

Test Plan Document

Medicine Managment System

Project Code: BSCS51F21R009

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____Awais_____
Project Manager's Signature

Document Information

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Definition of Terms, Acronyms and Abbreviations

This section should provide the definitions of all terms, acronyms, and abbreviations required to interpret the terms used in the document properly.

Term	Description
ASP	Active Server Pages
TP	Test Plan
MMS	Medicine Management System

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1.Introduction

1.1 Purpose of Document

The Medicine Management project is an online pharmacy. This document describes the testing phase of MMS. This document's goal is to provide a clear understanding of the project's test cases and their results.

The project, which will be a console-based program, will be implemented in C++ using OOP techniques and Data Structures.

1.2 Project Overview

The C++ Medicine Management project is a simulation of an online pharmacy. The user will be able to browse a list of medicines and purchase items based on their requirements. Inventory will be tracked and sales reports will be generated by the application.

2.Test Plan Strategy

Strategy is simple first we design test cases according to use cases and then we test and evaluate either pass or fail.

2.1 Unit Testing

Definition:

Unit Test consists of testing individual programs or subroutines as they are written instead of testing the entire system after it has been written. The testing of the smaller building blocks is done first and then these blocks are combined and tested. Unit testing means testing each function independently to verify correct processing in a stand-alone environment.

Participants: *Developer*

Methodology:

Unit Tests will be conducted by the developers

2.2 Integration Testing

Definition:

Integration testing is a type of software testing that aims to verify the interaction between different software components or modules when they are integrated together to form a complete system. The purpose of integration testing is to ensure that the individual components or modules of the system are working correctly and can communicate with each other without errors, and that the overall system is functioning as expected.

Participants: *Developer*

Methodology:

Integration Tests will be conducted by the developers

2.3 System Testing

Definition:

System testing is a type of software testing that verifies the complete and integrated software system against its specified requirements. The purpose of system testing is to ensure that the system as a whole is functioning correctly and meets its intended business and technical requirements.

Participants:

developer , test team(Teacher , Friends)

Methodology:

system tests will be conducted by the developers and test team members.

3. Test Environment

System should able to execute program file ,terminal and keyboard are working.

4. Schedule

Testing Activities	Begin	End
Designing Test Cases	19-2-2023	19-2-2023
Executing Test Cases	19-2-2023	19-2-2023
Unit Testing	19-2-2023	19-2-2023
Integration Testing	19-2-2023	19-2-2023
System Testing	19-2-2023	19-2-2023

5. Control Activities

only one review meeting called on date Feb 20, 2023

(Let see what will happen)

6. Functions to be Tested

Every Function Except "Make user admin"

7. Functions not to be Tested

- ◆ Make user admin.

8. Test Case Design and Description

Test Case ID:	1	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	1
Revision History	no		
Objective	To test Signup Functionality		
Test Data:	name: nikola , age: 30 , password : tesla , confirm password : tesla		
Environment:	Terminal		
Assumptions:	it will create an user and display success message		
Pre-Requisite:	Keyboard and program both is working		
Step No.	Execution description	Procedure result	
1	select option from main menu.	Asked for name	
2	enter name	Asked for Age	
3	enter age	Asked for password	
4	enter password	Asked for confirm password	
5	enter confirm password	Success message	
Comments			
Status : passed		priority : 2	

Test Case ID:	2	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	1
Revision History	no		
Objective	To test Login Functionality		
Test Data:	name: nikola , password : tesla		
Environment:	Terminal		
Assumptions:	it will login and redirect to user menu		
Pre-Requisite:	Keyboard and program both is working		
Step No.	Execution description	Procedure result	
1	select option from main menu.	Asked for name	
2	enter name	Asked for password	
3	enter password	Redirect to user menu	
Comments			
Status : passed		priority : 1	

Test Case ID:	3	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	2
Revision History	no		
Objective	To test medicines printing and list		
Test Data:	no data		
Environment:	Terminal		
Assumptions:	it will show all medicines in well defined manner		
Pre-Requisite:	Keyboard and program both is working		
Step No.	Execution description	Procedure result	
1	choose option of view medicine from any menu.	it showed list of all medicines	
Comments			
Status : passed		priority : 0	

Test Case ID:	4	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	3
Revision History	no		
Objective	To test Search Functionality		
Test Data:	Medicine Name : Panadol		
Environment:	Terminal		
Assumptions:	it will show medicine and ask to buy		
Pre-Requirement:	Keyboard and program both is working , user should login		
Step No.	Execution description	Procedure result	
1	select option from user menu.	it asked for medicine name	
2	enter medicine name	it showed medicine details and ask for buy	
Comments			
Status : passed		priority : 0	

Test Case ID:	5	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	4
Revision History	no		
Objective	To test Buy Functionality		
Test Data:	Medicine Name : Lamon , Quantity: 2		
Environment:	Terminal		
Assumptions:	it will show total bill and invoice and add data to sales list		
Pre-Requisite:	Keyboard and program both is working , user should login		
Step No.	Execution description	Procedure result	
1	select option from user menu.	it asked for medicine name	
2	enter medicine name	it asked for quantity	
3	enter quantity	it showed total bill and success message	
Comments			
Status : passed		priority : 0	

Test Case ID:	6	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	5
Revision History	no		
Objective	To test View Sales List Functionality		
Test Data:	no input		
Environment:	Terminal		
Assumptions:	it will show list of all sales		
Pre-Requirement:	Keyboard and program both is working , admin should login		
Step No.	Execution description	Procedure result	
1	select option from admin menu.	it will show list of all sales press enter to continue...	
Comments			
Status : passed		priority : 0	

Test Case ID:	7	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	6
Revision History	no		
Objective	To test Delete User Functionality		
Test Data:	username : 3, password: 3		
Environment:	Terminal		
Assumptions:	it will delete user from file and show success message		
Pre-Requisite:	Keyboard and program both is working , admin should login		
Step No.	Execution description	Procedure result	
1	select option from admin menu.	it asked for user name	
2	enter user name	it asked for password	
3	enter password	it deleted user named 3 from user list	
Comments			
Status : passed		priority : 0	

Test Case ID:	8	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	7
Revision History	no		
Objective	To test Show Users Functionality		
Test Data:	no input		
Environment:	Terminal		
Assumptions:	it will show list of all users		
Pre-Requirement:	Keyboard and program both is working , admin should login		
Step No.	Execution description	Procedure result	
1	select option from user menu.	it will show list of all users	
Comments			
Status : passed		priority : 0	

Test Case ID:	9	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	8
Revision History	no		
Objective	To test Add Medicine Functionality		
Test Data:	Medicine Name : Vitamin , Quantity: 2 , Price: 500		
Environment:	Terminal		
Assumptions:	it will add new medicine to file		
Pre-Requirement:	Keyboard and program both is working , admin should login		
Step No.	Execution description	Procedure result	
1	select option from admin menu.	it asked for medicine name	
2	enter medicine name	it asked for quantity	
3	enter quantity	it will ask for price	
4	enter price	it showed success message	
Comments			
Status : passed		priority : 0	

Test Case ID:	10	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	10
Revision History	no		
Objective	To test Update Medicine Price Functionality		
Test Data:	Medicine Name : Vitamin, New Price : 150		
Environment:	Terminal		
Assumptions:	it will update price of that medicine		
Pre-Requirement:	Keyboard and program both is working , admin should login		
Step No.	Execution description	Procedure result	
1	select option from admin menu.	it asked for medicine name	
2	enter medicine name	it asked for new price	
3	enter new price	it showed success message	
Comments			
Status : passed		priority : 0	

Test Case ID:	11	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	11
Revision History	no		
Objective	To test Update Medicine quantity Functionality		
Test Data:	Medicine Name : Vitamin, New quantity: 20		
Environment:	Terminal		
Assumptions:	it will update quantity of that medicine		
Pre-Requisite:	Keyboard and program both is working , admin should login		
Step No.	Execution description	Procedure result	
1	select option from admin menu.	it asked for medicine name	
2	enter medicine name	it asked for new quantity	
3	enter new quantity	it showed success message	
Comments			
Status : passed		priority : 0	

Test Case ID:	12	QA Test Engineer	Awais
Test case Version:	1.0	Reviewed By	Dr ilyas
Test Date:	19 - 2 -2023	Use Case Reference(s)	9
Revision History	no		
Objective	To test Delete Medicine Functionality		
Test Data:	Medicine Name : Vitamin		
Environment:	Terminal		
Assumptions:	it will delete medicine from list		
Pre-Requirement:	Keyboard and program both is working , admin should login		
Step No.	Execution description	Procedure result	
1	select option from admin menu.	it asked for medicine name	
2	enter medicine name	it showed success message	
Comments			
Status : passed		priority : 0	

9.Risks and Assumptions

There is some risk of wrong testing of MMS. there is a chance of human error.

10. References

Ref. No.	Document Title	Date of Release/ Publication	Document Source
BSCS51F 21R009	Software Requirements Specifications	Feb 6, 2023	in same folder