Group 4

The Health and Fitness
<Iteration/ Master> Test Plan

Version 1.0

Revision History

Date	Version	Description	Author
4/12/2024	1.0	Introduction	Vũ Thái Thiện
		Target test item	Vũ Thái Thiện
		Hardware requirements	Vũ Thái Thiện
		People and Roles	Trương Thuận Kiệt
		Software in the Test Environment	Nguyễn Huỳnh Minh Quang
		Productivity and Support Tools	Ngô Thanh Phương Dương

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1.   Introduction

This document outlines the test plan for The Health and Fitness project, providing a comprehensive overview of objectives, scope, and approach to testing. The plan aims to ensure the software meets requirements, is defect-free, and performs well under expected conditions. It is intended for the project team, including testers, developers, and managers, and includes detailed descriptions of testing strategy, environment requirements, roles, and timelines.

2.   Target Test Items

- **Personal Workout Plans:** Create, and manage plans.
- **Personal Workout Plan Details:** Add, delete. edit training metrics, swap position of exercise in personal plan.
- **Exercise Library:** Search and filter exercises.

3.   Environmental Needs

3.1   Hardware Requirements

Desktop, laptop, computers: minimum 8 GB RAM, 2.5 GHz processor, 256 GB hard drive.

3.2   Software in the Test Environment

The following base software elements are required in the test environment for this *Test Plan*.

Software Name	Purpose	Version	Type and Other Notes
Visual Studio Code	Website develop environment	1.95.3	Code Editor/Debugger
Firefox		132.0.1	Internet Browser
Google Chrome	Web browser for testing	131.0.6778.86	Internet Browser
Microsoft Edge		131.0.2903.70	Internet Browser
Windows 11, 64 bit	Test environment platform	23H2 for x64	Operating System

3.3   Productivity and Support Tools

The following tools will be employed to support the test process for this *Test Plan*.

Tool Category or Type	Tool Brand Name	Vendor or In-house	Version
Defect Tracking	MS Excel 2010	MS	2010
Documentation	Google docs	Google	Latest
Source code management	GitHub	GitHub, Inc	3.15.0
API testing	Postman	Postman, Inc	11.21.0
Unit and integration testing	Vitest	Anthony Fu, Matías Capeletto and Vitest contributors	2.1.5

4.   Responsibilities, Staffing, and Training Needs

4.1   People and Roles

This table shows the staffing assumptions for the test effort.

Human Resources		
Role	**Minimum Resources Recommended** **(number of full-time roles allocated)**	**Specific Responsibilities or Comments**
Test Manager	1 full-time (Vũ Thái Thiện)	Provides management oversight. Responsibilities include: ● Planning and organizing test activities. ● Defining testing scope and objectives. ● Acquiring resources (tools, personnel). ● Advocating for testing priorities and quality standards. ● Reporting to stakeholders. ● Evaluating the overall effectiveness of the test effort.
Tester	2 full-time (Vũ Thái Thiện, Văn Diệp Bảo Duy)	Implements and executes the tests. Responsibilities include: ● Developing functional test cases for features like user registration, login, fitness tracking, and recommendations. ● Executing test cases and suites across different platforms. ● Logging results and analyzing failures. ● Identifying and reporting defects, particularly in usability, performance, and security features. ● Documenting incidents and validating fixes.
Test System Administrator	1 full-time (Văn Diệp Bảo Duy)	Ensures the test environment and assets are managed and maintained. Responsibilities include: ● Setting up and maintaining hardware/software configurations (Windows, macOS, browsers, etc.). ● Managing test management systems and automation tools. ● Supporting team members with access issues. ● Recovering and troubleshooting test lab environments.