

System Test Plans

Online Pharmacy

Version 2.0

D-Enigma (CS-01)

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1. Test Plan Identifier:

Master Test plan for Online Pharmacy Version 2.0 for Phase 1

2. Introduction

System Test Plan is a comprehensive document which covers the different types of testing that our website Online Pharmacy will go through.

This document identifies test items depending upon the features that are to be tested for the Online Pharmacy. This document contains all the test which will be done on the first phase (out of three phases) of the development of Online Pharmacy.

Intended Audience will be the client and Test Team. This document should be read in its entirety to clarify the procedure that needs to be followed for the testing purposes.

Since we no real budget, everything we do will have to require very little monetary value.

Due to budget constraint we will not be able to deployment testing on a real server of the Online Pharmacy for this stage. But we hope that we will be able to do Deployment testing for 2nd and 3rd stages. In addition to this, due to absence of an Apple device in our group, we will not be able to test this for an Apple device. Also since there are several Linux distros, we will not be able to test on all of them but we will test it on the more popular once.

3. Test Items

As mentioned earlier this is document contains the test plans for the first phase of Online Pharmacy. As part of the 1st Phase following modules will be tested:

- Entire Platform (Version 1)
- Seller Portal (Version 1)
- Buyer Portal (Version 1)
- Admin Portal (Version 1)

4. Features to be tested

| Feature ID | Title | Precondition/ Assumption | Description | Input Values | Expected Output Values |
|------------|-----------------------------|--|--|--|---|
| #BP_01 | User Registration | Null | This test case checks that the entry of the user is getting properly saved in the database such that the password and the username which he/she enters during the registration successfully works during log in. | Valid Registration Details (Name, Address, Phone No, Email ID, etc.) | 1) If user enters valid details, he/she should get registered i.e. his details should get stored in database and he/she should get redirected to the Login Page. 2) If user enters invalid details, he/she should be promoted to enter the correct details. |
| #BP_02 | Log In | The User is already registered but logged out. | This test case checks that when the entries (username and password) are correct then only the user is able to proceed else he/she will have to change entries. | Valid Log In details (Username and Password) | 1) If user enters the valid details, he/she should get logged in and get redirected to the home page. 2) If user enters wrong information he/she should be prompted to enter correct detail. |
| #BP_03 | Checking data in My Profile | The User is already logged in. | This test cases verifies data from the database whether correct details have been displayed or not. | User clicks the link of his/her profile. | User's data should be displayed. |
| #BP_04 | Edit profile | The User is already logged in. | This test case changes all the entries which can be changed and checks if corresponding changes have been made in the database or not. | User enter valid data in the fields he wants to change. | 1) If the user enters valid detail in the fields he/she wants to change, all the changed field should get changed in the database and the unchanged fields should remain unchanged. 2) If the user enters invalid details, he/she should be given a message that incorrect details have been entered and the database should remain unchanged. |
| #BP_05 | Searching OTC products | OTC products are present in the database. | This test case will check that the searching is working correctly in for | User enters the valid name of OTC | 1) If the user enters correct OTC product name, the search result |

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| | | | the user, when he/she enters an OTC product. | product. | page should be displayed. 2) If the user enters wrong term, a message should be displayed with no result found. |
| #BP_06 | Searching Non-OTC products | Non-OTC products are present in the database. | This test case will check that the searching is working correctly in for the user, when he/she enters a non-OTC product. | User enters the valid name of Non-OTC product. | 1) If the user enters a correct non-OTC product name, the user would be asked to present a prescription. 2) If the user enters an incorrect term, the user will be shown a message saying no result found. |
| #BP_07 | Nearest Pharmacy Algorithm Checking | The user is already logged in and he/she has already entered his/her preferred address. Pharmacies have registered on the platform. | This test case will check whether the pharmacies which are displayed to user are nearest ones to him/her or not. | User selects to display a product's page. | The nearest pharmacy to user should get listed on the product's page. And the user should get the option to buy the product from anyone of them. |
| #BP_08 | Cart Addition /Removal /Modification | The user is already logged. In case of cart removal/modification, the product is already present in the cart. | This test case will check whether the items are getting added/modified/removed correctly or not. | User adds/removes/modifies the products in cart. | The product should get added/removed/modified in the cart. |
| #BP_09 | Cart Integrity | Null | This test case will check whether the items remain stored even after the user logs out or not. | User logs out after making changes in the cart. | The changes should get stored in the database and the cart should remain same when the user logs in again. |
| #BP_10 | Upload Prescription | The user is already logged in. | This test case checks whether the uploaded image is being saved in the database in the correct account or not and is visible later or not. | User uploads a picture of prescription and gives his/her preferences regarding the order. | The order with prescription should get updated in the user's database. |
| #BP_11 | Prescription Algorithm Checking | The user is already logged in and he/she has already entered his/her preferred address. Pharmacies are registered on the platform. | Then the test would verify whether the prescription request is reaching the nearest five pharmacies or not. | Prescription order has been entered by the user into the system. | The prescription Order should get updated in the accounts of 5 pharmacies nearest to the user. |
| #BP_12 | Buy Now Option | The user is logged in. | This option will check whether the user is able to directly buy a particular product. | The user selects a buy now option of a particular | The product should get added to the cart and the user should be redirected the cart page from where |

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| | | | | product. | he/she can finalise the order. |
| #BP_13 | Check Order Log | The user is logged in. | This test case will check the whether all the orders are listed or not. | The user clicks on view all orders. | The user should get a history of all the order he or she has placed and if he/she hasn't placed any order, no order should be displayed. |
| #BP_14 | Cancel order | The Order is already placed. | This test case will check that the entry of that order is marked as cancelled on both the user and seller end. | The user cancels an order. | The order should be marked as cancel in user's account and also in the seller's account. Seller should also get a message saying that the order has been cancelled. |
| #SP_01 | Pharmacy Registration | We assume that the pharmacy is not uploading any harmful or indecent files. | This test case checks whether the pharmacy has uploaded the required documents along with all the details. This test case also checks that all the details are getting properly saved in the database such that the password and the username which pharmacy enters during the registration successfully works during log in. | Valid Registration Details (Name, Address, Phone No, Documents, Registration IDs, Email ID, etc.) | 1) If user enters valid details, he/she should get registered i.e. his details should get stored in database temporarily and his/her details should be sent to Admin. User should also be redirected to login page but he should not be able to enter products to his/her inventory. 2) If user enters invalid details, he/she should be prompted to enter the correct details. |
| #SP_02 | Log In | The pharmacy is already registered. | This test case checks that when the entries (username and password) are correct then only the user is able to proceed else he/she will have to change entries. | Valid Log In details (Username and Password) | 1) If user enters the valid details, he/she should get logged in and get redirected to dashboard. 2) If user enters wrong information he/she should be prompted to enter correct detail. |
| #SP_03 | Product Inventory Formation | The pharmacy is logged in. | This test case checks that the particular products selected from the database should only add to the pharmacy's product database. | User selects product from the database to add to his/her inventory. | Products should get updated in his/her inventory and should get displayed in the search results of buyer. |
| #SP_04 | Adding a new Item to the database | The pharmacy is logged in. | This test case checks that when a pharmacist wants to add a new product to the database, his/her request should reach the admin. | Product requests a new product with its details. | The product along with its details and Seller information should be passed onto the administrator. |

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| #SP_05 | Reviewing order log | The pharmacy is logged in. | This test case will check the whether the data displayed is complete or not. | The user clicks on view all orders. | The user should get a history of all the order he or she has received and if he/she hasn't placed any order, no order should be displayed. |
| #SP_06 | My Profile | The pharmacy is logged in. | This test cases verifies data from the database whether correct details have been displayed or not. | User clicks the link of his/her profile. | User's data should be displayed. |
| #SP_07 | Edit Profile | The pharmacy is logged in. | This test case changes all the entries which can be changed and checks if corresponding changes have been made in the database or not. | User enter valid data in the fields he wants to change. | 1) If the user enters valid detail in the fields he/she wants to change, all the changed field should get changed in the database and the unchanged fields should remain unchanged. 2) If the user enters invalid details, he/she should be given a message that incorrect details have been entered and the database should remain unchanged. |
| #SP_08 | Pharmacy Prescription Order Acceptance | Pharmacy have received the prescription order. | This test checks whether the user gets a call from pharmacy or gets his/her cart filled depending upon the choice he/she made. | Pharmacy prescription order of a buyer. | 1) If the buyer chose to buy product through the website he/she should be sent a notification about the acceptance of his/her order and the items should get added to the cart. 2) If he/she chose the option of directly contacting the pharmacy, the pharmacy should contact the buyer and the order should get completed. |
| #AI_01 | Acceptance of Pharmacy | Pharmacy has entered it's credentials during registration | In this test the Admin accepts the Pharmacy and it gives permission to pharmacy for selling products on the platform. | User Data of Pharmacy | Pharmacy should be able to sell its product and it should appear on the buyer's interface as a seller once it is accepted by the Admin. |
| #AI_01 | Removal of Pharmacy | Pharmacy is already registered and accepted | In this test the Admin removes a Pharmacy from the platform. | | Pharmacy should not be able to access its account. The pharmacy should not appear on the buyer |

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| | | | | | interface. Although, its order log should remain in the database and if a user has purchased item from that pharmacy, the pharmacy should appear in its order log. |
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5. Features not to be tested

- When the user personal items are accessed without registering or logging in.
- Usability of Admin Interface.
- Performance of system on Mobile devices.

6. Approach

We will be following the proactive approach to testing i.e. Testing plans will be formed right after the requirement analysis stage and before the design and coding phases. This will help us in making the design and coding match the desirability.

Testing shall be done the testing team. Each test will be divided into two basic unit, one for frontend and one for backend. Both will work together and frontend team will check the consistency of frontend and the backend team will check the consistency of backend.

All the tests will be performed in one go and report will be generated. According to the test results the corrections and modifications will be made in the system.

7. Item Pass/Fail Criteria

A test case will be marked as "PASS" only when it produces the one of expected outcome given that the initial condition and input conditions are matched. In case expected outcome is not produced when given conditions are true, it will be marked as "FAIL".

Also, testers are not restricted to the initial condition, they may test these things outside of the conditions and report them in their report. This information will be used in making the product better but this will not affect the PASS/FAIL criteria of a test case.

8. Suspension criteria and resumption requirements

- Precondition/Assumption test cases required for a particular test case haven't passed. In such a scenario the testing activity will have to be suspended. The testing will be resumed once the precondition/assumption test case is corrected.
- Also in a case if testing leads to crashing of the whole system, the testing will be suspended until the system is back up again and the system stops crashing on that particular input.
- Also if a test case leads to situation where a risk having severity greater than 7 occurs, testing will be stopped and correction of that risk will be done before moving on.

9. Test deliverables

- Test Logs: It will contain the report of all the test cases and have their status along with comments and ratings.
- Test Summary Report: An overall summary of test done and some comments on the working of the system.

10. Testing tasks

11. Environmental needs

The system will be tested in following environments:

a) Browsers:

- Chrome (Version 60+)
- Opera (Version 49+)
- Internet Explorer (Version 11+)
- Edge (Version 41+)
- Firefox (Standard 56+)

b) Operating Systems

- Windows 10
- Windows 8
- Manjaro KDE 17.0
- Ubuntu 16.4
- Ubuntu KDE
- Fedora
- Kali Linux

c) Minimum Hardware requirements:

Computers with:

- Intel Pentium 4 or higher
- At least 100Mb of free Hard Drive Space
- At least 1Gb of RAM

12.Responsibilities

Testing will be done by Testing Leader and his/her team. Testing team will be divided into two units:

- Front-End : This unit will be responsible for testing the front end of Online Pharmacy
- Back-End: This unit will be responsible for testing the back end of Online Pharmacy.

Although the team is divided into two units, they will not be working separately, both will be working together on single system and will be giving their judgement on their respective parts. Testing Leader will be responsible for managing the testing and giving his/her input on the whole test.

There will also be a Support team which will be responsible for providing the testing team all the environmental needs.

13.Schedule

Executing a test case should take somewhere between 5-10 minutes.

In total there are 25 test cases which amounts to a maximum time of 250 minutes.

We have 7 Operating Systems and 5 Browsers which amounts to total of 35 different testing scenarios.

So, in total testing should take a maximum of 8750 minutes.

Also considering that there will several similar scenarios, so this time should come down considerably.

The testing team should be executing around 1-2 scenario per day.

This implies testing in all should take somewhere 20-25 days.

14.Approvals

Approvals for all the test plans will first go through the testing leader. Once the testing Leader passes all the test plans. They will be passed to team leader who will confirm the testing plans.

In case of testing reports and logs, the testing leader's approval will be final.