

American International University-Bangladesh (AIUB)

Department of Computer Science Faculty of Science & Technology (FST) Fall 22 23

Section: C
Software Quality Assurance and Testing

Pick Up

A Report submitted By

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Checked By Industry Personnel

Date:

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Designation:	
Company:	
Sign:	

Software Test Plan for Pick Up

Version 1.0 approved Prepared by MD ROKON ISLAM EMON **EASINUL ABEDIN SAYEM** MD. BAKHTIAR AZIM NILOY H.M. JAYED CHOWDHURY RABBY

American International University-Bangladesh (AIUB) 10.12.2022

Checked By Industry Personnel
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Table of Contents

Re	vision History	1
1.	TEST PLAN IDENTIFIER: RS-MTP01.3	2
2.	REFERENCES	2
3.	INTRODUCTION	
	Background to the Problem	2
	Solution to the Problem	3
4.	REQUEIREMNT SPECIFICATION	3
	4.1 System Features	
	4.2 System Quality Attributes	
	4.3 System Interface	6
	4.4 Project Requirements	
5.	FEATURES NOT TO BE TESTED	.11
6.	TESTING APPROACH	.11
	6.1 Testing Levels	
	6.2 Test Tools	
	6.3 Meetings	. 14
7.	TEST CASES/TEST ITEMS	.15
8.	ITEM PASS/FAIL CRITERIA	.26
9.	TEST DELIVERABLES	.27
10	STAFFING AND TRAINING NEEDS	
	RESPONSIBILITIES	
	TESTING SCHEDULE	
	PLANNING RISKS AND CONTINGENCIES	
14	APPROVALS	32

REVISION HISTORY

Revision	Date	Updated By	Updated Comment
0.1	05-12-22	Rokon	1st Draft
0.2	05-12-22	Niloy	2nd Draft
0.3	06-12-22	Sayem	3rd Draft
0.4	07-12-22	Rabby	4th Draft
0.5	08-12-22	Rokon	5th Draft

0.6	09-12-22	Rabby	6th Draft
0.7	09-08-22	Niloy	7th Draft
0.8	18-08-22	Sayem	8th Draft

1. TEST PLAN IDENTIFIER: RS-MTP01.3

2. REFERENCES

- Software Requirement Engineering Document
- Software Quality And Testing Course PowerPoint Slides
- Selenium tool
- Postman Software

3. INTRODUCTION

3.1 Background to the Program

Many popular e-commerce websites are available. But the problem is when customers want a product that is not available in any e-commerce platform. Customers are not able to purchase those products sitting at home. Our system has two individual ways to purchase the product. One is as, like the other, sellers add their products customers can choose and buy. Another one is if customers can't find their expected product. They can purchase through the service provider. According to the product location, customers can send a request order to the service provider with details of the product. And Customers can get here products through the service provider. We are doing this project for helping people and many of us want products from a place where we have no familiar person to help. There is a high risk of an unknown person that they can deceive. So, through this system we can make it possible with enough credibility for the people.

3.2 Solution to the Program

This project is one that allows people to buy and sell physical goods, services, and digital products over the internet rather than at a brick-and-mortar location. Through this project, clients sell products and provide customer service properly and customers are able to buy their products. Using this website, user can pay their payments or they are able to pay cash on delivery (COD). And the purpose of this project is to maintain a business platform so peoples get their needed products by using this website in a few moments. And also, by using this project, people can easily interact with service providers and get products as soon as possible. By using this project, customer can easily do their shopping, clients can easily sell their products, and the company can earn money.

4. REQUIREMENT SPECIFICATION

4.1 System Features

Requirement ID	Requirement Description	Dependencies	Originator
FR-01	Two types of users: customer and client; store their credentials in the database.	Users need to have valid and unique email address, strong password as well as other valid information.	Junior Developer
FR-02	Authenticate validly of the users of the	Must be a registered user.	Junior Developer

	system and log them in.		
FR-03	Users can edit their profile.	Must be a registered user.	Junior Developer
FR-04	Products can be added, edited, and deleted by the client.	Must be a valid products.	Junior Developer
FR-05	Clients are able to track which customers have purchased their products.	Must be a valid client.	Senior Developer
FR-06	Customers can see all the products that have been added to the cart.	Must be a valid customer.	Junior Developer
FR-07	Customers can purchase products.	Customers must have valid payment details.	Senior Developer
FR-08	Customers can see which products were bought from which client.	Database	Senior Developer
FR-09	Customers can review the	Must have bought the product they	Junior Developer

	products on their experience.	are reviewing.	
FR-10	Admin can create client and customer.	Must be an authenticated admin.	Junior Developer
FR-11	Admin can see the statistical data of users, purchases	Must be an authenticated admin.	Senior Developer
FR-12	Admins can delete posts; block customers and clients.	Must be an authenticated admin.	Senior Developer

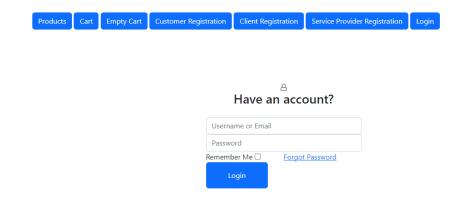
4.2 System Quality Attributes

Requirement ID	Date	Requirement Description	Dependenci es	Originator
NF-0.R1	05-12-22	Security	Program	Software
IVI -O.IVI	03-12-22	Security	Trogram	Engineer
NF-0.R2	06-12-22	Usability	Drogram	Junior
INF-U.KZ	00-12-22	Usability	Program	Developer
NF-0.R3	07-12-22	Maintainabilit	Drogram	Senior
INF-U.KS	07-12-22	У	Program	Developer
NF-0.R4	08-12-22	Scalability	Drogram	Software
NF-U.K4	00-12-22	Scalability	Program	Engineer
NF-0.R5	09-12-22	Performance	Drogram	Senior
מאיט-זאו	09-12-22	Periorifiance	Program	Developer

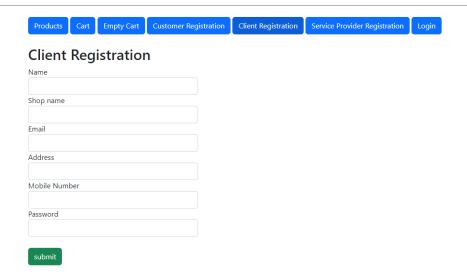
NE O DG	10 12 22	Poliobility	Drogram	Senior
NF-0.R6	10-12-22	Reliability	Program	Developer

4.3 System Interface

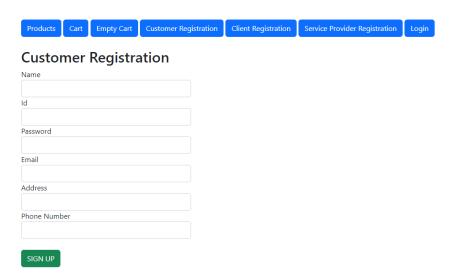
4.3.1 Login Page



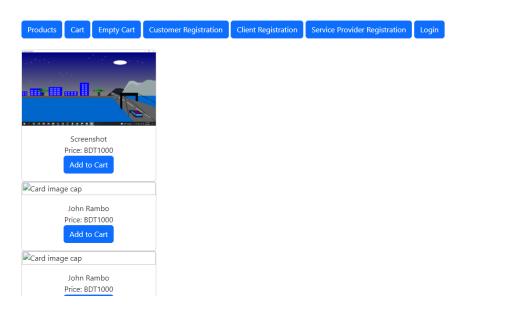
4.3.2 Registration Form of Client



4.3.3 Registration Form of Customer



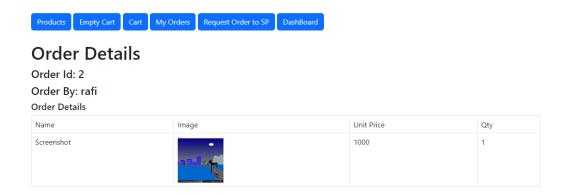
4.3.4 Product List



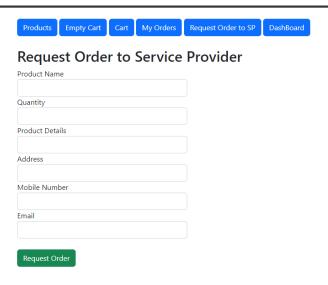
4.3.5 My Orders



4.3.6 Order Details



4.3.7 Request Order to Service Provider



4.4 Project Budgets

Effort Estimation:

Our project is to develop a website named "Pick Up".

Development Time = 1 Months

Required number of peoples = 4

Budget Estimation:

Duration in weeks = 4 weeks

Office days = 5 days

Working hours = 9 Hours

So Per week working hours is = (5*9) hours

= 45 hours

So Total Working hours is = (45*4) hours

= 180 hours.

Employee's salary per hour is = 1200 Taka

Total Salary = (1200*180) Taka = 216,000 Taka

Total cost:

Expense	Amount
Salary for 4 employees	216,000 Taka
1 month office rent	15000
Electricity and other costs	4000 Taka
1 month Maintenance cost	10000
Travel Cost	5000
Total Cost	250,000 Taka

15% of the total cost(profit)	37,500 Taka
Now total budget is	287,500 Taka

5. FEATURES NOT TO BE TESTED

- Edit Admin Profile (Personal Information)
- Statistical data of users, purchases
- Networking Testing
- Language (Default language is English

6. TESTING APPROACH

6.1 Testing Levels

Unit Testing: This level of testing is done by the developers to ensure that the functionality developed by the developers is working correctly according to the expectation. At this level, the lead developer approves the module, integrates it with the system level, and passes it to the SQA team. In this process, it only finds the defects for this particular unit and needs to work around them to make the unit functional and meet the expectation.

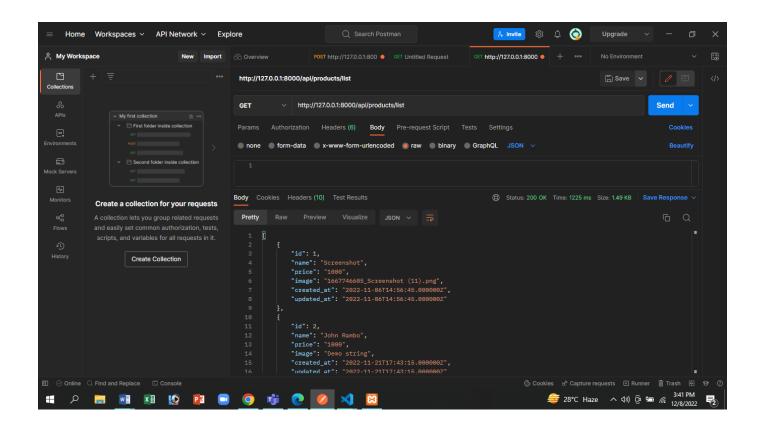
System/ Integration Testing: At this level, all the modules are integrated and a system-level test will be conducted by the test manager and SQA engineers to find out the existing bugs which were not able to detect on unit testing. This level of testing is time-consuming and expensive. By this level of testing, most of the major defects have been detected, and need to work around the application to remove the bug and make the system properly functional.

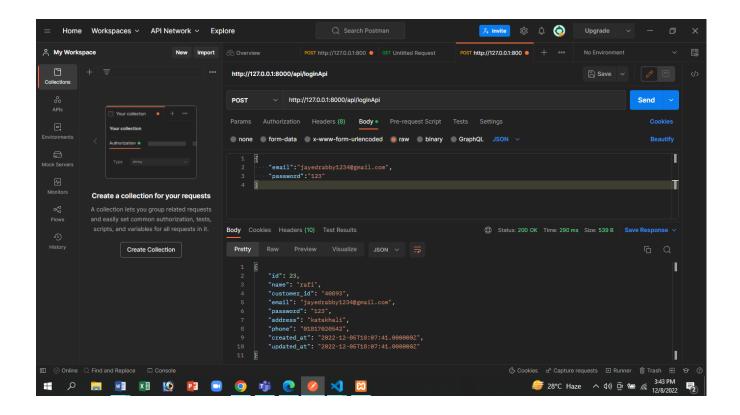
Acceptance Testing: This level of testing is done by some of the potential users, business personnel of the department, and the project lead to

ensure that the application meets the stockholders' expectations. This testing is conducted only to find defects rather than ensure that the application meets the acceptance criteria. After the System/Integration test is completed, the acceptance test will run in parallel with the existing creating user manuals and instructions processes for one month.

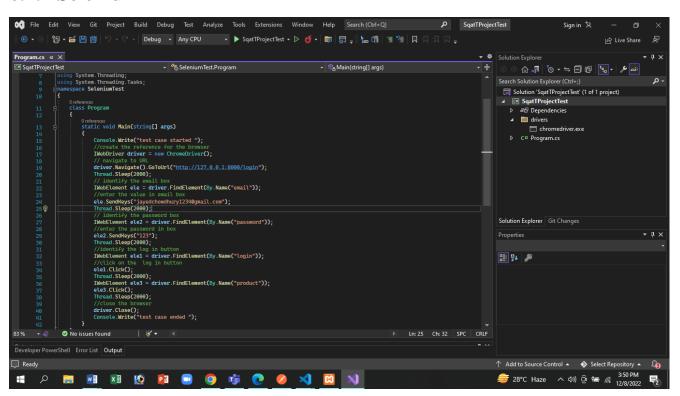
6.2 Test Tool

6.2.1 Postman





6.2.1 Selenium



6.3 Meetings

Meeting Date	Meeting Criteria	Object
01.12.2022	Checking of system features and quality attributes	 Check the Functional Nonfunctional requirements System's working process
05.12.2022	Error & Bug Solving	 After detecting bugs list them down Solve the bugs Preparation for safety
10.12.2022	Conclusive	 Check the listed documentation Recheck the requirements Run the full system

7. TEST CASES/TEST ITEMS

Test Case 1: Client Registration

Project Name: Pick Up	Test Designed by: Easinul Abedin Sayem
Test Case ID: Registration Client_01	Test Designed date: 08-12-2022
Test Priority (Low, Medium, High): High	Test Executed by: Easinul Abedin Sayem
Module Name: Registration	Test Execution date: 08-12-2022
Test Title: Verifying registration client module	
Description: Test the Pick Up Registration Client website registration session	

Precondition (If any): 1. Need to use a username, shopname, email, address, phone number, password (Doesn't present in the system Database)

Test Steps	Test Data	Expected	Actual Results	Status (Pass/Fail)
		Results		(1 2.22)
1.Go to the site registration	Uname:Easnul	Successful Registration	Pass registration	Pass
page.	shopname:SK		for valid email	
	Email: abc@gmail.com			
2.Fill up the				
information.	Address: Dhaka			

3. Click on the			
"Sign Up"			
button.	PhoneNumber:		
	Password:12345		
	<u>I</u>		I.

Test Case 2: Customer Registration

Post Condition: User will go back to the login page.

Project Name: Pick Up	Test Designed by: Easinul Abedin Sayem
Test Case ID: Registration Customer_02	Test Designed date: 08-12-2022
Test Priority (Low, Medium, High): High	Test Executed by: Easinul Abedin Sayem
Module Name: Registration Customer	Test Execution date: 08-12-2022
Test Title: Verifying registration Customer module	
Description: Test the Pick Up Registration Customer website registration session	

Precondition (If any): 1 Need to use a username, id,password,email,address,phone number (Doesn't present in the system Database)

Test Steps	Test Data	Expecte d Results	Actual Result s	Status (Pass/Fail)
3.Go to the site registration page 4.Fill up the information	Uname:eufi Id:123 Password:123 4 Email: abc@ gmail.com	Successfu I Registrati on	Pass registrati on for valid email	Pass
3. Click on the "Sign Up" button	Address: Dhak a Phone: 01856894644			

Post Condition: User will go back to the login page.

Test Case 3: Login

Project Name: Pick Up	Test Designed by: Easinul Abedin Sayem
Test Case ID: Login_01	Test Designed date: 08-12-2022
Test Priority (Low, Medium, High): High	Test Executed by: Easinul Abedin Sayem
Module Name: Login	Test Execution date: 08-12-2022
Test Title: Verifying login module	
Description: Test the Pick Up Customer website login session	

Precondition (If any): 1. User need to register into the system

Test	Test Data	Expected	Actual	Status
Steps		Results	Results	(Pass/Fail)
1. Go to the site login page 2. Fill up the information 3. Click on the "login" button.	Uname:Easnul Pass: 123456	Successful Login	Successful	Pass

Post Condition: User will go into the Home page.

Test Case 4: Logout

Project Name: Pick Up	Test Designed by: Easinul Abedin Sayem
Test Case ID: Logout_01	Test Designed date: 08-12-2022
Test Priority (Low, Medium, High): High	Test Executed by: Easinul Abedin Sayem
Module Name: Logout	Test Execution date: 08-12-2022
Test Title: Verifying logout module	
Description: Test the Pick Up website logout session.	

Precondition (If any): 1. User need to login into the system

Test	Test	Expected	Actual	Status
Steps	Data	Results	Results	(Pass/Fail)
1. Go to the site's Dashboard page. 2. Click on the "logout" button.	N/A	Successful Logout	Successful	Pass

Post Condition: User will go back to the login page.

Test Case 5: Add Product

Project Name: Pick Up	Test Designed by: Easinul Abedin Sayem
Test Case ID: Add Product _01	Test Designed date: 08-12-2022
Test Priority (Low, Medium, High): Medium	Test Executed by: Easinul Abedin Sayem
Module Name: Add Product	Test Execution date: 08-12-2022
Test Title: Verifying Add Product module	
Description: Test the Pick Up website Add Product session	

Precondition (If any): 1. User need to login as a client into the system.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
	Product Name:			
1.Go to the	Chips	Successful	Successful	Pass
site add		Update		
product	Price:100	Profile		
page				
	Image:xyz.jpg			
2.Input				
product				
name as well				
as product				
price and				
picture of A				
product				

3.Press on "Upload" button				
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Post Condition: User will go into the product list page.

Test Case 6: Add Product to cart

Project Name: Pick Up	Test Designed by: Easinul Abedin Sayem
Test Case ID: Add Product to Cart _01	Test Designed date: 08-12-2022
Test Priority (Low, Medium, High): Medium	Test Executed by: Easinul Abedin Sayem
Module Name: Add Product to Cart	Test Execution date: 08-12-2022
Test Title: Verifying Add Product to Cart module	
Description: Test the Pick Up website Add Product to Cart session	

Precondition (If any): 1. User need to login into the system

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site list	N/A	Successful	Successful	Pass

of product page	Add to cart	
2.Click on the "add to cart" button		

Post Condition: User will go into the Home page.

Test Case 7: Product Buy

Project Name: Pick Up	Test Designed by: Easinul Abedin Sayem
Test Case ID: Product Buy _01	Test Designed date: 08-12-2022
Test Priority (Low, Medium, High): Medium	Test Executed by: Easinul Abedin Sayem
Module Name: Product Buy	Test Execution date: 08-12-2022
Test Title: Verifying Product Buy module	
Description: Test the Pick Up website Product Buy session	

Precondition (If any): 1. User need to login and add to cart into the system.

Test	Test	Expected	Actual	Status
Steps	Data	Results	Results	(Pass/Fail)
1.Go to the site cart page 2.Click on the "checkout" button	N/A	Successful product buy	Successful	Pass

Post Condition: User will go into the page and show the confirm message

Test Case 8: Delete Product

Project Name: Pick Up	Test Designed by: Easinul Abedin Sayem
Test Case ID: Delete Product _01	Test Designed date: 08-12-2022
Test Priority (Low, Medium, High): Medium	Test Executed by: Easinul Abedin Sayem
Module Name: Delete Product	Test Execution date: 08-12-2022
Test Title: Verifying Delete Product module	

Description: Test the Pick Up website Delete Product session

Precondition (If any): 1. User need to login as a client into the system.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to the site products list page 2.Click on the "delete" button	N/A	Successful Delete product	Successful	Pass

Post Condition: User will stay in products list page.

Test Case 9: View Product

Project Name: Pick Up	Test Designed by: Easinul Abedin Sayem
Test Case ID: View Product _01	Test Designed date: 08-12-2022
Test Priority (Low, Medium, High): Medium	Test Executed by: Easinul Abedin Sayem

Module Name: View Product	Test Execution date: 08-12-2022
Test Title: Verifying View Product module	
Description: Test the Pick Up website View Product session	

Precondition (If any):N/A

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to the site	N/A	Successful View product	Successful	Pass
2.Go to the product list				

Post Condition: User stay in products list page.

8. ITEM PASS/FAIL CRITERIA

- With valid information, the registration should be done.
- The user/customers profile, client profile & service provider profile should be created.
- A valid user name and password should be given.
- Users/customers should be add to cart their products and remove their products.
- Clients add products and delete products which is properly done in the system.
- There is no error when a customer order products and confirm products.
- Service Provider accept the request from the customer which functionality smoothly works.
- The test cases should be properly documented.
- All reports should be maintained.
- All problem documents should be viewed by the valid user account.
- Item pass/fail criteria depends on Test Cases. 100% defect free system is not possible.
- If 98% or above 98% test cases are pass then the system is passed.
- If below 98% test cases are passed then the system is failed.

Here we have implemented a total of 9 test cases. At first, when applied the test case to the system, 60% of the test cases were passed successfully and 40% failed. The test cases were failing due to some logical errors and query related issues on the database. When the test case was applied after solving query related problem, all the test cases passed successfully.

9. TEST DELIVERABLES

- Test Documentation
- Test Plan
- Test Strategy
- Test Scenario
- Test Designs
- Test Cases
- Test data
- Test Results
- Errors
- Bug report
- Test Summary Report
- Test Status report
- Test Scripts

10. STAFFING AND TRAINING NEEDS

Depending on the project, different methods will be used for staffing and training. If this section is a component of a Master Test Plan, it should specify the stages of the project lifecycle at which various staffing levels and skill sets are required. Where one full time tester assigned for the project for the system/integration and acceptance testing phases of the project. If this is an iteration test plan, the primary attention should be on the potential training locations and activities. The EDI interface's fundamental functions will need to be taught to the developers and testers. The project manager assumed that for the

project needs the developers and testers are hire and properly give training to done the project.

The test team frequently needs the assistance and expertise of other team members who are not formally a part of the test team. System administrators, database administrators, and developers must be scheduled appropriately in the plan in order to support the testing activities.

11. RESPONSIBILITIES

Name	Role	Responsibility
MD Rokon Isla	m Emon Project Manager	1. Ensure the completion of the Project in due time. 2. Conduct required interactions with customers. 3. Manage the whole project and team. 4. Match the completed project with the requirements.

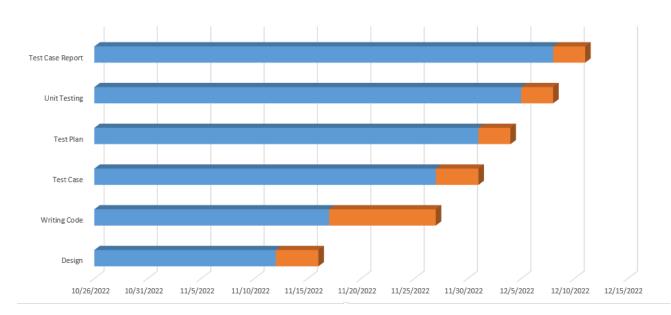
H.M. Jayed Chowdhury Rabby	Senior Developer	1. Research, design, implement and manage software programs.
		 Write and implement efficient code. Deploy software tools, processes, and metrics.
MD Bakhtiar azim	Lead Quality Assurance Engineer	1. Create test plans, test forms, test cases, and test information. 2. Develop test cases and prioritize testing activities. 3. Prepare all reports related to program testing carried out.

Easinul Abedin Sayem	Lead Quality Control Engineer	 Characterize the testing
		activities of test
		planning.
		2. Check if all
		the tools and
		fundamental
		assets are
		available to
		execute the
		test cases.
		3. Execute all
		the test cases
		and report
		defects.

12. Testing Schedule

Task Name	Duration	Responsible
Design	4	Project Manager & Senior Developer
Writing Code	10	Senior Developer
Test Plan	3	Lead Quality Assurance Engineer & Project Manager
Unit testing	3	Senior Developer, Junior Developer

Test Case		Lead Quality Control Engineer
Test Case Report	3	Test Engineer



13. PLANNING RISKS AND CONTINGENCIES

Risk	Probability	Impact	Mitigation
Error in function execution	Medium	Medium	Test the web app frequently and maintain daily backup.
Error due to invalid input	High	Low	Train user to use right data type in each input field.

Loss of encrypted data(password)	Medium	High	Maintain security check and backup
Database query execution error	Low	High	Recheck the queries and logics.

14. APPROVALS

Position	Assigned
Project Manager	Development Plan
Development Management	Integration test
Design Manager	Interface
Test Team Lead	Test Plan
Test Engineer	Functionality test
QA Manager	Review Test Case
Client	Acceptance Testing