MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

GOVERNMENT POLYTECHNIC KARAD

MICROPROJECT REPORT

PROGRAM: DIPLOMA IN COMPUTER ENGINEERING

COURSE: SOFTWARE TESTING (22518)

CLASS:CO5I

TITLE: Test Plan, Test Cases and Defect Report On "Medical Store Management System"

Roll no	Enrollment No	Seat No	Student Name
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Guided By

Prof. Ms. S. V. JADHAV

Department of Computer Engineering

Academic year 2023-24

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

Certificate of Completion

Of Microproject Assessment at the end of Semester

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This is to certify that has successfully completed **Test Plan, Test Cases and Defect Report on "Medical Store Management System"** micro-project of SOFTWARE TESTING (22518**)** in Fifth semester of Diploma in Computer Engineering from Government Polytechnic Karad Institute with Institute code (0010).

Prof. Ms. S. V. Jadhav	Prof. Mrs. S. B. Patil	Prof. Mr. R. K. Patil
Subject Teacher	Head of Department	Head of Institute

Seal of the Institute

ACKNOWLEGMENT

We take this opportunity to thank all those who have directly and indirectly inspired, directed and assisted us towards successfully completion of this project report.
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We express our sincere thanks to Prof. Ms. S. V. Jadhav Lecturer in Computer Engineering. Government Polytechnic, Karad for encouragement throughout the project report and guideline in designing and working out this project. We are also grateful to team of **Test Plan, Test Cases and Defect Report on "Medical Store Management System"**.
Place: Government Polytechnic, Karad.

Your sincerely,
2237- Shamal Sambhaji Jadhav
2239- Sanika Kantilal Patil
2241- Sanika Rajendra Mhaskar

TEST PLAN, TEST CASES AND DEFECT REPORT ON MEDICAL STORE MANAGEMENT SYSTEM.

1.0 RATIONALE:

In this project, our goal is to formulate Test Cases for the Medical Store Management System. This system facilitates the Administrator in efficiently handling product details and inventory. Our focus will then shift towards executing these test cases on the Medical Store Management System. Through this process, our aim is to identify any bugs, errors, or defects present in the project. Employing various testing methodologies, we intend to ensure the accuracy and reliability of the software product. Our primary objective revolves around validating if the software application aligns with the specified requirements, ultimately affirming its functionality.

2.0 AIM / BENEFITS OF THIS MICROPROJECT:

- The purpose of Medical Store Management System is to automate the existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy manipulation.
- The main objective of testing the software product is to check whether the software application is working as per requirements or not.

3.0 COURSE OUTCOMES:

a. Apply various software testing methods.

b. Prepare test cases for different types and level of testing.

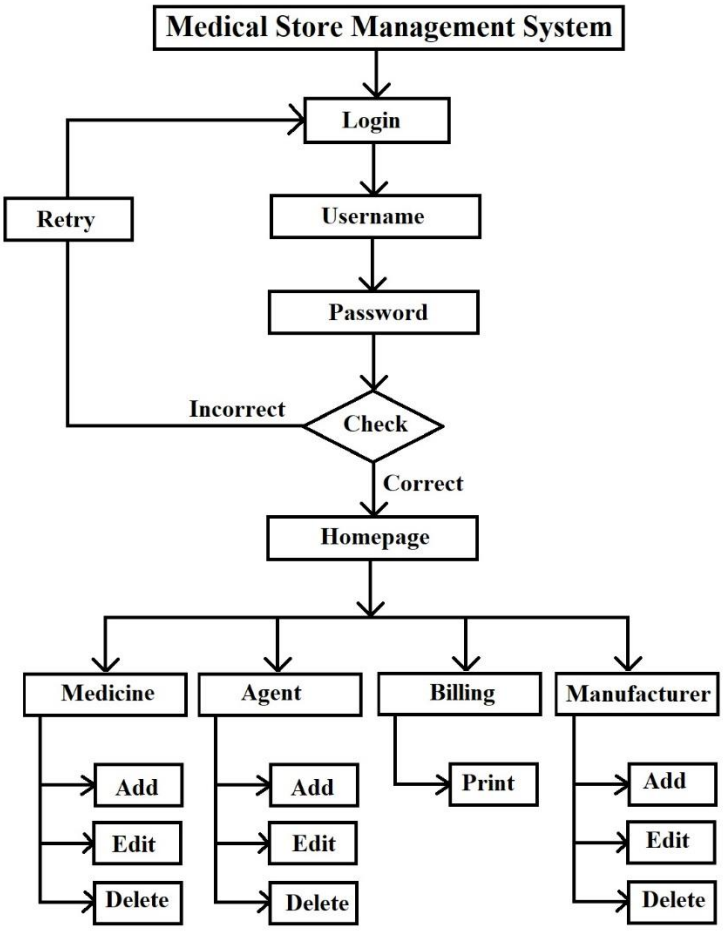
c. Prepare test plan for an application.

d. Identify bugs to create defect report of given application.

4.0 LITERATURE REVIEW:

The project name is Medical Store Management System. We have collected information about our project by taking reference from books and various websites. Our project is GUI-based that's why first we have created interface of the project. Then we developed application and then perform the testing on various module.

5.0 ARCHITECTURE:



6.0 ACTUAL RESOURCES USED:

Sr. No	Name Of Resources	Specification
1.	Computer System	**Device Name:** DESKTOP – SUS0KGR **Processor:** 11th Gen Intel(R) Core (TM) i5-1135G7 @ 2.40GHz 2.42 GHz System. **Type:** 64-bit operating system, x64based processor. **Version**:21HP
2.	Eclipse	Eclipse-jee-oxygen-0.2
3.	Software: jdk	jdk1.8
4.	Database	Oracle
5.	Office S/W Package	Microsoft word

TEST PLAN FOR MEDICAL STORE MANAGEMENT SYSTEM :

1. Test Plan Identifier: TC_1

2. Introduction:

Purpose of the test plan is Brief overview of the medical store management system. The purpose of testing this project is to check the correct operation of its functionality, like check the add update delete back operations etc.

3. Test Items:

Working with Medical Store Management System. Test the following pages:

1. Login form. (Login process).
2. Registration form.
3. Forget password form.
4. Home module.
5. Medicine module.
6. Agent module
7. Manufacturer module.
8. Billing module.

4. Scope:

4.1 Features to be tested: -

1. Interface
2. Functionality of options like add, edit, delete, back, clear etc. options
3. Bill generation process.
4. All options on interface.
5. Data storing functionality like Databases.

4.2 Features not to be tested: -

1. Hardware Requirements
2. Privacy and Security

4.3 Quality Objective:

Quality objectives for a medical store management system should focus on ensuring efficient and accurate operations while maintaining medicines, their manufacturing and also agent and billing functionality.

4. Test Methodology:

4.1 Item Pass/Fail Criteria: -

All test cases with high priority are closed with the result - pass. The test coverage is checked and sufficient, where the criterion of sufficiency is not less than 99% of the coverage of requirements by tests. The test report was compiled and approved by the team lead and customer.

4.2 Suspension Criteria and Resumption Requirements: -

If the team members report that there are 40% of test cases failed, suspend testing until the development team fixes all the failed cases.

4.3 Test Completeness: -

1. It specifies the criteria that denote a successful completion of a test phase.
2. Run rate is mandatory to be 100% unless a clear reason is given.
3. Pass rate is 80%.

5. Test Deliverables:

1. Test cases and test data
2. Test plan
3. Test documentation
4. Test summary report
5. Test scenario.

6. Test Tasks:

1. Writing a test plan
2. Writing test cases
3. Development of criteria for the success of testing
4. Conducting the testing and evaluation of the results
5. Creating test reports.

7. Environmental Needs:

1. Computer System
2. Windows OS
3. Eclipse-jee-oxygen-0.2
4. Microsoft word

8. Staffing and Training Needs:

To perform the tasks, you need to have the following knowledge and skills:

1. Knowledge and practical application of the Eclipse-jee-oxygen-0.2.
2. Knowledge and ability to apply in practice the basic techniques of test design
3. Knowledge of various types of testing including functional and non-functional.

9. Schedule:

The deadline for completion of all works and delivery of the project is.

10.Risks and Contingencies Possible risks during testing:

1. Insufficient human resources for testing the application in deadlines.
2. Changing the requirements for the product

11.Approvals:

Team Lead Test engineer 1
Test engineer 2.

Test Case-

Test cases are a set of conditions or scenarios that are designed to verify the functionality and performance of a software application or system. They are written as a series of steps and inputs to ensure that the software operates as expected and meets its specified requirements. Test cases help identify defects, errors, and issues in the software, allowing developers to address and fix them. Test cases can cover various aspects of software testing, including functional, non-functional, and user acceptance testing.

PARAMETERS OF TEST CASES:

1. Test Case ID:
A unique identifier for each test case for tracking and reference.

2.Description:
A detailed explanation of the test case's objective and what it is intended to test.

3.Preconditions:
The specific conditions that must be met before the test case can be executed, such as the initial system state.

4.Test Steps:
A step-by-step list of actions to be performed during the test, including the expected outcomes

5.Test Data:
Input data required to execute the test, including any specific values or scenarios.

6.Expected Results:
Clear, unambiguous descriptions of the expected outcomes or system behaviour.

7.Actual Results:
A field to record the actual outcomes when the test is executed

8.Pass/Fail Status:
Indicate whether the test case passed or failed after execution.

7.0 OUTPUT OF MICROPROJECT:

Project Name	Medical Store Management System.
Module Name	Registration Module.
Created By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Created Date	13/03/2023
Executed By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Executed Date	20/09/2023

Test Case ID	Test Scenario	Precondition	Steps to be executed	Test data	Expected Result	Actual Result	Pass/ Fail
T1	Validate functionality of Registration Form. (Invalid credential).	User Should on Registration Form.	1.Enter username. 2.Enter Password. 3.Click on Register Button	Username: sanika Password: Sanu23	Password length Should be not be < 8. (Registration Unsuccessful)	Password length Should be not be < 8. (Registration Unsuccessful)	Pass.
T2	Validate functionality of Registration Form. (Invalid Credential)	User Should on Registration Form.	1.Enter username. 2.Enter Password. 3.Click on Register Button	Username: sanu Password: Sanu@123.	Registration Unsuccessful	'Username Should be at least 8 character long' (Registration Unsuccessful).	Pass.
T3	Validate functionality of Registration Form. (Valid Credential)	User Should on Registration Form.	1.Enter username. 2.Enter Password. 3.Click on Register Button	Username: sanika Password: Cogpk@123.	Registration Successfully. (Account Created).	Registration Successfully. (Account Created).	Pass.
T4	Check the functionality of reset button	User Should on Registration Form Text fields are should not be empty	1.Click on reset button.	Username: sanika Password: Cogpk@123.	All input fields should be empty.	All input fields are empty.	Pass

Project Name	Medical Store Management System.
Module Name	Forget Password Module
Created By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Created Date	15/03/2023
Executed By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Executed Date	22/09/2023

Test Case ID	Test Scenario	Precondition	Steps to be executed	Test data	Expected Result	Actual Result	Pass/ Fail
T1	Check the functionality of forget password Form. (Invalid data)	User should be on forget password Form.	1.Enter username. 2.Enter new password. 3.Click on save button.	Username: sanika New password: Abc123	Password should not be updated.	Password length Should be not be < 8. (Password is not updated).	Pass.
T2	Check the functionality of forget password Form (Valid data).	User should be on forget password Form.	1.Enter username. 2.Enter new password. 3.Click on forget password button.	Username: sanika New password: Abc@123	Password should be updated. (User should be redirected on login form)	Password is successfully updated. (User is redirected on login form)	Pass.
T3	Check the functionality of back button.	User should be on forget password Form	Click on back button.	-	User should be redirected to Login form.	User is redirected to login form.	Pass

Project Name	Medical Store Management System.
Module Name	Login Module
Created By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Created Date	17/03/2023
Executed By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Executed Date	24/09/2023

Test Case ID	Test Scenario	Precondition	Steps to be executed	Test data	Expected Result	Actual Result	Pass/ Fail
T1	Validate functionality of Login Form. By entering Invalid username and Invalid password	User should be on login Form.	1.Enter Username. 2.Enter password. 3.Click on login Button.	Username:1234 Password: sanika41	Login unsuccessful	Login unsuccessful 'Invalid username and Password'	Pass
T2	Validate functionality of Login Form by entering invalid username and valid password	User should be on login Form.	1.Enter username. 2.Enter password. 3.Click on login button.	Username: 1234 Password: 2239	Login unsuccessful	Login unsuccessful 'Invalid username'	Pass
T3	Validate functionality of Login Form. By entering Valid username and Invalid password	User should be on login Form.	1.Enter Username. 2.Enter password. 3.Click on login Button.	Username:1234 Password: sanika41	Login unsuccessful	Login unsuccessful 'Invalid Password'	Pass

T4	Check the functionality of forget password button.	User should be on login Form.	1.click on forget password button.	-	User should be redirected to forget password form.	User redirected to forget password form.	Pass.
T5	Check the password view functionality so the user can see the entered password.	Login Form should open	1.Click on show password checkbox	Username: sanika Password :2238	Password should be displayed.	password is displayed	Pass
T6	Check the password view functionality so the user can hide the entered password.	Login Form should open	1.Click on hide password checkbox	Username: sanika Password:2238	Password should be hidden	Password is hidden.	Pass
T7	Validate functionality of Login Form by entering valid username and valid password	User should be on login Form.	1.Enter username. 2.Enter password. 3.Click on login button.	Username: sanika Password: 2238	Login successful (Redirected to Home window)	Login successful (Redirected to home window)	Pass

Project Name	Medical Store Management System.
Module Name	Homepage Module
Created By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Created Date	17/03/2023
Executed By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Executed Date	24/09/2023

Test Case ID	Test Scenario	Precondition	Steps to be executed	Test data	Expected Result	Actual Result	Pass/ Fail
T1	Check the functionality of Medicine button.	User should be on home window.	1.Click on Medicine button.	-	User should be redirected to medicine form.	User is redirected to medicine form.	Pass
T2	Check the functionality of Agent button.	User should be on home window	1.Click on Agent button.	-	User should be redirected to Agent form.	User is redirected to Agent form.	Pass
T3	Check the functionality of Manufacturer button.	User should be on home window.	1. Click on Manufacturer button.	-	User should be redirected to Manufacturer form.	User is redirected to Manufacturer form.	Pass
T4	Check the functionality of Billing button.	User should be on home window.	1.Click on Billing button.	-	User should be redirected to Billing form.	User is redirected to Billing form.	Pass

T5	Check the functionality of Logout button.	User should be on home window	1.Click on Logout button.	-	User should be redirected to Login form.	User is redirected to Login form.	Pass

Project Name	Medical Store Management System.
Module Name	Medicine Module
Created By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Created Date	19/03/2023
Executed By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Executed Date	26/09/2023

Test Case ID	Test Scenario	Precondition	Steps to be executed	Test data	Expected Result	Actual Result	Pass/ Fail
T1	Check functionality of add button by entering valid input data.	User should be on medicine Form.	1. Fill all input fields by entering valid data. 2. Click on add button.	Medid: 1 Medname: Omee Medprice: 3 Medqty: 150 Pkgdate:3 Oct,2023 Expdate: 3 Oct,2024 Company: laxmi	Medicine data should be inserted in database and displayed in medicine list.	Medicine data is inserted in database and displayed in medicine list.	Pass
T2	Check functionality of add button by entering invalid input data.	User should be on medicine Form.	1. Enter ID. 2. Fill all input fields 2. Click on add button.	Medid: a Medname: 66a Medprice: 77t Medqty: 100 Pkgdate:2 Nov,2023 Expdate: 3 Oct,2024 Company: laxmi	Medicine data should not be inserted.	Medicine data is not inserted.	Pass
T3	Check functionality of add button by entering existing data.	User should be on medicine Form.	1. Enter existing ID. 2. Fill all input fields With valid data. 2. Click on add button.	Medid: 1 Medname: abc Medprice: 77 Medqty: 100 Pkgdate:2 Nov,2023 Expdate: 3 Oct,2024 Company: laxmi	Medicine data should not be inserted.	Medicine data is not inserted.	Pass
T4	Check functionality of Update button.	User should be on medicine Form.	1. Click on row of medicine list. 2. Update the required fields 2. Click on Update button.	Medid: 1 Medname: Dollo Medprice: 5 Medqty: 100 Pkgdate:2 Nov,2023 Expdate: 3 Oct,2024 Company: laxmi	Medicine data should be updated	Medicine data is Updated.	Pass
T5	Check functionality of Delete button.	User should be on medicine Form.	1.Enter Medicine Id 2. Click on Delete button.	Medid: 1	Medicine data should be Deleted	Medicine data is Deleted.	Pass
T6	Check whether expiry date is greater than package date or not.	User should be on medicine Form.	1.Enter all valid details. 2.Enter package date of medicine. 3.Enter expiry date of medicine.	Medid: 5 Medname: Meptal Medprice: 5 Medqty: 100 Pkgdate:2 Nov,2023 Expdate:3Aug,2023 Company: laxmi	Medicine data should not be inserted and message displayed that 'Expiry date is less than package date'	Medicine data is inserted in database.	Fail

T7	Check functionality of Clear button.	User should be on medicine Form.	1. Click on Clear button.	Medid: 1 Medname: Dollo Medprice: 5 Medqty: 100 Pkgdate:2 Nov,2023 Expdate: 3 Oct,2024 Company: laxmi	All input fields should be empty.	All input fields are empty.	Pass
T8	Check functionality of Back button.	User should be on medicine Form.	1. Click on Back button.	-	User should be redirected to home window.	User is redirected to home window.	Pass

Project Name	Medical Store Management System.
Module Name	Agent Module
Created By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Created Date	21/03/2023
Executed By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Executed Date	28/09/2023

Test Case ID	Test Scenario	Precondition	Steps to be executed	Test data	Expected Result	Actual Result	Pass/ Fail
T1	Check functionality of add button by entering valid input data.	User should be on Agent Form.	1. Fill all input fields by entering valid data. 2. Click on add button.	ID: 1 Name: Shamal. Age: 25 Phno: 8237299657. Gender: Female	Agent data should be inserted in database and displayed in Agent list.	Agent data is inserted in database and displayed in Agent list.	Pass
T2	Check functionality of add button by entering invalid input data.	User should be on Agent Form.	1. Enter invalid phone number. 2. Fill all input fields by entering valid data. 2. Click on add button.	ID: 1 Name: Shamal. Age: 25 Phno: 123799657(Invalid). Gender: Female	Agent data should not be inserted.	Agent data is not inserted.	Pass
T3	Check functionality of Update button.	User should be on Agent Form.	1. Click on row of Agent list. 2. Update the required fields 2. Click on Update button.	ID: 1 Name: Shamal. Age: 25 Phno: 7058249301. Gender: Female	Agent data should be updated	Agent data is updated.	Pass
T4	Check functionality of Delete button.	User should be on agent Form.	1. Enter Agent Id.	ID: 1	Agent data should be deleted	Agent data is deleted.	Pass
T5	Check functionality of Clear button.	User should be on agent Form.	1. Click on Clear button.	ID: 1 Name: Shamal. Age: 25 Phno: 8237299657. Gender: Female	All input fields should be empty.	All input fields are empty.	Pass
T6	Check functionality of Back button.	User should be on agent Form.	1. Click on Back button.	-	User should be redirected to home window.	User is redirected to home window.	Pass

Project Name	Medical Store Management System.
Module Name	Manufacturer Module
Created By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Created Date	25/03/2023
Executed By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Executed Date	29/09/2023

Test Case ID	Test Scenario	Precondition	Steps to be executed	Test data	Expected Result	Actual Result	Pass/ Fail
T1	Check functionality of add button by entering valid input data.	User should be on Manufacturer Form.	1. Fill all input fields by entering valid data. 2. Click on add button.	ID: 1 Compname: Mankind Address: Masur. Expdate: 4 years. Phno: 8237299657.	Manufacturer data should be inserted in database and displayed in Manufacturer list.	Manufacturer data is inserted in database.	Pass
T2	Check functionality of add button by entering existing Id.	User should be on Manufacturer Form.	1.Add existing ID. 2. Fill all input fields by entering valid data. 2. Click on add button.	ID: 1 Compname: Mankind. Address: Masur. Expdate: 4 years. Phno: 8237299657	Manufacturer data should not be inserted.	Manufacturer data is not inserted.	Pass
T3	Check functionality of add button by entering Invalid input data	User should be on Manufacturer Form.	1.Enter Id ID. 2. Fill all input fields data. 2. Click on add button.	ID: s Compname: 45 Address: 5. Expdate: 4 years. Phno: 1234567890	Manufacturer data should not be inserted.	Manufacturer data is not inserted.	Pass
T4	Check functionality of Update button.	User should be on Manufacturer Form.	1. Click on row of Manufacturer list. 2. Update the required fields 2. Click on Update button.	ID: 1 Compname: Mankind. Address: karad. Expdate: 4 years. Phno: 8237299657	Manufacturer data should be updated.	Manufacturer data is updated.	Pass
T5	Check functionality of Delete button.	User should be on Manufacturer Form.	1. Enter Manufacturer Id	ID: 1	Manufacturer data should be deleted	Manufacturer data is deleted.	Pass
T6	Check functionality of Clear button.	User should be on Manufacturer Form.	1. Click on Clear button.	ID: 1 Name: Mankind. Age: 25 Phno: 8237299657. Gender: Female	All input fields should be empty.	All input fields is empty.	Pass
T7	Check functionality of Back button.	User should be on Manufacturer Form.	1. Click on Back button.	-	User should be redirected to home window.	User is redirected to home window.	Pass

Project Name	Medical Store Management System.
Module Name	Billing Module
Created By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Created Date	28/03/2023
Executed By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Executed Date	5/10/2023

Test Case ID	Test Scenario	Precondition	Steps to be executed	Test data	Expected Result	Actual Result	Pass/ Fail
T1	Check the functionality of add to bill button (For available quantity).	User should be on billing Form	1. To fetch the data click on the row of medicine list. 2. Enter quantity.	1. Available quantity = 100. 2.Required quantity= 12.	Bill should be generated.	Bill is generated.	Pass.
T2	Check the functionality of add to bill button (If quantity is not available as required).	User should be on billing Form	1. To fetch the data click on the row of medicine list. 2. Enter quantity.	1. Available quantity = 88. 2.Required quantity= 90.	Bill should not be generated and message displayed that 'quantity is out of stock'.	Bill is not generated and message displayed that 'quantity is out of stock'.	Pass.
T3	Check the functionality of add to bill button by entering quantity as 0.	User should be on billing Form	1. To fetch the data click on the row of medicine list. 2. Enter quantity.	1. Available quantity = 88. 2.Required quantity= 0.	Bill should not be generated and message displayed that Invalid quantity.	Bill should not be generated and message displayed that Invalid quantity	Pass
T4	Check functionality of Clear button.	User should be on billing Form.	1. Click on Clear button.	-	All input fields should be empty.	All input fields are empty.	Pass
T5	Check functionality of Back button.	User should be on billing Form.	1. Click on Back button.	-	User should be redirected to home window.	User is redirected to home window.	Pass

Different Types of testing we have considered in project:

Black-box Testing:

Black Box Testing is a software testing method in which the functionalities of software applications are tested without having knowledge of internal code structure, implementation details and internal paths.

Unit Testing:

Unit testing, a testing technique using which individual modules are tested to determine if there are any issues by the developer himself.

Integration Testing:

Upon completion of unit testing, the units or modules are to be integrated which gives raise to integration testing.

System Testing:

System Testing is a black box testing technique performed to evaluate the complete system the system's compliance against specified requirements.

GUI Testing:

Graphical User-interface Testing or GUI testing is a process of testing the user interface of an application.

DEFECTS IN OUR MICROPROJECT:

1. Medicine page: It accepts the expiry date before the date of packaging.

DEFECT REPORT ON

Medicine page where it accepts the expiry date before the date of packaging.

Defect ID	T1
Defect Name	Accepting incorrect expiry date.
Project Name	Medical Store Management System
Module	Medicine page.
Defect Type	System Defect.
Severity	Medium.
Priority	Medium
Summary	Software accepts the expiry date before the date of packaging.
Problem Description	After entering incorrect expiry date system accepts the date instead of displaying error message that is expiry date is the date before of packaging.
Step to reproduce	1. Open medicine page. 2. Enter package date of medicine. 3. Enter expiry date after the date of packaging. 4. Click on add button.
Expected Result	Expiry date should not be accepted before the date of packaging.

Actual Result.	Expiry date is accepted.
Reported By	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Reported On	17 Oct 2023
Assigned to	Shamal Jadhav, Sanika Patil, Sanika Mhaskar.
Assigned on	19 Oct 2023
Status	Open
Fixed on	-
Closed on	-

8.0 SKILL DEVELOPED/ LEARNING OUT OF THIS MICRO-PROJECT:

After Implementing this microproject we have learnt:

1. Developing the Test Cases for Medical Store Management System.
2. Importance of Software Testing for developing a defect free software.
3. Study and apply different testing type while performing actual testing
4. Efficient communication skills.
5. Working as a team.
6. Developing leadership qualities.

9.0 APLLICATION OF MICROPROJECT:

1. This project can be used as example to develop different test scenarios while testing any other software.
2. This project can be used to identify which testing types can be considered to test any other software.

10. CONCLUSION OF MICROPROJECT:

preparing test cases, a test plan, and a defect report are essential components of a robust software testing process. Test cases help to ensure comprehensive test coverage, a well-documented test plan provides a roadmap for testing activities, and a detailed defect report facilitates effective communication between testers and developers. Together, these elements contribute to delivering high- quality software products that meet user expectations and minimize post release issues.