**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 | * 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
  1. Screening and Final design signed off
     + Hopefully notice the team if there is any change after screening process or during development process
  2. All User stories have been documented on Jira board
  3. All source codes have been deployed to the staging environment
     + Always notify Tester what and when the feature ready to test
  4. Test Plan is reviewed
* Suspend Criteria (not ready to deployed to production environment)
  1. 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
  2. Staging environment down
* Exit Criteria
  1. 100% all test cases must pass
  2. No remaining P0 bugs
  3. No remaining P1 bugs

Testing activities and Estimate time

| Testing Activities | PIC | Time (Day) |
| --- | --- | --- |
| Testing Design   * Create, Generate feedback, Update test plan   + Test Plan   + Test Report   + Test Cases * Finalized document | @ | 5 |
| Testing Execution   * Feature testing * Bug fixing * Confirmation |  | 20 |
| Testing Completion   * Feature integration to production * Integration Testing * Smoke testing |  | 4 |
| Total |  | 29 |