Test Plan

## **Purpose**

The purpose of this deliverable is to describe the test activities specific to the initial release of the Paint Calculator Application for Uptake’s use.

This deliverable will describe the preparation activities to be performed prior to testing, and the tests and procedures needed to execute the tests. It also includes the resources needed for testing and the overall testing timeline.

## **Test Strategy**

Automated test scripts will be created and executed to test the functionality of the Paint Calculator application. The objectives of these tests are to ensure that all functionality identified as in scope for this release have been met or documented as not met. Automated test scripts will be executed in a controlled environment which mirrors the production environment. Test cases will be reviewed and approved by the code review team. Incidents found during the testing phase will be managed in HP Quality Center.

An automation framework will not be created for the Paint Calculator application as there just two minor features to be tested for this release.

All testing shall be performed in the Chrome browser. Testing in IE11,Firefox and Safari to be added as future enhancements.

The test scripts will be stored in Git.

The test results will be generated using TestNg reports.

## **Testing Timeline**

|  |  |  |
| --- | --- | --- |
| **Period** | **Test** | **Team** |
| 2/23/18 – 2/26/18 | Functional Testing | Automation test team |
|  | Exploratory Testing | Manual test team/BSA |

## **Scope**

**Features to be tested:**

* Paint Volume calculator
* Surface Area calculator

Out of scope:

* Performance testing

## **Assumptions**

**Hardware and Software environments:**

* The test environment is fully functional during the testing period.
* The latest Selenium WebDriver and TestNg components are installed in the workstations
* The browsers in the workstations are compatible with Selenium WebDriver

**Resources:**

* The resources identified for automated testing are familiar with Defect management using HP Quality Center.
* The automation testing resources are well versed in authoring automated test scripts in Java and running them using Selenium WebDriver and TestNg.
* The resources identified for automation and exploratory testing are familiar with the Paint Calculator application.
* **The development team has at least two resources identified to assist the testers in analyzing and fixing issues observed during testing.**

**Schedule:**

* Code walkthrough of the automated scripts should be conducted and signed off before commencing with the test execution.
* Additional testing not indicated in this document may be required as continues to learn more about the application.

## **Risks**

* The test environment for the Paint Calculator application is not stable and/or unavailable during testing.
* Unavailability of key staff member or inexperienced staff on project.
* Unexpected issues occur in the test environment.
* Entry criteria as defined are incomplete.
* Issues observed are not resolved in a timely manner.

## **Functional Testing**

**Test Objectives:**

The objective of the functional testing is to both ensure that all the features of the application work as expected.

**Incident Handling/Problem Reporting:**

Any issues found during testing will be documented in HP Quality Center. Unresolved issues will be documented in Release Notes with appropriate business process modifications or workarounds.

**Entry Criteria:**

**The following must be completed and closed in order to move to the Functional Testing in the test environment:**

* **Requirements document**
* **Unit Testing**
* **Test script walkthrough and review**
* **Test environment installation**

**Exit Criteria:**

Functional Test scripts are completely run with no application issues observed.

## ****Exploratory** Testing**

**Test Objectives:**

The Exploratory testing objective is to ensure that the Paint Calculator application works according to the user’s expectations.

**Incident Handling/Problem Reporting:**

Any defects found during testing will be documented in HP Quality Center. Unresolved issues will be documented in Release Notes with appropriate business process modifications or workarounds.

**Entry Criteria:**

**The following must be completed and closed in order to move to the Functional Testing in the test environment:**

* **Requirements document**
* **Unit Testing**
* **Test script walkthrough and review**
* **Test environment installation**

**Exit Criteria:**

Exploratory testing is completed with no issues observed.

## ****Test Summary****

A Test Summary will document the objective evidence that the conditions within this Test Plan have been met. The Test Summary will summarize activities and results, including status and disposition of defects that were identified during testing of the Paint Calculator application.

The Test results will document what passed and failed during the test script execution.

END OF DOCUMENT