1. Introduction

The goal of this document is to develop a test plan for the Online Shopping Store webpage, Dollar Days. This document defines all the procedures and activities required to prepare for testing the functionalities to buy bulk goods for non-profit organizations, businesses, and Schools.

      2.  Objectives

* The objectives of the test plan are to define the activities to perform testing, define the test deliverables documents and to identify the bugs/issues and get fixed before go-live.

3, Features to be tested

      The following list describes the features to be tested:

Search bar:

It is essential to test the search feature and make it easier for customers to locate products quickly without much hassle.

Is the search available based on the product name, brand name, etc.,

Are different sort of options available based on parameters such as price, brand, reviews/ratings, and more?

What is the ideal number of results to display per page?

For multi-page results, are there options available to navigate between them?

    It is important here to note that the customer can search for a product right on the homepage or from any of the interior pages. So

Cart:

Shopping carts are one of the key features of an online shopping website, and this requires thorough testing. It allows the customers to easily select and store multiple items in their shopping cart and purchase them all at once. Among some of the main test cases which should be part of testing a shopping cart include –

Add products to the shopping cart

Check the display of product information, including image, is correct in the shopping cart.

Click on a product in shopping cart to go to the product page.

Adjust quantities of product in the shopping cart.

Option to remove the product from the shopping cart.

Check relevant messages displayed if no items are in the shopping cart.

Check discounts, taxes and delivery costs are correct (as applicable) in the shopping cart.

If minimum order value required for free delivery, check adding sufficient product value triggers the free delivery option.

Check subtotal adds up correctly.

Add a valid discount code/coupon code (if applicable) and check the discount is applied correctly.

Add an invalid discount code (if applicable) and check the correct message displayed to the user.

Check any links to information pages on delivery, returns, etc. open in a new tab.

Click Checkout or Pay Now to process to the Checkout process.

Audience

Project team members perform tasks specified in this document and provide input and recommendations on this document.

Project Manager Plans for the testing activities in the overall project schedule, reviews the document, tracks the performance of the test according to the task herein specified, approves the document, and is accountable for the results.

 The stakeholders’ representatives and participants may take part in the UAT test to ensure the business is aligned with the results of the test.

Technical Team ensures that the test plan and deliverables are in line with the design, provides the environment for testing and follows the procedures related to the fixes of defects.

 Business analysts will provide their inputs on functional changes.

Stakeholders

The following people within Soft-Tech are considered stakeholders in this test process.

Test Assumptions:

Exploratory Testing would be carried out once the build is ready for testing. Performance testing is not considered for this estimation.

 All the defects would come along with a snapshot JPEG format

  The Test Team will be provided with access to Test environment

  The Test Team assumes all necessary inputs required during Test design and execution will be supported by Development/BUSINESS ANALYSTs appropriately.

  Test case design activities will be performed by QA Group

  Test environment and preparation activities will be owned by Dev Team

  Dev team will provide Defect fix plans based on the Defect meetings during each cycle to plan. The same will be informed to Test team prior to the start of Defect fix cycles

 BUSINESS ANALYST will review and sign-off all Test cases prepared by the Test Team prior to the start of Test execution.

 The defects will be tracked through only. Any defect fixes planned will be shared with Test Team prior to applying the fixes on the Test environment

 The project Manager/BUSINESS ANALYST will review and sign-off all test deliverables

  The project will provide test planning, test design and test execution support

  Test team will manage the testing effort with close coordination with Project PM/BUSINESS ANALYST

 Project team has the knowledge and experience necessary, or has received adequate training in the system, the project and the testing processes.

 There is no environment downtime during test due to outages or defect fixes.

Test Principles:

Testing will be focused on meeting the business objectives, cost efficiency, and quality.

 There will be common, consistent procedures for all teams supporting testing activities.

  Testing processes will be well defined, yet flexible, with the ability to change as needed.

 Testing activities will build upon previous stages to avoid redundancy or duplication of effort.

 Testing environment and data will emulate a production environment as much as possible.

 Testing will be a repeatable, quantifiable, and measurable activity.

  Testing will be divided into distinct phases, each with clearly defined objectives and goals.

Test Data:

To get consistent results QA uses test data which is verified and tested.

Test Criteria:

This section describes the overall approach of the testing which ensures that each feature and the combination of the features are adequately tested. The major tasks that are used here

Unit testing:

 Unit testing is a method of testing that verifies the individual units of source code is working properly. The goal of unit testing is to isolate each part of the program and show that the individual parts are correct.

Positive Testing:

Positive Testing is a testing type which verifies that the application under test is working for a positive set of inputs.

In other words, positive testing is a testing that is performed within the boundaries and this testing checks that the product /application is behaving as per the specification document with a valid set of test data.

Exploratory test:

the purpose of this test is to make sure critical defects are removed before the next levels of testing can start.

this exploratory testing is carried out in the application without any test scripts and documentation

Functional Testing:

Functional testing will be performed to check the functions of application. The functional testing is carried out by feeding the input and validates the output from the application. this test focuses on validating the business logic. It allows the end users to complete one final review of the system prior to deployment.

User Acceptance Testing(UAT):

this test focuses on validating the business logic. It allows the end users to complete one final review of the system prior to deployment. the UAT is performed by the end users After all other levels of testing (Exploratory and Functional) are done. Only after this test is completed the product can be released to production.

Test Deliverables:

1. Test plan will be delivered by Test lead and reviewed by Project manager/Business Analyst’s
2. Functional Test Cases will be delivered by Test team and reviewed by Business Analyst’s
3. Logging defects in Rally by Test team and reviewed by Test Lead.
4. Daily/weekly status report delivered by Test team and reviewed by Test lead / Project manager.
5. Test closure report will be delivered by Test lead and reviewed by Project manager.

Defect Management:

The defects will be tracked through Rally only. The technical team will gather information on a daily basis from Rally, and request additional details from the Defect Coordinator. The technical team will work on fixes.

• It is the responsibility of the tester to open the defects, link them to the corresponding script, assign an initial severity and status, retest and close the defect; it is the responsibility of the Defect Manager to review the severity of the defects and facilitate with the technical team the fix and its implementation, communicate with testers when the test can continue or should be halt, request the tester to retest, and modify status as the defect progresses through the cycle; it is the responsibility of the technical team to review RALLY on a daily basis, ask for details if necessary, fix the defect, communicate to the Defect Manager the fix is done, implement the solution per the Defect Manager request.

Defects found during the testing will be categorized according to the bug reporting tool RALLY and categories are:

Severity and their impact:

 1 (Critical) - It causes the application to hang and require re booting the system

2 (High) - It causes a lack of main program functionality with workaround

3 (Medium -This bug prevents other area of the product from being tested.However, the other areas can be independently tested.

4 (Low) - There is insufficient or unclear error message, which has minimum impact on product use.

5(Cosmetic) – There is an insufficient or unclear error message that has no impact on product use

Test Design Process:

The tester will understand each requirement and prepare corresponding test case to ensure all requirements are covered.

• Each Test case will be mapped to Requirements.

• Each of the Test cases will undergo review by the BUSINESS ANALYST and the review defects are captured and shared to the Test team. The testers will rework on the review defects and finally obtain approval and sign-off.

• During the preparation phase, tester will use the prototype, use case and functional specification to write step by step test cases.

Sign-off for the test cases would be communicates through mail by Business Analyst’s.

• Any subsequent changes to the test case if any will be directly updated in RALLY.

Test Execution Process:

Once all Test cases are approved and the test environment is ready for testing, tester will start a exploratory test of the application to ensure the application is stable for testing.

• Each Tester is assigned Test cases directly in RALLY

• Testers to ensure necessary access to the testing environment, RALLY for updating test status and raise defects. If any issues, will be escalated to the Test Lead and in turn to the Project Manager as escalation.

• If any showstopper during exploratory testing will be escalated to the respective development team for fixes.

• Each tester performs step by step execution and updates the executions status. The tester enters Pass or Fail Status for each of the step directly in RALLY.

• Tester will prepare a Run chart with day-wise execution details RALLY

• If any failures, defect will be raised as per severity guidelines in RALLY tool detailing steps to simulate along with screenshots if appropriate.

• Daily Test execution status as well as Defect status will be reported to all stakeholders.

• Testing team will participate in defect triage meetings in order to ensure all test cases are executed with either pass/fail category.

• If there are any defects that are not part of steps but could be outside the test steps, such defects need to be captured in RALLY and map it against the test case level or at the specific step that issue was encountered after confirming with Test Lead.

• This process is repeated until all test cases are executed fully with Pass/Fail status.

• During the subsequent cycle, any defects fixed applied will be tested and results will be updated in RALLY during the cycle. As per Process, final sign-off or project completion process will be followed

Test Environment:

Dollar days’ webpage – SEARCH BAR MODULE, CART MODULE

A windows environment with Internet Explorer 8, 9 and 10, and with Firefox 27.0, as well as Google Chrome32.0 and later should be available to each test

Approvals: