NIKITHA PMA_TEST PLAN_v1.0

Project Name: NIKITHA PMA

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1 INTRODUCTION

The Purpose of this Test Plan is to outline the Test objectives, Test environment and User Acceptance criteria to ensure the successful testing of a mobile application under development.

The primary goal of the test plan is to ensure that the mobile application meets its functional and non-functional requirements, is free of defects, and performs efficiently under various conditions before it is released to end-users.

The development team will mitigate risks, enhance the quality of the final product, and ensure that the application delivers a consistent and reliable user experience across multiple mobile platforms. The purpose of this document is to provide a clear framework for the testing activities.

2 TEST OBJECTIVE

The primary objective of the test plan for mobile application development is to ensure the delivery of a high-quality, reliable, and user-friendly mobile application that functions seamlessly across multiple devices, operating systems, and network environments

The objective of the test plan is to conduct initial validation of the core functionalities and stability of the system. This phase aims to identify any critical defects in the foundational features.

Key Objective Include:

2.1 FUNCTIONAL VALIDATION

To verify that all features and functionalities of the application perform as expected. This includes validating user interactions, core functionality (e.g., login, navigation).

2.2 CROSS-PLATFORM AND CROSS-DEVICE COMPATIBILITY

To ensure the application operates consistently and effectively across various mobile platforms (iOS, Android) and device models, considering different screen sizes, resolutions, and hardware configurations.

2.3 USABILITY TESTING

Evaluate UX/UI design elements, such as button placement, gesture handling (e.g., swipes, taps, long presses), and consistency in design across pages

3 TEST ENVIRONMENT

A **test environment** in a **test plan** refers to the setup of hardware, software, network configurations, and other tools or resources necessary to execute test cases.

3.1 HARDWARE REQUIREMENTS

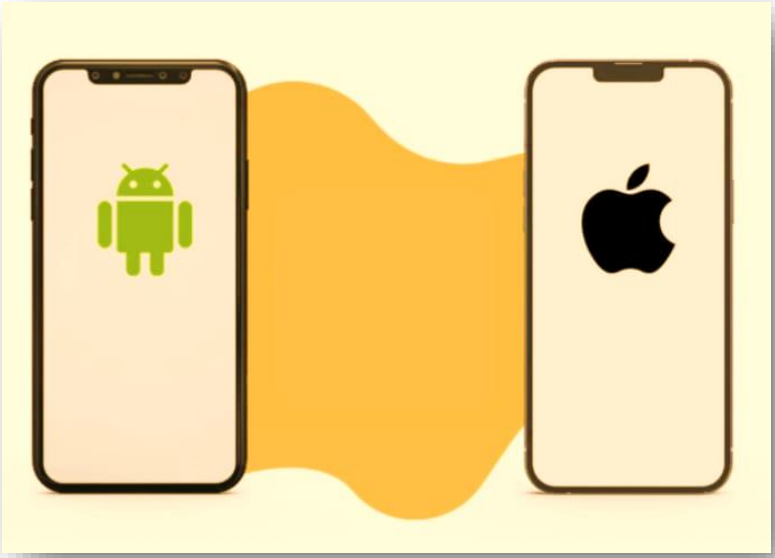
3.1.1 MOBILE DEVICES

- Smartphones: iOS (e.g., iPhone 12, iPhone 13, iPhone SE) and Android (e.g., Samsung Galaxy S21, Google Pixel 5).
- Tablets: iPad (various models) and Android tablets (e.g., Samsung Galaxy Tab).

3.2 SOFTWARE REQUIREMENTS

3.2.1 OPERATING SYSTEMS

- iOS: Specify versions (e.g., iOS 14, iOS 15).
- Android: Specify versions (e.g., Android 10, Android 11, Android 12, Android 12 and Android 14)

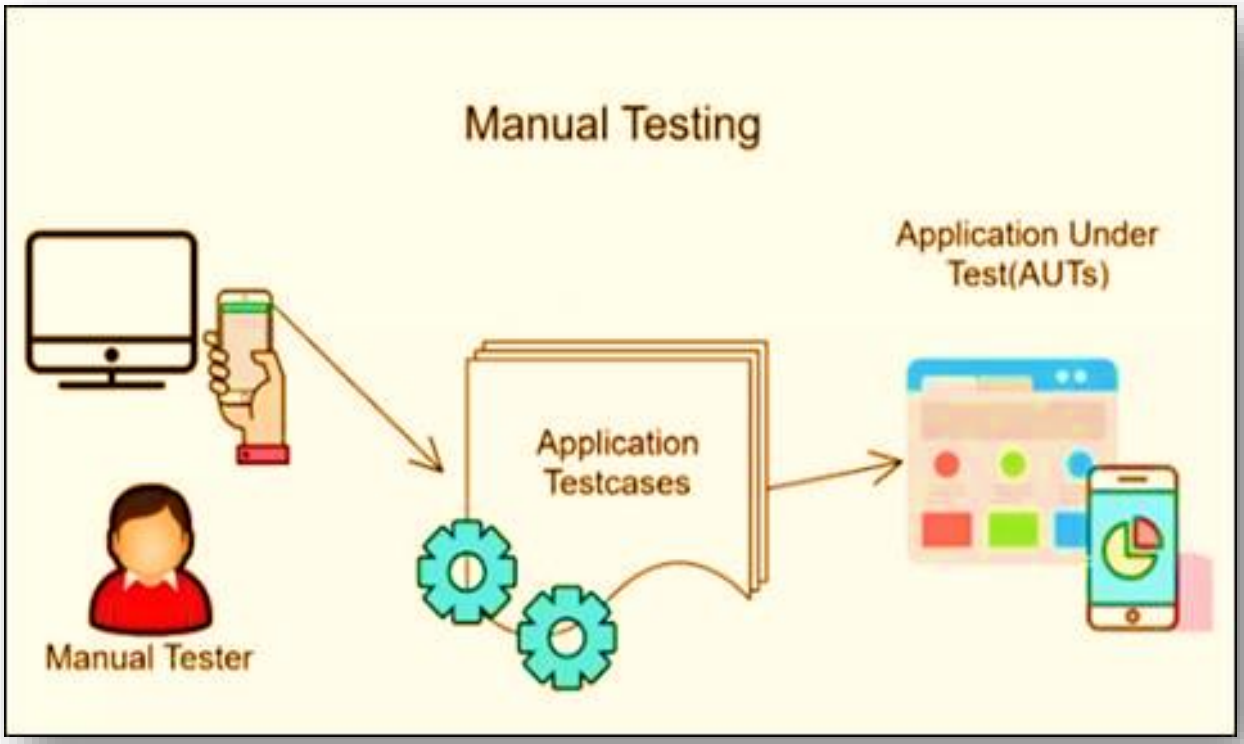


3.3 NETWORK CONFIGURATION

3.3.1 CONNECTIVITY

- Test in various network conditions, including Wi-Fi, 4G, and 5G, as well as offline scenarios.

Manual Testing Diagram



4 TEST CONSTRAINTS

The **Test Constraints** section should identify limitations that could affect the scope, timing, and success of test automation. The following constraints have been identified that may impact for mobile application development.

4.1 TIME CONSTRAINTS

- Limited time for completing testing.
- Strict deadlines for test execution and reporting.
- Testing must align with project milestones and release schedules.

4.2 RESOURCE CONSTRAINTS

- Limited availability of testing personnel (testers, developers, etc.).
- Restricted access to testing tools or software licenses.
- Inadequate number of testing devices (for cross-platform testing).

4.3 TOOL COMPATIBILITY CONSTRAINTS

- Compatibility issues between testing tools and the application.
- Limitations based on the integration capabilities of testing tools.

The test execution for mobile application. Acknowledging these constraints early and planning for them with appropriate mitigation strategies can lead to more efficient and reliable testing processes, ensuring higher-quality releases while minimizing delays and overhead.

5 USER ACCEPTANCE CRITERIA

User Acceptance Criteria (UAC) in a test plan outlines the minimum conditions that must be met for the system or feature to be accepted by the end user or stakeholders. Here's a list of basic user acceptance criteria that can be included in a test plan

5.1 FUNCTIONALITY WORKS AS EXPECTED CRITERIA

- All core functions must work as intended without critical or major defects.
- Example: Users can successfully log in or perform other key actions without errors.

5.2 USER INTERFACE (UI) CRITERIA

- The interface must be user-friendly, with no major usability issues.
- Example: Buttons, forms, and navigation must be intuitive, with proper labels and consistent design elements.

5.3 SECURITY CRITERIA

- The system must protect user data and ensure only authorized access.
- Example: Users cannot access others accounts, and sensitive data is encrypted.

5.4 COMPATIBILITY CRITERIA

- The application should work seamlessly across supported operating systems (Android and IOS).
- The application must be fully functional on mobile devices, adapting to different screen sizes.

6 CONCLUSION

This test plan provides a structured approach for ensuring the quality, performance, and functionality of the mobile application across Android and iOS platforms. By defining clear test objectives and User expected criteria, we ensure that the application meets user requirements, delivers a seamless experience, and functions reliably under various conditions.

Successful execution of this test plan will ensure the mobile application is ready for release, offering a high-quality experience to end users.

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