1. Introduction

This section provides a clear overview of the system design and objectives. It defines the scope and outlines the key technical goals that the project aims to achieve. The system will focus on scalability, maintainability, and high availability.

2. Functional Requirements

This section details the essential functions the system must perform, including user authentication, data processing, and reporting capabilities. Each requirement is described with precise acceptance criteria to ensure clarity.

3. Non-functional Requirements

Performance, reliability, and security requirements are described here. The system must handle at least 10,000 concurrent users and ensure 99.9% uptime. Security includes role-based access and data encryption.

4. System Architecture

A detailed description of the system's architecture is provided, including diagrams and component interactions. The architecture supports modular expansion and integrates with third-party APIs for extended functionality.