

Mobile app for Android

*ChangeLog*

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Change Date** | **By** | **Description** |
| 1.0 | 2019-02-12 | Wilfredo Iglesias | Initial Proposal for review. |
|  |  |  |  |
|  |  |  |  |

[**Introduction**](#_4zcc4oirzs29) **2**

[Scope](#_1fob9te) 2

[In Scope](#_3znysh7) 2

[Out of Scope](#_41zknamthy9t) 2

[Quality Objective](#_ci4s9oautw0f) 2

[Roles and Responsibilities](#_1t3h5sf) 3

[**Test Methodology**](#_l78sc3t7qjgb) **3**

[Overview](#_2s8eyo1) 3

[Test Levels](#_72xldyujzxky) 3

[Bug Triage](#_9ssjfajb2o6m) 3

[Suspension Criteria and Resumption Requirements](#_g31jr5ny2pij) 4

[Test Completeness](#_2t50z88z2xaf) 4

[**Test Deliverables**](#_854rkhs2gz0v) **4**

[**Resource & Environment Needs**](#_ex2kttah3evu) **5**

[Testing Tools](#_rda6dm60pujf) 5

[Test Environment](#_3kv0xtc5ddz) 5

# **Introduction**

Brief introduction of the test strategies, process, workflow and methodologies used for the project

The Test Strategy for Used.ca app for Android will consist of a formal basic workflow of a subset of the user interface, and while unofficially acknowledged, ad-hoc testing, and observation are encouraged as we can then leverage bugs found as test cases ie Battery usage.

Our testing process will consist of installing apk version 2.0.52 from our local environment that was cloned from the project repo.

Our methodology will consist of a agile like approach to focus on a subset of features which have automated test scripts created, these can be scaled to run multiple devices in parallel and metrics can be captured with assistance from the dbas and from the server logs where the endpoints reside with a debug flag, or more verbose logging enabled.

## **Scope**

### In Scope

A subset of functionality such as search by province, searching for an item and navigation will be tested via automation.

### Out of Scope

Areas such as performance, security testing, account/profile creation, API testing will not be performed at this time as the application and the backed are utilizing production environment.

## **Quality Objective**

* Verify a subset of Application Under Test conforms to functional.
* Confirm battery life is not affected greatly, via ad-hoc testing
* Validate the subset of the AUT meets the quality specifications set out by the product owner and the client
* Defects are identified, reported, triaged, and fixed or deferred depending on priority and severity level.

## **Roles and Responsibilities**

Detail description of the Roles and responsibilities of different team members like

* QA Analyst - Create test cases, Test plan, perform manual and automated testing on Android platform.
* Test Manager - Guide team to keep on track, escalate issues to stakeholders, develop test plan and test strategy.
* Configuration Manager - Responsible for build deployment to their respective environments, coordinates with development and QA for emergency hotfixes to be included in build.
* Developers - Development of features that comprise the entire application, fix bugs found, add those fixes to the repo to be streamed into a new build.
* Release Management - Deployment of application into production, coordinates with all team members.

# **Test Methodology**

## **Overview**

3 week sprints are going to be utilized in an Agile fashion.

## **Test Levels**

Currently for this phase, the testing will consist of UI and functional verification of the Used.ca app on Android.

## **Bug Triage**

* Determine what the solution for each defect, and its impact to the business
* Daily a quick 15-30 minute bug triage will occur to highlight outstanding or ongoing issues. By the end of each sprint any outstanding issues will be resolved, or pulled into the following sprint with a high priority to get fixed first.

## **Suspension Criteria and Resumption Requirements**

Showstoppers such as loss of data in part or complete will qualify as criteria for suspension of that functionality.

When it is resolved and validated as such, then testing can resume.

Adding features into a planned sprint, will result in that feature to be resumed as part of a future sprint, as to avoid loss of quality due to reduced timelines and additional work.

## **Test Completeness**

* One full cycle of Manual testing has been completed.
* Automated Test cases executed
* Regression testing has been executed with no new issues found
* All open bugs are fixed or deferred to the next sprint for further review.

# **Test Deliverables**

* Test Plan
* Test Cases
* Requirement or User Stories
* Bug Reports
* Test Strategy
* Test Metrics
* Sign Off by QA and stakeholders

# 

# **Resource & Environment Needs**

## **Testing Tools**

* JIRA for capturing User Stories and time estimates for development and QA
* JIRA for Defect reporting and linking
* Automation Tools: Selenium, Appium, Eclipse (or IntelliJ)
* Android SDK
* Java SDK
* TestNG for automated test execution results and summary

## **Test Environment**

It mentions the minimum **hardware** requirements that will be used to test the Application.

Following **software’s** are required in addition to client-specific software.

* Android 8.1.0
* Laptop or desktop with minimum 8GB Ram
* Windows 10 for setting up environment
* Local admin access to make system configuration changes for automation setup.
* Access to network share
* Github account access with Read/Write permissions
* Used.ca apk v2.0.52