\<FitUS\>
Vision Document

Version \<1.1\>

Revision History

Date	Version	Description	Author
<15/06/23>	<1.0>	<The initial version of the Vision Document>	<Team 104>
<27/06/23>	<1.1>	<Detailed version of the Vision Document, including: 1. Fully complete the document (added missing sections 4 and 5); 2. Make changes to some parts in the document>	<Team 104>

Table of Contents

Vision (Small Project)

1. Introduction

The purpose of this **Vision Document** is to collect, analyze, and define high-level needs and features of the FitUS website. It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist. The details of how the **FitUS** website fulfills these needs are detailed in the use-case and supplementary specifications.

The introduction of the **Vision** document provides an overview of the entire document. It includes the purpose and references of this **Vision** document.

2. Positioning

2.1 Problem Statement

The problem of	Monitoring health-related indicators (height, weight, BMI, blood sugar, body-fat level, etc.).
affects	People who need to monitor their personal health.
the impact of which is	Unfavorable health indicators, lower the confidence of those wanting to stay fit.
a successful solution would be	Help people keep track of changes in their health indicators so they may determine their current state of health and make appropriate dietary and exercise changes to maintain a balanced body and good health.

2.2 Product Position Statement

For	Users who are interested in their health.
Who	Tracking health, getting fit.
The (product name)	healthfitus.vn.
That	Permits users to enter health-related data; the website stores the information, displays the users' health indicators, and tracks changes over time. Additionally, the website calculates the user's BMI value and suggests ideal nutrients they should consume based on their current state of health.
Unlike	The websites that are only dedicated to weight loss: fooducate.com, sparkpeople.com, etc
Our product	Free of charge, encouraging them to use the website to take care of their health. Consequently, forming a routine that enables them to constantly monitor their health and physical well-being.

3.   Stakeholder and User Descriptions

3.1   Stakeholder Summary

Name	Description	Responsibilities
Development team	Members of group 104	- Ensures that the system will be completed within the limited time maintainable in the future. - Monitor the project's progress
Assigned teaching assistant	Teacher Bui Tan Loc Teacher Tran Duy Thao	- Give comments, advices and directions to the development team - Evaluate the development team's performance

3.2   User Summary

Name	Description	Responsibilities	Stakeholder
End-users	-Anyone who accesses the website	- Report errors to the administrator if encountering any. - Use the website features	Self-represented
Administrator	- Members of group 104	- Manage the website. - Manage the list of accounts.	Self-represented

3.3   User Environment

Individual users can independently explore through all of the features that are offered on the website if they can access it using their electronic devices (laptops, mobile phones, etc.). Each feature only takes about 2-5 minutes for the user to use. However, login/sign up features may take more than 5 minutes for the users not used to login/sign up form.

Access to the website requires an internet connection. The website is compatible with some most used browsers, including Microsoft Edge, Google Chrome, Safari, etc. There are no third-party apps integrated in the website.

There are no plans to create a mobile version of the application in the near future. However, it might be taken into account based on the users' interest in the application.

3.4   Alternatives and Competition

- *Alternatives*

    - The stakeholder can buy developed products or services with established users like We Do Pulse or Personal Health Monitor to reduce risks.

    - Build an app based on the foundation of already successful apps or with experienced developers to reduce costs.

● ***Competition***

	Greatist.com	***Calculator.net***	***MyFitnessPal.com***	***Our website*** ***FitUS (healthfitus.com)***
User account & data storage	X		X	X
Records of health indicators		X	X	X
BMI calculator		X	X	X
Blood pressure, glycemic index, heart health			**Premium only**	X
Multi-data health chart		X		X
Detailed comments on health information			X	
Suggestions about dietary	X		**Premium only**	X
Food nutrition analysis	X		**Premium only**	

4.   Product Features

No.	Feature	Description	Priority
1	Sign in/ sign up an account	Allowing users to sign in/ sign up their account to fully access the features of the website	High
2	Edit profile	Users can change, update their profile (like changing full name, date of birth, etc)	Medium
3	Health records	Display all the health information, BMI values, personal information (fullname, date of birth, etc.)	High
4	Edit health records	Users add and update personal health information monthly and the system will save those data in the database. These data can be used in other features.	High
5	Health Monitoring	With the entered data in "Edit health records", the system will analyze and generate graphs and charts based on health indicators. This allows users to have an overview of their health status over a period of time. Therefore, they can identify which health indicators need attention and have preventive methods for future illnesses.	High
6	BMI calculator	The BMI will be calculated based on height and weight data that users provided. It helps determine the current state of the body, whether it is overweight or undernourished, and to what extent. By knowing BMI, users can plan appropriate weight loss or nutritional supplementation strategies.	Medium
7	Food portion consultant	Users can choose their current body type and then choose the ideal one. Then, the website will give a general nutritious diet (not for a specific person) corresponding to achieving the ideal physique.	Medium

5.   Non-Functional Requirements

Non-Functional Requirements are important for every application, they affect the experiences of users globally. Customers who utilize this application service run the risk of experiencing negative outcomes due to external factors. So Non-Functional Requirements are built to give information about applicable standards, hardware, or platform requirements. Moreover, performance requirements and environmental requirements are estimated there. Below is some information on Non-Functional Requirements:

Programming language: JavaScript for developing a website (HTML, CSS, ExpressJS and MongoDB are essential to help build the website to work in an appropriate state)

List applicable standards (hardware): Any device with a browser app that can connect to the internet and visit a website application is required to use this application service.

System requirements:

- In PC, the client component of the system shall run on Window 7 or higher to have a high performance.

Security requirements:

- Personal information of one user must be hidden from the other users.
- The URL for changing the password must only be given to the first registered email when a user forgets their account's password.

Performance requirements:

- Each page should load within 2 seconds
- Memory usage should be between 50MB and 500MB
- Client/ Server Connection: 1MB/second
- Concurrent users: In the standard condition, this application allows 50 concurrent users

Integrity requirements:

- Input floating point values (like height, weight, BMI values) must be round up to a specific format

Scalability requirements:

- The server can upgrade its graphics to execute more transactions.
- Able to separate a Database on another server and source code back-end on another server

Extensibility requirements:

- Able to upgrade a sign in/ sign up feature by signing in and signing up with other applications such as Facebook or Google, which does not affect the older feature before.
- Able to add more kinds of graphs that visualize data, which does not affect the older feature before.
- Able to add more kinds of calculators based on user input, such as RMR value, Height value, which does not affect the older feature before.
- Able to explore other information users should input to calculate, which does not affect the older feature before.

Maintainability requirements:

- Maintaining the website must not be taken more than 30 minutes.
- Each feature must be reviewed carefully to minimize bugs and errors before publishing.
- The source code must be reviewed carefully before.

Usability requirements:

- Menu features must have three components, the first component is BMI calculator feature, the second one is Health Monitoring feature and the last one is Food portion consultant feature.

- Editing health records requires high tolerance. Meaning that when user input information and save, the removed information is announced to user to input again, not delete all information.
- The UI in this project must be friendly-user, modernly designed, and refer to some other UI project such as Facebook, Youtube, etc.
- UX in this project must be designed as part of the Website Layout structure, which is often divided into headers, menus, content and footer.
- Applying features in one interactive session with the user (ignoring the confirm step)