

A Software Requirements Specification (SRS) for a Canteen Management System (CMS) outlines the detailed functional and non-functional requirements of the system. Below is an example of an SRS for a CMS based on PHP, HTML, and CSS:

Software Requirements Specification (SRS) for Canteen Management System

1. Introduction

1.1 Purpose

The purpose of this document is to provide a detailed description of the requirements for the Canteen Management System (CMS). It defines the functional and non-functional requirements, system constraints, and interfaces.

1.2 Scope

The CMS will automate and streamline canteen operations including menu management, order processing, inventory tracking, and reporting. It will be accessible to both administrators and customers.

2. System Description

2.1 System Overview

The CMS will be a web-based application built using PHP for server-side scripting, HTML for content structure, and CSS for styling. It will provide an intuitive interface for efficient canteen management.

2.2 System Features

- User Authentication and Authorization
- Menu Management
- Order Processing
- Responsive Design

3. Functional Requirements

3.1 User Authentication and Authorization

- Administrators can create and manage accounts.
- Users can register, log in, and reset passwords.
- Different access levels for administrators and customers.

3.2 Menu Management

- Administrators can add, edit, and remove menu items.
- Set prices, availability status, and categories.

3.3 Order Processing

- Users can browse the menu, select items, and place orders.
- Calculate total cost and provide a checkout process.

3.4 Payment Integration

- Integrate secure payment gateways for online transactions.
- Provide a seamless payment process for users.

3.5 Inventory Management

- Track available stock for each menu item.
- Send alerts for low-stock items and update inventory after orders.

3.6 Feedback and Rating System

- Users can provide feedback and ratings for ordered items.
- Administrators can view and analyze feedback.

3.7 Reporting and Analytics

- Generate reports on sales summaries, popular items, and user feedback.
- Provide insights for decision-making.

4. Non-Functional Requirements

4.1 Security

- Implement encryption protocols for data protection.
- Ensure secure authentication and authorization mechanisms.

4.2 Performance

- System should handle concurrent user requests efficiently.
- Response times should be within acceptable limits.

4.3 Usability

- Intuitive user interface with easy navigation.
- Responsive design for various devices.

5. Constraints

- System should be compatible with modern web browsers.
- PHP, HTML, and CSS are the preferred technologies.

6. References

- List any relevant sources or documents that were used in creating this SRS.