# System Design Document

**Purpose:** This document outlines the architecture, components, interfaces, and data flows of the **{systemName}**, to ensure the system meets the functional and non-functional requirements specified. It serves as a guide for developers, testers, and stakeholders during all stages of the software development lifecycle.

## 1. Overview

**System Name:** {systemName}

**Prepared By:** {author}

**Date:** {date}

**Version:** {version}

## 2. System Objectives

{systemObjectives}

## 3. Scope

{systemScope}

## 4. Assumptions and Constraints

{#constraints}

* {item}

{/constraints}

## 5. Stakeholders

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Contact** |
| {#stakeholders}{name} | {role} | {contact}{/stakeholders} |

## 6. System Architecture

**Overview:** {architectureOverview}

### 6.1 Components

{#components}

* {componentName}: *{description}*

{/components}

### 6.2 System Diagram

{systemDiagramDescription}

Diagram Image/Link: {systemDiagramLink}

## 7. Data Design

**Data Flow Description:** {dataFlowDescription}

### 7.1 Data Entities

|  |  |
| --- | --- |
| **Entity Name** | **Description** |
| {#dataEntities}{entityName} | {description}{/dataEntities} |

### 7.2 Data Flow Diagrams

{#dataDiagrams}

* **{title}:** {description}

{/dataDiagrams}

## 8. Interfaces

### 8.1 External Interfaces

{#externalInterfaces}

* **{name}** (*{type}*): {description}

{/externalInterfaces}

### 8.2 Internal Interfaces

{#internalInterfaces}

* **{name}**: {description}

{/internalInterfaces}

## 9. Security Considerations

{securityConsiderations}

## 10. Performance Requirements

{#performanceRequirements}

* {requirement}

{/performanceRequirements}

## 11. Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
| {#glossary}{term} | {definition}{/glossary} |

## 12. Appendices

{appendixNotes}