POWER PULSE QA TEST PLAN

1. Introduction

This document outlines the purpose and scope of the testing activities to be carried out as part of the GoIT Software Testing Specialist Course Final Project.
 It defines the methods to be applied, task distribution, resources to be used, components to be tested, and the planned timeline.

2. Purpose and Scope

The purpose of this test plan is to document all the details of the planned tests in order to ensure that the software meets quality standards.
The tests cover the following modules::

- User Login (Login)

- User Registration

- Logout and Session Management

- Profile Update

- Password Reset

- Access Control for Registered/Unregistered Users

- Confirmation/Verification Systems

- Product, Exercise, and Diary (User Journal) Search, Filtering, and Adding

- UI Compatibility and Device Testing

- API Validation Testing

- Prioritizing User Experience (UX)

- Data Consistency Testing

3. Test Strategy

The testing process will include manual testing methods.

The test types are:
 - Functional Testing
 - UI & UX Testing
 - API Testing (Postman, Swagger)
 - Static Testing (Review)
 - Data Accuracy Testing

4. Items to Be Tested

- Web Interface

- Backend API Endpoints

- UI Compatibility

- User Authorization and Authentication

- Login - Logout Management

- Calorie Tracking and Calculation

- Confirmation/Verification Systems

- Product, Exercise, and Diary (User Journal) Integration

5. Items Out of Test Scope

Security: Security tests such as data encryption are not included within the scope of this test plan.

Performance: System behavior under load, response times, stress and endurance tests are excluded from the scope of this test plan.

6. Test Environment

- Operating Systems: Windows 11 Version 24H2, macOS Sequoia Version 15.1.1 (24B91),

- Browsers: Chrome, Firefox, Safari, Opera

- Mobile: Android 13, iOS 18

- Tools: Trello, Postman, Swagger ,Responsively , JWT

7. Roles and Responsibilities

- Scrum Master: Responsible for planning the team's work, creating and maintaining the Trello board, tracking each team member's tasks and their completion timelines, and preparing the final presentation upon completion of the test project.
- QA Test Team Leader: Responsible for the preparation and management of the test plan, tracking bug reports, providing technical support, and the preparation of the test plan, test report, and bug report.
- QA Engineers: Responsible for writing test cases, executing tests, and tracking bugs.

Proje Scrum Master	Damla Patterson
QA Team Lead	Handan Çileli
QA Engineer	Begüm Dökmetaş
QA Engineer	Dilan Balaman
QA Engineer	Gamze Merve Bal
QA Engineer	Musa Eren Tanrıöver
QA Engineer	Nuray Elmas

8. Success and Completion Criteria

- Successful completion of all high-priority test scenarios
- Bug reports must be created and documented for all critical-level defects
- At least 90% of all defined tests must be completed

9. Timeline

- Test Planning: 11.06.2025 - 12.06.2025
- Test Case Creation: 13.06.2025 - 19.06.2025
- Test Execution: 20.06.2025 - 24.06.2025
- Reporting and Closure: 25.06.2025

10. Entry and Exit Criteria

10.1 Entry Criteria

- The required test environment must be set up.
- The test version must have been received from the development team.
- Requirement documents must be completed and approved.
- Necessary access permissions must be granted to the test team.
- The test team's task and responsibility distribution must be completed.
- Test tools must be installed on the personal computers of the test team members and configured appropriately for the relevant test scenarios.

10.2 Exit Criteria

- All planned test scenarios must have been executed.
- Critical bugs have been reported on the project board in Trello.
- Test coverage has reached at least 90%.
- Test results have been reported and shared with the relevant stakeholders.
- The final test report containing the test results has been prepared and shared with the stakeholders.
- Documentation (test plan, test cases, bug reports) is kept up-to-date and accessible.

11. Risks and Mitigations

- Last-Minute Changes in Requirement → The test plan will be kept flexible.

- There may be team member reductions. → Immediate action will be taken, and a new project member will be provided.
- There may be unclear or missing items in the documentation → The Project Manager will be consulted.

12. Approval

Test Administrator: Handan Çileli   Tarih: 11.06.2025
Project Administrator: Emine Öz   Tarih: 11.06.2025