Software Requirements Specification

for

Smart Health Monitoring Application

Version 1.0 approved

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1. Introduction

1.1 Purpose

The purpose of the Smart Health Monitoring Application is to allow users to track their lifestyle and see ways in which they can improve to become more healthy. The app calculates physical, dietary, and activity metrics.

1.2 Document Conventions

SRS refers to the acronym of Software Requirement Specifications

When enumerating requirements, the following standard is used:

F[X]. Refers to some functional requirement, where X is a number.
N[X]. Refers to some nonfunctional requirement, where X is a number.
O[X]. Refers to some other requirement, where X is a number.

1.3 Intended Audience and Reading Suggestions

This document is intended for the team of Sendit, consisting of developers, testers, and a project manager. This document will be used by the team as a guideline on the steps to take when developing, testing, and maintaining the software. The document can also be used by future teams looking to build similar software. The recommended reading sequence for this document is the order in which it is written. The project manager as well as developers should have a strong understanding of all sections to ensure that the software is built aptly. While it is important for the testers to understand the entire document as well, testers should mainly focus on the sections pertaining to the functional and nonfunctional requirements to ensure that each requirement was correctly implemented.

1.4 Product Scope

The software is to be used by users who wish to maintain a healthy lifestyle or see how they can work towards improving their current lifestyle. The benefits for the user are that they can work to achieve a healthier lifestyle, and they can see metrics about their current lifestyle.

1.5 References

This SRS will refer to the documentation that is provided by Professor Khalid.

2.   Overall Description

2.1   Product Users

The users of the product will be customers who want to stay healthy. The product will be a good guideline for people who are pursuing healthy lifestyle. Users can keep track of various biometrics, such as step count, caloric intake, BMI level, and several physical attributes (weight, height, etc.)

2.2   Operating Environment

This software will be used on Android devices and will be run on an operating system that is at least Android 6.0 (Marshmallow).

2.3   Assumptions and Dependencies

We assume that the user will provide information on their personal details and physical attributes and food intake. It is safe to assume that AWS is a reliable database. We also assume that the database for Food items with its fats, carbs, and proteins level is a good model.

3.   Functional Requirements

The functional requirements are as follows:

F1. Users must login to the app before using any of its features.
F2. Users can enter their food intake.
F3. Users can receive guides concerning their dietary intake.
F4. Users can see a graph showing their daily dietary intake with a marked limit.
F5. Users can have food suggested to them by the app.
F6. Users can track their steps with the app.
F7. Users can enter in and update their weight and height.
F8. Users can see a history of their data over time.
F9. Users can see their calculated BMI (body-mass index).
F10. Users can view their caloric intake.
F11. Allow users to set goals pertaining to daily calorie intake, daily steps, etc.
F12. The software should be able to distinguish if the user whether the user is walking or in a vehicle.

4.   Nonfunctional Requirements

N1. This application must have an intuitive user experience.
N2. The user must stay logged in after signing in.

N3. App must show quantitative and visual statistics about their dietary intakes that is easy to read.

N4. The app will send user notifications to show daily statistics that is able to be toggled on or off in the settings.

N5. Users should only have access to information pertaining to himself/herself and has no way to access any other information belonging to other users.

N6. Notify user if they reach certain milestones (i.e. 10 straight days of 10000 steps)

N7. The application should load in a reasonable time, that is, no longer than 30 seconds.

5.   Other Requirements

N/A.