Software Design Specification

Your Name or Team

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Contents

1 Introduction

1.1 Purpose

Define the purpose of this document, its intended audience, and how it should be used.

1.2 Scope

Describe the scope of the software design, including system name and any relevant version or model numbers.

1.3 Definitions, Acronyms, and Abbreviations

Explain the terms, acronyms, and abbreviations used in this document.

1.4 References

Provide a complete list of documents referenced elsewhere in the document.

1.5 Overview

Briefly summarize the rest of the document.

2 System Overview

Provide a general description of the system including its functionality and matters related to the overall system and its design.

3 System Architecture

3.1 Architectural Design

Describe the software's architecture, referencing any major frameworks or methodologies used.

3.2 Decomposition Description

Detail the breakdown of the software's architecture, if applicable.

3.3 Design Rationale

Explain the reasons behind the chosen architectural and design approaches.

4 Data Design

4.1 Database Description

Detail the database design, structure, and any related data management systems.

4.2 Data Structures

Describe any data structures used in the system and their relationships.

5 Component Design

Detail the design of the software components, including their responsibilities and interactions.

6 Interface Design

6.1 External Interfaces

Detail the design of external interface connections, protocols, and standards.

6.2 User Interfaces

Describe the design of the user interface, including screen layouts and user interaction flows.

7 Dynamic System Design

Explain the dynamic processes, activities, and tasks within the system, including any state diagrams or sequence diagrams.

8 Non-Functional Requirements

Detail the design considerations for non-functional requirements, including performance, security, and reliability constraints.

A Appendix A: Glossary

B Appendix B: Feasibility Study

C Appendix C: Issue Log