Test Plan Mobile

Material Flow

ChangeLog

Version	Change Date	By	Description
01	01/24/2022	CMQ	Document Created

Contents

1. Introduction

The information described in the following document allow to the QA area describe all the information to run a test plan in the material flow mobile.

2. Scope

Define all the features functional or nonfunctional requirements that will be test and added in the test plan to the release

2.1. In Scope

- Setup area
- Login/password
- Asset area
- Part Routes
- Route Selection
- Material pick
- Material delivery
- Logout

2.2. Environments

- The application just will be test in android emulation:
  - Android version: 8.1
  - Mobile: Pixel 3
  - API: 27

3. Out of Scope

The test plan doesn't cover the areas/process:

- Exception area
- Scan to pick area
- Scan process in all areas
- Pick/Delivery process with the exception process
- Message alert process

3.1. Environments

The application will not test in other types of virtual mobile

4. Test Objectives

The objective of the test is to verify that the functionality of material flow mobile according to the scope define with the following criteria when the application is subjected to QA testing process:

- The bugs like showstoppers will be reported ASAP to DEV mobile area.
- If the application has a showstopper the error should be reported and run again the test plan
- If a bug is identified as high or medium priority the functionality should be retest
- If a bug has a high or medium severity defect should be resolved and verify the fix.
- The bugs as low priority or severity, the bug should be reviewed for the PM/DEV/QA
- To run the test plan the application should have a candidate release

5. Roles and Responsibilities

Detailed description of the Roles and responsibilities of different team members in the project:

- QA Manager
- QA manual test
- QA automated test
- DEV mobile manager
- Design UI mobile
- DEV mobile

6. Test Methodology

6.1. Overview

Scrum is a management framework for incremental product development using one or more cross-functional. It provides a structure of roles, meetings, rules, and artifacts. Teams are responsible for creating and adapting their processes within this framework.

7. Test Levels

Functional test, to verify the different functions worked according to the scope.
Report GUI Test, to verify the GUI from the application according to the mockup design approved.

8. Bug Triage

The bugs could have the following status:
LOW: The bugs type low could be GUI errors, spelling, typography, compatibility browsers, icons, some typing errors, or even cosmetic errors. Everything that is not displaying correctly according the mockups information.
MEDIUM: The bugs as medium could be functionals process, filters information, links broken, buttons broken, any error on console.
HIGH: The bugs as high could be a feature is not usable as it's supposed to be.
CRITICAL: This generally occurs in cases when an entire functionality is blocked and stop the test process. Or the application performance is affected by memory leaks, the bug should be fixed ASAP.

9. Suspension Criteria and Resumption Requirements

When found a bug that block part of the application and the other functions depends of its information the test should be stopped and report the bug.

After solved the bug the test plan should start from scratch, because the fix could break other functions already tested.

10. Test Completeness

- 100% test coverage according to the scope
- All Manual & Automated Test cases executed according to the scope
- All open bugs will be fixed in the next release according to the priority of the owner or project manager.
- If the application is released and the bugs continue as open, those should be reported as know issues

11. Automation Test

- It should be implemented with the open-source automation framework name Robot Framework.
- Robot Framework will use Selenium libraries and Python language.
- Appium and AppiumLibrary for Robotframework
- Android virtual device manager

12. Test Deliverables

The QA Area will deliver the following information after finished the testing process:

- Test Plan
- Test Cases
- manual test
- automated test report
- Bug Reports

13. Resource & Environment Needs

13.1. Testing Tools

Automation test:
- Selenium2Library
- Robot framework
- AppiumLibrary
- Appium
- Appium Server GUI
- Appium Inspector

Test Cases Report:
- Testlink report
- Robot Framework report

13.2. Test Environment

- Android 8.1
- API Level 27
- Resolution 1080 x 2220
- CPU core 4

14. Risks and contingencies

The following table describe the risks and contingencies that could be appears in the development/testing process

Risks	Contingencies
The sprint will end with tasks/tickets open	The DEV/QA areas should note to the owner the tasks/tickets that past to next sprint or if a major task/ticket should be completed in the sprint
Holiday in Bolivia	If the month has Bolivian holidays, it will be reported to the owner.
If a person from the QA area is sick or resigns	If a QA personal is out, some personal QA trying manual testing can help to continue the QA process in the sprint.
If the code freeze is not deployed on time to be tested for QA area	If the QA revise the code freeze out of time the test process needs to be reschedule and note it to the owner
If the user or owner needs information about a functionality, installation o questions about the application in production	The DEV/QA area will be available to answer the questions via meeting according to the owner