PawShare app

**Test Strategy**

**Revision History**

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| Date | Version | Author | Description |
| 17.02.2024 | 1.0 | Cíntia Domingos | Initial draft |
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# Scope

The QA lead will review the document to ensure alignment with project goals.

The project manager will approve the document to authorize its implementation.

Testing activities will be carried out throughout the development lifecycle in each iteration, with specific milestones and timelines outlined in the project schedule. This includes:

Test planning: Week 1

Test case development: Week 2

Test execution: Weeks 3-4

Defect management: Ongoing

Regression testing: Week 5

Acceptance testing: Week 6

Post-production testing: Week 7

# Test Approach

* **Process of testing**

The testing will follow the Agile methodology, with continuous integration and testing performed alongside development iterations.

* **Testing levels**

Unit testing, integration testing, system testing, regression testing, acceptance testing and post-production testing will be conducted

* **Roles and responsibilities of each team member**

QA Lead: Oversees testing activities, creates test plans, test cases and strategies.

QA Engineers: Execute test cases, report defects, retest.

Mobile Developers: Develop the product and support testing efforts by fixing defects.

Project Manager: Deals with documentation and approves it, deals with scheduling, leads the team, provides input on acceptance criteria and verifies test results.

* **Types of Testing**

Functional and non-functional testing will be performed.

* **Testing approach & automation tool if applicable**

Manual testing will be performed.

* Adding new defects, re-testing, Defect triage, Regression Testing and test sign off

New defects will be added to the bug tracking system with corresponding priority levels based on severity.

Re-testing will occur after the defects are fixed.

Ater each build, regression testing will be performed.

Sign-off will occur when all test cases have been executed, all the bugs have been fixed and re-tested.

# Test Environment

The tests will be performed on the most recent version of iOS (iOS 17.3) and Android (14). Define number of requirement and setup required for each environment

Test data backups will be performed daily and a restore strategy will be implemented to prevent any data loss.

# Testing Tools

The test management platform will be TestRail. It will be integrated with the bug tracking tool JIRA, where all the bug reports will be created.

# Release Control

Each release will have a version number. The version history will be documented to track any modifications and ensure test execution for all the changes in each version.

# Risk Analysis

Risks (in no particular order):

1. Developing an inadequate app

Mitigation: Keep the end-user in mind at all times while developing the app, collect feedback

2. Delays in the development, which may impact the testing timeline.

Mitigation: Careful planning. Implement Agile methodology, which allows for adaptation to changes

3. Security vulnerabilities: risk of data leaks

Mitigation: Conduct regular security audits and implement robust security measures

4. Data loss

Mitigation: employ a reliable storage system; perform regular back-ups.

As for the contingency plan, back-up resources will be identified and the timelines will include a buffer as to allow more time to address any unforeseen challenges.

The team will maintain an open communication and promptly escalate any issues that deem it necessary.

# Review and Approvals

The test strategy document will be reviewed by the whole team and approved by the project manager.

Any changes to the document will be recorded and displayed in the first page, including date of approval, name of approver and comment.