

BEST BUY - END 2 END TEST PLAN

ChangeLog

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1 Introduction

This document contains the plan for testing some of the main functionalities on Best Buy website. It describes the approaches and methodologies that will be applied during tests. It also includes the objectives, criterias (entry and exit) and approach that will be used.

Those items can be described as:

- Testing strategies to be used;
- Execution strategy;
- Testing objectives;
- Reporting and evaluating results;

1.1 Scope

1.1.1 In Scope

Mainly through black box testing, targeting UI and validating data output available as reports.

Functions on scope are:

- Login;
- Search (filtering and sorting);
- Bookmarking items;
- Cart (adding, removing and changing amount);
- Basic security field validation

1.1.2 Out of Scope

Everything else than what is described on item 1.1.1 above.

1.2 Quality Objective

The objective of the testing is to assure that the system works properly on all functions listed on Scope (1.1), ensuring through concise and readable reports that the functionalities met their expectations detailed in this document.

2 Test Strategy

2.1 Overview

The strategy adopted is a black box technique, starting with manual exploratory tests to evaluate how the system behaves in order to later automate those UI tests generating this way outputs (results) that can be evaluated by the QA team, ensuring that the application behave as described on Test Cases.

2.2 Test Approach/Requirements

Requirements will be sent by client.

Tests will run on production website.

QA will start exploratory black box tests by interacting with UI of the application based on client requirements, writing along TCs that will be executed manually first and after automated.

Test results will be available as reports once TCs are automated.

Automation must be done using Cucumber and WebdriverIO tools.

Report should clearly generate metrics relevant to proving effectiveness of created automation.

2.3 Test Cases

2.3.1 Automated TCs

Background:

Given I am on the home page

Scenario Outline: Performing a basic login and validating user

When I click Account menu link

And I click Sign In button on home

And I fill Email Address input with <email>

And I fill Password input with <password>

And I click Sign In button

And I click Account menu link

And I click Account Home link

Then I validate username is <username> and log it to console

Examples:

email	password	username	
erick@oktana.io	Oktana2019	Test	

Scenario Outline: Performing a search operation and adding items to Saved Items section

When I fill Search input with <searchItem>

And I click Search button

And I should see a list of search results

And I sort results by <sortBy>

And I log the first result to console

And I click Save link on first item

And I click Saved Items menu link
And I validate item is added to saved items and log it to console
Then I delete added item from Saved Items
And I validate list is empty

Examples:

searchItem	sortBy	
Xbox One X	Customer Rating	

Scenario Outline: Performing a search operation and adding items to Cart

When I fill Search input with <searchItem>
And I click Search button
And I should see a list of search results
And I sort results by <sortBy>
And I click Add to Cart button on first item
And I click Go to cart link on confirmation modal
Then I validate item <searchItem> is on cart
And I remove added item from cart
And I validate cart is empty

Examples:

searchItem	sortBy	
PlayStation 4 Pro	Price High to Low	

Scenario Outline: Performing search operation, adding items to Cart, increasing quantity and clearing cart after

When I fill Search input with <searchItem>
And I click Search button
And I should see a list of search results
And I click Add to Cart button on first item
And I click Go to cart link on confirmation modal
Then I validate item <searchItem> is on cart
When I change quantity amount to <qtAmount>
And I log price and savings
And I remove added item from cart
Then I validate cart is empty

Examples:

searchItem	qtAmount	
Chromecast	4	

Scenario Outline: Performing a search operation and validating filters on side-bar

When I fill Search input with <searchItem>
And I click Search button
And I should see a list of search results
And I sort results by <sortBy>
And I select <filterValue> on filters
Then I should log Price Drop for first item
And I should log Rating for first item

Examples:

searchItem	sortBy	filterValue	
Nintendo Switch	Best Selling	Price Drop	
Nintendo Switch	Best Selling	Top-Rated	

2.3.2 Manual TCs (includes security and negative tests)

Background:

Given I am on the home page

Scenario Outline: Performing a search operation without any data

When I leave Search input empty

And I click Search button

Then the search should NOT be performed

And I validate that I'm still on home page

Scenario Outline: Performing a search operation with more than the allowed 99 chars limit

When I fill Search input with <searchItem>

And I click Search button

Then the search should NOT accept the full sentence

Examples:

searchItem	
This is a search string with more than the allowed limit of ninety-nine characters on the search bar	

Scenario Outline: Performing a search operation with a single special char

When I fill Search input with <searchItem>

And I click Search button

Then the search should NOT bring any results

Examples:

searchItem
^

Scenario Outline: Performing a search operation with raw HTML data

When I fill Search input with <searchItem>

And I click Search button

Then the search should NOT format the HTML on the results

Examples:

searchItem
<h1>Title</h1>

Scenario Outline: Performing a search operation with URL encoded data

When I fill Search input with <searchItem>

And I click Search button

Then the search should NOT format the HTML on the results

Examples:

searchItem
%3Ch1%3ETitle%3C%2Fh1%3E

Scenario Outline: Performing a search operation with HTML encoded data

When I fill Search input with <searchItem>

And I click Search button

Then the search should NOT format the HTML on the results

Examples:

```
| searchItem |  
| &lt;h1&gt;Title&lt;/h1&gt; |
```

2.4 Entry and Exit Criteria

2.4.1 Entry Criteria

- The test environment (website) must be active and available;
- All necessary documentation, design and information should be available for testers;
- All the standard software tools must be successful installed and functioning properly;
- QA should understand the requirements
- QA should have knowledge on used tools

2.4.2 Exit Criteria

- Requirements coverage has been achieved;
- Automation outputs generated;

2.5 Test Completeness

- 100% test coverage
- All automated test scripts created
- All automated test scripts executed
- Reports successfully generated

3 Test Deliverables

3.1 Overview

- Test plan (this document)
- Manual test cases
- Automated test cases scripts

4 Resource & Environment Needs

4.1 Testing Tools

- Node.js (v8.15.1)
- GIT
- Any basic text editor

4.2 Test Environment

The minimum hardware requirements that will be used to test is

- macOS Mojave / Windows 8 (or higher)
- Chrome Browser (Version 73 or higher)