**Test Plan**

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| --- | --- |
| Project Name | Increase Item page coverage |
| Document Version | 1.0 |
| Document Owner | Praveen Kumar Sajja Rajasekaran |
| Reviewer | Mary Tenorlas |
| Approver | Abdul Munda |
| Concurrence | <Scrum Team Members> |

**Project Background**

The project is “Redesigning of Walmart.ca website” to improve User experience and increase online sales which in turn result in the revenue growth. This is targeted to done by improving the customer experience, product selection process and checkout process. The test coverage of the Item page on Walmart.ca website should be enhanced to sustain the frequent changes during the redesign.

**In** **Scope**

* Item page (for example, <https://www.walmart.ca/en/ip/intex-metal-frame-pool/6000166640889>) and its components.
* The flows to land on the item page listed below are in scope,
  + New Customer landing on the Item page.
  + Existing Customer landing on the Item page.

**Out of Scope**

* Login process
* Checkout process
* Product selection process
* Accessibility Testing

**Assumptions/Risks, Constraints and Dependencies**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Description** | **Type** | **Impact** | **Mitigation** |
| 1 | Environment (Website) not available or not functioning | Risk | High | Resolution within 24 hours |
| 2 | Availability of product considered for testing – Intex Metal Frame Pool | Assumption | Medium | Select another product for testing |
| 3 | Webpage cannot be tested in multiple combination all browsers, all operating systems and all browser versions | Constraint | High | Consider browsers, operating systems and browser versions with maximum hits on Walmart.ca site based on data analytics. |
| 4 | Access to all browsers, all operating systems and all browser versions as per data analytics | Dependency | High | Identify and set them up in Sprint 0/1. |

**Test Environment Requirements**

|  |  |  |
| --- | --- | --- |
| **Environment** | **Contact** | **Telephone No** |
| Praveen Sajja’s laptop | Praveen Kumar Sajja Rajasekaran | 647 624 2045 |
| Internet Connectivity | Rogers | 1 (855) 381-7834 |

The following web browsers and operating systems will be covered in testing.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Web Browser** | **OS** | **English** | **French** | **Comments** |
| Chrome | Windows 10 | Yes | NA | All ‘NA’ marked areas can be tested using the automation framework built with an update in the config file. Due to time constraints, it cannot be done. |
| Firefox | Windows 10 | NA | Yes |
| Internet Explorer | Windows 10 | NA | NA |
| Safari | Mac OS10 | NA | NA |

**Automated or Manual Tools**

* Javascript Programming language
* Selenium Webdriver Web automation tool
* Chromedriver Driver for Chrome browser
* Geckodriver Driver for Firefox browser
* Mocha Test framework
* Chai (and Chai as Promised) Assertion library
* Mochawesome Reporting plugin

**High Level Test Approach**

QA team will be responsible for Functional testing of 10-15 scenarios on Item page for the flows – New customer and Existing customer.

Common elements

* Support for English and French
* Automated test execution for test coverage

One of the key goals is to automate tests to run throughout the sprints with continuous integration to identify bugs at the earliest stages.

**System Testing**

* QA Team will focus on testing of the components such as image, slider, carousel, buttons, dialogs, etc., in different browsers.
* Validation of each scenarios will eb tested in both English and French language.
* Regression testing will be done using automated scripts on a regular basis throughout the sprints.

**Integration Testing** NA

**End to End Testing**

Automated end to end testing will be performed for the flow of new customer. Test cases will be identified by the QA team and reviewed by Product Owner.

**Performance Testing** NA

**Accessibility Testing** NA

**User Acceptance Testing**

* UAT will be carried out by Product Owner or Product Lead.
* UAT will be conducted on the Item page and its components.
* If a bug is detected, a comment will be added by the Product Owner or Lead.
* QA team will track the bugs in Jira.

**Test Data Management Strategy** NA – As there is one item page to be tested.

**Bug Management Strategy**

During the course of testing, defects will be raised using Jira as per the Defect Template. The bugs will be prioritized either as Critical, High, Medium or as Low.

**Test Metrics and Reporting**

Test Execution status and bug status will be reported in Jira with different dashboards.