**Team: Star of Sierra Leone**

**Quantum WebStore**

**Test Plan**

Version

2013/05/28

**Revision History**

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| --- | --- | --- | --- |
| **DATE** | **REV** | **AUTHOR** | **DESCRIPTION** |
| 5/29/2013 | A |  | First Draft |
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# 1. Introduction

The goal of this document is to develop a test plan for the Quantum WebStore. This document defines all the procedures and activities required to prepare for testing of the functionalities of the system. The objectives of the test plan are to define the activities to perform testing, define the test deliverables documents and to identify the various risks and contingencies.

## Involved in testing. Test Plan Objectives.

This Test Plan for the Quantum WebStore supports the following objectives:

* Define the activities required to prepare for and conduct System, Beta and User Acceptance testing.
* Communicate to all responsible parties the System Test strategy.
* Define deliverables and responsible parties.
* Communicate to all responsible parties the various Dependencies and Risks

# 2. Scope

## 2.1. Site functionality

The main purpose of Quantum WebStore is to provide capabilities of browsing and buying Quantum products. It provides also a plenty of additional functionality.

## 2.2. Security

Each client will need a username and password to login to the system.

# Test Strategy

The test strategy consists of a series of different tests that will fully exercise the Quantum WebStore. The primary purpose of these tests is to discover, check and verify the systems limitations and measure its full capabilities. A list of the various planned tests and a brief explanation follows below.

## 3.1. System Test

The System tests will focus on the behavior of the Quantum WebStore. User scenarios will be executed against the system as well as screen mapping and optional error message testing. Overall, the system tests will test the integrated system and verify that it meets the requirements defined in the requirements document.

## 3.2. Performance Test

Performance test will be conducted to ensure that the Quantum WebStore’s response times meet the user expectations and does not exceed the specified performance criteria. During these tests, response times will be measured under heavy stress and/or volume.

## 3.3. Security Test

Security tests will determine how secure the Quantum WebStore is. The tests will verify that unauthorized user access to confidential data is prevented.

## 3.4. Automated Test

A suite of automated tests will be developed to test the basic functionality of the Quantum WebStore and perform regression testing on areas of the systems that previously had critical/major defects. The tool will also assist us by executing user scenarios thereby emulating several users.

## 3.5. Stress and Volume Test

We will subject the Quantum WebStore to high input conditions and a high volume of data during the peak times. The System will be stress tested using twice the number of expected users.

## 3.6. Recovery Test

Recovery tests will force the system to fail in a various ways and verify the recovery is properly performed. It is vitally important that all payroll data is recovered after a system failure and no corruption of the data occurred.

## 3.7. Documentation Test

Tests will be conducted to check the accuracy of the user documentation. These tests will ensure that no features are missing and the content can be easily understood.

## 3.8. Beta Test

The Client will do beta tests of the Quantum WebStore and will report any defects found. This will subject the system to tests that could not be performed in our test environment.

## 3.9. User Acceptance Test

Once the Quantum WebStore is ready for implementation, the Client will perform User Acceptance Testing. The purpose of these tests is to confirm that the system is developed according to the specified Client requirements and is ready for operational use.

# Environment Requirements

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Windows requirements** | **Mac requirements** | **Linux requirements** |
| **Operating system** | Windows XP Service Pack 2+ Windows Vista Windows 7 Windows 8 | Mac OS X 10.6 or later | Ubuntu 10.04+ Debian 6+ OpenSuSE 11.3+ Fedora Linux 14 |
| **Processor** | Intel Pentium 4 or later | Intel | Intel Pentium 3 / Athlon 64 or later |
| **Free disk space** | 100 MB | | |
| **RAM** | 128 MB | | |

# 5. Test Schedule

* System familiarization 6/01/2013 - 6/15/2013
* System Test 6/16/2013 - 8/26/2013
* Beta Test 7/28/2013 - 8/18/2013
* User Acceptance Test 8/29/2013 - 9/03/2013

# 6. Control Procedures

## 6.1 Reviews

The project team will perform reviews for each Phase. (i.e. Requirements Review, Design Review, Code Review, Test Plan Review, Test Case Review and Final Test Summary Review). A meeting notice, with related documents, will be emailed to each participant.

## 6.2 Bug Review meetings

Regular weekly meeting will be held to discuss reported defects. The development department will provide status/updates on all defects reported and the test department will provide addition defect information if needed. All member of the project team will participate.

## 6.3 Change Request

If functional changes are required, these proposed changes will be discussed on the Scrum meeting. The team will determine the impact of the change and if/when it should be implemented.

## 6.4 Defect Reporting

When defects are found, the testers will complete a defect report on the defect tracking system. The defect tracking system is accessible by testers, developers & all members of the project team. When a defect has been fixed or more information is needed, the developer will change the status of the defect to indicate the current state. Once a defect is verified as fixed by the testers, the testers will close the defect report.

# 7. Functions To Be Tested

The following is a list of functions that will be tested:

* Accessibility
* Availability
* Compatibility
* Functional
* Ordering
* Navigation
* Performance
* Reliability
* Security
* Usability

**Remark**: Features and Functions Not to Test  
If time does not permit, some of the low priority test cases may be dropped.

# 8. Resources and Responsibilities

The Test Manager and Product Owner will determine when system test will start and end. The Test Manager will also be responsible for coordinating schedules, equipment and tools for the testers as well as writing/updating the Test Plan, Sprint Test Status reports and Final Test Summary report.

With the help of the Product Owner, the Client will be responsible for the Beta and User Acceptance tests.

The Test Designer should design Test Scenarios based on the Test Plan and determines the Test Order and time management.

The Test Automation Expert determines what to automate and make a checklist.

The Quality Assurance Engineers will be responsible for writing the test cases, executing the tests and reporting the bugs.

## 8.1. Resources

The test team will consist of:

* Test Manager
* Test Director
* Test Automation Expert
* Quality Assurance Engineers

## Responsibilities

The Test Manager and Product Owner will determine when system test will start and end. The Test Manager will also be responsible for coordinating schedules, equipment and tools for the testers as well as writing/updating the Test Plan, Sprint Test Status reports and Final Test Summary report.

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# Deliverables

|  |  |  |
| --- | --- | --- |
| **Deliverable** | **Responsibility** | **Completion Date** |
| Develop Test cases | Quality assurance engineers | 6/11/2013 |
| Test Case Review | Test Manager, Test Designer | 6/12/2013 |
| Develop Automated test suites | Test Automation Expert | 7/01/2013 |
| Execute manual and automated tests | Test Automation Expert and Quality assurance engineers | 8/26/2013 |
| Complete Defect Reports | Everyone testing the product | On-going |
| Document and communicate test status/coverage | Test Manager | Weekly |
| Execute Beta tests | Client and Product Owner | 8/18/2013 |
| Document and communicate Beta test status/coverage | Client and Product Owner | 8/18/2013 |
| Execute User Acceptance tests | Client and Product Owner | 9/03/2013 |
| Document and communicate Acceptance test status/coverage | Client and Product Owner | 9/03/2013 |
| Final Test Summary Report | Test Manager | 9/05/2013 |

# 10. Suspension / Exit Criteria

If any defects are found which seriously impact the test progress, the QA manager may choose to

Suspend testing. Criteria that will justify test suspension are:

* 100% of blocking and medium test cases are executed
* 100% requirements coverage
* All blocking, high severity bugs are fixed
* Testing budget is used up
* Time has run out

# Risks

* If the time to complete all test cases is not enough and cannot be extended, individual test cases will be skipped, starting with the lowest priority.
* Lack of experienced team members.
* Lack of earlier testing.

# 12. Tools

MS Excel and Team Pulse Bug tracking system tool will be used to help test the Quantum WebStore. We have the licensed product onsite. All of the testers have been trained on the use of Team Pulse tool.

# 13. Documentation

The following documentation will be available at the end of the test phase:

* Test Plan
* Test Scenarios
* Test Cases checklist
* Test Case review
* Defect reports
* Final Test Summary Report

# 14. Approvals

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