

TEST PLAN

Best Buy

Version: 1.0

Created 17/09/2018

Table of Contents

1. Objectives	3
1.1. Purpose	3
2. Requirements.....	3
2.1. Functional Testing	3
2.2. Automation Testing.....	3
3. Test Strategy.....	3
3.1. Testing Types	3
3.1.1.Exploratory Testing.....	3
3.1.2.Functional Testing	4
3.1.3.Automation Testing.....	4
3.2. Tool.....	4
4. Resources.....	5
5. Exit criteria	6
6. Validation and Defect Management.....	6
6.1. Defect Tracking.....	8
7. Risk Test and Mitigation Plan	8
8. Approvals.....	10

1. Objectives

1.1. Purpose

This document describes the plan for testing of BestBuy web page.

This test plan documents supports following objectives:

- List the recommended test requirements.
- Recommend and describe the testing strategies to be employed.
- Identify the required resources and provide an estimate of the test efforts.

2. Requirements

The list below identifies functional requirements that have been identified as targets of testing. This list represents what will be tested.

2.1. Functional Testing.

- Web Page shall to have a search button for search any products on the catalog.
- Web Page shall to have a main options bar. (Products, Brands, Deals, Services, Account).
- Web Page shall to have a cart for make shopping.
- Web Page shall to have a create account and sign in log page.
- For make a shopping user should be logged.

2.2. Automation Testing.

- Script shall to validate negative and positive scenarios when it is creating account.
- Script shall to sign in log page and search items.
- Script shall to check elements into web page.

3. Test Strategy

The previous on Test Requirements described what will be tested, this describes how it will be tested.

3.1. Testing Types

3.1.1. Exploratory Testing.

The purpose of this test is to make sure critical defects are removed before the next levels of testing can start, first level navigation, dealer and admin

modules, this exploratory testing is carried out in the application without any test scripts and documentation at the beginning.

3.1.2. Functional Testing

Testing of the application should focus on any target requirements that can be traced direct to business functions and business rules. The goals of these tests are to verify data acceptance, processing and the appropriate implementation of the business rules. This type of testing is based black box techniques, verifying the application by interacting with the application and analyzing the output.

3.1.2.1. Test Objective

Ensure proper application navigation, data entry and processing.

3.1.2.2. Technique

Execute each test case using valid an invalid data to verify expected results when valid data is used and appropriate error/ warning messages are displayed when invalid data is used.

3.1.3. Automation Testing.

Automated testing ensure that the product functions as designed directly from customer requirements. The testing goal is to identify the quality of the structure, content, accuracy and consistency, some response times and latency, and performance of the application as defined in the project documentation.

3.1.3.1

Execute each test case using valid an invalid data to verify expected results when valid data is used and appropriate error/ warning messages are displayed when invalid data is used.

3.2 Tools

	Tool	Version
Test Management	TestRail	TBD
Test Design	TestRail	TBD

Defect Tracking	TestRail, GitHub	TBD
Functional Testing	TestRail	TBD
Automation Testing	Selenium, GitHub	TBD

4. Resources

This section presents the recommended resources for testing of the Best Buy web page, their responsibilities and knowledge.

Roles	Resources	Responsibilities
Test Manager	Homer Simpson	Provides management Responsibilities: <ul style="list-style-type: none"> • Provide technical direction • Acquire appropriate resources • Management reporting
Test Engineer	Bart Simpson Lisa Simpson	Identifies, prioritizes, Implements and executes test cases. Responsibilities: <ul style="list-style-type: none"> • Generate test plan • Execute tests • Log results • Recover from errors • Document defects

5. Exit Criteria

Exit Criteria	Test Team	Technical Team	Notes
100% Test Scripts executed			
95% pass rate of Test Scripts			
No open Critical and High severity defects			
95% of Medium severity defects have been closed			
All remaining defects are either cancelled or documented as Change Requests for a future release			
All expected and actual results are captured and documented with the test script			
All test metrics collected based on reports from TestRail			
All defects logged in TestRail			
Test Closure Memo completed and signed off			
Test environment cleanup completed and a new back up of the environment			

6. Validation and Defect Management.

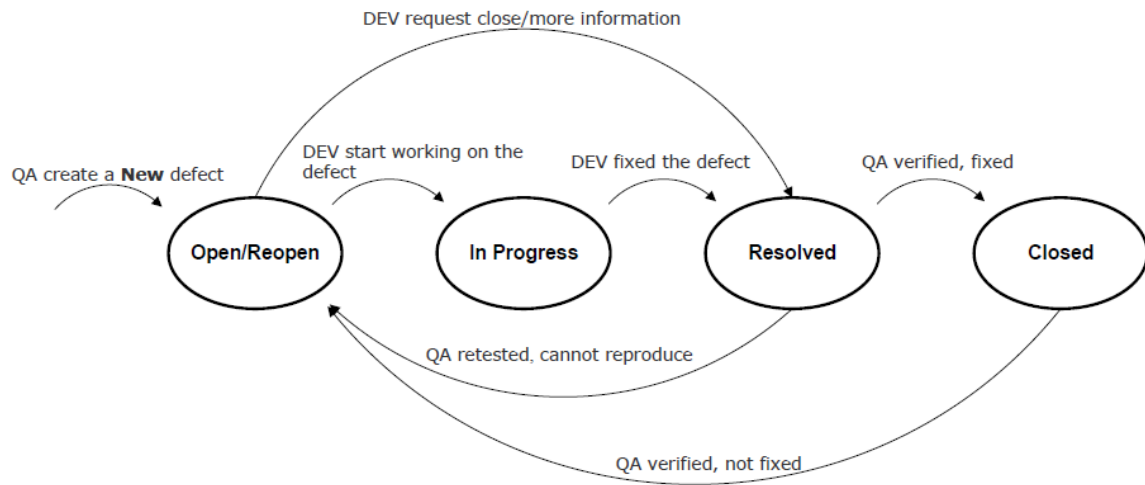
- The defects will be tracked through TestRail. The technical team will gather information on a daily basis from TestRail, and request additional details from the Defect Coordinator. The technical team will work on fixes.
- It is the responsibility of the tester to open the defects, link them to the 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 TestRail 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 next table.

Severity	Impact
1 (Critical)	<ul style="list-style-type: none">▪ This bug is critical enough to crash the system, cause file corruption, or cause potential data loss▪ It causes an abnormal return to the operating system (crash or a system failure message appears).▪ It causes the application to hang and requires re-booting the system.
2 (High)	<ul style="list-style-type: none">▪ It causes a lack of vital program functionality with workaround.
3 (Medium)	<ul style="list-style-type: none">▪ This Bug will degrade the quality of the System. However there is an intelligent workaround for achieving the desired functionality - for example through another screen.▪ This bug prevents other areas of the product from being tested. However other areas can be independently tested.
4 (Low)	<ul style="list-style-type: none">▪ There is an insufficient or unclear error message, which has minimum impact on product use.
5 (Cosmetic)	<ul style="list-style-type: none">▪ There is an insufficient or unclear error message that has no impact on product use.

6.1 Defect Tracking



7. Test Risks and Mitigation Plan

Risk	Prob.	Impact	Mitigation Plan
SCHEDULE Testing schedule is tight. If the start of the testing is delayed due to design tasks, the test cannot be extended beyond the user acceptance testing scheduled start date.	High	High	<ul style="list-style-type: none"> The testing team can control the preparation tasks (in advance) and the early communication with involved parties.
RESOURCES Not enough resources, resources on boarding too late (process takes around 15 days).	Medium	High	Holidays and vacation have been estimated and built into the schedule; deviations from the estimation could derive in delays in the testing.
DEFECTS Defects are found at a late stage of the cycle or at a late cycle; defects	Medium	High	Defect management plan is in place to ensure prompt communication and fixing of issues.

Risk	Prob.	Impact	Mitigation Plan
discovered late are most likely be due to unclear specifications and are time consuming to resolve.			
SCOPE Scope completely defined	Medium	Medium	Scope is well defined but the changes are in the functionality are not yet finalized or keep on changing.
Natural disasters	Low	Medium	Teams and responsibilities have been spread to two different geographic areas. In a catastrophic event in one of the areas, there will resources in the other areas needed to continue (although at a slower pace) the testing activities.
Non-availability of Independent Test environment and accessibility	Medium	High	Due to non-availability of the environment, the schedule gets impacted and will lead to delayed start of Test execution.
Delayed Testing Due To new Issues	Medium	High	<p>During testing, there is a good chance that some “new” defects may be identified and may become an issue that will take time to resolve.</p> <p>There are defects that can be raised during testing because of unclear document specification. These defects can yield to an issue that will need time to be resolved.</p> <p>If these issues become showstoppers, it will greatly impact on the overall project schedule.</p> <p>If new defects are discovered, the defect management and issue management procedures are in place to immediately provide a resolution.</p>

8. Approvals

The Names and Titles of all persons who must approve this plan.

Signature:	
Name:	
Role:	
Date:	

Signature:	
Name:	
Role:	
Date:	