

What we need to prepare when making a test plan

Introduction

- Purpose: To ensure that the new mobile application "Fitness Tracker" meets the specified requirements and is free of defects before it is released to the public.
- Scope: The testing will cover all functional and non-functional requirements of the mobile application including usability, performance, security, and compatibility.
- Overview: The testing process will include unit testing, integration testing, system testing, and acceptance testing. Both manual and automated testing methods will be used.

Test Strategy

- Test levels: Unit, integration, system, acceptance
- Test types: Functional, performance, security, usability
- Test approach: Manual, automated, exploratory

Test Environment

- Hardware and software requirements: iPhone 6 or higher, iOS 12 or higher, Android 9 or higher
- Test environment setup and configuration: Test environment will be set up on a virtual machine with the specified hardware and software requirements.
- Test data preparation and management: Test data will be prepared and managed using a test data management tool.

Test Cases

- Test case identification: Test cases will be identified based on the requirements document and user stories.
- Test case design and development: Test cases will be designed and developed using a test case management tool.
- Test case execution and reporting: Test cases will be executed manually and automatically, and the results will be reported using a test management tool.

Test Schedule

- Test plan approval and sign-off: The test plan will be reviewed and approved by the project manager and the development team.
- Test case review and approval: Test cases will be reviewed and approved by the project manager and the development team.

- Test environment setup and configuration: The test environment will be set up and configured before the start of testing.
- Test execution schedule: Testing will begin two weeks before the scheduled release date and will continue until all test cases have been executed and all defects have been resolved.

Test Deliverables

- Test cases: All test cases will be stored in a test case management tool.
- Test scripts: All test scripts will be stored in a version control system.
- Test data: All test data will be stored in a test data management tool.
- Test results: All test results will be stored in a test management tool.
- Test metrics: Test metrics such as test coverage, pass/fail rate, and defect density will be calculated and reported.
- Test reports: Test reports will be generated using a test management tool and will be shared with the project team and stakeholders.

Test Risks and Contingencies

- Identification of potential risks: Potential risks such as changes in requirements, delays in the development process, and lack of resources will be identified and tracked.
- Mitigation plans for identified risks: Mitigation plans such as adjusting the testing schedule, allocating additional resources, and updating the test plan will be developed to address identified risks.
- Contingency plans for unforeseen events: Contingency plans such as delaying the release date or rolling back to the previous version of the application will be developed to handle unforeseen events.

Test Closure

- Test results and reports: Test results and reports will be reviewed and analyzed by the project team and stakeholders.
- Test metrics and analysis: Test metrics and analysis will be used to identify areas for improvement in the testing process.
- Test closure report: A test closure report will be generated and shared with the project team and stakeholders.
- Lessons learned and recommendations for future testing: Lessons learned and recommendations for future testing will be documented and shared with the project team and stakeholders.

[QA][Team] Test Plan – [Project]

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General Information

Project Name	Facebook Login
Engineering Manager	Mr. A
Product Owner	Mr. B
Engineer Team	Mr C and Ms. E
Platform	Android
QA Team	Me
Product Specification	PRD TRD Figma Others
Jira Ticket	User story
TestRail	Testrail link

Testing Objective

- To make sure there is no critical issue appearing in the production environment and make sure that all feature functionalities are working properly as respected.
- To make sure E2E users don't experience any unpleasant issues.

Testing Scopes

- Feature to be tested phase 1

User stories	Breakdown Task	Priority
User able to login to facebook properly	<ul style="list-style-type: none">- Enter valid username and valid password- Enter valid username and invalid password- Enter invalid username and valid password- Enter invalid username and invalid password	P0

Testing Strategies

- Testing technique

The following test case design technique are to be used where they are relevant and involve the developer during testing:

1. Usability Testing
 2. Use case testing
 3. Functionality testing
 4. Table testing
- Entry criteria
 - a. Screening and Final design signed off
 - Hopefully notice the team if there is any change after screening process or during development process
 - b. All User stories have been documented on Jira board
 - c. All source codes have been deployed to the staging environment
 - Always notify Tester what and when the feature ready to test
 - d. Test Plan is reviewed
 - Suspend Criteria (not ready to deployed to production environment)
 - a. P0 and P1 issue found
 - For P1, if Manager and Production Team is okay to let it be, then it's okay to continue to production
 - b. Staging environment down
 - Exit Criteria
 - a. 100% all test cases must pass
 - b. No remaining P0 bugs
 - c. No remaining P1 bugs

Testing activities and Estimate time

Testing Activities	PIC	Time (Day)
Testing Design <ul style="list-style-type: none">- Create, Generate feedback, Update test plan<ul style="list-style-type: none">- Test Plan- Test Report- Test Cases- Finalized document	@	5
Testing Execution <ul style="list-style-type: none">- Feature testing- Bug fixing- Confirmation		20
Testing Completion <ul style="list-style-type: none">- Feature integration to production- Integration Testing- Smoke testing		4
Total		29