**Spectra Hut – Web Application Test Strategy**

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# 1. Introduction

**Spectrahut**(Handicraft WebApplication) is designed and developed especially for Indian markets. The application helps the customer to search for the suitable wooden frames to decorate the Wall. The Customer can choose the wooden work which they need to buy and make a transaction online and buy the product.

# Purpose

The purpose of this Test Strategy is to create a understanding of the target, approach, tools and timing of test activities. The Test strategy guides us through the common obstacles with a clear view of how to evaluate the system.

# 1.2. Objective

Our objective is to identify appropriate tool, analyze the functionality of the tool and its usage on a defined application, and to test the application with the tool. Also to provide recommendations for the application betterment.

# 1.3. Scope

The scope of the project will consist of testing the UI of the web application .There will not be any testing on the backend systems.

The scope of testing is limited to the below functionalities

1. Check whether all the Navigation is working
2. Check whether the customer is able to buy product through the application by transaction.

The testing scope is limited to the below testing types

1. Functional
2. Smoke
3. Accessibility
4. Usability
5. Cross Browser
6. Automation

# Test Strategy

# 2.1. Testing Methodology

The methodology used for testing the application is automated UI testing and manual.

# 2.2. Test Plans



# 2.3. Test Design & Preparation

The attached excel sheet contains detailed functional test cases and usability test cases



# Testing Types

There are various testing that can be done on the WebApplication. Only the ones marked in scope are conducted or now.

|  |  |  |
| --- | --- | --- |
| **Sno** | **Testing Mode** | **Scope** |
| 1 | Functional smoke testing | In Scope |
| 2 | Smoke testing | In Scope |
| 3 | Cross Browser testing | In Scope |
| 4 | Usability testing | In Scope |
| 5 | Accessibility testing | In Scope |
| 6 | Automation testing | In Scope |
| 7 | Interrupt testing | Out of scope |
| 8 | Performance testing | Out o Scope |
| 9 | Laboratory testing | Out of scope |

# 3.1. Functional Testing

• To identify 2 test scenarios and develop the test cases.

# 3.2. Smoke Testing

• To check all the navigation in the Application

# 3.3. Cross Browser Testing

• To check the Application in the Different Browser.

# 3.4. Usability testing

• Assumption 1: To check if the tool allows for usability testing or to search for a tool that does usability testing or will test usability with predefined/identified criteria manually

# 3.5. Accessibility testing

• To check all the navigation in the Application

# 3.6. Automation testing

• To check atleast one scenario in Automation.

# 4. Testing Approach

A well-defined testing approach will help to minimize major risks.

# 4.1. Testing Objectives

The objectives for testing are;

|  |  |  |  |
| --- | --- | --- | --- |
| S.No | Objective | Measure and Target | Measure |
| 1 | Functional– Features and functions to work as expected | To test atleast 2 functionality’s are adhering to the requirement | The tests should pass/fail satisfying the requirement |
| 2 | Usability | To test if the application can be used without any issues | Application should be easy to navigate and to verify if the information provided to the user is clear |
| 3 | Accessibility | To test if the application is accessible to the Visual Impairments | The tests should pass/fail satisfying the requirement |
| 4 | Smoke | To Test all the Navigations available in the Application | Application should navigate to Expected Pages |
| 5 | Cross Browser | To Test atleast 2 functionality in different Browsers | The tests should pass/fail satisfying the requirement |

# 4.2. Testing Framework

* The Test case is automation through the Record and play back option available in the Automation Tool.

# 4.3. Test Execution

* The test cases will be independent of each other.
* The Focus of Test execution will be on exploratory testing
* The failed test cases will be attached to defects
* The test execution will be performed in both automation an in manual mode

# 4.4. Testing Challenges

* Testers are new to automate Web application systems
* Testers are not familiar with the tools and frameworks
* Testers are not familiar with setting up test environments

# 5. Automated Testing Tools

# 5.1. Test Management

Test cases will be stored locally on the excel sheet.

# 5.1.1. Test Management Tool

Test cases will be stored locally on the excel sheet.

# 5.1.2. Defect Management Tool

The defects found are logged in excel against the test case id’s.The below attached are the defects found after testing the application.

# 5.2. Test Automation Tools

# 5.2.1. Test Automation Tool

|  |  |  |  |
| --- | --- | --- | --- |
| S.No | Tool | Version | Purpose |
| 1 | Ranorex |  | Website Automation |
|  |  |  |  |
|  |  |  |  |

# 5.3. Licensing and Installation

|  |  |  |
| --- | --- | --- |
| S.No | Tool | License |
| 1 | Ranorex | Trial |
|  |  |  |

# 6. Test Environment Strategy

# 6.1. Testing Environments Provisioning Request Process

This section details the approach and processes that need to be followed for requesting environment builds and/or refreshes.

# 6.1.1. Test Lab – Testing

The test lab should have the below minimum required environment for the testing to progress

# 7. Test Data Strategy

# 7.1. Test Data Strategy Objectives

* Will use existing test data from the mobile application to test multiple scenarios.

# 7.2. Types of Test Data

Only manually created static Test data will be used to test the mobile application.

# 8. Testing Controls & Procedures

This section documents the proposed process and governance of key processes.

# 8.1. Testing Success Criteria

|  |  |  |  |
| --- | --- | --- | --- |
| S.No | Number of Test Case | Pass Percentage | Success Criteria |
|  |  |  |  |
|  |  |  |  |

# 8.2. Defect Management

# 8.2.1. Defect Management Severity Definitions

|  |  |  |
| --- | --- | --- |
| S.No | Severity | Measure Defects |
| 1 | Sev1 | 2 |
| 2 | Sev2 | 11 |
| 3 | Sev3 | 3 |

# 8.2.2. Bug Report



# 8.3. Entry Criteria Risk Assessment

The testing will commence if :

* The application is stable.
* The connectivity between the application and the device is established
* The tool should run without any issues

# 8.4. Exit Criteria Risks Assessment

The purpose of the Exit Criteria Risk Assessment process is to evaluate the finalization and completeness of a testing Release.

# 8.5. Testing Requirements Traceability



# 8.6. Exception Justification

No Exceptions

# 9. Key Roles, Accountabilities and Responsibilities

# 9.1. Proposed Test Team Structure

The team will be comprised of 3 members to test the Web application –SpectraHut

|  |  |  |
| --- | --- | --- |
| S.No | ResourceName | Work Area Responsibility |
|  |  |  |
|  |  |  |
|  |  |  |