**Kitty dot paws**

**Test Plan**

Version *<1.0>*

*<08/31/2022>*

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**Document revision history**

| **Date** | **Version** | **Description** | **Author** | **Reviewer** | **Approver** |
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| 08.31.2022 | 1.0 | Test plan creation | Hrymut O. |  |  |
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**1 INTRODUCTION**

The Test Plan has been created to facilitate communication within the team members. This

document describe approaches and methodologies that will apply to the integration

and system testing of the application “Kitty dot paws”. It includes the objectives, test

responsibilities, entry and exit criteria, scope, schedule major milestones, entry and exit

criteria and approach. At the end - 100% manual tests are done, Customer expectations are satisfied completely.

**2 SCOPE**

The document mainly targets the GUI testing and validating data in report output as per Requirements Specifications provided by Client.

2.1 Functions to be tested.

* GUI
* Uploading, Commenting Logic
* Registration, user verification.
* Performance

2.2 Functions not to be tested.

* Not other than mentioned above in section 2.1

**3 QUALITY OBJECTIVES**

3.1 Primary Objectives

A primary objective of testing is to: assure that the system meets the full requirements, including quality requirements (functional and non-functional requirements) and fit metrics for each quality requirement and satisfies the use case scenarios and maintain the quality of the product. At the end of the project development cycle, the user should find that the project has met or exceeded all of their expectations as detailed in the requirements.

3.2 Secondary Objectives

The secondary objectives of testing will be to: identify and expose all issues and

associated risks, communicate all known issues to the project team, and ensure that all issues are addressed in an appropriate manner before release.

**4 TEST APPROACH**

The project is using an agile approach, with weekly iterations. At the end of each week the requirements identified for that iteration will be delivered to the team and will be tested. Test cases will be created during exploratory testing. All test types are determined in Test Strategy.

Test Automation

Automated tests are missing in the current project.

**5 ROLES AND RESPONSIBILITIES**

| **Role** | **Responsibilities** |
| --- | --- |
| **Project Manager** | * Responsible for Project schedule and the overall   success of the project.   * Main contact chain between Customer and project Team |
| **Scrum master** | * Sprint tasks fulfillment and activity control * Coordination between team members and issues solving during the sprint |
| **QA Lead** | * Participation in the project plan creation/update process. * Planning and organization of test process for the release. * Coordinate with QA analysts/engineers on any   issues/problems encountered during testing.   * Report progress on work assignments to the PM |
| **QA** | * Understand requirements * Writing and executing Test cases * Preparing RTM * Reviewing Test cases, RTM * Defect reporting and tracking * Retesting and regression testing * Bug Review meeting * Preparation of Test Data * Coordinate with QA Lead for any issues or problems   encountered during test preparation/execution/defect  handling. |

**6 ENTRY AND EXIT CRITERIA**

6.1 Entry Criteria

* All test hardware platforms must have been successfully installed, configured, and functioning properly.
* All the necessary documentation, design, and requirements information should be available that will allow testers to operate the system.
* All the standard software tools including the testing tools must have been successfully installed and functioning properly.
* Proper test data is available.
* The test environment such as, lab, hardware, software, and system administration support should be ready.
* QA team have completely understood the requirements
* Reviewed test scenarios, test cases and RTM

6.2 Exit Criteria

* A certain level of requirements coverage has been achieved.
* No high priority or severe bugs are left outstanding.
* All high-risk areas have been fully tested, with only minor residual risks left outstanding.
* The schedule has been achieved.

**7 TEST STRATEGY**

7.1 QA role in test process

| **Stage of testing** | **Description** | **Notes** |
| --- | --- | --- |
| Requirements clarification | * Requirement specifications will be sent by client * Understanding and opened questions to be discussed between the QA Team |  |
| Preparing Test Cases | * QA will be preparing test cases based on the exploratory testing |  |
| Preparing Test Matrix | * QA will be preparing test matrix which maps test cases to respective requirement |  |
| Reviewing test cases and matrix | * Review will be conducted for test cases and test matrix by QA Lead * Any comments or suggestions on test cases and test coverage will be provided by reviewer respective Author of Test Case and Test Matrix * Suggestions or improvements will be re-worked by author and will be send for approval * Re-worked improvements will be reviewed and approved by reviewer |  |
| Executing Test Cases | * Test cases will be executed by respective QA on client's development/test site based on   designed scenarios, test cases and Test data.   * Test result (Actual Result, Pass/Fail) will updated in test case tool - Test Rail |  |
| Defect reporting | * All defects must be fulfilled and described into bug-tracking system Jira |  |
| Retesting and Regression testing | * Retesting for fixed bugs will be done by respective QA once it is resolved by the respective developer and bug/defect status will be updated accordingly. In certain cases, regression testing will be done if required. |  |
| Deployment | * Once all bugs/defect reported after complete testing are fixed and no other bugs are found, report will be deployed to client’s test site by PM |  |

7.2 Testing types

Functional testing: provide correctness, reliability, testability and

accuracy of the report output/data, such of:

* Registration and Validation forms
* Uploading and review process
* Commenting process
* Parameters configuration
* Secondary tools integrations (Friendlists, like button).

GUI testing: format, look and feel, error messages, spelling mistakes.

System testing: System testing of software is testing conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements.

Performance testing: optimal time of application loading, content uploading.

**8 RESOURCE AND ENVIRONMENT NEEDS**

8.1 Testing Tools

| Process | Tool required |
| --- | --- |
| Test case creation | Test Rail |
| Test case execution | Manual, Test Rail |
| Test case management | Test Rail |
| Defects management | Jira |
| Test reporting | Test Rail |
| Check list creating | MS Excel |
| Project structure | Mind map |

8.2 Test Environment

OS: Android 10 (and higher); IOS 12 (and higher)

Browsers: Chrome (latest); Safari (latest); FireFox (latest)

**9 TEST SCHEDULE**

| **Task name** | **Start** | **End** | **Comments** |
| --- | --- | --- | --- |
| Test Planning | 08.31 | 09.03 |  |
| Review of requirements | 08.31 | 09.02 |  |
| Test artifacts creation | 09.04 | 09.13 |  |
| Overview and trainings | - | - | Optional |
| Deploy to QA testing environment | 09.14 | - |  |
| Functional testing | 09.15 | 09.20 |  |
| System testing |  |  |  |
| GUI testing |  |  |  |
| Regression testing |  |  |  |
| Resolution of final defects  and final build testing |  |  |  |
| Deploy to Staging  environment |  |  |  |
| Performance Testing |  |  |  |
| Release to Production |  |  |  |

**APPROVALS**

|  | **Project Manager** | **QA Lead** |
| --- | --- | --- |
| **Name** |  |  |
| **Signature** |  |  |

**TERMS/ACRONYMS**

| **TERMS** | **DEFINITION** |
| --- | --- |
| **PM** | Project Manager |
| **GUI** | Graphic User Interface |
| **QA** | Quality Assurance |
| **RTM** | Requirements Traceability Matrix |