

American International University-Bangladesh (AIUB)  
Department of Computer Science  
Faculty of Science &Technology (FST)  
Summer 20\_21

Section: E  
Group No: 05

Online Pharmacy and Emergency Ambulance Service Providers

A Software Quality Assurance Test Plan submitted

By

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Software Test Plan

for

<Online pharmacy and emergency ambulance service providers>

Version 1.0 approved

Prepared by <Kamran, Md. Saifulla, Turny , Tania Tasmim , Momo Frahabi Mostafa, Ahmed Shahriar, Punam Ghosh>

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<12 Aguest,2021>

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# Revision History

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| --- | --- | --- | --- |
| Revision | Date | Updated by | Update Comments |
| 1 | 11.08.2021 | Kamran, Md. Saifulla | All |
| 2 | 11.08.2021 | Ahmed Shahriar | All |
| 3 | 11.08.2021 | Turny , Tania Tasmim | All |
| 4 | 11.08.2021 | Punam Ghosh | All |
| 5 | 11.08.2021 | Momo Farhabi Mostafa | All |

# TEST PLAN IDENTIFIER: RS-MTP01.7

# REFERENCES

# https://pharmaceutical-journal.com/article/news/examining-the-role-of-new-technology-in-pharmacy-now-and-in-the-futureINTRODUCTION

* <https://link.springer.com/article/10.1007/s42438-020-00169-6>
* <https://repositorio.cepal.org/bitstream/handle/11362/37898/1/LCG2199P_en.pdf>
* <https://www.newzealandnow.govt.nz/live-in-new-zealand/safety/emergency-services>
* <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4268654/>
* <https://onlinelibrary.wiley.com/doi/abs/10.1002/jppr.1111>

# INTRODUCTION

## Background to the Problem

* Almost average people spend a significant amount of their income on medicine. Sometimes they also need emergency medicine and an emergency ambulance as an emergency can strike anytime, anywhere. Sometimes all prescribed medicines are not available in local Pharmacies. Traffic jams are an also very big problem in our country. Moreover, most of the pharmacies are closed at night time but sometimes in an emergency situation medicine is very essential. In this case, an online web-based e-commerce medicine delivery system is very much needed.
* In addition, currently the whole world is suffering due to COVID-19 pandemic. In this pandemic time, it is not safe to go out to buy medicine outside. Due to COVID-19, medicine and ambulance scarcity is also an important issue**. In this situation, an online medicine and ambulance delivery system can play an important role.**

Important of this problem:

* The online shopping option has definitely added a much-needed avenue to meet not only emergencies, but also regular demand for such services, especially for the elderly, critical and chronic patients.
* Online marketplace for pharmacy and emergency ambulance service providers aims to make the ordering process, to integrate with the best service providers and facilitate the healthcare services, and to reach people globally through innovative technology and leadership within the cost and time affordability.
* The customers has an easier access to written product information, and references to sources.
* These online systems are generally lightning fast and optimized very well for searching engines.
* Users can select their desired drug items, add them to cart and then proceed to payment.
* These systems have also a payment integration of Cash on Delivery systems.
* Most of the online pharmacies have websites and apps with the facilities of uploading prescriptions on the app as there are certain medications that cannot be sold without prescription according to the drug authority guidelines. So, there is no option of doing anything illegal.
* Moreover, emergency ambulance delivery system can save a patient’s life in a critical moment or can save an accident patient providing paramedical functions.

## Solution to the Problem

* Medicines and ambulance are very essential to us. Specially during the time of covid 19 situation when going outside is risky, services of medicine and ambulances are even more required. A Web application is perhaps the perfect solution of providing emergency medicines and ambulance services. As most of the people are now very much active online and providing these services through online platform can be the best possible way. Definitely this solution is feasible to meet the business objects because the range of online services reaches to a lot of customers nowadays.
* This Web application will be used for two different services. It will supply medicine and also provide ambulance services. Nearby pharmacies will have to be registered in this website. The developer of this software makes feature through which the pharmacy provides medicine by using this application. When a customer orders a particular medicine, the application notifies registered pharmacy and then that pharmacy sends those medicines to the medicine store. The on-Duty delivery man delivers that medicine to the customer very fast. The application also provides ambulance by tracking one’s location.

The main objectives are to register the selected pharmacies by maintaining their legal policies

and to create a built tracking system that finds area-based ambulance for customers.

So, the goal of this web application is to make sure that people can get these health services in a fast and easy way.

* There are a few online medicine shops available nowadays but they are unable to run properly and also some apps are promised to provide ambulance services but they too often disappoint with their service.

# REQUEIREMNT SPECIFICATION

## System Features

* List down the system functional requirements that describes the system’s functionalities

1. **System Login:**

Functional Requirements

1.1The software shall allow users to login with their given username and password

1.2If the username and/or password has been inserted wrong for more than three times, the random verification code will be generated by the system to retry login.

1.3If the number of login attempt exceed its limit (5 times), the system shall block the user account login for one hour [optional function]

Priority Level: High

Precondition: user have valid user id and password

2**.System sign up:**

2.1 User must be need a email id, verification code is send in this email to verified the user.

2.2 User must be fill up the form with all the correct information

2.3 Set a strong password using Alphabet and number and a word must be in upper word, special character is not allowed

2.4 Password must be 8 characters

2.5 All information which given by the users are safe and secure.

Priority Level: High

Precondition: user email

## System Quality Attributes

* **:** List down the quality attributes that describes how well the system should perform.

**Integrity/Security:** The extent to which access to a software or data on a tape. Only users who have Auditor access privileges shall be able to view customer transaction histories.

**Usability:** The effort required to learn, operate, prepare input and interpret output of a

program. A trained user shall be able to submit a complete request for a chemical selected from a vendor catalog in an average of four and a maximum of six minutes.

**Portability:** Shall be able to run on every device and a responsive UI.

**Efficiency:** All functional purpose shall be fulfilled

**Responsibility:** Check all the Functional ability, resource and fixed every bug if arrived.

## System Interface

* Draw the system interface where the users will interact with the system’s functionality.

## Project Requirements

## 4.4 Project Requirements

* The project constraints (e.g., time, budget, resources, environment, etc.) that should be followed in the project management.

Team members 8 workers

Total budget 2,90,000 BDT  
 Total Development Time 8 months

Approach time, budget, resources, environment.

# FEATURES NOT TO BE TESTED

The following is a list of the areas that will not be specifically addressed. All testing in these areas will be indirect as a result of other testing efforts. For example:

* Every project has specific requirements from the customer. So, each project will vary in deadline and cost. This project is web-based project. Our budget is insufficient if we get more fund then we add more new updated features like booking and reservation. Also adding more member to work fast.

# TESTING APPROACH

## Testing Levels

* In our project we use testing level like unit, system/intermigration and acceptance testing. To complete our testing levels, we have at least one full time independent test person (system/integration testing). However, with the budget constraints and timeline established; most testing will be done by the test manager with the development teams’ participation in our project.
* There will be some coding in the background of the web application we are working on. Developer and programmer will create the codes and development team will approve them. So, this is our unit testing level because in unit testing test a small software unit at a time, which is typically performed by the individual programmer who implemented the unit prior to Integration testing.
* In our web application system and integration testing is the next part after unit testing. First of all, we will divide functionality in different parts it's called integration testing. We will make those parts to work under program team, test team, Development team. System testing will combine these parts.
* In our web application test manager and development team leader will help the end user to perform the acceptance testing.

## Test Tools

The only test tools to be used are the Test project provided utilities and commands.

* Test project is an end-to-end automation tool that provides capabilities to automate Web, API applications. It is an open-source friendly tool built on top of Selenium and Appium.
* Test project Agent CLI is a cross operating system command line interface utility. It is made for execution of test packages generated using the Test project platform. Exported test packages are standalone textual YAML files.

## Meetings

At first a pre-project meeting will be arranged to analysis the pre-requirement specifications of the project. Project members will meet once in every week until the project is not completed. Here development team, development manager will find the evaluation of progress up to date and will identify error trends and problems as early as possible. The test team leader will also meet once in a week to fulfill the required testing processes. When the development team and the testing team will assure that all the requirements for the project have been fulfilled, a final meeting will be arranged with the project manager. Additional meeting will be held if anything is needed.

7.TEST CASES/TEST ITEMS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Name: Online pharmacy and emergency ambulance service providers | | | Test Designed by: Saifulla, Saifulla, Tania,  Momo,Shahriar ,Punom | | |
| Test Case ID: FR\_1 | | | Test Designed date:10.08.2021 | | |
| Test Priority (Low, Medium, High): Medium | | | Test Executed by: Saifulla, Tania, Momo,Shahriar,Punom | | |
| Module Name: Registration Session | | | Test Execution date:10.08.2021 | | |
| Test Title: verify with valid email, username  , password, date of birth and confirm password | | |  | | |
| Description: Test website registration page | | |  | | |
| Precondition (If any): User must have valid Gmail and password | | | | | |
| Test Steps | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Enter username 3. Enter Date of birth 4. Enter Gmail 5. Enter password 6. Confirm password 7. Click submit | Username: Anmol Hassan  Password: 12@3A  Gmail:  [Anmol12@gmail.com](mailto:Anmol12@gmail.com)  Date of Birth:  12/04/1996 | User should register into the application | | As expected, | Pass |
| Post Condition: User is validated with database and successfully register to account. The account session details are register in the database. | | | | | |

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| --- | --- | --- | --- | --- | --- |
| Project Name: Online pharmacy and | | | TestDesigned by:Saifulla,Tania, | | |
| Test Case ID: FR\_2 | | | Test Designed date:10.08.2021 | | |
| Test Priority (Low, Medium, High): Medium | | | Test Executed by:Saifulla,Tania,  Momo,Shahriar,Punom | | |
| Module Name: Logout Session | | | Test Execution date:10.08.2021 | | |
| Test Title: Must be login, user logout, auto logout | | |  | | |
| Description: Test website logout page | | |  | | |
| Precondition (If any): User must have login, time delay (5 minutes) | | | | | |
| Test Steps | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. Website must be open 2. Enter logout | Press logout by user  Time delay (5 minutes) | User should login into the application | | As expected, | Pass |
| Post Condition: User is validated with database and successfully logout the account. The account session details are register in the database. | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Name: Online pharmacy and emergency ambulance service providers | | | Test Designed by:Saifulla,Tania,  Momo,Shahriar ,Punom | | |
| Test Case ID: FR\_3 | | | Test Designed date:10.08.2021 | | |
| Test Priority (Low, Medium, High): Medium | | | Test Executed by:Saifulla,Tania,  Momo,Shahriar,Punom | | |
| Module Name: Payment Session | | | Test Execution date:10.08.2021 | | |
| Test Title: Login | | |  | | |
| Description: Test website payment page | | |  | | |
| Precondition (If any): User must have valid account | | | | | |
| Test Steps | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Enter login 3. Enter payment 4. Cash on payment 5. Online payment 6. Click submit | Cash on payment:  Scanning data with QR  Online payment:  Master Card, Visa Card, bkash, nagad, rocket | User should login into the application | | As expected, | Pass |
| Post Condition: User is validated with database and successfully payment for the account. The account session details are register in the database. | | | | | |

# 8.ITEM PASS/FAIL CRITERIA

The initial group of distributors will be sent in re-allocated sales data for a month. If the new EDI data balances with the old ZIP/FAX data received in parallel, the case process will be finished. The sale administration team will be satisfied if the data is valid. The initial set of distributors will be turned on and all parallel processing for those accounts will be turned off.

# 9.TEST DELIVERABLES

* Unit test plans
* Control flow test plan
* Integration test plan
* System Test plan
* Acceptance test plan
* Regression testing
* Prototypes
* Identification error reports and summaries
* Report Discussion
* Test logs and turnover reports

# 10.STAFFING AND TRAINING NEEDS

We are working total 20 member in our project teams. Project manager, tester, Developer and project planner. For good quality ensure all team member need training.

First of all,

The developers and tester(s) will need to be trained on the basic operations of the system interface and communications process then train them how testing

design, test cases, test data and prepare all reports. The project team need training how to handling the hole team work.

The project member will require training on the new interface and project.

# 11.RESPONSIBILITIES

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | TM | PM | DEV Team | Test Term | Client |
| Unit Test Plan | X |  | X | X |  |
| Control Flow Test Plan | X |  | X | X |  |
| Integration Test Plan | X |  | X | X |  |
| System Test Plan | X |  | X | X |  |
| Acceptance Test Plan | X | X |  | X | X |
| System Design Reviews | X | X | X | X | X |
| Detail Design Reviews | X | X | X | X |  |
| Test Procedures and rules | X | X | X | X |  |
| Regression Test Plan | X | X | X | X | X |
| Prototype |  |  | X | X | X |
| Report Discussion |  | X | X |  |  |

# 12.TESTING SCHEDULE

The following testing activities have been scheduled in the project plan. The project plan timetable specifies the particular dates and hours for each task. The people who are needed for each procedure are also listed in the project timeline and plan. The project manager, in collaboration with the development and test team leaders, will coordinate the individuals required for each assignment, including the test team, development team, management, and customer.

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# PLANNING RISKS AND CONTINGENCIES

We created a web application which provides the best services of medicine and ambulance for customer. But sometimes few problems occur due to some unknown reason. delivery man plays an important role for our project. If the delivery man can't deliver the medicine in time due to some unexpected reason, then the customers will have to face problems. And some problems can also cause the late arrival of ambulances. But the possibilities of these issues are very little.

# 14.APROVALS

|  |  |
| --- | --- |
| Development Manager | Kamran, Md. Saifulla |
| Test Manager | Turny , Tania Tasmim |
| Development Team Manager | Momo Farhabi Mostafa |
| Team Manager | Ahmed Shahriar |
| Project Manager | Punam Ghosh |
| Project Sponsor | Square Pharmaceuticals Limited |