HealthSync

This template provides a structured framework for documenting detailed software requirements. It ensures clarity, completeness, and traceability throughout the software development lifecycle.

# Introduction

**1.1 Purpose**

* Clearly state the purpose of this document.
* Define the scope and objectives of the software project.

**1.2 Scope**

* Describe the boundaries of the software system.
* Identify what the software will and will not do.

**1.3 Context**

* Explain the context in which the software will operate.
* Identify the stakeholders and their roles.

**1.4 Definitions, Acronyms, and Abbreviations**

* Provide a glossary of terms specific to the project.
* List and define all acronyms and abbreviations used.

**1.5 References**

* Cite any external documents referenced in this SRS.

# Overall Description

**2.1 Product Perspective**

* Describe the software's relationship to other products or systems.
* Explain whether it is a standalone product, a component, or an enhancement.

**2.2 Product Features**

* List the major features and functions of the software.
* Provide a brief description of each feature.

**2.3 User Classes and Characteristics**

* Identify the different types of users who will interact with the software.
* Describe their characteristics and skill levels.

**2.4 Operating Environment**

* Specify the hardware, software, and network requirements for the software to operate.

**2.5 Design and Implementation Constraints**

* Identify any constraints that may impact the design or implementation of the software.
* These could include technology limitations, regulatory requirements, or budget constraints.

**2.6 User Documentation**

* List the user documentation that will be provided with the software.
* This could include user manuals, online help, or tutorials.

**2.7 Assumptions and Dependencies**

* Document any assumptions made about the project or its environment.
* Identify any external dependencies that the software relies on.

# System Features

**3.1 System Feature 1**

* **3.1.1 Description and Priority**
  + Provide a detailed description of the feature.
  + Assign a priority level (e.g., high, medium, low).
* **3.1.2 Stimulus/Response Sequences**
  + Describe the expected input and corresponding output for the feature.
* **3.1.3 Functional Requirements**
  + List the specific functional requirements that the feature must fulfill.

**3.2 System Feature 2**

* Repeat the above format for each system feature.

# External Interface Requirements

**4.1 User Interfaces**

* Describe the user interface design principles and guidelines.
* Specify any screen layouts, menus, or input/output formats.

**4.2 Hardware Interfaces**

* Identify any hardware devices that the software will interact with.
* Specify the communication protocols and data formats used.

**4.3 Software Interfaces**

* Identify any external software systems that the software will interact with.
* Specify the APIs, data formats, and communication protocols used.

**4.4 Communications Interfaces**

* Describe any communication protocols or networks that the software will use.

# Non-Functional Requirements

**5.1 Performance Requirements**

* Specify the response times, throughput, and resource utilization requirements.

**5.2 Safety Requirements**

* Describe any safety-critical functions and the measures taken to ensure safety.

**5.3 Security Requirements**

* Specify the security measures to protect the software and its data.

**5.4 Software Quality Attributes**

* Define the desired quality attributes of the software, such as reliability, maintainability, and usability.

# Appendix

Include any additional information or supporting documentation as needed.

# Approval

* **Signatures and Dates**
* Obtain signatures from relevant stakeholders to indicate their approval of the SRS.