

Software Requirements Specification (SRS) for AI Health Advisor

A Software Requirements Specification (SRS) document for an AI Health Advisor would typically outline the functional and non-functional requirements of the system. Here's a template that you can use as a starting point. Keep in mind that the specifics may vary depending on the exact scope and goals of your AI Health Advisor project.

1. Introduction

1.1 Purpose

The purpose of this document is to provide a detailed overview of the requirements for the development of an AI Health Advisor.

1.2 Scope

The AI Health Advisor will be an intelligent system designed to assist users in managing their health by providing personalized advice and information.

1.3 Definitions, Acronyms, and Abbreviations

- AI: Artificial Intelligence
- SRS: Software Requirements Specification

2. Overall Description

2.1 Product Perspective

The AI Health Advisor will function as a standalone system, interacting with users through a user interface. It may integrate with external health databases and APIs to gather relevant information.

2.2 Product Features

1. User Registration and Profile Management
2. Health Data Input and Tracking
3. AI-driven Health Advice
4. Integration with External Databases/APIs
5. Alerts and Reminders

2.3 User Classes and Characteristics

- End Users: Individuals seeking health advice.
- Administrators: System administrators responsible for managing user accounts and system settings.

2.4 Operating Environment

The system will operate on various platforms, including web browsers and mobile devices.

3. System Features

3.1 User Registration and Profile Management

3.1.1 Description

Users can create accounts, log in, and manage their profiles.

3.1.2 Requirements

- The system shall provide user registration with email verification.
- Users shall be able to log in securely.
- Users shall be able to update their profiles.

3.2 Health Data Input and Tracking

3.2.1 Description

Users can input and track their health data, including medical history, symptoms, and lifestyle information.

3.2.2 Requirements

- The system shall allow users to input and update health data.
- Health data shall be stored securely.

3.3 AI-driven Health Advice

3.3.1 Description

The AI Health Advisor shall analyze user data and provide personalized health advice and recommendations.

3.3.2 Requirements

- The system shall utilize machine learning algorithms to analyze user data.
- Health advice shall be presented in a clear and understandable format.

3.4 Integration with External Databases/APIs

3.4.1 Description

The system may integrate with external health databases and APIs to enhance its information database.

3.4.2 Requirements

- The system shall be capable of integrating with specified external health databases and APIs.
- Integration shall be secure and compliant with relevant regulations.

3.5 Alerts and Reminders

3.5.1 Description

Users shall receive alerts and reminders for medication, appointments, and health goals.

3.5.2 Requirements

- The system shall allow users to set alerts and reminders.
- Alerts shall be delivered through email or push notifications.

4. Non-functional Requirements

4.1 Performance

- The system shall respond to user queries within 2 seconds.
- The system shall support at least 10,000 concurrent users.

4.2 Security

- User data shall be encrypted during transmission and storage.
- Access to health records shall be restricted based on user roles.

4.3 Usability

- The user interface shall be intuitive and accessible to individuals with varying levels of technical proficiency.

5. Constraints

- The system shall comply with relevant health and privacy regulations.
- The development shall adhere to a predefined budget and timeline.

6. Sign-off

The undersigned agree that this Software Requirements Specification accurately reflects the needs and expectations of the stakeholders.