Software Requirements Specification

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Medicine Shop Software

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1. **Introduction**

It is an application to develop software for medicine shop.

* 1. **Purpose**

The purpose of this document is to present a detailed description of the Medicine Shop. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the system and will be proposed to relevant medical shops for its testing, approval and use.

* 1. **Project Description**

Medicine Inventory cum store inventory system to display relevant information about details of products and retail options for the vendor.

**1.3List of Actors**

**System Administrator, Retailer, Inventory Manager, Customer**

**1.4 Scope of Projects**

To deliver a quick and efficient method to improve retail mechanism along with a hassle free management cum inventory system.

To improve the accessibility of the product and the quantitive management and stock handling thus improving the efficiency in time consumption for the retailer and the customer.

This software system will be a Medical shop software for a regional medicine shop. This system will be designed to maximize the shop’s productivity by providing tools to assist in invoicing the medicine sale process, which would otherwise have to be performed manually. By maximizing the retailer’s work efficiency and production the system will meet the retailer’s needs while remaining easy to understand and use.

More specifically, this system is designed to allow a retailer to manage and communicate with a group of companies and administrators for the supply of medicines on time. The software will facilitate communication between retailers, administrators, and the companies via E-Mail. Preformatted reply forms are used in every stage of the articles’ progress through the system to provide a uniform review process; the location of these forms is configurable via the application’s maintenance options. The system also contains a relational database containing a list of Authors, Reviewers, and Articles.

**1.5 References**

IEEE. IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications*.* IEEE Computer Society, 1998.

**2. Overall Description**

**2.1Functional Requirements**

**2.1.1Use Case**

#### Search Medicine

Retailer

Search Medicine

#### Update Database

Administrator

Update Medicine Database

Manufacturer

Supply Medicine

**Supply Medicine**

Administrator

Manufacturer

Retailer

Customer

Database

Software

Medicine Shop Software

Company

**Brief Description**

The administrator accesses the searches for a medicine and prepares the bill and/or maintains stock inventory.

**Initial Step-By-Step Description**

Before this use case can be initiated, the administrator has already accessed the Medicine Administrative page.

1. The administrator chooses to search by medicine name, category, or keyword.

2. The system displays the choices to the administrator.

3. The administrator selects the item desired.

4. The system presents the details like expiry date, cost, manufacturer, supplier and contents.

5. The administrator chooses the item and makes modifications as per the requirement.

6. The system makes the requested changes which can be used by the retailer as and when required.

### 2.2.4 Retailer Use Cases

The Retailer has the following sets of use cases:

Medicine

Retailer

Invoice

Stock

Inventory

Asset mgmt

### 2.2.4 Admin Use Cases

The Admin has the following sets of use cases:

Insert Info

Admin

Update Info

Database

Abstraction

Feedback analysis

**2.1.2 Data Flow Diagram (DFD 0):-**

**Retailer**

**Admin**

**Vendors**

**Customers**

**2.1.3 Data Flow Diagram(DFD 1):-**

**Pay bill and Recieve Reciept**

**Customer**

**Medical Store Management System**

**Vendor**

**Buy or Ask**

**Retailer**

**2.1.4 Entity Relationship Diagrams:-**

**Customers**

**Retailers**

Sells

Manages

Deals with

**Vendors**

**Admin**

**2.1.5 WORK BREAKDOWN STRUCTURE:-**

**Medical Store Management System**

Stock management

Search Options

Customer Management

Transaction Management

Daily Customer Management

Add Stock

Search Bill

Search Product

Purchase Record

Sales Record

View Stock

Delete Stock

Search Price

Fast Order Processing

Payment System

Profit &Loss

Update &Stock

**2.1.2 Entity Relationship Diagrams**

**Admin Login Credentials**

|  |  |  |
| --- | --- | --- |
| **Data Item** | **Type** | **Description** |
| Admin Name | Text | Name of Administrator |
| Login Id | Text | Login details |
| Password | Pointer | Password |

**Retailer Data Entity**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Item** | **Type** | **Description** | **Comment** |
| Name | Text | Name of Retailer |  |
| Retailer Id | Integer | ID number | Used as key in Database |
| Email Address | Text | Internet address |  |
| Address of correspondence | Pointer | Home Address |  |
| Highest Qualification | Integer | Educational Qualifications |  |
| Phone number | Integer | Mobile number |  |
| Specialty | Category | Area of expertise | May be several |

## 2.3 User Characteristics

The Retailer is expected to be Computer literate and be able to use the software. The main screen of the Medical Store Management System Software will have the search function and a link to “Author/Reviewer Information.”

The Retailer and Admin are expected to be Computer literate and to be able to use the Software with comfort.

The Retailer is also expected to be Windows literate and to be able to use button, pull-down menus, and similar tools.

**2.2 Non Functional Requirements**

The Software will be on a server with high speed Internet capability. The physical machine to be used will be determined by the administrator. The speed of the connection will depend on the hardware used rather than characteristics of this system.

The Software will run on the Admin’s PC and will contain an Access database. Access is already installed on this computer and is a Windows operating system.

The Software interface must follow design conventions which allow for familiar location of menus etc.

Input errors will be returned in red with appropriate message box.

More than three attempts at login and failure will produce a red flag to system administrator.

Response time should be minimum.

No of daily system downs should not be more than 1.

System should automatically update after every transaction.

**2.2.1 System Requirements**

1. Processor : - Intel i7 8th gen
2. RAM : 8 GB RAM
3. Monitor: 30’’ Colour monitor
4. Processor Speed:-2.7 GHZ
5. Hard Disk:-2 TB HDD/SDD
6. CD Drive:-52-X CD ROM
7. Keyboard:-Mercury 110 Keys
8. Mouse:Wireless Mouse

**2.2.2 Performance Requirements**

1. The physician software should be able to support at least three simultaneous users.
2. 95% of the transactions shall be processed in less than one second.
3. Data should be secured and backed up every quarter hour.
4. Power supply should have back up and a disaster recovery plan.
5. System should have a backup and disaster recovery plan.

**2.2.3 Security Requirements**

1. System will use secure database.
2. Staff can just see the products and mark their attendance.They can not edit or modify anything except their personal information.
3. Proper user authentication will be provided.

**2.2.4 Database Requirements**

SQL: (Structured Query Language)

It is used to store data, access data and perform operations on the Database.

* + 1. **Safety Requirements**

The database may get crashed or damaged due to some virus or operating system requirements. Therefore , it is mandatory to have backup of data. UPS/Inverter facility should be there in case of power failure.

1. System should be operable 24 hours a day and accessible in real time.

1. Encryption will enable safe and secure database.
2. Retailer can just see the products and sell them but can’t modify or edit anything except their personal information.
3. Proper User Authentication is provided.
4. There is separate account for admin and user.so that no one else can access the database except the admin.