***SOFTWARE REQUIREMENTS SPECIFICATION***

**Pharmacy Management System**

**Team 1 members:**

Sai Thejas Chillagatu Ramesh - 2837401

Veera Venkata Jagannadham Ganta - 2833181

Rama Koteswara Rao Kolla - 2835029

Rajasekhar Gali - 2836153

# 1.0 Introduction

The Project name “**Pharmacy Management System**”, a medical information system is a client/server-based application.

An Interactive application for managing both stock and billing which helps in maintaining the records of the medicine, the users and store details and reduces the work of searching the medicine. The main aim of this application is to apply technology supporting the pharmacist and the store to reduce the human effort on searching and automation of the billing.

The project has been developed based on “Stock managing” and it’s “billing process” being presently used in the medical stores for storing and retrieving the available information in the store.

The pharmacy management system is intended to increase accuracy, safety, and efficiency in the pharmacy. It is a computer-based system that stores important information.

Pharmacists can use the Pharmacy Management System program to help them methodically manage their pharmacies. When a medicine’s name is input, the Pharmacy Management System can help by providing details about the medicine. A computer displays information about the medicine, such as its dosage and expiration date. In large medical stores, manually handling the specifics of all the drugs becomes very tough. We can keep track of all the medicines by using this pharmacy management system. It is updated with new information as new medicines are introduced, and it includes an expiration date as well as a search option. When we complete the name of a medicine, it displays the medicine’s details.

**1.1 Goals and objectives**

# Goals

* Admin can login through the webpage.
* Admin can view the stock details.
* Inventory of medicines in the pharmacy can be inserted into the database.
* Admin can add new medicines and supplies.
* Admin can edit/delete stock details.
* Admin can enter customers and sales details.

# Objectives

* To easily maintain stocks in the pharmaceutical store.
* To keep track of sales.
* To keep track of medicines and their suppliers.
* To keep track of customer details**.**
* To reduce paperwork.

# 1.2 Statement of scope

This project aims at computerizing the manual process of authorized pharmaceutical dealers visiting the Outlets to buy drugs. Front-end are implemented using HTML, CSS and JavaScript and back end using MySQL and Php language.

Pharmacy management system allows store dealers to maintain a records of drugs available and unavailable. To keep track of sales and suppliers.

In traditional systems registers are used to keep track of day-to-day orders which are messy. In our system details of every vehicle is present in the database and can be accessed easily. Every detail is arranged in a structured way and in a secured way.

# Functional Requirements

* Add medicines and Suppliers
* Can view medicines and suppliers.
* View the stocks available in the store.
* Store details of customer.
* Can keep track of sales.
* Logout.

# Non-Functional Requirements

* Intel Processor required.
* Minimum of 8GB ram required.
* Google Chrome Web browser required.
* Windows 10 Operating System required.
* HTML, CSS, PHP, JavaScript scripting languages are used.
* MySQL 8.0.12 version database is used.
* Apache web server is used.
* PHP Strom IDE is used.

**2.0 Usage scenario**

**2.1 User profiles**

It is a single end application used by the pharmaceutical store manager or employee to maintain the store stocks, customer details and their billings.

**2.2 Use-cases**

* User required to enter the username and password
* If we enter the username and password correct and then it returns you to home page
* Incase of user enter wrong username or password then it shows that wrong user details enter correct username or password.
* Add medicines and Suppliers
* In this the user has access to add the medicines like the name of the drug and the description of the medicine.
* User has access to add the suppliers list to the database.
* Can view medicines and suppliers.
* In this user can view the medicines and its description.
* The user can view the suppliers and the details of the suppliers his name contacts information.
* View the stocks available in the store.
* In this user can view the stock which is available in the store how much left in the store, and which are not present in the store
* Store details of customer.
* In this the user can view customer details like his name and contact information and his address.
* Can keep track of sales.
* User can be able to track the report for the sales.
* Logout
* If the user clicks the logout button successfully logouts the application and then it should be navigated to login page.

**3.0 Data Model and Description**

**3.1 Data Description**

In the admin page we will have login Id so in this C\_id is used as primary key. When the admin is logged in, he used to insert the medicine id and medicine name and medicine description and next we will have suppliers in that the admin used to have whole data of the supplier like admin used to insert the supplier id and supplier name and the address of the supplier. Next if the admin uses to check the stocks, he needs to enter the stock id and medicine id and supplier id in this how much quantity he supplied to the supplier and what stock is remaining in the go down and what’s the price of the medicine and what’s the date which is supplied to the supplier from the admin. Next about sales the admin uses to enter the sales id and the stock id and the customer id and the quantity of the medicine like what the price of this quantity and what date does the admin supplied to the supplier.

**3.1.1 Data Objects**

**Graphical user interface

Description automatically generated with medium confidence**

**3.1.2 Relationships**

quantity\_left

quantity

sup\_id

c\_phone

c\_email

cost

m\_id

c\_address

c\_name

Date\_supplied

St\_id

c\_id

Buys From

Stocks

customer

Has

Does

Present In

Supplies

s\_id

Supply

Suppliers

Medicine

Sales

st\_id

m\_id

m\_description

Sup\_address

sup\_id

sup\_name

c\_id

M\_category

cost

date

**3.1.3 Complete data model**

Graphical user interface, application, table

Description automatically generated

**4.0 Functional Model and Description**

There are three kinds of functional requirements like Front end requirement, backend requirement like database requirement and software requirements.

**4.1.** **Description of Major Functions**

Each requirement has been explained below uniquely.

**4.1.1 Front End Requirement**

Pharmacy management system applications will give the solution to maintain the stocks and customer details and medicine information.

* **Login Page:**

In this login page, we need to create the user login and password and submit button.

User can enter the username and password and then click the submit button need to perform the action on the home page.

Conditions: - user must enter the correct username and password.

* **Home page: -**

Whenever the user can be able to successfully login then next move to the home page.

On this home page need to create the navigation bar and add the buttons that are Home, add stocks, medicines, suppliers, customers, billings, and logout.

On this home page, we need to add the list of the medicine information like the name of the medicine, supplier, quantity left, cost per strip, and date of supply.

And there are 2 buttons required to create on the home page itself those are sales and delete

Sales button for modification in case of anything wrong information is entered for the medicine and supplier details.

Delete button for deleting the medicine and supplier details in case of not required to maintain the information.

* **Add stock: -**

In this page, we can add the new medicine and supplier details quantity and cost per strip.

Selection tab for medicine.

Selection tab for the supplier.

Add a new medicine button for adding new medicine.

In this page 3 text boxes are required mainly

1. Medicine name.

2. Medicine category.

3. Enter the medicine description.

And add a button for submitting which is entering data.

Add a new Supplier button for adding new suppliers.

1. Enter the supplier’s name.

2. Enter the supplier’s address box.

And add a button for submitting which is entering data.

Quantity box for how much quantity.

Each strip per price for the text box.

And add a button for submitting the entry data.

* **Medicine Page: -**

This is a like report page whatever inserts data related to medicine all information will be presented on this page including the medicine id, medicine name, category, and description.

* **Supplier Page: -**

This is also the same as the report page whatever inserts the data related to the supplier all information will be presented on this page like supplier id, supplier name, and supplier address.

* **Customer Page: -**

In this page like we can maintain the customer information like customer id, customer name, customer email address, phone number, and address.

* **Billing Page: -**

This is also like a kind of reporting page for whoever buys the drugs. On this page, we need to maintain the fields sales id, medicine name, supplier name, customer name, quantity, cost, and date fields are required.

Condition: - if I want to click the customer’s name, I want to show the customer's details.

* **Logout Button: -**

In this page, if I want to click the logout button then I need to logout from the application

**4.1.2 Database Requirement: -**

**In this schema under need to build 6 tables and procedures:**

* Admin table for maintaining the login details like username and password.
* Sales table for maintaining the details of the sales.
* Customer table for maintaining the customer details.
* Stock table for maintaining the stocks of the medicines.
* Medicine table for maintaining the clear details of the drug.
* Supplier table for maintaining the supplier and supplier details.

**Admin table: -**

Admin table should be Required the fields are user id, username and password.

* User id should be automatically generated type int and size 11 and it should be primary key.
* Username should be datatype should be varchar size 50
* Password should be properties like username.

**Customer Table: -**

Customer Table should have customer id, customer name, customer email address, customer phone number and customer address.

* + Customer id should be automatically generated type int and size 11 and it should be primary key.
  + Customer name should be datatype should be varchar size 20
  + Customer email address should be datatype should be varchar size 50.
  + Customer phone number should be datatype is integer the size is 10.
  + Customer address should be varchar data type and size are 200.

**Medicine Table: -**

Medicine Table should be medicine id, medicine name, medicine category and medicine description.

* Medicine id automatically generated type int and size 11 and it should be primary key.
* Medicine name should be datatype should be varchar size 20.
* Medicine category should be datatype is varchar and size are 20.
* Medicine Description should be varchar and size are 200.

**Supplier Table: -**

Supplier Table should be supplier id, supplier name and supplier address should be attributes in this table.

* Supplier id automatically generated type int and size 11 and it should be primary key.
* Supplier name should be datatype should be varchar size 20.
* Supplier Address should be varchar data type and size are 200.

**Stock Table: -**

Stock table should be stock id, Medicine id, Supplier id, quantity, quantity left, cost and date of supplied.

* Stock id automatically generated type int and size 11 and it should be primary key.
* Medicine id data type is int and size is 11 and key type is foreign key.
* Supplier id data type is int and size is 11 and key type is foreign key.
* Quantity data type is int and size 11.
* Quantity left data type is int and size is 11.
* Cost data type is float.
* Date of supplied data type is date.

**Sales Table: -**

Sales table under the fields are sales id, stock id, customer id, quantity, cost and date.

* + Sales id automatically generated type int and size 11 and it should be primary key.
  + Stock id data type is int and size is 11 and key type is foreign key.
  + Customer id data type is int and size is 11 and key type is foreign key.
  + Quantity data type is int and size is 11.
  + Cost data type is float.
  + Date of supplied data type is date.

**4.2 Software Interface Description**

There is no external interfaces usage in this project, but we have internal interfaces those are Database server and Apache server through Xampp server.

**4.2.1 Human interface**

Internet explorer.

**5.0 Restrictions, Limitations, and Constraints**

**Limitations:**

* It’s accessible to local users only.
* This application can use only one person at a time.

**Restrictions:**

* This application is used only by the business end not for the customer end.