent individually reserved the customer's room. No rooms will be added if the Receptionist does not fulfill the standards. He or she must therefore use caution.
3.2. **Show All Booking Room:** This section displays all manually or online reserved rooms.
3.3. **Show All Available Rooms:** The hotel's front desk agent counts the number of rooms that are available so that she or he can reserve one for the client.
3.4. **In Room:** The front desk employee can view a customer's check-in details here, including the time, date, and other details.
3.5. **Log out:** When all tasks have been finished, the front desk agent can properly log out of the panel. No matter how frequently a person logs out of the panel, they have to come back in with the right user-name and password.

Priority Level: Medium

Prerequisite: The user must follow all rules there and have a working user ID and password.

4.1.4. Customer panel

The customer is the main source of income for a hotel management system. A user opens the hotel's homepage before using its function.

4.1. **Sign Up:** The user must register and set up an account in order to use the panel. The registration form's requirements must be fully completed by the user. If any required information is omitted, the form will not accept the submission.

4.2. **Log in:** The customer will be given a password and user ID after creating an account. If the login and/or password have been entered incorrectly numerous times, the system will display a verification code to try again.

4.3. **Rooms With pricing:** A user can look at the room pricing to see which ones are the most reasonable.

4.4. **Profile:** The user can then access their profile, which was created when they registered, after that. An individual can change and delete their profile there. Users may submit a question to the authority regarding reservations, hotel services, etc.

4.5. **Ask Question:** A user has the option to ask the relevant authorities a question regarding reservations, hotel services, etc.

4.6. **Booking History:** A person can view their past hotel bookings.

4.7. **Book Room:** A user may book a room in accordance with their requirements and preferences. The customer must completely fulfill their needs. No rooms will be added if the customer does not fully or satisfactorily comply with the conditions.

4.8. **Reserve Gym:** Depending on their interests and requirements, users can reserve a particular time.

4.9. **Reserve Spa:** A user has the option to book a spa appointment whenever they choose.

4.10. **Order Food:** Users of the website can do so. The website features a button that will take visitors directly to the meal Panda delivery service and is comparable to the website for food delivery.

4.11. **Events:** User can view upcoming events.

4.12. **Reviews and Ratings:** Following use of the services, customers may leave reviews and ratings.

4.13. **Log out:** The customer can successfully log out of the panel once all actions have been completed. No matter how frequently a person logs out of the panel, they have to come back in with the right user-name and password.

Priority Level: High

Prerequisite: User must follow all rules and have a working user ID and password.

4.2 System Quality Attribute

- Availability: - The system shall be available during normal hotel operating hours.
- Correctness: - the extent to which the program satisfies specifications, and fulfills the user's mission objectives.
- Efficiency: - How much smaller number of resources and time are required to achieve aparticular task through the system.
- Flexibility: - Ability to add new features to the system and handle them conveniently.
- Integrity: - How the system would insecure the information in the system and how it avoids data losses. Referential integrity in database tables and interfaces.
- Maintainability: - How easy is it to keep the system as it is and correct defects by makingchanges?
- Portability: - The Hotel Management System shall run in any Microsoft Windows environment.
- Reliability: - Specify the factors required to establish the required reliability of the software system at the time of delivery. Mean time between failures and mean time to recovery.
- Reusability: - What is the ability to use the available components of thesystem in other system as well?

- Testability: - Effort needed to test to ensure performs as intended.
- Usability: - How easily a person can be taken the benefits of the system and the user-friendliness.
- Robustness: - Strength of the system to handle system functions accurately and maintainthe database without facing unexpected failures.

Priority Level: High
Precondition: N/A

4.3 System Interface

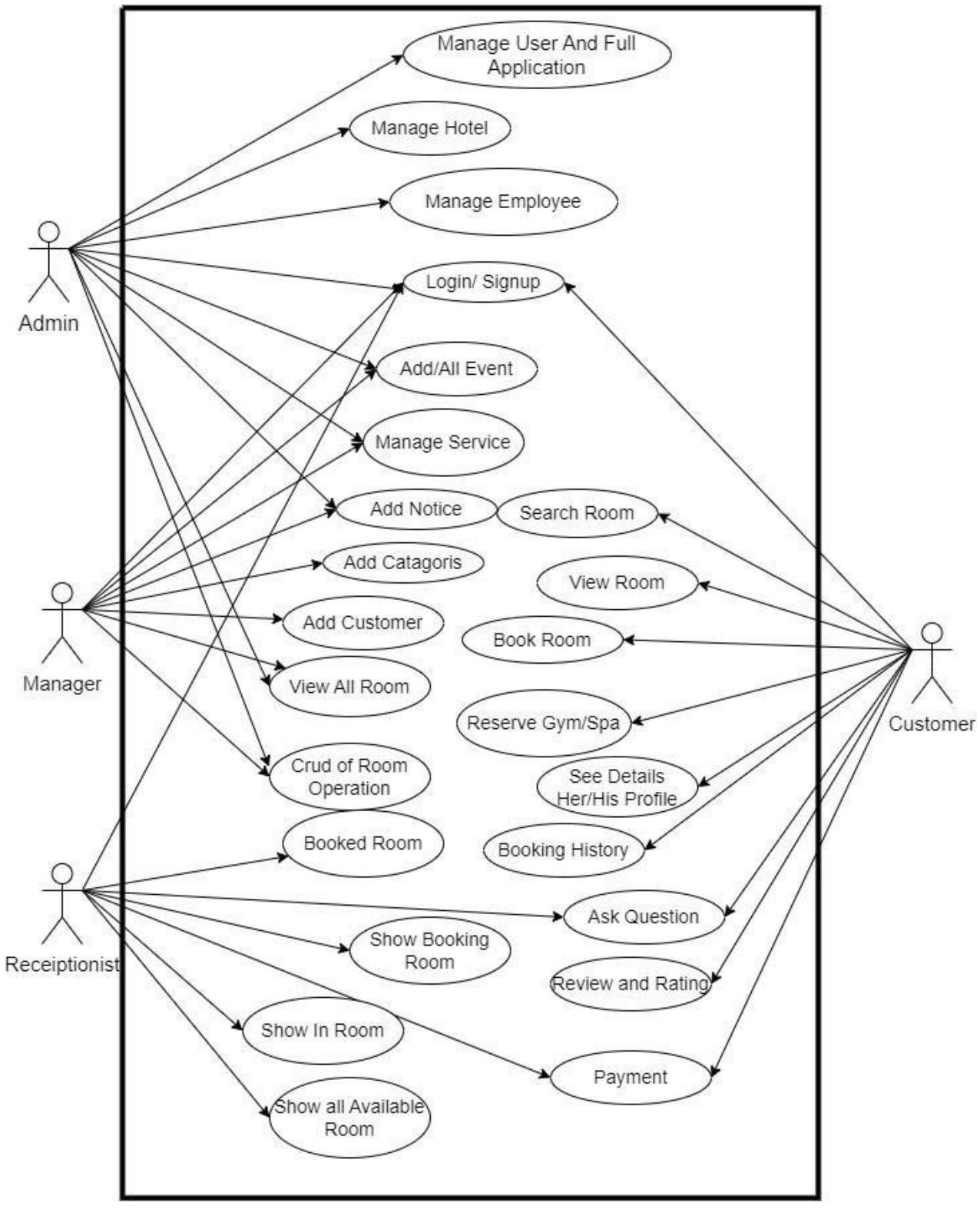


Fig: Use case

5. FEATURES NOT TO BE TESTED

Four panels make up the bulk of the project. This panel offers a wide range of features. Due to the comparable sort of functionality and slightly identical codes of several features, we decided not to test them. A few panels were also not analyzed because they weren't necessary for the case. For instance, the "add rooms" and "add categories" tools on the management panel have functionality identical to that of a manager, a receptionist, or a customer, but they are from their perspective, thus we didn't test them.

- Order food
- Events
- Gym schedule
- Add category

6. TESTING APPROACH

6.1. Testing Levels

In order to test the various functionalities of each panel and the entire system as a whole, unit testing and integration/system testing were used in this project to develop a single source- oriented web-based hotel management system. This makes it simpler and quicker for administrators, managers, receptionists, and customers to use the website effectively. The beta version of the hotel management system underwent acceptance testing after a crude prototype was created to see if the management was up to the mark.

Unit testing: The purpose of this step is to test the system using certain functionality, such as booking rooms, adding staff, and approving room requests. The test needs to be carried out from the perspective of a human in order to test the intended functions. Selenium is being used to test the program's methodology. In order to ensure that each feature of each panel is carried out individually in order to execute the functionality, the system will be constructed using the most cutting-edge Desktop version.

Integration Testing: To evaluate how well the system operates as a whole, the components will be connected and assembled to create a bigger subsystem. The system may malfunction if certain requirements are met and it is operating as an assembled system. To ensure that the functionalities of various panels are operating properly and appropriately, each of the many panels is examined individually as a whole. As a result, testers put this testing to the test to see whether the built systems are reliable and functional.

System Testing: After each component's functionality has been integrated, the entire system is created and put through a rigorous testing process. This establishes if the website server will lag while several users, such as administrators, managers, receptionists, and hundreds of clients, are utilizing the same website concurrently. Through system testing, we can verify whether the website will function as effectively as necessary to ensure that the management is up to the mark.

Acceptance Testing: Any desktop versions of the system will be used, and it will be quite usable and have simple-to-use functions. The features will work in the circumstance to manage numerous persons at once. As a result of these functions, the website will need to be modified in order to bring the management up to par, which will increase costs and budget projections. The system will live up to the customer's expectations because it will undergo a 15-day testing period utilizing testing tools to evaluate whether the system and

integration system are operating correctly or not. The features will therefore be positively accepted by the target end users.

6.2. Test Tools

We have enabled Selenium IDE into chrome extension and utilized it to evaluate the functionality and functioning of the website.

6.3. Meetings

We were to meet once a week to assess our progress, pinpoint problems, and spot patterns in errors. Together, we completed the entire task as well. We worked in Microsoft teams to create and test the entire project. The software quality assurance engineer and I have all met. Due to the exigency, further meetings had to be scheduled as needed.

7. TEST CASES/TEST ITEMS

7.1. Test Case: Login

<table>
<tr><td colspan="3">Project Name: Hotel Management System</td><td colspan="2">Test Designed by: Sumon</td></tr>
<tr><td colspan="3">Test Case ID: LOG_2</td><td colspan="2">Test Designed date: 29/04/23</td></tr>
<tr><td colspan="3">Test Priority (Low, Medium, High): High</td><td colspan="2">Test Executed by: Maimona</td></tr>
<tr><td colspan="3">Module Name: Login with session test</td><td colspan="2">Test Execution date: 30/04/23</td></tr>
<tr><td colspan="3">Test Title: verify login with valid username andpassword</td><td colspan="2"></td></tr>
<tr><td colspan="3">Description: Test Hotel Ocean Blue website’s login page</td><td colspan="2"></td></tr>
<tr><td colspan="5">Precondition (If any): User must sign in and must have valid username and password</td></tr>
<tr><td>Test Steps</td><td>Test Data</td><td>Expected Results</td><td>Actual Result</td><td>Status (Pass/Fail)</td></tr>
<tr><td>1. Go to the website
2. Enter username
3. Enter password
4. Click ‘Log In’button</td><td>Name: Mohammad Sumon

Password : S@123456</td><td>User can login into the website and go to their own panels with showing their name with welcom egreeting.</td><td>As expected,</td><td>Pass</td></tr>
<tr><td colspan="5">Post Condition: User is validated with database and successfully login to their account. The account session details are logged in the database. Show their name by session method andcan enjoy the features of their panels.</td></tr>
</table>

7.2. Test Case: Home Page

Project Name: Hotel Management System			Test Designed by: Sumon	
Test Case ID: HP_1			Test Designed date: 30/04/23	
Test Priority (Low, Medium, High): High			Test Executed by: Maimona	
Module Name: Home Page			Test Execution date: 01/05/23	
Test Title: Showing the home page				
Description: Test the home page is perfectly working or not when go to the Hotel Ocean Blue website				
Precondition (If any): receptionist must have login with their valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the browser 2. Enter websitename 3. Enter into the Hotel Ocean Blue website 4. Show the home page	Website link	Show the home page of Hotel Ocean Blue	As expected,	Pass
Post Condition: User can visit their home page, can login to their website and can use their desire features.				

7.3. Test Case: Sign UP

Project Name: Hotel Management System			Test Designed by: Maimona	
Test Case ID: SU_3			Test Designed date: 01/05/23	
Test Priority (Low, Medium, High): High			Test Executed by: Sumon	
Module Name: Signing Up			Test Execution date: 02/05/23	
Test Title: Sign Up with valid information				
Description: Test the Sing up module perfectly works or not				
The precondition (If any): The user must have go to the authentic website of Hotel Ocean Blue				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Show the homepage 3. Click the Sign-Up button 4. Give valid pieces of information 5. Click submit	Name: Mohammad Sumon Username : sumu9897 Password: S@123456 Confirm Password: S@123456 Email: mohammad.sumon9897@gmail.com Phone Number: 01731057540 NID No:67543234 Address: Dhaka Gender: Male Age: 23	User Sign Up with Their valid information.	As expected,	Pass

7.4. Test Case: Room Booking Crud operation for Customer panel

Project Name: Hotel Management System			Test Designed by: Fabiha	
Test Case ID: RB_5			Test Designed date: 03/05/233	
Test Priority (Low, Medium, High): High			Test Executed by: Nushrat	
Module Name: Room Booking Crud Operation			Test Execution date: 04/05/23	
Test Title: verify room booking crud operation (add, show, edit, delete)				
Description: Test the room booking crud				
Precondition (If any): User must have login with their valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Enter username, password and login 3. Book room 4. Show booking rooms 5. Edit booking room if require 6. Delete Booking room	Username: maimona Password: Maimona @123	User can book rooms, show their booking rooms, can edit their booking information and also can cancel or delete booking	As expected,	Pass
Post Condition: User can easily book their rooms any time and enjoy their hotel services.				

7.5. Test Case: Employee Add, Show, Edit Delete Test in Adminpanel

<table>
<tr><td colspan="3">Project Name: Hotel Management System</td><td colspan="2">Test Designed by: Nushrat</td></tr>
<tr><td colspan="3">Test Case ID: EA_4</td><td colspan="2">Test Designed date: 05/05/23</td></tr>
<tr><td colspan="3">Test Priority (Low, Medium, High): High</td><td colspan="2">Test Executed by: Fabiha</td></tr>
<tr><td colspan="3">Module Name: Employee Adding Crud Operation</td><td colspan="2">Test Execution date: 06/05/23</td></tr>
<tr><td colspan="3">Test Title: verify employee adding crud operation (add, show, edit, delete)</td><td colspan="2"></td></tr>
<tr><td colspan="3">Description: Test the employee adding crud</td><td colspan="2"></td></tr>
<tr><td colspan="5">Precondition (If any): Admin must have login with their valid username and password</td></tr>
<tr><td>Test Steps</td><td>Test Data</td><td>Expected Results</td><td>Actual Results</td><td>Status (Pass/Fail)</td></tr>
<tr><td>1. Go to the website
2. Enter username, password and login
3. Add employee
4. Show employee list
5. Edit employee list if require
6. Delete employee</td><td>User-name: nushrat

Password: Nushrat @123</td><td>Admin can add employee, show their employee list, can edit employee information and alsocan delete employee.</td><td>As expected,</td><td>Pass</td></tr>
<tr><td colspan="5">Post Condition: Admin can easily add employees any time.</td></tr>
</table>

7.6. Test Case: Booked rooms approval and showlist in Manager panel

Project Name: Hotel Management System			Test Designed by: Sumon	
Test Case ID: BA_7			Test Designed date: 06/05/23	
Test Priority (Low, Medium, High): High			Test Executed by: Maimona	
Module Name: Approval booked rooms and show the list			Test Execution date: 07/05/23	
Test Title: verify booked room approval by manager and Show the approved room list				
Description: Test the room approval and show list				
Precondition (If any): Manager must have login with their valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Enter, username, password and login 3. Approve Booking rooms 4. Show approved bookingrooms	Username :fabiha Password : Fabiha@ 123	Manager can approve booking rooms by customers and show their approved booking rooms	As expected,	Pass
Post Condition: Manager can easily approve customer's booking rooms and after that customer can enjoy their hotel services.				

7.7. Test Case: All available rooms show byreceptionist

Project Name: Hotel Management System			Test Designed by:Maimona	
Test Case ID: AR_1			Test Designed date: 07/05/23	
Test Priority (Low, Medium, High): High			Test Executed by: Sumon	
Module Name: Available rooms show module			Test Execution date: 08/05/223	
Test Title: Showing the available rooms by receptionist				
Description: Test the available rooms showing or not				
Precondition (If any): receptionist must have login with their valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Enter username, password and login 3. Click the button of all available rooms show 4. Show the list	Username : maimona 12 Password : Hello@123	Receptionist can show all available rooms	As expected,	Pass
Post Condition: Receptionist can easily show available rooms for the customers and can book room for them.				

7.8. Tase case: Log Out

Project Name: Hotel Management System			Test Designed by: Sumon	
Test Case ID: LO_8			Test Designed date: 08/05/23	
Test Priority (Low, Medium, High): High			Test Executed by: Fabiha	
Module Name: Logout			Test Execution date: 09/05/23	
Test Title: Logout from the account				
Description: Test Logout is perfectly working or not				
Precondition (If any): User must have login into the account				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Enter username, password and login 3. Enjoying user's desire features 4. Click Logout button	Username : Sumu9897 Password : S@123456	User can log out fromtheir account	As expected	Pass
Post Condition: User can easily logout from their account and can again login to their account when they need.				

8. ITEM PASS/FAIL CRITERIA

We are aware that if the test step was carried out and the anticipated outcome occurred, was either witnessed or documented, and can be verified, then that test step can be regarded as havingpassed; otherwise, it will be judged to have failed.

There is a login and logout feature in the hotel management system. The default password and user id are for the admin, manager, and receptionist panels. The database contains a list of data user id and passwords that are stored for the login feature and will match the information enteredby the administrator, manager, and receptionist. For the user, after registering as a customer and setting up an account, the customer has their ID and password. If any details are lacking, the registration will be incomplete, this is known as a failure criterion. When a system satisfiesall of the requirements, it is deemed to have met the pass criterion. Database SQL was used tocreate this list. Information for the feature is kept in a database. As a result, the system will receive a login if the input matches the database list, making it pass a condition. Additionally,

If the login and/or password have been input incorrectly numerous times and the system does not match with the database, the system will issue a verification number to try again and consider it to be a failure criterion. There is a function that adds a room, a category, a gym schedule, etc., but without all their information required to complete the form, the data won't be saved in the SQL database and the form will be deemed to have failed the criteria. One must satisfy all of the criteria there in order to pass, after which it will be recorded in a SQL database.

9. TEST DELIVERABLES

9.1. Acceptance test plan

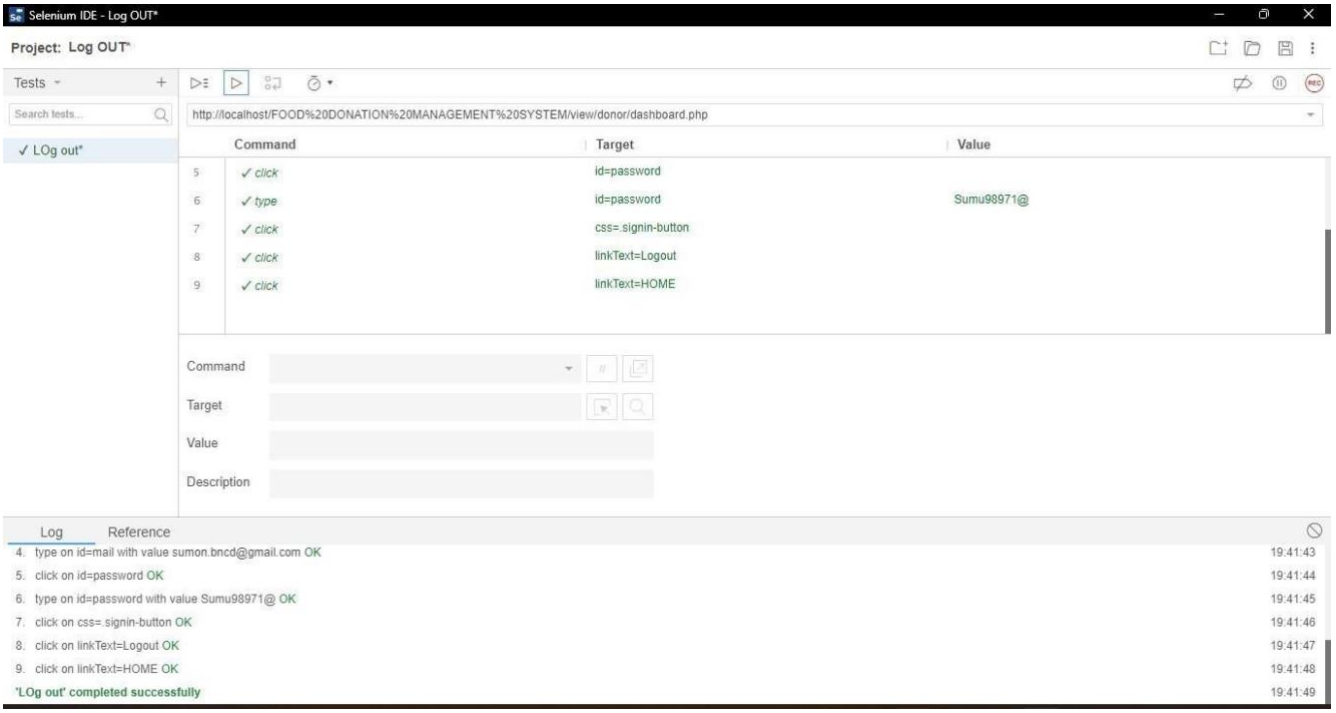
A testing method used to evaluate whether or not the software system has complied the necessary requirements is known as acceptance testing.

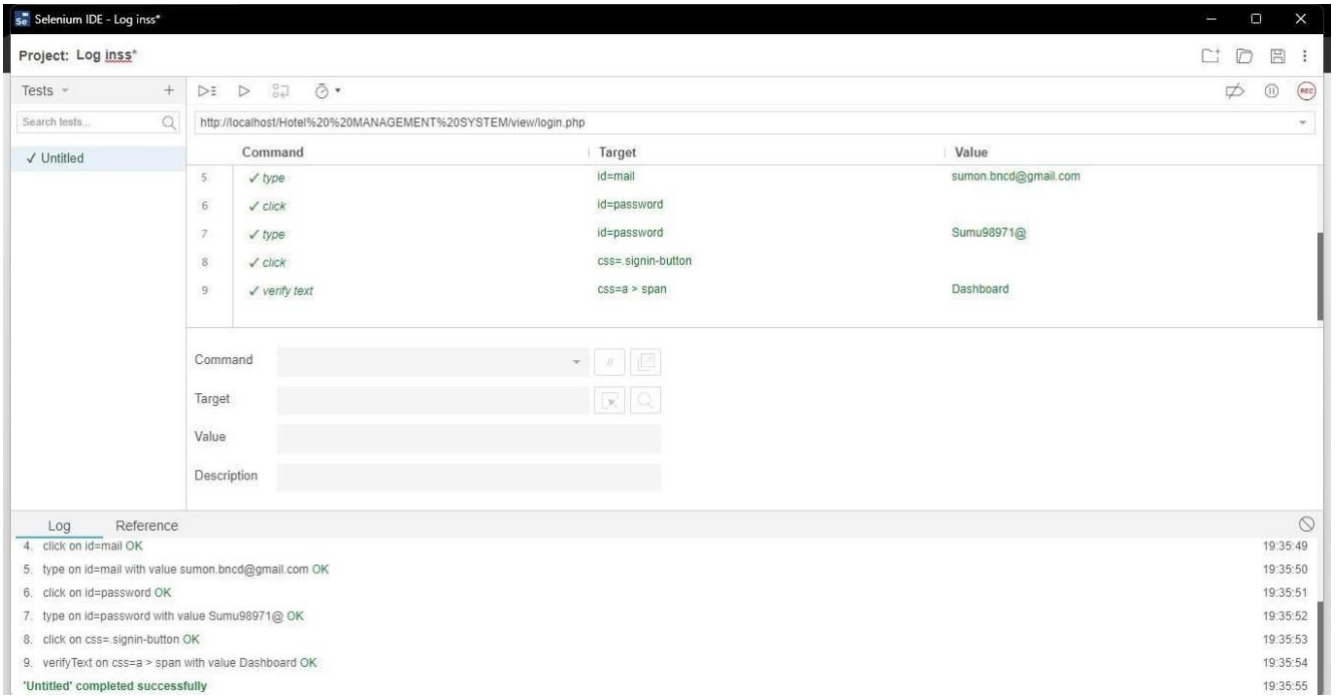
1.Introduction: Single Source oriented technology-based management system
2.Acceptance Test Category for each acceptance criteria a) Operation Environment: desktop/laptop, browser. b) Test Case specification I. Test Case Id: RB_5 II. Test Title: Hotel Management System Test Objective: This tests main objective is to assess the system's responsiveness to the business requirements and confirm that it has satisfied the standards for delivery to end users. III. Test Procedure: Plan the project, make a structural design, implemented, the project testedand deliver 3.Schdeule :14 days or 2 weeks. 4.Human resources: Users, customers.

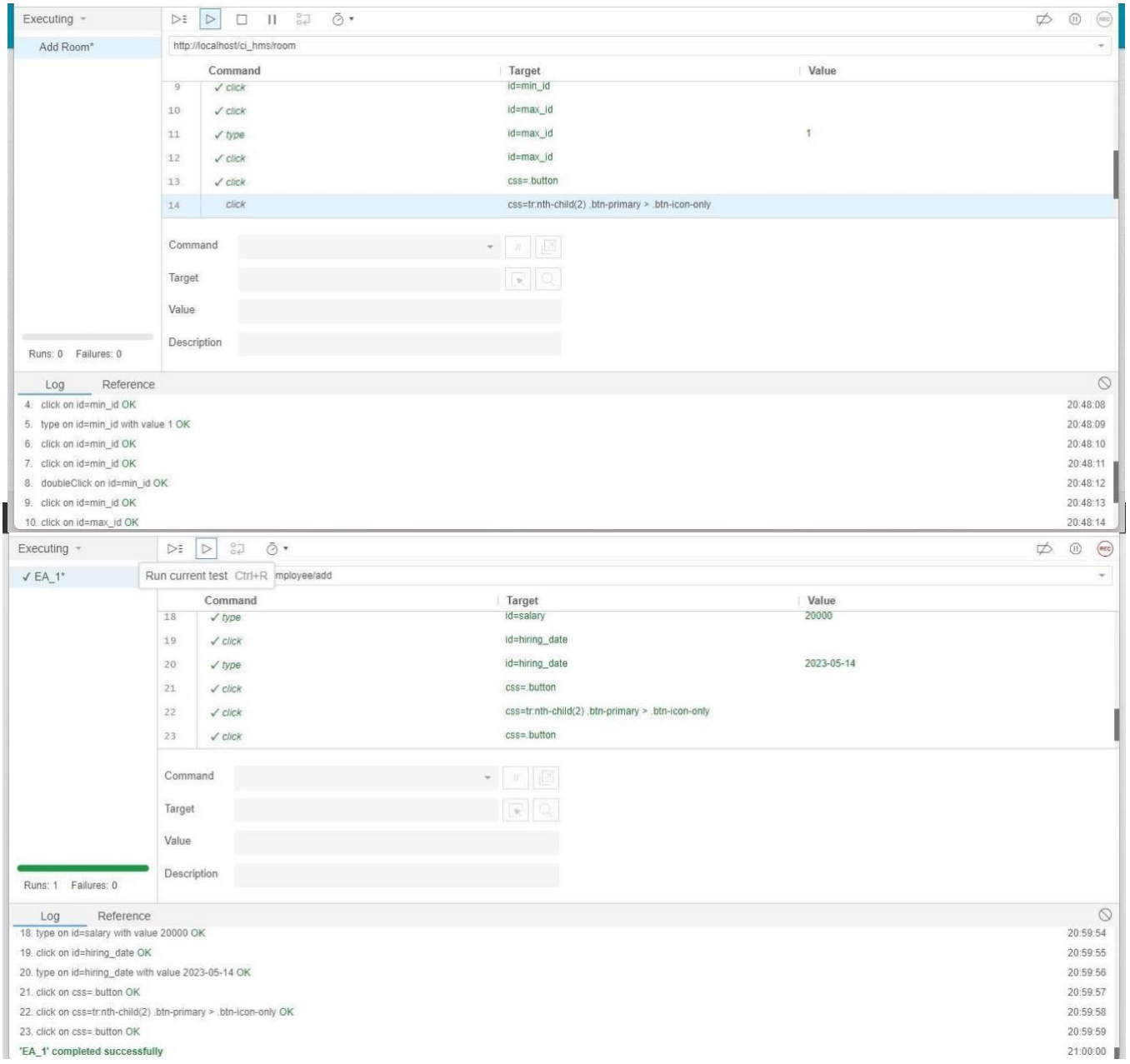
9.2. Integration test plan

1.Scope of Testing: We performed integration testing on our project. Integration Testing picks up where unit testing leaves off. In this level of testing, two or more software units are combinedand put through synchronous testing.
2. Criteria for each Integration Test Phase a) Entry Criteria: The functional and design specification, the code, the unique Test plans, and test,checking requests are all retained reviewed passed and executed. b) Exit Criteria: All the codes, integration test, passed and completed. No major defect is founded andfixed, integration test is carried two weeks and the test are documented c)Integration Techniques to be tested: Flutter testing, Postman testing d)Test configuration: We integrate selenium to chrome extension
3.Test specification for each Integration Test Phase a) Test case id: RB_4 b) Input data: Username: Zubair Password: 87654321 c)Initial Conditions: Must have valid user id and password. d)Expected Results: Log in successfully e) Test Procedure: The Login functionality was individually tested.
4.Actual Test Result for each Integration Test Phase: As Expected
5. Reference: Booked Room Test

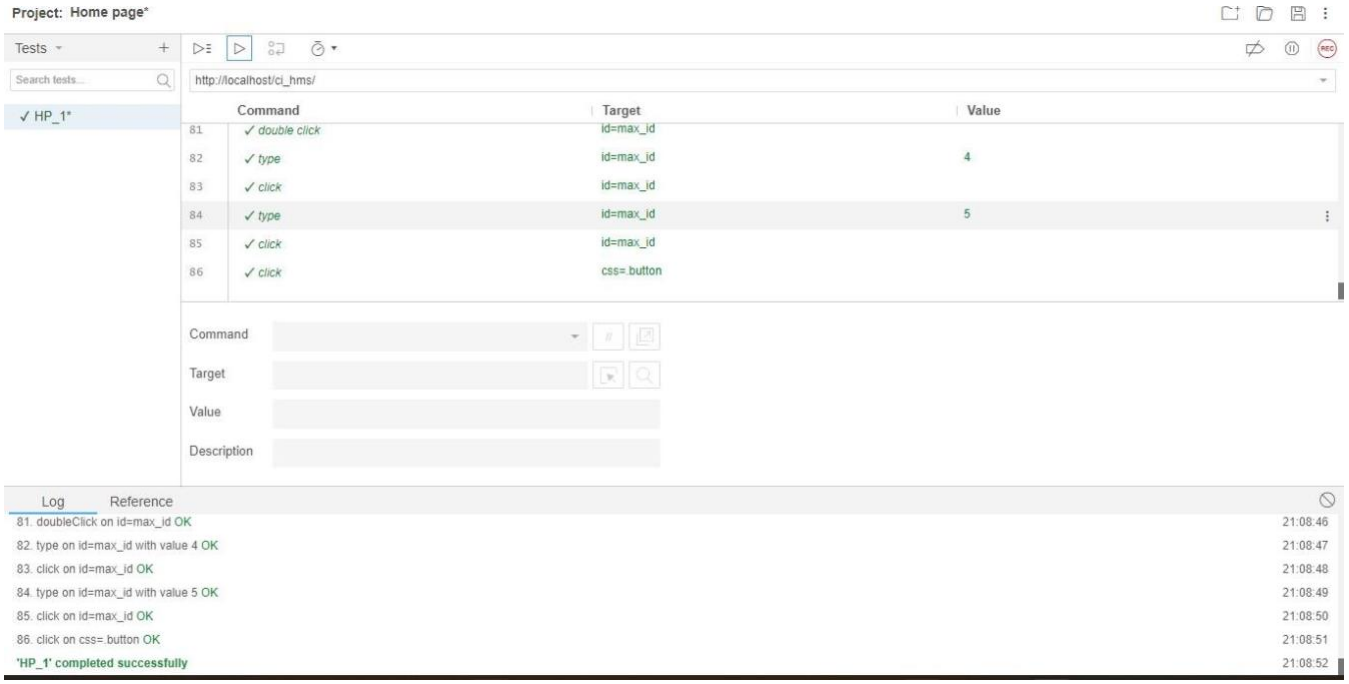
9.3. Screen Prototypes:






Executing
Add Room*
http://localhost/ci_hms/room
Command
Target
Value
9 ✓ click id=min_id
10 ✓ click id=max_id
11 ✓ type id=max_id 1
12 ✓ click id=max_id
13 ✓ click css=.button
14 click css=tr:nth-child(2) .btn-primary > .btn-icon-only
Command
Target
Value
Description
Runs: 0 Failures: 0
Log Reference
4. click on id=min_id OK 20:48:08
5. type on id=min_id with value 1 OK 20:48:09
6. click on id=min_id OK 20:48:10
7. click on id=min_id OK 20:48:11
8. doubleClick on id=min_id OK 20:48:12
9. click on id=min_id OK 20:48:13
10. click on id=max_id OK 20:48:14

Executing
✓ EA_1*
Run current test Ctrl+R
mployee/add
Command
Target
Value
18 ✓ type id=salary 20000
19 ✓ click id=hiring_date
20 ✓ type id=hiring_date 2023-05-14
21 ✓ click css=.button
22 ✓ click css=tr:nth-child(2) .btn-primary > .btn-icon-only
23 ✓ click css=.button
Command
Target
Value
Description
Runs: 1 Failures: 0
Log Reference
18. type on id=salary with value 20000 OK 20:59:54
19. click on id=hiring_date OK 20:59:55
20. type on id=hiring_date with value 2023-05-14 OK 20:59:56
21. click on css=.button OK 20:59:57
22. click on css=tr:nth-child(2) .btn-primary > .btn-icon-only OK 20:59:58
23. click on css=.button OK 20:59:59
'EA_1' completed successfully 21:00:00



Unit test plans/turnover documentation:

The different functionalities in each panel were tested individually to ensure they work correctly and appropriately. Some functionalities in each panel work similar toone another. One of those functionalities was unit tested to make sure the other functionalities in all the panels and the overall management system operate up to themark.

Report mock-ups:

From the above screenshots of the pages of the functionalities and panels of the website, we can view the overall illustration of the hotel management system. We cansee how it works and how the end users will enter the website and sign up and login into different panels and operate with different functionalities to accomplish management up to the mark.

Defect/Incident reports and summaries:

Our entire project is operating smoothly, however there are a few warnings in the functionalities that were caused by human mistakes and are only causing a few warningmessages.

Test logs and turnover reports:

Test logs are test records which have been recorded on the above testing screenshots andthe overall turnover report ultimately results in all the functionalities in each panel.

10. STAFFING AND TRAINING NEEDS

Staff Needs:

The following roles will be part of the testing team for the hotel management system software:

10.1. Test Lead
10.2. Test Analysts
10.3. Testers
10.4. Test Manager

The test manager will be in charge of managing the testing team and supervising the testing procedure. The management of the test suites and test cases will fall under the purview of the test lead. The test analysts are in charge of going over the specifications and writing test cases. Executing the test cases andreporting flaws will be the responsibility of the testers.

Training Program

The following training program will be implemented to make sure the testing team is properly prepared for the software testing for hotel management systems:

1. All team members received on-site instruction in the hotel management system software.
2. Creating test cases, test suites, and reporting defects are all topics covered inclassroom training.
3. Instruction using the actual testing tools.
4. Senior team members providing ongoing coaching and mentoring.

Monitoring Progress

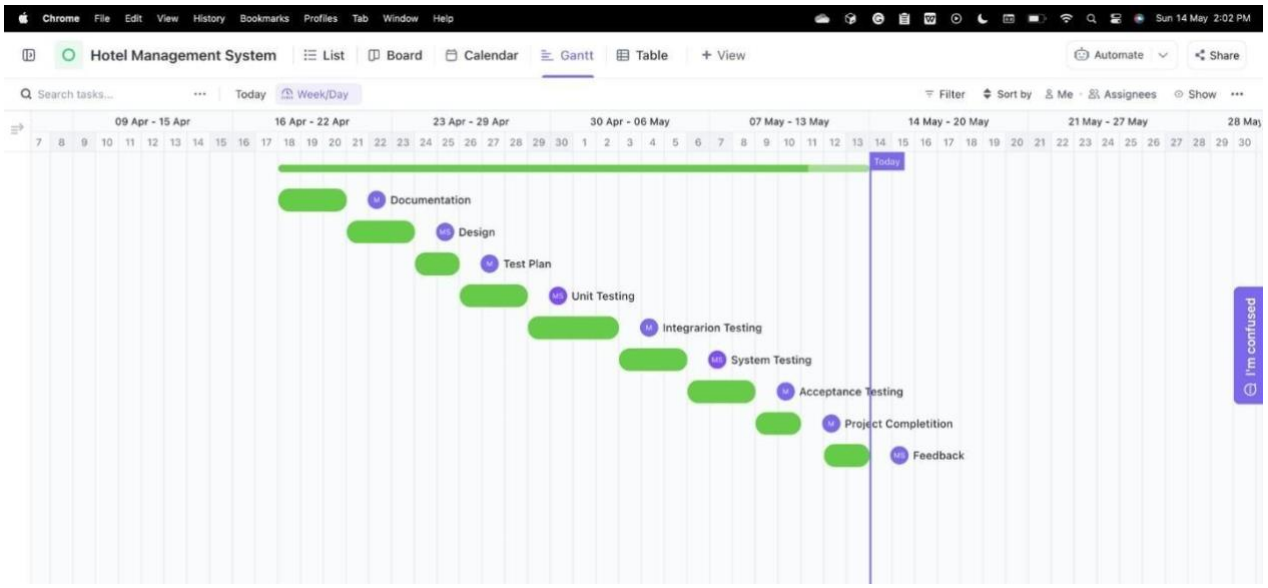
The testing team's progress will be tracked by the test manager, who will also make sure that any necessary training is provided. The test manager will receive regular status updates from the testing team, and as necessary, changes will be made to the staffing and training schedule.

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

Time management is essential for developing and testing projects. A project must be completedon schedule. To complete a task, the project, schedule includes time for the upcoming testing activities. The project plan timetable specifies the precise hours and dates for each task.



13. PLANNING RISKS AND CONTINGENCIES

One must prepare and consider project planning risk and contingencies before beginning any project. The goal of risk management is to recognize possible issues before they arise or, in the case of opportunities, to attempt to take advantage of them in order to make them happen. Project contingency is simply the method through which a project takes into account any risk in order to account for uncertainty in that estimation. Therefore, preparation and contingency are quite important for a project. Some preparation and contingencies in our hotel management system include the following:

1. Possibly a network failure, computer hardware failure, or data destruction. Because of that, data backup storage should be kept up to date. We need some backup computer hardware in case some of the current hardware fails.
2. Lack of proper planning. Planning is crucial for this project because it is entirely web-based. For this project, we first created a structural design. The project was thenbroken into smaller parts. Since there are four panels, we broke them into smaller panels to make them easier to work on. For each panel, we also create a timeline and time limit, which we follow while attempting to stay withinbudget.
3. Testing was delayed because of fresh problems. There is a good risk that new faults will be found during testing and that they'll complicate the situation and require some time to fix. Because of ambiguous document specifications, some errors may be discovered during checking out.

14. APROVALS

Project Sponsor	
Development Management	
EDI Project Manager	
RS Test Manager	
RS Development Team Manager	