
Software Requirements Specification

for

Footwear Inventory Management System

Version 1.0 approved

Prepared by COMP C

32 - Siddharth Singh

33 - Vikrant Singh

29 - Hardik Singh

31 - Satyam Singh

Thakur College of Engineering

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

Our proposed Footwear Inventory Management System is a software solution designed to help footwear retailers manage their inventory efficiently. The system will enable retailers to track their inventory levels, monitor product movement, and generate reports that will assist in making informed decisions about purchasing, pricing, and stocking levels.

1.2 Document Conventions

Headings with Arial font style is selected throughout the document with size 14

Content of documents are in Arial size 11

Paper size is fixed to A4

All headings are in bold

1.3 Intended Audience and Reading Suggestions

This SRS will lead the development team's members specially:

- Designer*
- Tester*
- End User*
- Project Manager to implement the customer's need that lead the project to be successful.*

This SRS is organized according to the IEEE's format. Moreover, this will be a legal contract between the client and development organization.

1.4 Product Scope

A footwear inventory management system is a software solution that helps businesses manage their footwear inventory efficiently. It can automate routine tasks, such as inventory tracking and order processing, provide real-time data insights, and streamline operations for businesses of all sizes and types. The scope of a footwear inventory management system is significant, as it can help businesses remain competitive in the global footwear industry by providing them with an efficient and streamlined inventory management solution.

2. Overall Description

2.1 Product Perspective

A footwear inventory management system can be very helpful to shopkeepers in several ways. Here are some key benefits:

Improved inventory accuracy: With a footwear inventory management system, shopkeepers can easily track their inventory levels, know what products they have in stock, and when they need to reorder

Faster order processing: Your software can allow shopkeepers to quickly process customer orders and ship them out, as the system can automatically update the inventory levels, generate invoices, and shipping labels, and manage payment processing.

2.2 Product Functions

Your product is a software for footwear inventory management system, which is designed to help businesses efficiently manage and track their footwear inventory. With your software, businesses can easily keep track of their stock levels, sales data, and customer orders, allowing them to make informed decisions and optimize their operations

Your footwear inventory management system provides a user-friendly interface that allows businesses to easily input and update product information, set up pricing and discounts, manage orders and shipments, and generate custom reports. The software also includes features such as barcode scanning, automatic inventory updates, and real-time sales data tracking, all designed to help businesses streamline their operations and improve their bottom line.

2.3 User Classes and Characteristics

Footwear inventory management systems can be used by a variety of businesses that sell shoes or footwear, including:

Retail stores: Shoe stores, department stores, and other retailers that sell shoes can benefit from a footwear inventory management system to track inventory levels, manage customer orders, and generate sales reports.

Distributors and wholesalers: Companies that supply shoes and footwear to retailers can use the software to manage inventory, orders, and shipments.

Manufacturers: Shoe manufacturers can use the software to manage raw materials, track production, and manage finished goods inventory.

2.4 Operating Environment

This system is a web application and can be operated on any online resource that resource internet.

The minimum requirements for system are:

- *Quad core processor of 1.0 GHz minimum*
- *4 GB of RAM and 512 MB of free RAM at the time of use*
- *ROM can be HDD or SSD*
- *Minimum 1GB of Disk Space*

External storage for databases will not be required as the data is stored in the cloud.

2.5 Design and Implementation Constraints

- *The system will use a non-relational database.*
- *It will employ a modular approach*
- *All the user requirements will be documented before the start of the project*
- *The project team will communicate with the client and the production of new module will begin only after the current version is evaluated.*
- *Industry standards will be maintained during development*

2.6 User Documentation

- *User manual for system introduction*
- *Training Guide for end user and warehouse manager.*

2.7 Assumptions and Dependencies

All the requirements are well-defined and the developer will not make any assumption. If the developers are not clear on any requirements they must report to the Requirements Engineer before proceeding.

3. External Interface Requirements

3.1 User Interfaces

The design of interfaces should be more efficient, improved user experience, reduced costs, enhanced accuracy, greater customer satisfaction and easy to be used by the system users.

4. System Features

4.1 Admin Interface: It comprises of course of a login system which differentiates the users and admin the admin have the functionality to remove or add the shoes that show on the website or in the database.

4.2 User Interface: User is able to buy the products according to his convenience and add it to his personal kart.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

Footwear inventory management system is a real time web based system. The system shall be able to respond to the user initiated actions in a real time environment. The change in the state of an action should not take longer duration. The Database should strictly follow the ACID properties. Doing so the Database will remain in a valid state even in case of occurrence of an unexpected error.

5.2 Safety Requirements

The Data saved in the management system's database should remain safe in case of any situation like fire, earthquake etc. there should be a backup and disaster in order to get back the system's data. A backup of Data stored in the database should be maintained, which will be done using cloud computing

5.3 Security Requirements

Using cloud data storage to ensure security for the data. The application will be available only to the authorized users. Also the web-application should follow the Open Web Application Security Project guidelines.

5.4 Software Quality Attributes

5.4.1 Functionality

The software should provide an efficient and user-friendly interface for inventory management of footwear products. It should allow users to perform tasks such as adding, modifying, and deleting product information, checking inventory levels, generating reports, and performing other relevant tasks.

5.4.2 Reliability

The software should be reliable and perform as expected. It should be able to handle large amounts of data without crashing or losing data. It should be able to recover from errors and failures quickly without losing data.

5.4.3 Security

The software should have a robust security system to prevent unauthorized access to the inventory data. It should provide access control mechanisms, encryption of sensitive data, and protection against potential security breaches.

5.4.4 Performance

The software should be able to perform efficiently and effectively. It should be able to handle large volumes of data and transactions without slowing down or crashing. It should have a quick response time for user requests.

5.4.5 Compatibility

The software should be compatible with other systems and applications. It should be able to integrate with other software systems and databases seamlessly.