

TEST PLAN

for

Online Sales Portal

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1 Test Plan Identifier

This document describes the framework and approach that has to be used for Frontend and backend testing for OSP application version 1.0

2 References

IEEE-829 Document provided in the lab.

3 Introduction

This is a Test Plan for Online Sales Portal. This test plan consists of the test steps that are needed to be performed along with the workflow of how these tests will be conducted. Its objective is to communicate project-wide quality standards and procedures. This document mainly addresses the various features that will be tested. The document then lists down the various scenarios that can arise for each of the mentioned features.

The primary motive of this plan is to ensure that at the end of the testing process, the software performs all the tasks as expected. It will also ensure that the software never goes to an inconsistent state or crashes unexpectedly.

This test plan for website browser testing also supports the following objectives:

- To define the tools to be used throughout the testing process.
- To communicate to the responsible parties the items to be tested, set expectations
- To define how the tests will be conducted.

4 Test Items (Functions)

The systems to be tested include the frontend customer-facing website along with the back-end Online Sales Portal's admin platform.

These systems should be tested in the latest stable versions of Chrome, FireFox and Microsoft Edge.

The systems should be tested on both a Windows and Linux machine.

5 Software Risk Issues

There are some inherent software risks such as such as :

- Crashing of the database provided by MySQL.
- End of support from MySQL
- Some functions are complex which may rupture the normal flow of the program.

6 Features to be Tested

Features to be tested include the following:

1. Sign-up

- Display of Message if Signup is Successful.
- Notification in email on successful Sign Up.

2. Login

- Redirection to Dashboard on successful Login.
- Display of Message if Login is unsuccessful.

3. Customer

- As a Customer, navigating the store.
- As a Customer, adding items to a shopping cart.
- As a Customer, removing items from a shopping cart.
- As a Customer, completing an order cycle.
- As a Customer, negotiating the price of the item.
- As a Customer, upload details regarding an item to sell.

4. Manager

- As a Manager, managing categories of items in the portal.
- As a Manager, Review items and reject items of poor quality.
- As a Manager, Help negotiations - talk to buyer and seller to assist with delivery logistics

7 Features not to be Tested

Payment , Since a third party application is used and already used by many it is considered stable.

8 Approach (Strategy)

Presently, only the unit testing is being done,all the functions and modules will be tested individually.The software is executed for various scenarios and then the output produced is cross-checked with the theoretical output.

8.1 Unit Testing

UNIT test cases are just related to the code level things like bad syntax, any logic errors or to try out the testing of any particular function or code modules. UNIT testing comprises testing of all the classes used and the frontend of our website. Unit test is there to test the validity of the program's correctness.

8.1.1 Testing the Frontend

In this part we will be testing the frontend of our website with cross checking with all the feature cases as we have expected and the design of our website screen is correct or not. Then after that manually entering values for the login and other features.

8.1.2 Testing the Backend and Database

Backend consists of all parts of coding to receive and the data so it will test all the methods and modules in classes used. We make a testing class for each of the backend classes, the test class has the unit testing methods for each of the individual methods in the classes. The output generated will be cross checked with the expected output. Most of the database related things are done in the backend like the database queries and updates.

9 Item Pass/Fail Criteria

All core functionality of the systems should function as expected and outlined in the individual test cases. There must be no critical defects found and an end user must be able to complete a purchase cycle successfully. Most of the test cases should pass and no failed cases should be crucial to the end-user's ability to use the application.

10 Suspension Criteria

Testing should be paused immediately if either system experiences login issues or failure in any basic Create, Read, Update and Delete actions.

11 Test Deliverables

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

13 Environmental Needs

1. There are no specific requirements, we need an active email and a working internet connection and a browser while testing the software.
2. The test site must be populated with test data including a variety of products with different prices. Test mode should be enabled for the backend of Online Sales Portal.
3. Each part which requires more than one user should be tested by creating Some dummy users and items.

14 Staffing and Training Needs

1. Testing should be done by a team. The team should conduct testing on each system. The testers assigned should have basic knowledge of the Online sales Portal.
2. Developers need to learn web development and should have knowledge of python and Django. The developers need to be trained with web development.
3. While providing the software to other parties the operating staff is needed to be trained with all the working features of software.
4. Also one team is needed for installing the hardware setup required and to do a practical demonstration of the working of Online Sales Portal after final installation.

15. Schedule

The first test of sets will be done before the final completion of the codebase. To ensure no bugs remain. A final set of tests will be done a day prior to the submission of the code.

16 Planning Risks and Contingencies

1. If the first round of testing is not completed, it could delay bug fixes and final testing.
2. If this happens, The failed tests will be worked upon to modify the codebase before final testing.
3. Also if the testers don't have a basic understanding of the Online Sales Portal, testing could be delayed or not conducted properly.

17 Approvals

The test manager and product manager both must agree on completion of the testing project and determine when it's ready to proceed to the next step.

