**Test Strategy and Test Plan**

Project name: Website Testing

Product under test: Leading e-commerce website- http://automationpractice.com/

Version: v1.0

Date: 19/11/2019

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1. **Purpose**

The purpose of this Test Strategy is to define the overall approach that will be taken by the Test Team while testing the website <http://automationpractice.com/>.

The document clearly depicts the testing activities, roles and responsibilities, processes and practice to be followed for the Website Testing project.Test Items

1. **Test Items**

For each requirement, Product Owner will create the user story. For each user story, Test Engineer will create a table of test cases in the scope of the testing being planned.

In addition the Test Engineer will record any Test Items that cannot be tested by the test team.

1. **Test Levels**

System testing

User acceptance testing

1. **Test Types**

Functionality Testing

Performance Testing

Usability Testing

Compatibility Testing

1. **Approach**

All testing tasks will be conducted in line with the Agile model followed in the organization and in the support of software development activities.

Test Engineers will be responsible to link the required set of planned test cases to the user story picked up for any given sprint cycle.

1. **Environmental & infrastructure needs**

Hardware: Windows PC, Staging server setup, Production server setup

Software: Google Chrome browser, Mozilla FIrefox browser, Internet Explorer browser,

Automation infrastructure: Selenium WebDriver, TestNG jars, Maven software, Java Development Kit

Test repositories: Git and GitHub

1. **Test Deliverables**

The following artefacts will be produced during the testing phase:

*Test Plan*

*Test Schedule*, which describes the tasks, time, sequence, duration and assigned staff.

*Test Breakdown*, which includes the Test Scenarios, their priority and related number of Test Cases along with the defined estimates for time to write and execute the Test Cases.

*Test Cases*, which contains pre-conditions, test steps and expected and actual outcome of the tests. There will be positive and negative test cases.

*Periodic progress and metric update reports*

*Bug Reporting*

*Test Summary Reports*

1. **Entry Criteria**

Before Test Items are made available for the Test Team to test it’s expected that:

1. All test tools are available and test infrastructure are available for use.
2. Sprint Test Items development is complete.
3. The correct versions of the code have been deployed to staging environments.
4. Sanity and Unit tests have been completed by the developers.

1. **Exit Criteria**

For the Test Items to exit testing the following conditions will have to be met:

1. The Test Summary Report will be completed.
2. All planned testing activities have been completed to agreed levels.
3. All high priority bugs have been fixed, retested and passed.
4. Up to two minor bugs can remain, provided they must be fixed in the following release.
5. **Staffing and training needs**

Staffing**.**

Staffing levels for the test activities will be:

* 1 x Test Manager for the duration of test planning at 25% effort against plan.
* 1x Test Engineer for the duration of test execution at 100% effort against plan.

Training**.**

The project training needs will be assessed and defined by the Test Manager.

1. **Risk and contingencies**

Risk: Delays in delivering completed items from Development would impact test timelines and final Release quality

Impact: High

Contingency: Product Management and Development to advise of any delays and adjust Release Scope of Resources to allow the test activities to be performed.

Risk: Delays in the turnaround time for fixing critical bugs, which would require re-testing, could have an impact on the project dates

Impact: Medium

Contingency: Strong management of bug resolution would be required from Development to ensure bugs are fixed and available for re-testing in the scheduled time.

1. **Approvals**

The following people are required to approve this Test Strategy Document

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| --- | --- |
| **Approval By** | **Approval** |
| Test Manager |  |
| Product Owner |  |
| Development Lead |  |
| Project Manager |  |