**Test Strategy**

[Approprice**-Mobile App**]

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# Introduction

**Approprice** (Best Price comparison Mobile App) is designed and developed especially for handicrafts. This app helps to find the best product prices among various e-commerce websites. This also helps to identify the products by scanning bar code. And also it help to send mail with comparison data.

## Purpose

This test strategy document helps to identify the target, approach and tools to be used and time duration that needs to complete the work. Through this test strategy we are able to get the clear view of the application testing.

## Objective

Our objective is to analyse the available tool to test the application and performing functional testing and giving required recommendations

## Scope

We have a scope of testing in the UI of the application. The scope of testing is to verify the product by giving product name and to verify scanning of barcodes available on the products.

The scope of testing is limited to the below testing types.

* Smoke Testing
* Functional Testing
* Installation Testing
* Usability Testing
* Mobile Automation Testing

# Test Strategy

## Testing Methodology

Manual and Automation UI are the testing methodologies

## Develop Test Plans

### Master Test Plans

## Test Design & Preparation

Test cases have been prepared and attached here.

# Testing Types

|  |  |  |
| --- | --- | --- |
| **Sno** | **Testing Mode** | **Scope** |
| 1 | Smoke Testing | In Scope |
| 2 | Functional Testing | In Scope |
| 3 | Installation Testing | In Scope |
| 4 | Usability Testing | In Scope |
| 5 | Security | Out of scope |
| 6 | Performance testing | Out o Scope |

## Smoke Testing

* Identifying basic test scenarios and developing test cases.

## 3.2. Functional Testing

* Identifying End to End test scenarios and developing test cases.

## 3.3 Installation Testing

* Application is installed in tablet and mobile device and validated the test cases

## 3.4. Usability Testing

* Created test cases to satisfy user expectation on the account of usability standards.

# 4. Testing Approach

* Basic functionalities are validated under smoke testing at high level.

## 4.1. Testing Objectives

The objectives for testing are:

.

|  |  |  |  |
| --- | --- | --- | --- |
| Sno | Objective | Measure and target | Measure |
| 1 | Smoke Testing | Basic functionalities are validated at high level | The test cases are satisfied the requirements |
| 2 | Usability | To test the user expectations like tool tip, help options are enabled. | User will be well informed while using the application |
| 3 | Installation | To test the installation of the application in the tablet and mobile device | Application should be installed properly without any issues. |

## 4.2. Testing Framework

* A combination of manual and automation testing framework will be used to conduct functional testing.

## 4.3. Test Execution

* Test cases can be executed without any pre-requisites
* The defects will be attached with the test cases.
* The cases will be executed in manual and automation as well

## 4.4. Testing Challenges

* Testers are not familiar with mobile testing.
* Testers are not familiar with tool and framework

# 5. Automated Testing Tools

## 5.1. Test Management

### 5.1.1. Test Management Tool

* Test cases will be stored locally on the excel sheet.
* GitHub will be used to maintain the version control of the all testing related documents.

### 5.1.2. Defect Management Tool

* The defects are found and logged in the excel sheets and it mapped with the test cases
* Bug report will be uploaded in GitHub to keep it version controlled

## 5.2. Test Automation Tools

### 5.2.1. Test Automation Tool

Tool - Ranorex is used

|  |  |  |
| --- | --- | --- |
| **Sno** | **Tool** | **Purpose** |
| 1 | Ranorex | Functional Automation |

## 5.3. Licensing and Installation

|  |  |  |
| --- | --- | --- |
| **Sno** | **Tool** | **Licence** |
| 1 | Ranorex | Trail Version |

# 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

|  |  |
| --- | --- |
| S.no | HARDWARE\SOFWARE |
| 1 | Windows OS installed machine |
| 2 | Android OS (4.4 and above) installed Mobile |

# 7. Test Data Strategy

This section describes the strategy for the provisioning and management of test data.

## 7.1. Test Data Strategy Objectives

* We use data from the mobile application itself to validate test scenarios

## 7.2. Types of Test Data

* We use manually created data to validate scenarios

# 8. Testing Controls & Procedures

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

## 8.1. Testing Success Criteria

|  |  |  |  |
| --- | --- | --- | --- |
| **Sno** | **No of test cases** | **Pass percentage** | **Successes criteria** |
| 1 | 16 |  | Minimum 90% pass |

## 8.2. Defect Management

### 8.2.1. Defect Management Severity Definitions

|  |  |  |
| --- | --- | --- |
| **Sno** | **Severity** | **Measure defects** |
| 1 | Severity 1 | <3 |
| 2 | Severity 2 | <4 |
| 3 | Severity 3 | <4 |

### 8.2.2. Bug Report

## 8.7. Entry Criteria Risk Assessment

The purpose of the Entry Criteria Risk Assessment process is to evaluate the readiness of commencing a testing Release**.**

The testing will commence if :

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

## 8.8. Exit Criteria Risks Assessment

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

**<text here>**

## 8.9. Testing Requirements Traceability

**<text here>**

## 8.10. Test Coverage Analysis

**Metrics need to be established for each testing phases. The metrics and measurement process must be agreed by the necessary stakeholders and will form the foundation for progress reporting.**

**<text here>**

## 8.11. Exception Justification

**<text here>**

# 9. Key Roles, Accountabilities and Responsibilities

**List the key testing roles, accountabilities and responsibilities.**

**<text here>**

## 9.1. Proposed Test Team Structure

**Add Team Structure**

**<text here>**

# 10. Staffing and Training Needs

**Add knowledge and experience desirable for each area.**

**<text here>**

# 11. Milestones and Schedule

**<text here>**

**11.1. High Level Schedule for Testing**

**Add Schedule**

# 12. Risks and Contingencies

**<text here>**

# 13. Definitions and Terms

**<text here>**