

Test Project

Test Plan

Created on Oct 26, 2024

Version 1.0.0

**Confidentiality Notice:**

The contents of this document represent confidential information that is the property of the test Project. This information must not be shared with any person or organization external to the test Project without the prior written consent of an authorized test Project executive. This information should be distributed to persons within the test Project organization on a need-to-know basis only.

**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Approver** | **Comments** |
| 1.0.0 | Oct 26, 2024 | Awais Subhani | xyz | Document created |

**Table of Contents**

**[Introduction](#_1fob9te) 2**

[Product/Project Overview](#_5xdmhtl3fk2j) 3

[Purpose of this document](#_va5ellya60w9) 3

**[Test Items](#_fht7va6v7rr) 3**

[Features to be Tested](#_2r0fvrkm95ra) 3

[Features not to be Tested](#_qw7vco323rah) 3

**[Approach](#_bqkeylyslno4) 4**

[Test Strategy](#_4m0r01qg0wy7) 4

[Requirements Analysis](#_ivq71l4p04ot) 4

[Test Case Documentation](#_uwp1e1hu2tp1) 4

[Unit/Module Testing](#_yepdp4s44kyh) 4

[Smoke or Sanity Test](#_ejm5b8ldmcnn) 5

[Functional Requirements Testing](#_de78h8hj3i9b) 5

[Change and Configuration Management  
 and How it will be Handled](#_yryw9mvwipxo) 6

[Testing Process](#_51zq82hyrz) 6

**[Item Pass/Fail Criteria](#_bbwxv2i1s60q) 6**

**[Suspension and Resumption Criteria](#_8jr2z47xh1rh) 7**

**[Test Deliverables](#_192zw3gpv1er) 7**

**[Testing Tasks](#_5j565khuhunr) 7**

**[Environmental Needs](#_p5l6p8y3rfqi) 8**

[Hardware Requirements](#_1ci93xb) 8

[Software Requirements](#_p1e66i8avr2s) 8

[Other Tools and Training Needed](#_3kcuy0bw41r3) 8

**[Roles and Responsibilities](#_j2ydiz73oqbr) 8**

**[Schedule](https://docs.google.com/document/d/1fvMrSpMOKePmJa17XhYvKmed-vBAN16w/edit#heading=h.jcmrkf5pdgl5) [9](https://docs.google.com/document/d/1fvMrSpMOKePmJa17XhYvKmed-vBAN16w/edit#heading=h.jcmrkf5pdgl5)**

**[Risks and Contingencies](#_1miobbhg44c7) 9**

# **Introduction**

This Test Plan will provide an overview of the project, the testing strategy to be used, a list of testing deliverables, Test Environment specifications, Types of Testing performed, Features to be tested, resources with responsibilities, Testing Schedules, reference material, and definitions/acronyms used in the Test Plan.

## **Product/Project Overview**

**test Feeder** is a project for test beef clients. This application will manage their Animal-related tasks only.

It is a mobile application, which provides multiple functions to its users.

**Purpose of this document**

This Test Plan aims to provide the details of testing efforts for the **test Feeder** Mobile Application in terms of testing types, features to be tested, test environment setup, testing schedules, testing deliverables, and risks and contingencies involved. The audience for this document includes the Project Manager, Architect, Dev. and SQA Engineers.

## **References**

This document is prepared from the sample document available on the PB works for the QA group.

# **Test Items**

All the modules In the Specification document are part of the Testing Cycle.

## **Features to be Tested**

* + 1. User Authentication
    2. User Management
    3. Products Management
    4. Equipment Management
    5. Jobs Management
    6. Approval Workflow
    7. Dashboard

2.1.10 User Profile

## **Features not to be Tested**

Nothing outside the scope of the specification document will be part of the Testing Cycle.

# **Approach**

## **Test Strategy**

A well-defined testing approach is required to achieve the testing targets in the specified period. To achieve testing targets we propose the use of scenarios, not solely for requirement analysis but for system testing too, by preparing more formal test cases.

### **Requirements Analysis**

* QA will be part of a team discussion in which the Product Manager will brief the team about the features that need to be developed. The QA team will ask questions to clear any ambiguities and highlight the corner cases if they identify any.
* QA will be part of Design analysis discussions in which the overview of the finalized designs will be given to the team. QA team will provide feedback on the design if they think there should be any changes after seeing the requirement
* QA will review the requirements specification document and also creates high-level test scenarios in order to identify any inconsistencies or missing requirements.

### **Test Case Documentation**

Test Cases or Scenarios will be prepared before the testing. This document should

* cover each and every requirement that is mentioned in the specification document
* should cover the design-related requirements
* should cover usability-related aspects.
* should cover the corner cases

### **Unit/Module Testing**

The development team will ensure that the unit tests are executed on the modules which are being deployed for QA testing

### **Smoke or Sanity Test**

Smoke Testing Cycle will be executed after every release to ensure that high-level functions of the deployed features are working as per expectation.

If this test fails the build will be immediately rejected and concerned persons will be notified about the status in order to fix the blockers and provide QA with the fix on a high-priority basis.

### **Functional Requirements Testing**

After the smoke test results build will be ready for the Functional Requirements validation testing, and the QA team will ensure the build scope functionality by executing the different types of testing on the given build:

● **Functional Testing**

The functionality of all the modules will be thoroughly tested as listed in the test Feeder Specification Document.

● **User Interface (UI) Testing**

UI Testing will be executed on the application. Every screen will be matched to ensure that it is made as per designs approved by the client.

● **Regression Testing**

Regression testing will be executed to ensure that the bug fixes provided by the dev have not impacted the functionality of other tested areas. Modules related to bug fixes will be tested again and a testing cycle on high-level functions will be executed to ensure that any ripples didn't occur.

### **Change and Configuration Management and How It Will Be Handled**

Any changes in requirements during the development and testing process will be discussed thoroughly with the Project Manager and Product Manager, and more time will be added to the testing finalization.

## **Testing Process**

Following is the Testing Process that should be followed within the Project:

* The application must be submitted with release notes to the QA team.
* QA must be notified (on any communication channel) once a testable release is deployed.
* Smoke testing is carried out on the build to make sure the build is testable.
* Module/Functional testing will be done for feature verification
* Any bugs, or deficiencies found would be reported in the Jira– Bug Tracking tool.
* Bugs would be prioritized and assigned to the respective developers for fixes by the QA.
* Developers must submit their fixes for further testing to the QA team through Azure.
* Jira will be used to monitor and track bug records both for the QA and developers teams.
* Bug entries will be closed/opened according to the Pass/Fail criteria defined.
* Overall application status can be evaluated anytime by the severity of the open bugs

# **Item Pass/Fail Criteria**

The following are the conditions that must be met successfully to approve test results:

* If Smoke, Functional and specific types of Test Executions are passed, then test results will be considered as Approved.
* Smoke Test Execution will be considered as Passed if its Passing Rate is >= 90%.
* Functional Test Execution will be considered as Passed if there are no critical / showstopper / major bugs still opened in the provided build of the Mobile Application.

Passing Criteria for other specific types of MobileApplication Testing will depend upon the agreed conditions made with PM or specified in the Requirements doc.

# **Suspension and Resumption Criteria**

* Testing will be suspended if there is any blocker that does not allow the Testing process to continue.
* Testing will be suspended If any of the Tests from the Smoke Checklist fails.
* The testing process will resume once the blockers are removed
* The test will resume when All smoke cases are passed

# **Test Deliverables**

* SQA Estimates
* Test Plan Document
* Test Cases Documents
* Smoke Checklist
* Release Register
* Release Readiness Checklist
* Release Notes

# **Testing Tasks**

* Requirements Analysis
* Giving Estimates for all SQA Activities needed
* Preparation of the test plan
* Preparation of Test case document
* Preparation of Smoke checklist
* Preparation of Release Register
* Preparation of Release Readiness Checklist
* Preparation of Release Notes
* Test case execution and bug reporting
* Bugs verification and Regression test cycles
* Test execution logs
* Maintenance of the above documents
* Discussion Meetings with Team Members (when required)

# **Environmental Needs**

## **QA Dedicated Environment**

A QA-dedicated environment is needed to perform all testing activities.

## **Hardware Requirements**

Following are the details of hardware devices and network requirements needed to complete testing activities for test Feeder:

* iPhone
* iPad
* Android
* Wi-Fi / Edge Connection with reasonable speed

## **Software Requirements**

Following are the Software requirements needed to complete testing activities for test Feeder:

* · iOS 11 or above
* Android 9 or above

## **Other Tools**

The following are the software tools employed in the testing effort:

* **Google Sheet.** = For Test Management i.e. Smoke and Functional Test Cases writing & Execution, for the creation of Release Register and Release Notes.
* **Google Docs.** = For Test Plan and other documentation
* **azure** = For Bugs Reporting and Bugs Tracking.

# **Roles and Responsibilities**

Following QA resource(s) will be engaged along with their responsibilities to accomplish the Testing Tasks oftest feederProject

**Resource(s)**

* Awais Subhani (QA Engineer)

**Responsibilities of Awais Subhani: QA Engineer**

* Analyzing Functional Requirements of Mobile Application and Web
* Creating Smoke & Functional Test Cases, Test plan, Release Register
* Managing the QA artifacts
* Smoke, Functional, UI & Regression Test Execution on iPhone and iPad devices and Bugs Reporting
* Bug Verification and Regression Testing
* Generating Bug Reports and Execution Summary logs
* Final Smoke Testing on Mobile App and web before delivering the App to the client / sending it to the Device Store
* Preparing Release Notes and sharing the App with the Client

# **Risks and Contingencies**

Following is the list of Risks and their Contingencies while conducting Testing activities for ILS Farms:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Risk Item** | **Area of impact** | **Responsibility** | **Mitigation Action** | **Contingency Action** |
| Relevant features of App might not be ready on the scheduled date/time | Schedule | PM | The scheduled date / timeline should be shared with Dev Team in advanced | PM will make sure that timelines to develop the features are being properly followed up |
| Allocated QA Resource might not be available at the time of testing for any reason | Schedule | PM | Backup of QA resource should be available | Backup QA resource will be used to perform testing |
| Test Cases / Checklists might not be ready at the start of testing | Cost | QA Team | Sufficient time should be given before starting the Testing activities to complete Test Cases / checklists | Testing should be done on the basis of Exploratory testing and understanding of requirements if Test Cases / checklists are not ready |
| Test Environment might not be ready on scheduled date / time | Schedule | Dev & IT | Testing schedules should be shared with Dev / IT Team so that they should make sure that Test Environment must be in working condition on these schedules | It will be immediately communicated to Dev / IT Team to setup Test Environment on priority basis |
| Targeted Mobile Device Models along with required OS / screen resolutions might not be available on scheduled date / time | Schedule | IT Team | Required Mobile Devices should be available having the desired OS / screen resolution before starting the testing activities | Device Emulators / User Agents will be used until the actual Mobile Device is not available |
| There might be too many critical /major issues in the provided build | Schedule and Cost | Architect and Dev. Team | Detailed requirement analysis should be done before starting the development | Architect and dev. Team should resolve the issues on priority basis |
| Impact Areas for the features / bugs fixed in provided build may not be communicated to QA Team | Schedule and Cost | Architect, Dev.& QA Team | Detailed impact analysis should be done before starting the development and testing. List of impact areas should be shared within all Teams | Architect, dev. and QA Team should share the list of impact areas to each other before starting development / Testing |