

**Software Requirements Specification**

**for**

**Departmental Store Management System**

**Version 1.0**

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1. **Introduction**

**1.1** **Purpose**

*The purpose of this software requirements specification is to define the functional and non-functional requirements for the development of an efficient management system for a departmental store. The system aims to provide owners and employees with the necessary tools to streamline operations, enhance customer service, and improve overall store management. By implementing this system, the departmental store can effectively handle tasks such as supplier management, customer management, inventory control, and loyalty program management. The software will store relevant information in a user-friendly manner, facilitating easy access and retrieval of data for informed decision-making and efficient day-to-day operations.*

**1.2** **Document Conventions**

*This SRS document follows the standard typographical conventions for headings and subheadings. Headings are formatted in size 22 font, subheadings are formatted in size 18 font, secondary subheadings are formatted in size 12 font, and regular text is formatted in size 10 font.*

*Each requirement statement will have its own priority level assigned based on its importance and urgency.*

*Priorities for higher-level requirements will not necessarily be inherited by detailed requirements.*

*The SRS is organized into sections that cover various aspects of the Departmental Store Management System. The sections are arranged in a logical order, starting with the introduction and then moving on to the system overview, functional requirements, non-functional requirements, and finally, the appendices.*

**1.3** **Intended Audience and Reading Suggestions**

*The Departmental Sotre Management System SRS document is intended for a diverse group of readers, including developers, project managers, marketing staff, users, testers, and documentation writers. Each reader type will be interested in different aspects of the system and will require information specific to their role in the project.*

*The SRS document contains an overview of the Departmental Store Management System project, including the purpose, scope, and objectives. It also includes detailed functional and non-functional requirements, system architecture, and design constraints.*

*For developers, the SRS provides information on the system's technical requirements, including programming languages, software tools, and database management systems. It also includes detailed system architecture and design specifications.*

*Project managers will be interested in the project timeline, budget, and resource allocation. The SRS document outlines the project's milestones and deliverables, as well as any risks or potential issues that may arise during development.*

*Marketing staff will want to know how the Departmental Store Management System will benefit users, and the SRS document explains the system's features and how they will enhance the user experience. It also includes information on how the system will be marketed and promoted.*

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*Users will be interested in the system's functionality and ease of use. The SRS document provides a detailed overview of the store management features, including any user interfaces and interactions.*

*Testers will require information on the system's testing requirements, including test plans, test cases, and expected results. The SRS document provides detailed test cases and expected outcomes for each feature of the Departmental Store Management System.*

*Documentation writers will need to understand the system's technical and functional requirements to create user manuals and other documentation. The SRS document provides a comprehensive overview of the system, including technical specifications and user requirements.*

**1.4** **Product Scope**

*The Departmental Store Management System software is a web-based application designed to provide an efficient and user-friendly platform for store owners and employees to manage store dynamics in real-time. The main purpose of the software is to simplify the process of sales of goods, loyalty management and supplier onboarding.*

*The software's primary benefits include:*

*User-Friendly Interface: The application has an intuitive interface that allows users to easily add/view/update their suppliers/customers/orders.*

*Loyalty Management: The software provides real-time creation of purchased Loyalty and manages benefits on bill generation.*

*Supplier Onboarding: The software streamlines the supplier onboarding process, allowing the owner/employee to add suppliers or multiple goods to a supplier.*

*The objective of the Departmental Store Management System software is to improve the overall experience of store managers while managing the different aspects of running it. By providing a user-friendly platform for all services, the software aims to reduce the stress and inconvenience associated with traditional methods.*

*The software is directly related to corporate goals and business strategies as it aims to enhance the efficiency of a departmental store by streamlining its processes. The software also aligns with the Decent Work and Economic Growth Sustainable Development Goal of the UN.*

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1. **Overall Description**

**2.1** **Product Perspective**

*The management system for the departmental store will serve as a standalone software application designed specifically for the needs of the store owners and employees. It will operate independently, without any direct integration with external systems or dependencies.*

*The system will function as a centralized platform, providing a comprehensive set of features and functionalities to manage various aspects of the departmental store operations. It will act as a source of information and control, enabling efficient communication and coordination between the store and its suppliers, customers, and inventory.*

*While the system will primarily focus on the internal management needs of the departmental store, it should be flexible and scalable to accommodate future enhancements and integrations if required. However, for the purpose of this project, the system will be developed as a self-contained application with its own database to store and manage all relevant information.*

*Overall, the management system will play a vital role in streamlining operations, improving efficiency, and enhancing customer service within the departmental store, enabling the owners and employees to effectively manage suppliers, customers, inventory, and loyalty programs in a centralized and user-friendly manner.*

**2.2** **Product Functions**

* *Add and view customers, products, orders, suppliers*
* *Filter customers, suppliers, orders*
* *Loyalty management*
* *Bill Generation*
* *View Feedback*

**2.3** **Operating Environment**

*The Departmental Store Management System will operate in a distributed computing environment. The hardware platform for the system will be determined by the deployment option selected by the user. The software must be capable of operating on multiple hardware configurations and operating systems, including Windows and Linux. The following software components and applications must be installed and operating properly on the target environment for the software to operate correctly:*

* *Web browsers, such as Google Chrome, Mozilla Firefox, and Microsoft Edge, for accessing the online store management system.*
* *Database management system, such as MySQL or Oracle, for storing and retrieving customer, order and supplier details.*

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**2.4** **Design and Implementation Constraints**

*Security Considerations: The software must ensure the security of user data, including personal information and payment details. All data transmission should be encrypted using HTTPS.*

*Regulatory Policies: The software must comply with all relevant laws and regulations, including those related to payments.*

*User Interface Design: The software must follow the user interface design which helps streamline store processes.*

*Database: The software must use a specific database management system (DBMS)*

*Performance: The software must be able to handle a large number of data and provide responses within an acceptable time frame. This may require the use of load testing and performance optimization techniques.*

*Operating System: The software must be compatible with Windows, Linux and Mac operating systems*

1. **External Interface Requirements**

**3.1** **User Interfaces**

*For the store owners, the system must be easy to view and control. Essentially, the UI is a web-based one where it involves easy to access sections as present on the left side column of the website.*

**3.2** **Interfaces**

*As per the given requirements, the software product will operate on a laptop or a phone. Therefore, the interface between the software and hardware components will be limited to the input/output devices available on a laptop, such as keyboard, mouse, touchpad, and screen.*

*The software will utilize the capabilities of the operating system, including its file system, network capabilities, and any other relevant hardware features. The software must be compatible with the operating system used by the device, which is assumed to be an acceptable browser.*

*Regarding communication protocols, the software product will use standard internet protocols, such as TCP/IP and HTTP.*

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1. **System Features**

**4.1** **Supplier Onboarding**

* *The system shall allow users to register suppliers.*
* *The system shall allow user to add product(s) to suppliers.*
* *The system shall allow user to delete a supplier.*

**4.2** **Loyalty Management**

* *The system shall allow user to purchase loyalty membership and segment into loyalty category.*
* *The system shall allow user to apply automatic discount on bill generation for a loyal customer, according to his/her category.*

**4.3** **Order Management**

* *The system shall allow user to maintain track of paid and unpaid bills.*
* *The system shall allow user to manage and generate bills constantly.*

**5. Other Non-functional Requirements**

**5.1** **Security Requirements***.*

* *Data confidentiality: The system shall ensure the confidentiality of the data entered for customers.*
* *Data integrity: The system shall ensure the integrity of data by preventing unauthorized modification.*
* *Secure communication: The system shall use secure communication protocols for payment/*

**5.2** **Business Rules**

* *Only registered employees and owners can access the booking system.*

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