MyFitnessPal Test Plan

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Version History

The following table lists the draft versions of this document. The 'Author(s)' column represents the person or people who made the updates to the draft or version; the 'Date' column indicates the date draft or version was completed; the 'Version'/Description' column provides a high-level description of and changes made to the draft or version.

Author(s)	Date	Version/Description
Moez Mohamed	20/8/2022	V1.0 Draft

MyFitnessPal Test Plan

1. Purpose

The purpose of this document is to convey the test strategy and scope that will be used to provide robust testing for the MyFitnessPal Application. This document will focus on identifying the types of testing that will support the development of the application, resources, and schedule of activities. It identifies items and features to be tested, tasks to be performed, staff responsible for each task, and risks associated with the plan. The information in this document will serve as a guideline and may be changed as the development of the application changes.

This document details the Test Plan that will be used to verify and ensure that the application meets the requirements approved for the MyFitnessPal Project.

2. Testing Types

Define all the types of the testing that will be used during the project.

Some examples are:

- **Unit Testing**:
  The main objective of unit testing is to verify whether every unit operates as intended. A function, procedure, method, or even the entire module can be considered a separate unit. Unit testing can be conducted manually, but automated testing is a more common practice
- **System Testing**:
  System testing is generally conducted after Unit Testing.
- **Performance Testing:**

Performing testing is conducted to detect issues related to:

  - memory consumption
  - power utilization
  - network connectivity
  - operating in the background
  - switching between applications
  - memory leakage

- **Regression Testing**:
  Regression testing is a re-execution of tests that had been done before the code changes. Its purpose is to verify whether a new functionality has affected the existing one.
- **UAT Testing**
  also called application testing or end-user testing, is a phase of software development in which the software is tested in the real world by its intended audience

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3. Items to be Tested:

Functional Testing Scenario	UI Testing Scenario	Compatibility Testing Scenario	Performance Testing Scenario	Usability Testing Scenario
Ensure that mobile works in multitask mode when needed. For example, while using the app, if the user gets a call, he should perform the expected actions.	Validate that text is not cut off and must be fitted on the screen.	Check for the interrupt conditions like incoming calls, messages, or notifications while using the app.	Validate the performance of the application by changing the network to 2G,3G, 4G, 5G, and Wi-Fi.	Check for the font size, button size, and content format so that it is accessible effortlessly.
Test that the AUT is not consuming other apps' memory and not stopping the activities of other apps.	Validate that all popups, alert messages, and error messages are meaningful and correct.	The app should go into the background if there is an incoming call. After the call disconnects, it should again resume as it was before.	Validate the CPU consumption while using the app.	Inform the client while downloading a lot of data which might not be favorable for the performance of an app.
Page scroll, swipe is working as expected.	Validate the carousel, navigation through menu, and swipe functions.	Validate that the phone's essential functions like alarm, storing messages, sending/receiving messages are all working as expected while using the app.	Validate how many parallel users would crash the app to benchmark performance.	Validate that the app should have easy navigations which do not confuse users.
Check that the app's automatic startup is working as expected.	The page should not take more than five seconds to load, if it does, it should have a progress bar that allows the user to comprehend the scenario.		Perform the load testing on individual API calls and validate how the application behaves under a certain load.	
Check that auto-logout is working as expected.	Check for spelling & grammatical errors.			
Navigation between various modules should work as expected.	Check for image sizes, image rendering, and company logo.			
Test that the app's social networking options such as sharing, posting, login are working correctly.				

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4. Features to be tested

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Case ID	Feature Name	Summary	Priority
1	Install	1-Verify that application should be Installed successfully.	High
2	Uninstall	1-Verify that application should be Uninstalled successfully.	High
3	Signup	1-Signup using valid Email and password 2-Signup using Facebook/Gmail account 3-Signup for premium 4-Signup using invalid/already exists Email	High
4	Login	1-Login using valid Email and password 2-Login using Facebook/Gmail account 3-Login using premium account 4-Login using invalid Email/Password 5-Forget Email/Password	High
5	Dashboard	Smoke test each item inside it to make sure that the app is working as expected: 1-checking caloric intake counter 2-Updating/Checking Progress (weight,Status, Steps , Exercise) 3-Search on food using search box , or scan barcode	High
6	Notification	1-View Notification when clicking on its button 2-Add friends from "Contacts" / Facebook / Email when Accept system permission 3-Denied System permission and try again	Medium
7	Dairy	Smoke test each item inside it to make sure that the app is working as expected: 1-checking caloric intake counter 2-Logging/Searching food 3-Adding Water Intake 4-Adding Exercise 5-Click on Calories Remaining tab to viewing (Calories breakdown , nutrients , macros) 6-Swiping right/left to view Next/pervious day	High
8	NewsFeed	Smoke test each item inside it to make sure that the app is working as expected: 1-Update your Status and Add photo 2-Reading blog Posts 3-Click on links are functional and they direct to the correct page and then click back 4-Add like or comment 5-Click on Calories Remaining tab to viewing (Calories breakdown , nutrients , macros)	Medium
9	Plans	Smoke test each item inside it to make sure that the app is working as expected: 1-View All plans 2-Filter plan based on the selected criteria 3-Try to join for specific plan	
10	More	**Me** : 1-Updating personal information 2-Updating weight	High
		Recipes Discovery : 1-View/Select Recipes	Medium
		Progress : 1-display data on chart based on added measurement and selected date range 2-Update measurement and selected date range and data on chart will be updated 3-Export Information	Medium
		Goal : 1-Update Goal Information	High
		Nutrition : 1-Viewing Calories breakdown 2-Viewing nutritions 3-Checking macros	High
		Remainders : 1-Add Remainder 2-Delete Reminder 3-Activate or Deactivate Remainder	Medium
		Logout : Logout from account	Medium
11	UI/UX	UX/UI Overall App Design	Medium

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5. Entry Criteria

Define the minimum eligibility or the minimum set of conditions that should be met in order to start the testing work.

- Test plan approved
- Test environment stable and ready
- Test cases written and approved
- Test tools ready
- Previous test phase's exit criteria met
- Test resources available

6. Exit Criteria

Define the minimum eligibility or the set of conditions that should be met in order to close a particular project phase.

- Test case completion
- Number and severity of open defects
- Passing of test objectives

7. Item Pass/Fail Criteria

Define the Pass/Fail criteria to fail a test.

- **Pass -** A test case passes when the execution of the test case as documented yields the documented expected results.
- **Fail -** A test case fails when the execution of the test case as documented yields a system failure missing feature or results other than the documented expected results.

8. Suspension/Resumption Criteria

Define the testing Suspension/Resumption criteria.

- **Suspension Criteria** - Testing may be suspended when the execution of the test case as documented yields a system failure or missing feature. In other words, this section outlines the circumstances that would result in the partial or complete suspension of testing.
  1. Sanity check is failed:
  It is a test to assess either the result of a specific calculation or a claim could be true. It is like a smoke test as both of them aim to make sure that weather is reasonable and possible to continue in testing or not.
  2. If the application under test (AUT) becomes inaccessible, in this case testing will stop.
  3. In case the smoke test fails.
  4. If the interdependent modules are not working well together.
  5. if the number of the kind of the defects reaches a point where all the following testing will have no value, it will be wasting testing resources, so you must stop testing.
  6. If some test cases suspended, since their prerequisites tests have been failed, for instance if there are a huge of number of web page navigational fail, this will lead the usability testing will be suspended
  7. when it comes to the financial statement.

- **Resumption Criteria** - When testing resumes after test items are updated to address the cause of suspension, all planned functional test cases will be executed regardless of whether they were executed previously and regardless of the result.

9. Test Deliverables

Define all the test deliverables that will be created and managed during the course of the project. Some examples are:

- Test Plan
- Test cases
- Defect Logs
- Test Reports
- Enhancement Logs

10. Defect Tracking

Define the defect tracking process that will be used to create/manage defects found during the testing. The defects can be designed using the following standards:

- Site Address
- Business Area
- Time and Date the issue occurred
- Detailed description of the issue
- Screen shots of the issue
- Severity of the issue
- Priority of the issue

11. Schedule

Define the overall project schedule and specify the phases and milestones related to quality assurance. The schedule is created by assigning dates to testing activities and should be in agreement with the development schedule to make a realistic test plan.

Activity	Start	End	Days	Resources
Prepare Test Plan				
Review Test Plan				
Prepare Test Cases				
Review Test Cases				
Execute System Test Cases				
Execute Performance Test Cases				
Execute UAT Test Cases				
Regression Testing				

12. Approvals

Identify the names and titles of all the persons responsible for approving the plan.

Approver Name	Title	Signature	Date
	Functional Coordinator		
	Lead Business Analyst		
	Project Manager		
	QA Analyst		