



American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

Summer 21 22

Section: B

Software Quality Assurance and Testing

E-Medicare

A Report submitted

By

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Software Test Plan

for

<E-Medicare>

Version 1.0 approved

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Revision History

Revision	Date	Updated by	Update Comments
0.1	01-08-2022	MD. NAYMUL ISLAM	First Draft
0.2	05-08-2022	MD. NAYMUL ISLAM	Second Draft
0.3	09-08-2022	MD. NAYMUL ISLAM	Third Draft
0.4	12-08-2022	MD. NAYMUL ISLAM	Fourth Draft
0.5	16-08-2022	MD. NAYMUL ISLAM	Fifth Draft (Final draft)

1. TEST PLAN IDENTIFIER: E-Medicare_1.02

2. REFERENCES

- * Software Quality and Testing Course PowerPoint Slides
- * Selenium: <http://www.selenium.com>
- * For writing Test Case: <https://www.geeksforgeeks.org/software-testing-test-case>
- * For Quality Attributes: <http://shorturl.at/CMOV7/>
- * For Quality Attributes: SQAT - Ch.02 - Software Quality.pptx

3. INTRODUCTION

Background to the Problem

We are proposing to build a website which provides medical support services. Many patients perform peritoneal dialysis at home with no assistance. In order for treatments to be effective, a patient needs to have a caregiver to take greater responsibility for patient care and closely follow their training and physician guidelines. They might also need emergency support or dialysis placement. The system would help to find physicians or nurses. Sometimes it is difficult to manage an ambulance and even if it gets managed, it might be costly. The system also provides emergency ambulance services for those who require it. Also, the website specializes in distributing oxygen cylinders. From the website anyone can get 24/7 medicine delivery service. Moreover, users can get instant medical support through the system. In addition, users get access to medical equipment that are unable to find and it is good quality, and affordable.

Solution to the Problem

In order to deal with the issue, we are making a software named E-Medicare that has features of all emergency medical service in one click. For example, Medicine, Nursing Service & Ambulance. A big opportunity will be created in medical sector. User can find their service within a click.

Our main purpose is to create a platform for medical sector, so that patient can get necessary service in any situation. By this project, there will be a little job or work opportunity. It will be less time consuming for the users to get medical service from staying home.

4. REQUIREMENT SPECIFICATION

4.1 System Features

1. Service provider/Nurse & Ambulance Feature

Functional Requirements

- 1.1 Register to the website to make their own account
- 1.2 Login to the website
- 1.3 Logout from the system
- 1.4 Can change the password
- 1.5 Can see the service request
- 1.6 Can decline any request if required
- 1.7 Can contact user
- 1.8 Can add own location information
- 1.9 Can contact system admin

Priority Level: High

Precondition: admin must have valid user name, password

2.Admin Feature

Functional Requirements

- 2.1 Register to the website to make their own account
- 2.2 Login to the website
- 2.3 Logout from the system
- 2.4 Can change the password
- 2.5 Can see all provided services
- 2.6 Can delete any service provider
- 2.7 Can view all service providers
- 2.8 Can see user feedback to improve the system

Priority Level: High

Precondition: Nurse/Medical assistant t must have valid user name and password

3.User Feature

Functional Requirements

- 3.1 Register to the website to make their own account
- 3.2 Login to the website
- 3.3 Logout from the system
- 3.4 Can change the password
- 3.5 Can give feedback to the website
- 3.6 Can delete own account
- 3.7 Can contact system admin
- 3.8 Can add own location information
- 3.9 Can update schedule

Priority Level: High

Precondition: user must have valid user name and password

4.2 System Quality Attributes

Usability: This can be measured in terms of ease of use. The application should be user-friendly. Usability means how easily user (patient) can use this system and get services. If the system is not user friendly, then patient may lose their interest to find solution here.

Priority Level: High

Integrity: Integrity this factor deals with the system security that is, to prevent access to unauthorized persons. This attribute is most important to provide security. When patient will want to pay in online, the transition process should be secured.

Priority Level: High

Flexibility: It is used as an attribute of various types of system. Users can easily access and adapt the software so frequently to utilize their needs. The software is organized according to user demand and user easily understand the change.

Priority Level: High

Performance: Performance requirements define how well or how rapidly this system must perform specific features. Speed, throughput, capacity, timing. It also addresses how the system's performance will degrade in an overloaded situation (when more user doing transaction at a time).

Priority Level: High

Portability: The System should be so simple transform one medium to another.

Priority Level: Medium

Efficiency: If the system is using all the available resources, then the user will get degraded performance failing the system for efficiency. If the system is not efficient then it can't be used in real-time applications. As sometimes user will use it in the emergency situation, It should be more efficient to use.

Priority Level: High

Maintainability: The system will be well documented and it will be designed to be easier maintenance. The system shall not be shut down for maintenance more than once in 24 hours. Maintenance should be cost-effective and easy.

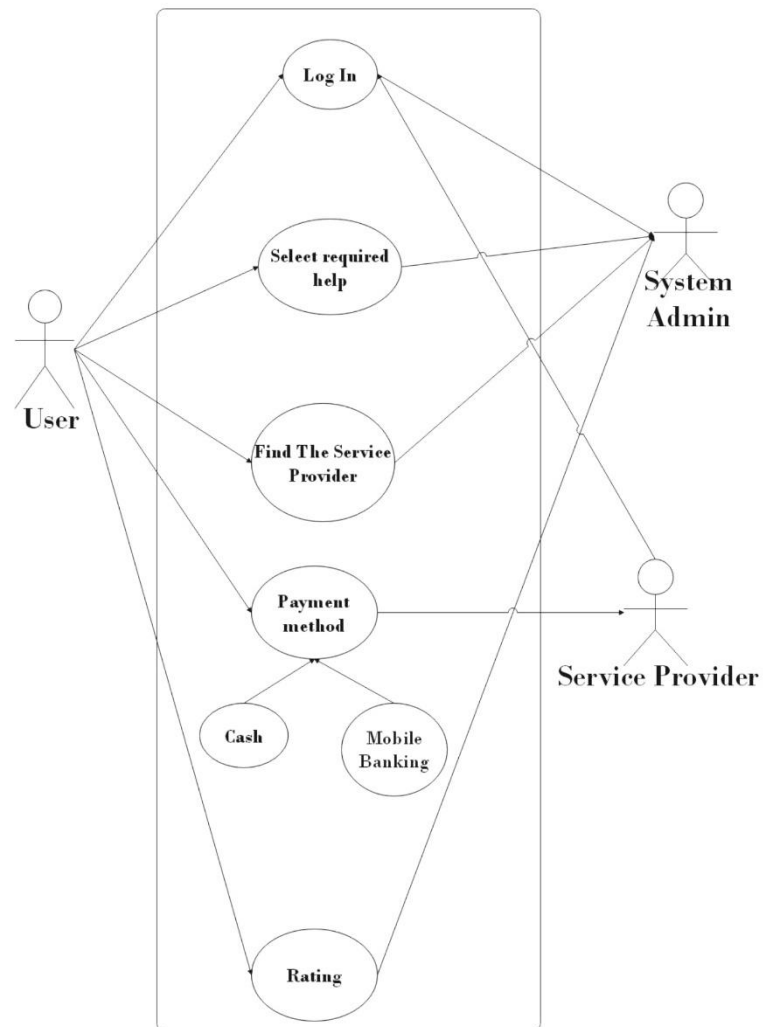
Priority Level: High

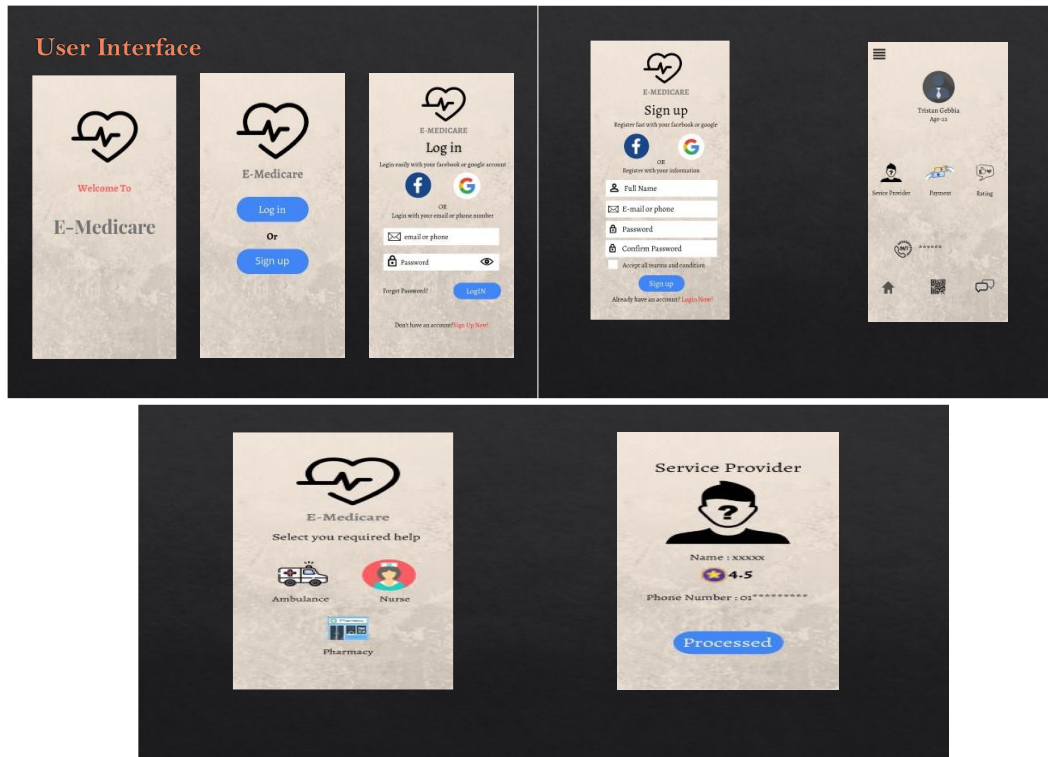
Testability: If the System face any error or defect then it must have the testing ability of that error or defect.

Priority Level: High

4.3 System Interface

Use case diagram





4.4 Project Requirements

Using pre-determined and frequently particularly allotted inventories of time, money, resources, and equipment, a project is a planned activity that achieves a specific objective. It will take a business case to support the outcome, which could be a product or service. Projects are extracurricular activities that take place outside of a company's regular business operations. They have definite beginning and ending dates and a distinct outcome. The ability to create the output to the specified quality, within budget, and within the given time-frame is what defines success in delivery. In actuality, though, these three might need to be traded off in some way. For instance, if the deadline is strict and immovable, the budget might need to be raised to pay for additional resources, or some quality might need to be sacrificed. Beyond the continuing services they offer, discrete projects, frequently with a significant technical component, are something that librarians in every industry are dealing with more and more of. In many of these projects, the collection is digitally preserved in full or in part, and services are made online accessible to users. In a world that is changing quickly, the transition from print to digital has had a significant impact on librarians' work. They are no longer the caretakers of knowledge and must now follow user requirements more closely than ever. To make sure they meet consumer needs and stay on top of the competition, many firms perform systematic reviews. On the same budget or one that has not expanded in line with service demands, they frequently need to also raise their level of service.

- Total Development time: 8 months
- Total working hours needed: $(8 \times 22) \times 8 = 1,408$ hours ;(1 month =22 working days & per day working time 8 hours)
- Requirement analysis & Documentation times needed: $22 \times 8 = 176$ hours

- Times needed for developing system: $(4*22) *8= 704$ hours
- Times needed for Testing & Debugging: $(2*22) *8=352$ hours
- Revision time: $(1*22) *8= 176$ hours
- Resource:
 - Developer team of 6 engineers.
 - Software Quality assurance team of 3 engineers.
 - Custom build Pcs 10
 - Android smartphones 2
 - LAN connection
 - Testing tools
- Total budget: 1,350,000 BDT
- Cost estimation:
 - Developers' salary: $(704*150) *6= 633,600$ BDT ;(Per hour salary= 150 BDT)
 - SQA engineers' salary: $(352*150) *3= 158,400$ BDT;(Per hour salary= 150 BDT)
 - Purchase necessary equipment, Hardware & testing tools: 200,000 BDT
 - Total cost: 992,000 BDT

5. FEATURES NOT TO BE TESTED

We have three modules and a total of seven features in our project. Out of these seven features, one will not be tested.

1. **Different- language:** The language will automatically be set to English. We performed a survey, and the majority of respondents indicated that English was their preferred language for the app. However, a lot of users preferred Bangla for the app language, so we will address that. This feature, though, is not given top priority. Currently, we won't test this functionality.
2. **Database area:** There won't be any testing in the database area. The relevant database format information will be made available to the clients in order to enable data extraction since these applications are entirely under the control of the clients and fall outside the purview of this project. The application developer is responsible for testing their applications.

6. TESTING APPROACH

6.1 Testing Levels

Testing at the Unit, System, Integration levels will be done for the "Parental Security Application." The majority of the testing, however, will be carried out by the test manager with the assistance of the development teams due to budgetary and timeline restrictions.

Unit Testing: Unit testing is also known as individual testing and white box testing. When a module is finished, the developer compiles it to confirm that it is functional. This testing will take place in our system once a developer completes the design of any page.

Control Flow Testing: It looks for flaws brought on by improperly written program code. It is testing in a white box. In our solution, the developer will pick a specific section of a large program to create the testing path and Test cases represented by the program's control graph. The nodes and edges come together to form the Control Flow Graph.

Integration Testing: The purpose of integration testing is to validate that all of the modules are communicating properly. With assistance from the individual developers as needed, it is carried out by the test manager and development team leader. When our system's developers create two or more modules, the testing team will combine these modules and look for incompatibility.

System Testing: After the integration testing is complete, this testing is conducted. Here, it examines how the entire system functions, often from the viewpoint of the client. It is testing in a black box. The testing team will integrate the entire system in our system. The system would then be assembled, and any problems would be fixed as soon as they were discovered.

Acceptance Testing: The examination is official. This testing process confirms that the customer's demand is fully functional. Customers and end users will test the entire system and provide feedback.

6.2 Test Tools

The testing methodologies used by the tools vary, and as a result, their feature sets do as well.

1. **Unit Testing:** Individual software modules or functionalities are tested as part of a sort of testing called unit testing. Testing each component or function is its main objective. The smallest piece of an application that can be tested is called a unit. It often only has one or a few inputs and one output. We must require selenium as a software testing tool for that.
2. **Integration Testing:** Integration testing is a sort of testing designed to examine how various components work together, how they interact, how subsystems combine to form a single standard system, and how well the code complies with the requirements and we need to use selenium as our testing tools for integration testing. These are web-based tools.
3. **System Testing:** System testing makes sure an application works as intended. This procedure, which is a form of black-box testing, focuses on an application's functionality. For instance, system testing may examine whether each type of user input results in the desired output throughout the application. System testing will be done using here with selenium. Selenium is a tool for codeless automated testing that offers automated testing options for our website. Test cases are easily and effectively managed and executed by selenium automates.

Testing tools we used for testing are given below:

- I. Chrome Driver: We have installed it to complete our program
- II. Selenium Web Driver: Selenium is mandatory for the testing approach.
- III. MySQL: Need this for database connection.

IV. Postman.

6.3 Meetings

We arrange a meeting in every week to evaluate progress to date and to identify error trends and problems as early as possible. We met with development and the project manager once every two weeks as well.

The testing phase of this project will last 44 days, giving it a total lifespan of 32 weeks. We have around 8 weeks left in this period.

In the first seven weeks, unit, integration, and system testing will be used to test every module. The QA Engineers will complete the entire testing step within this time. If there is a flaw, it will be fixed before the module is tested once more. The testing by customers or other parties will take two weeks. Acceptance testing will take place during this stage. They will evaluate the system for us and provide a report.

If there is a problem, the review report will be looked up and examined after it is received from the vendor in order to fix it. The time it takes to finish the problems and take the test will be one week. And there will be a general meeting every Friday or Saturday at 9:00 PM. We scheduled an extra meeting for final checking of the test report.

7. TEST CASES/TEST ITEMS

7.1 Log in

Project Name: E-Medicare		Test Designed by: Md. Naymul Islam		
Test Case ID: Login_01		Test Designed date:11-04-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Md.Naymul Islam		
Module Name: Login		Test Execution date:26-04-2022		
Test Title: verify login with valid username and password				
Description: Test website login page				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Go to the Login section 3. Enter valid Username 4. Enter password 5. Click on the “Login” button	Username: Naymul_07 Password: 43769	Login Successful	As expected,	Pass
Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.				

7.2 Registration

Project Name: E-Medicare		Test Designed by: Md. Naymul Islam		
Test Case ID: Registration_02		Test Designed date:11-04-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Md.Naymul Islam		
Module Name: Registration		Test Execution date:26-04-2022		
Test Title: Registration with valid Username, Email, Contact no, DOB, Gender, Current location and password.				
Description: Test website Registration page				
Precondition (If any): User must fill up all the input field				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Click on the “registration” button. 3. Enter all information, 4. Click “Submit” button	Username: Atika_11 E-mail: atika123@gmail.com Contact NO:01700011122 DOB: 05-08-0000 Gender: Female Location: Dhaka Password:50899	Registration successful	As expected,	Pass
Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.				

7.3 Log out:

Project Name: E-Medicare		Test Designed by: Md. Naymul Islam		
Test Case ID: Login_03		Test Designed date:12-04-20222		
Test Priority (Low, Medium, High): High		Test Executed by: Md.Naymul Islam		
Module Name: Logout		Test Execution date:27-04-2022		
Test Title: verify logout option				
Description: Test website logout option				
Precondition (If any): Must have account on this website and must logged in to the website.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Log in the website 3. Click on the “Logout” button		Logout successful	As expected,	Pass
Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.				

7.4 Change Password

This Test case will check if the change password feature is working accurately or not.

Project Name: E-Medicare		Test Designed by: Md. Naymul Islam		
Test Case ID: ChangePassword_04		Test Designed date: 14-04-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Naymul Islam		
Module Name: Update Password		Test Execution date: 28-04-2022		
Test Title: Can change the password from user profile				
Description: Test password is updated or not				
Precondition (If any): User must login the account				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to the profile 2.Enter update password 3.Input old password. 4.Input new password. 5.Confirm new password. 3.Click the “change password” button.	New Password: \$%12kj	Password update successful	As expected,	Pass
Post Condition: The updated password stored in the database.				

7.5 Available Nurses

The test case will test whether the user is able to see the available medical assistant near their location.

Project Name: E-Medicare		Test Designed by: Md. Naymul Islam		
Test Case ID: Nurse_05		Test Designed date: 18-04-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Naymul Islam		
Module Name: View Available Nurse		Test Execution date: 01-06-2022		
Test Title: Show all available Nurses to a nearby location with their detailed information				
Description: Test all Nurses to see if they are visible or not.				
Precondition (If any): User must login and select the location & give info require medical support.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to the website 2.Login to the website 3.Select the location 4.See all available Nurses	Select location & require medical support.	Able to see the list of Nurses	As expected,	Pass
Post Condition:				

7.6 Nurses' status

Project Name: E-Medicare		Test Designed by: Md. Naymul Islam		
Test Case ID: Login_06		Test Designed date:20-04-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Naymul Islam		
Module Name: Nurses status		Test Execution date:01-06-2022		
Test Title: Show the Nurses available or not.				
Description: Nurses status.				
Precondition (If any): Nurses must register according their medical service expertise into the database.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Go to the check Nurses status 3. In search box write a medical need. 4. Click on the “search” button	Dialyses specialist	Show the Nurses list with availability.	As expected,	Pass
Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.				

7.7 Available Ambulances

The test case will test whether the user is able to see the available medical assistant near their location.

Project Name: E-Medicare		Test Designed by: Md. Naymul Islam		
Test Case ID: Nurse_07		Test Designed date: 21-04-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Naymul Islam		
Module Name: View Available Ambulances		Test Execution date: 05-06-2022		
Test Title: Show all available Nurses to a nearby location with their detailed information				
Description: Test all Ambulances to see if they are visible or not.				
Precondition (If any): User must login and select the pickup location & destination.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to the website 2.Login to the website 3.Select the location 4. Select the destination 4.See all available Ambulances	Select pickup location & destination	Able to see the list of Ambulances	As expected,	Pass
Post Condition:				

7.8 Ambulances status

Project Name: E-Medicare		Test Designed by: Md. Naymul Islam		
Test Case ID: Login_08		Test Designed date:22-04-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Naymul Islam		
Module Name: Ambulances status		Test Execution date:08-06-2022		
Test Title: Show the Ambulances available or not.				
Description: Ambulances status.				
Precondition (If any): Must set pickup location and Destination.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Go to the check Ambulances status 3. Click on the “search” button	Select pickup location & destination	Show the Ambulance list with availability.	As expected,	Pass
Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.				

7.9 Available Medicine & Oxygen cylinder

Project Name: E-Medicare	Test Designed by: Md. Naymul Islam
Test Case ID: M&O_07	Test Designed date: 23-04-2022
Test Priority (Low, Medium, High): High	Test Executed by: Md. Naymul Islam
Module Name: View Available Medicine & Oxygen cylinder	Test Execution date: 10-06-2022

Test Title: Show all available Medicine & stock of Oxygen cylinder to a nearby location with their detailed information				
Description: Test all Medicine & Oxygen cylinder to see if they are Available or Out of stock.				
Precondition (If any): User must login and select the delivery location.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to the website 2.Login to the website 3.Click on Medicine & Oxygen option. 4.See all available Medicine & Oxygen cylinder.	Select type of Medicine or Oxygen cylinder	Able to see the list of Medicine &Oxygen cylinder	As expected,	Pass
Post Condition:				

7.10 Medicine & Oxygen cylinder status

Project Name: E-Medicare		Test Designed by: Md. Naymul Islam		
Test Case ID: M&O Status_10		Test Designed date: 24-04-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Naymul Islam		
Module Name: View selected Medicine or Oxygen cylinder		Test Execution date: 15-06-2022		
Test Title: Show all available selected Medicine or Oxygen cylinder to a nearby location with their detailed information				
Description: Test all selected Medicine or Oxygen cylinder to see if they are Available or Out of stock.				
Precondition (If any): User must login and select the require Medicine or Oxygen cylinder, set delivery location				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)

1.Go to the website 2.Login to the website 3.Select the delivery location 4. Select the require Medicine or Oxygen cylinder 5. Click on “Order” button	Select delivery location	Able to see the status of Order	As expected,	Pass
Post Condition:				

7.11 Payment

The test case will

Project Name: E-Medicare		Test Designed by: Md. Naymul Islam		
Test Case ID: Payment_11		Test Designed date: 25-04-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Naymul Islam		
Module Name: Payment Session		Test Execution date: 18-06-2022		
Test Title: Show the payment system				
Description: Payment Session				
Precondition (If any): User must have to login, use service and add a online payment gateway service for payment.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to website. 2. Login website. 3. Select needed support. 4. Click the “Finish” button 5. Select added payment system 6. Enter the amount 7. Complete payment			As expected,	Pass
Post Condition: User is validated with database and successfully done the Payment. The Payment session details are logged in the database.				

7.12 Feedback

Project Name: E-Medicare			Test Designed by: Md. Naymul Islam	
Test Case ID: Payment_12			Test Designed date: 25-04-2022	
Test Priority (Low, Medium, High): High			Test Executed by: Md. Naymul Islam	
Module Name: Feedback			Test Execution date: 20-06-2022	
Test Title: Show the Feedback of services				
Description: Feedback Session				
Precondition (If any): The user must have to log in and must use services				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to website. 2. Login website. 3. Use any services 4. Give Feedback 5. click on the “Submit” button			As expected,	Pass
Post Condition: User is validated with database and successfully done the Payment. The Payment session details are logged in the database.				

8. ITEM PASS/FAIL CRITERIA

The system login page will match the user input. If the user inputs (username, password) match with the database the system will redirect the user to homepage from the login page. Then we can ensure that our test case is passed. If the user inputs do not match with the data stored in the database, then the system will give an error message.

To create an account the user has to register. They must fill up all the required fields such as valid Username, Email, Contact no, DOB, Gender, Current location and Password. Then click the submit button. If the user is validated with database and successfully log in to the account. That is how the test case is passed.

To test the logout option the user must have an account on the website and log into the account. After the necessary operations, they can click the logout button. As the user is validated with the database and successfully logout to the account. The account session details are stored in the database.

The user can change the password by logging in to his account and going to the profile. Then the user will enter the updated password field to insert a new password. After that, input the previous password field and then input a new password again. Finally, the password will be updated and stored in the database. If the user inputs (username, password) match with the database the system will redirect the user to homepage

from the login page successfully. Then we can ensure that our test case is passed. If the user inputs do not match with the data stored in the database, then the system will give an error message.

The user will login to the system using their account. To see all medical assistants near the home, the user must select the location information and require medical support. So, they could successfully see the details of available Nurses and the test case is passed.

To check the available nurses the user has to log onto the system. Then go to the 'Check Nurses Status' section. After that search according to medical service expertise such as Dialyses Specialist. If the nurse is registered into the database the user is able to see the list of available nurses and the test case is passed. Otherwise, the test case failed.

The user will log in to the system using their account. To see all available ambulances near the home, the user must select the pickup location information and destination. So, they could successfully see all available ambulances near the location and the test case is passed. If the user is unable to provide the location the case will fail.

To check if the available ambulance is available or not the user has to log onto the system. Then go to the 'Check Ambulance Status' section. After that click on the search button and select the pickup location and destination. If the ambulance is available the user is able to see the list of available ambulances and the test case is passed.

The user will go to the website. Then login to the system and select the needed support. Click the 'Finish' button. To pay then select a payment gateway service and enter the amount. That is the payment will be made and the user will notify. So, the test case passed. If the user does get any confirmation message the test case fails.

The user can review the services. First, the user goes to the website and login to the account. Then give feedback and click the submit button. The test status is passed and the system will show the comment. The test case will fail if do not use any services.

So, after performing all test cases, we can ensure that our test case passed successfully.

9. TEST DELIVERABLES

- Acceptance test plan
- System/Integration test plan
- Unit test plans/turnover documentation
- Screen prototypes
- Defect/Incident reports and summaries
- Test logs and turnover reports

10. STAFFING AND TRAINING NEEDS

With the initial project planning, the project manager can take the responsibility of a test engineer. Following the completion of the fundamental form, the approval and confirmation tests necessitate

the involvement of two full-time tester. From them one should be tester at the beginning who will be the assistant of project manager. Then the project lead and Manager must work with the workforce of an organization to train on the internal operation of a project stream and to learn about more. In between, if they need any kind of must help or solution then they may hire an expert for a specific amount of hour.

11. RESPONSIBILITIES

Serial	Tasks	Start	Week	Responsibility
1.	Documentation	14-Mar-2022	Week 1	Developer/Tester
2.	Design	30-Mar-2022	Week 3	Testing team lead
3.	Test Plan	11-Apr-2022	Week 5	Testing team lead
4.	Write code & unit testing	26-Apr-2022	Week 7	Developer
5.	Integration Testing	1-Jun-22	Week 12	Testing team lead
6.	System Testing	21-Jun-22	Week 15	Testing team lead
7.	Acceptance Testing	9-Jul-22	Week 17	End User/ Third party organization
8.	Revision/ feedback	22Jul-Aug12	Week 21	Testing team lead
9.	Documentation	1-Aug-12	Week 23	Testing team lead

12. TESTING SCHEDULE

Time has been allocated within the project plan for the following testing activities. The specific dates and times for each activity are defined in the project plan timeline. The persons required for each process are detailed in the project timeline and plan as well. Coordination of the personnel required for each task, test

team, development team, management and customer will be handled by the project manager in conjunction with the development and test team leaders. The schedule must be done using any PM tool.

Task	14-Mar-22	30-Mar-22	11-Apr-22	26-Apr-22	1-Jun-22	21-Jun-22	9-Jul-22	22-Jul-12-Aug	1-Aug-12
Documentation									
Design									
Test Plan									
Write code & unit testing									
Integration Testing									
System Testing									
Acceptance Testing									
Revision/ feedback									
Documentation									

13. PLANNING RISKS AND CONTINGENCIES

The required number of test employee may not be obtained on time, which can be a danger for the working schedule. The schedule must be updated in time to account if needed. At the time of working some software may need to use which is not available at that moment. For this, the person who will realize it first he/she should inform the lead and the lead must manage these resources if they are a must. Similarly, if any contingencies will appear at the time of using the available resource, then the person who will face them should knock the lead immediately. If the possibility of finishing the project in the deadline will decrease day by day manager or main project lead should take some necessary steps to fix with ay parameters even the schedule may need to change too. If any slight problem of a different team will appear then the tester may knock them directly.

14. APROVALS

Project Sponsor	ABC HEALTH CARE LIMITED (imaginary)
Develop Management	MD. NAYMUL ISLAM
EDI Project Manager	MD. NAYMUL ISLAM
RS Development Team Manager	MD. NAYMUL ISLAM
Reassigned Sales	MD. NAYMUL ISLAM
Rs Test Manager	MD. NAYMUL ISLAM
Order Entry EDI Team Manager	MD. NAYMUL ISLAM