
Software Requirements Specification

Clothing Store Management System

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

This project titled "Clothing Store Management System " is built from the perspective of both the employees and employer. It aims to provide the facilities of adding items, generating bills etc. to the employees. It also aims to provide facilities like adding items, deleting items, updating items, generating sales report for a specific tenure, generating bills to the employer. This SRS document is written as to help us to verify and validate our project. It also serves as a user manual for the end users.

1.2 Document Conventions

Heading: Font Size: 16
 Font Style: Bold
 Font: Times New Roman

Sub Heading:
 Font Size: 14
 Font Style: Bold
 Font: Times New Roman

Content:
 Font Size: 12
 Font: Times New Roman

1.3 Intended Audience and Reading Suggestions

The intended audience includes developers, testers, administrators and the users of the system. This SRS document is written as to help us to verify and validate our project. It will be used by testers to check whether the requirements are met. It also serves as a user manual for the end-users.

1.4 Product Scope

The project intends to ease the efforts of the users of the system by providing them with the facilities to generate bills and automatic calculating the final price of the product. It also helps the administrator to generate sales report and calculate the profit for a specific tenure.

1.5 References

The documents and websites referred to, are as follows:

1. IEEE templates for SRS
2. Software Engineering by Roger Pressman
3. www.lucidchart.com

2. Overall Description

This project provides individual account to each user and the administrator.

2.1 Product Perspective

The Clothing Store Management System is a new self-contained product.

The basic idea behind the project is to ease the task of users by allowing them to generate bills and add miscellaneous expenses done.

This project also intends to reduce the effort of the system administrator by allowing them to generate sales reports for the desired period and thus check the net profit of the store. This project also intends to allow the administrator to apply a discount on specific items.

2.2 Product Functions

- Generate bills
- Generate Sales Reports
- Apply discounts on Products
- Add Miscellaneous Reports

2.3 User Classes and Characteristics

The major User classes in the System would be:

1. Employee

- An employee can generate bills.
- He / She can add miscellaneous expenses

2. Admin

- An admin can add, delete, update the products and corresponding details
- He / She can also view the sale report for each and every day.

2.4 Operating Environment

This application can be deployed on a machine which satisfies following requirements -

- Minimum RAM 512MB
- Celeron(Processor) or more
- Hard Disk- 10GB or more
- At least 512KB Cache

2.5 Design and Implementation Constraints

This particular project has been developed Windows 10 with inclusion of certain libraries (mentioned in section 3.3 Software Interfaces) and MySql database. The execution of the project is constrained by machine which satisfies above mentioned specifications or any machine which include specifications resembles the above ones.

2.6 User Documentation

User Documentation components such as user-manuals and tutorials for offline support will be included along with the application.

2.7 Assumptions and Dependencies

Its assumed that user (both the employee and the employer) is well acquainted with GUI and basic usage of desktop applications.

3. External Interface Requirements

3.1 User Interfaces

- The GUI will be developed in PAGE application software
- The error messages will be displayed in Red Colour(Font: Times New Roman, Size=12)

3.2 Hardware Interfaces

- The Item Code will be scanned by a code scanner
- The Bill will be printed with the help of a printer

3.3 Software Interfaces

- The database System used will be MySQL.
- The frontend will be developed using PAGE application software.

- The API used will be MySQLdb and will be coded in PyCharm IDE.

4. System Features

4.1 Sales Data

The user will be able to enter the sales data and generate a bill stating the total amount. This sales data will also be generated in Sales Reports.

4.2 Generation of Sales Report

The system will be able to generate :

- Daily Report
- Weekly Report
- Monthly Report
- Yearly Report

4.3 User Panel

The user can add, delete, update all the backend(database) related items

5. Other Non-functional Requirements

5.1 Performance Requirements

The desktop application is supposed to give optimum performance if the requirements mentioned in Section 2.4 and Section 3 have been met.

5.2 Safety Requirements

Changing or modifying user / products related data from the backend may cause malfunctioning of the desktop application in certain cases. Any such change/modification must be done only under developer's guidance or advice

5.3 Software Quality Attributes

5.3.1 Usability

- The software must have a simple and user-friendly Interface.
- The navigation to various pages should make it more convenient to the users so as to save time and confusion.

5.3.2 Maintainability

Application maintenance should be done regularly to facilitate smooth functioning of the system established.

5.3.3 Portability

Application is compatible with Windows (using MySQL).

6. Other Requirements

Appendix A:Acronyms

Acronyms	Abbreviations
IEEE	Institute of Electrical and Electronics Engineers
GUI	Graphical User Interface
API	Application Programming Interface
MySQL	Microsoft Structured Query Language

Appendix B: Analysis Models

Use Case Diagram



Entity-Relationship Diagram:

Entity Relationship Diagram Example (UML Notation)

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