

Project Report

“MediCare Lanka Pharmacy”

Pharmacy Management System

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DECLARATION

I, the undersigned, declare that this project report titled “MediCare Lanka Pharmacy” Pharmacy Management System is my original work and has not been submitted for any other degree or professional qualifications.

Shafiya Munawwar

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INTRODUCTION

The Pharmacy Management System is an online web-based application that helps manage all aspects of a pharmacy business. The system automates key processes such as inventory management, customer management, sales, purchase reports, and invoice generation. It utilizes technologies such as HTML, CSS, JavaScript, PHP, and MySQL for backend operations.

BACKGROUND AND MOTIVATION

Pharmacy businesses require efficient systems to track customers, manage medicines, suppliers, and create reports related to sales and purchases. Manual systems are prone to errors and inefficiency. This project aims to build a web-based system that automates and simplifies these tasks.

AIM, OBJECTIVES, AND SCOPE

AIM: To develop an efficient and user-friendly pharmacy management system.

OBJECTIVES:

- To create a secure login system.
- To manage medicines, customers, suppliers, and invoices.
- To generate sales and purchase reports.

SCOPE: The system will include features for customer management, medicine management, supplier management, and the ability to generate PDF reports for invoices, sales, and purchases.

SYSTEM DESIGN AND ARCHITECTURE

- Overview of the system's structure.
- Architectural design: Client-server architecture with a MySQL database, PHP backend, and HTML/CSS/JS frontend.
- Technologies used: HTML, CSS, JavaScript for frontend; PHP and MySQL for backend.

RESOURCE REQUIREMENTS

- **Hardware:**
 - Web server (XAMPP)
 - User device with a browser
- **Software:**
 - XAMPP
 - Web browser
 - MySQL database
 - PHP
 - Text editor (VS Code)

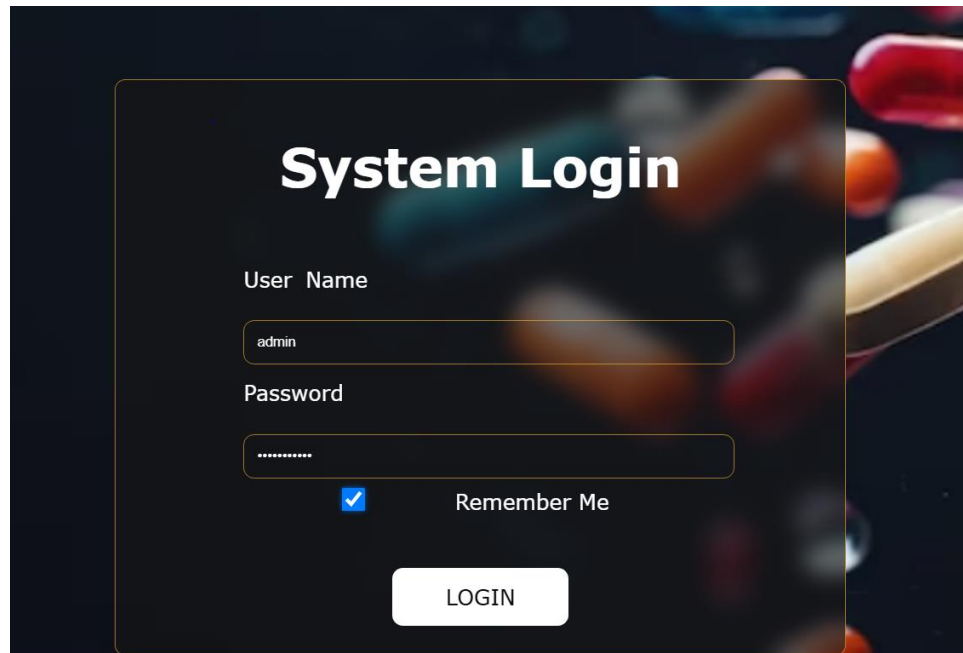
TECHNOLOGY ADAPTED

The following technologies were used in the development of the Pharmacy Management System:

- **HTML:** For structuring the webpages.
- **CSS:** For styling the webpages.
- **JavaScript:** For client-side interactivity and form validation.
- **PHP:** For server-side processing and handling database operations.
- **MySQL:** For database management and storing application data.

PAGES AND FEATURES

- **Login Page:** Secure authentication using username and password.



The image shows a 'System Login' page with a dark background and a blurred image of pills. The login form is centered and contains the following elements:

- System Login** (Title)
- User Name** label above a text input field containing 'admin'.
- Password** label above a password input field with masked characters '*****'.
- A checked checkbox labeled **Remember Me**.
- A **LOGIN** button.

- **Dashboard:** Main interface for accessing system features.



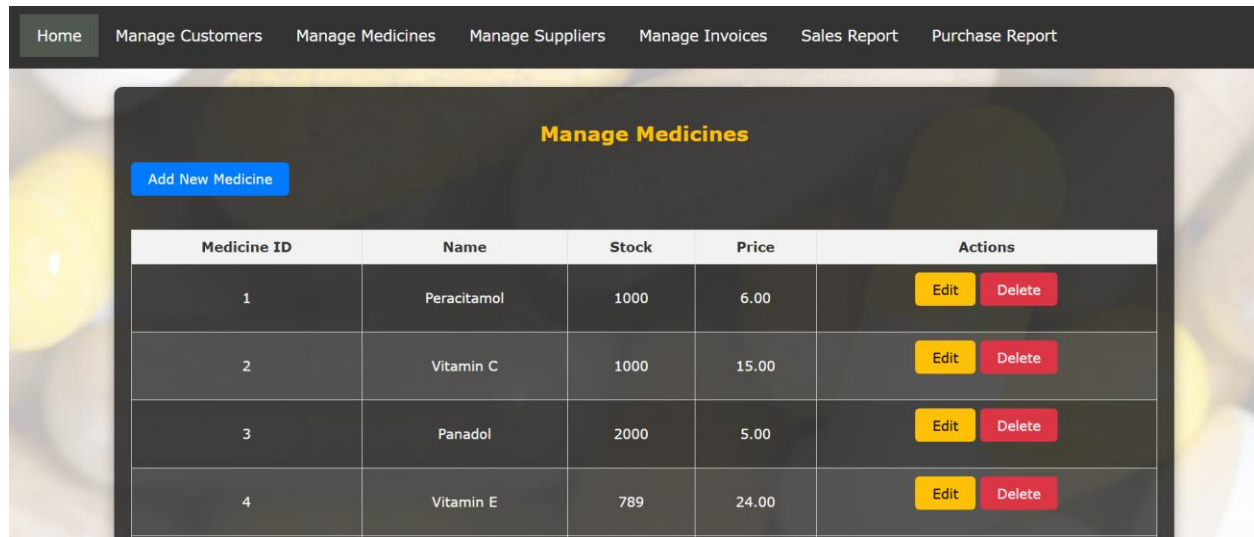
- **Manage Customers:** View, add, edit, and delete customer details.



- **Add New Customer:** Form for entering new customer details.

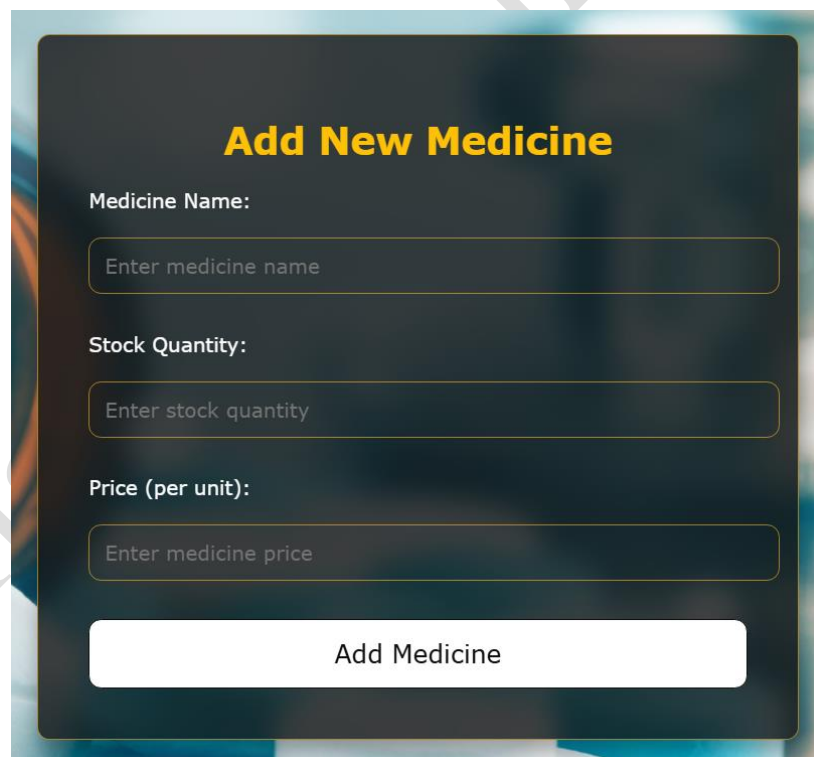
The screenshot shows the 'Add New Customer' form. It has a dark background with yellow text for the title 'Add New Customer'. Below the title, there are three input fields with labels: 'Customer Name:', 'Contact Number:', and 'Email Address:'. Each input field has a placeholder text: 'Enter customer name', 'Enter contact number', and 'Enter email address'. At the bottom of the form is a white button labeled 'Add Customer'.

- **Manage Medicines:** View, add, edit, and delete medicine details.



Medicine ID	Name	Stock	Price	Actions
1	Peracitamol	1000	6.00	<button>Edit</button> <button>Delete</button>
2	Vitamin C	1000	15.00	<button>Edit</button> <button>Delete</button>
3	Panadol	2000	5.00	<button>Edit</button> <button>Delete</button>
4	Vitamin E	789	24.00	<button>Edit</button> <button>Delete</button>

- **Add New Medicine:** Form for entering new medicine details.



Add New Medicine

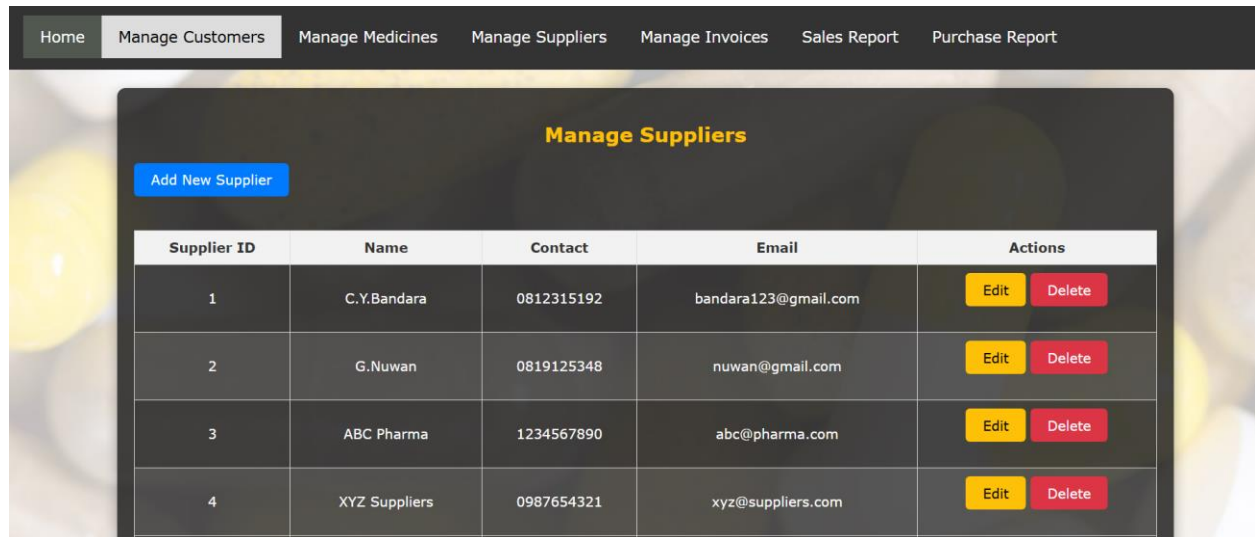
Medicine Name:

Stock Quantity:

Price (per unit):

Add Medicine

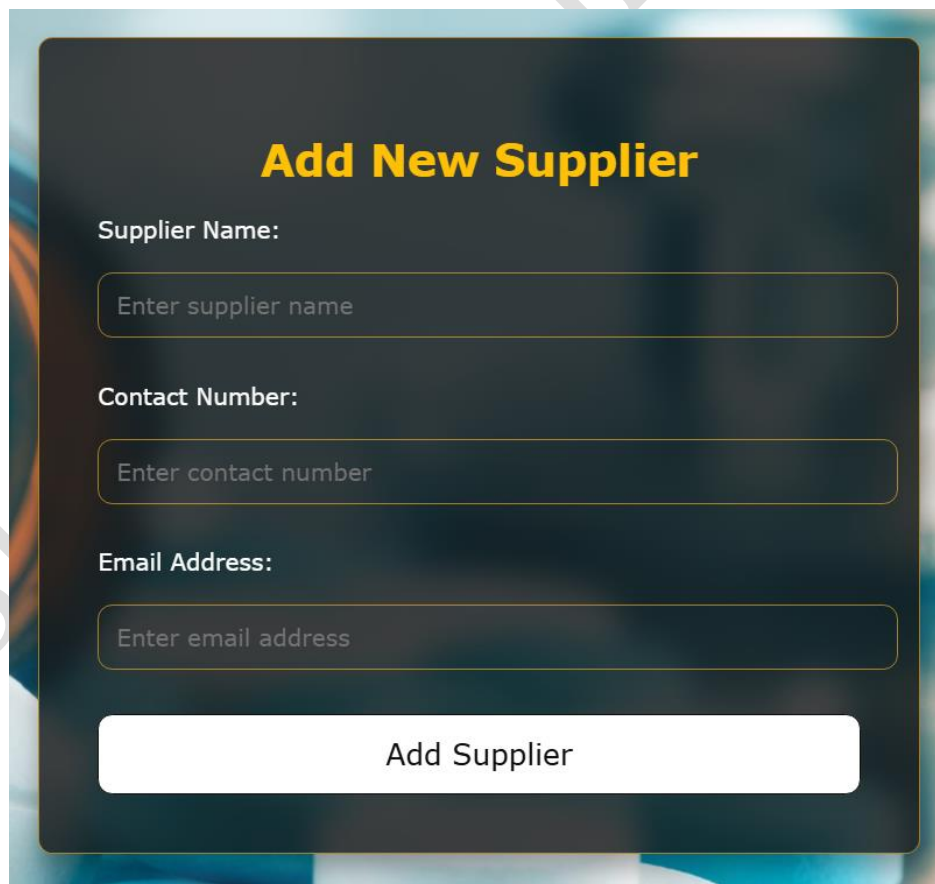
- **Manage Suppliers:** View, add, edit, and delete supplier details.



The screenshot shows a web application interface with a navigation bar at the top containing links: Home, Manage Customers, Manage Medicines, Manage Suppliers, Manage Invoices, Sales Report, and Purchase Report. The 'Manage Suppliers' link is active. Below the navigation bar, there is a section titled 'Manage Suppliers' with a blue button labeled 'Add New Supplier'. Below this button is a table with 5 columns: Supplier ID, Name, Contact, Email, and Actions. The table contains 4 rows of supplier data. Each row has 'Edit' and 'Delete' buttons in the Actions column.

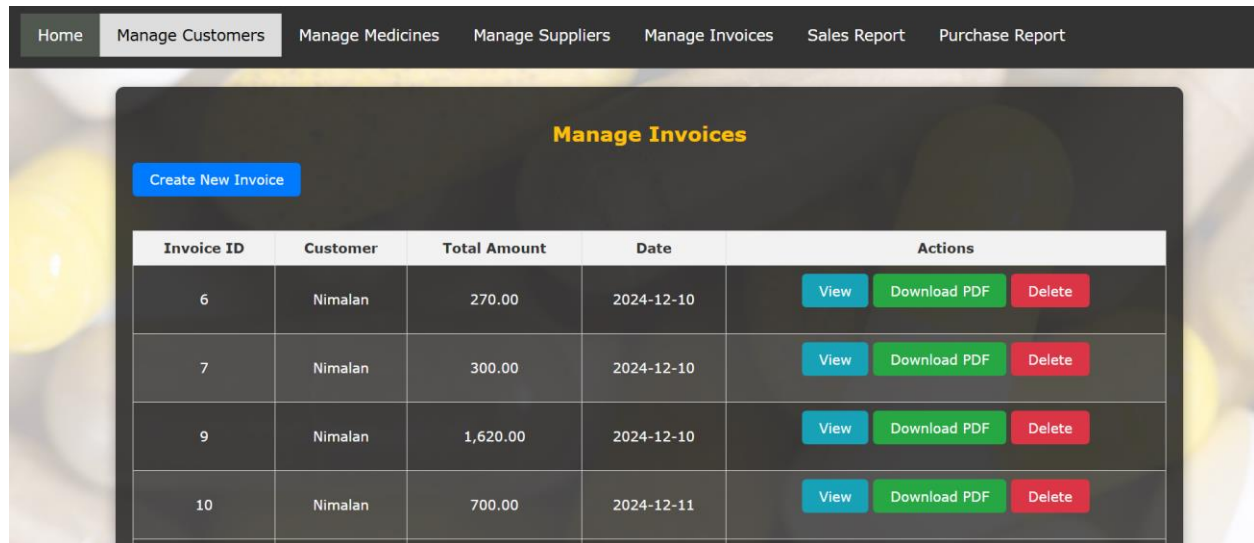
Supplier ID	Name	Contact	Email	Actions
1	C.Y.Bandara	0812315192	bandara123@gmail.com	<button>Edit</button> <button>Delete</button>
2	G.Nuwan	0819125348	nuwan@gmail.com	<button>Edit</button> <button>Delete</button>
3	ABC Pharma	1234567890	abc@pharma.com	<button>Edit</button> <button>Delete</button>
4	XYZ Suppliers	0987654321	xyz@suppliers.com	<button>Edit</button> <button>Delete</button>

- **Add Supplier:** Form for entering new supplier details.



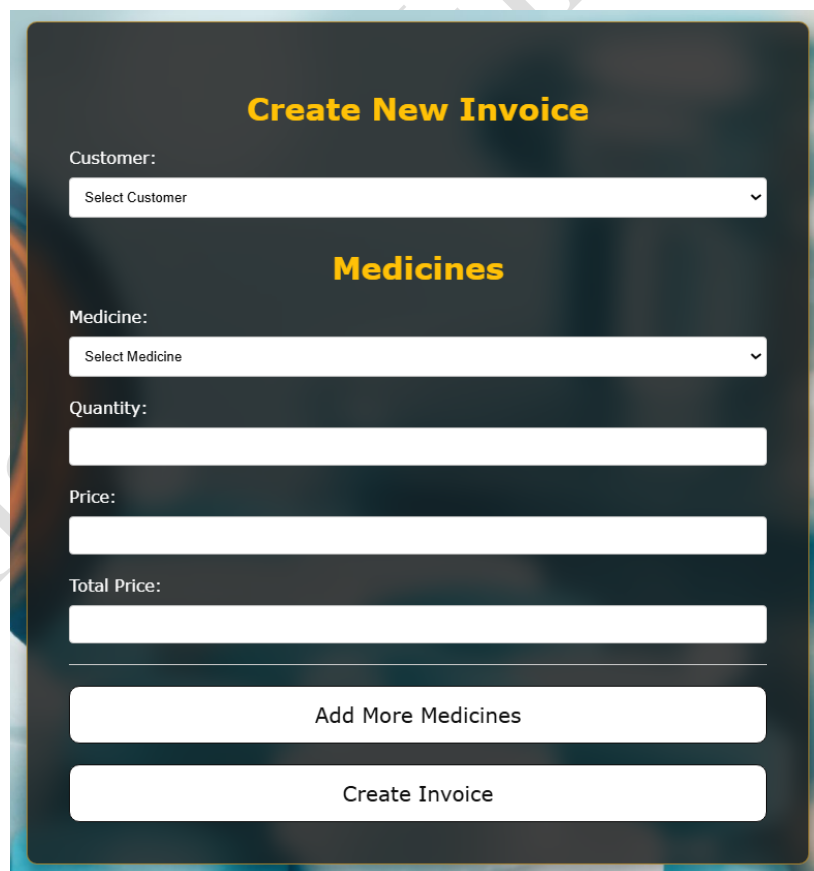
The screenshot shows a form titled 'Add New Supplier'. It has three input fields: 'Supplier Name:', 'Contact Number:', and 'Email Address:'. Each field has a placeholder text 'Enter supplier name', 'Enter contact number', and 'Enter email address' respectively. Below the input fields is a large white button labeled 'Add Supplier'.

- **Manage Invoices:** View and manage invoice details.



Invoice ID	Customer	Total Amount	Date	Actions
6	Nimalan	270.00	2024-12-10	View Download PDF Delete
7	Nimalan	300.00	2024-12-10	View Download PDF Delete
9	Nimalan	1,620.00	2024-12-10	View Download PDF Delete
10	Nimalan	700.00	2024-12-11	View Download PDF Delete

- **Add New Invoice:** Generate new invoices with medicine and customer details.



Create New Invoice

Customer:

Medicines

Medicine:

Quantity:

Price:

Total Price:

- **Sales Report:** Generate a report of all sales transactions.

Sales Report

Start Date: 12/01/2024

End Date: 12/12/2024

[Generate Report](#)

Sales Summary

Total Sales: LKR. 9,354.00

Sales Breakdown by Medicine

Medicine	Total Quantity Sold	Total Sales Amount
Alerid	60	LKR. 1,200.00
Citric Zin	20	LKR. 300.00
Panadol	108	LKR. 656.00
Peracitamol	360	LKR. 1,454.00
Vitamin C	132	LKR. 1,804.00

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Activate Windows
Go to Settings to activate Windows

- **Purchase Report:** Generate a report of all purchase transactions.

Purchase Report

Start Date: 12/01/2024

End Date: 12/12/2024

[Generate Report](#)

Total Purchase

Total Purchase Amount: LKR. 1,500.00

Purchases Breakdown by Supplier

Supplier	Total Purchase Amount
C.Y.Bandara	LKR. 1,200.00
G.Nuwan	LKR. 300.00

Detailed Purchase Information

Purchase ID	Supplier	Amount	Date
1	C.Y.Bandara	LKR. 500.00	2024-12-01
2	G.Nuwan	LKR. 300.00	2024-12-05
3	C.Y.Bandara	LKR. 700.00	2024-12-10

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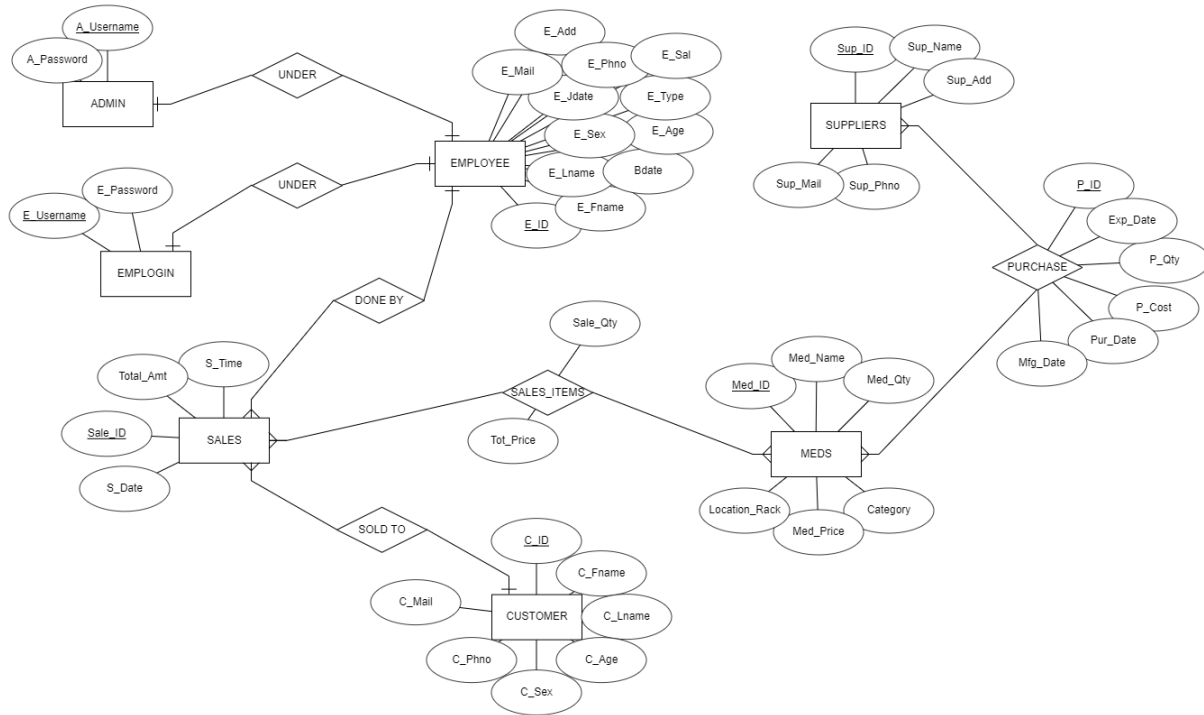
Activate Windows
Go to Settings to activate Windows

- **Generate PDFs:** Ability to generate PDF reports for invoices, sales, and purchase transactions.

ER DIAGRAM

The **Entity-Relationship Diagram** for the system shows the relationship between the tables such as:

- Customers
- Medicines
- Suppliers
- Invoices



IMPLEMENTATION DETAILS

This chapter outlines the implementation process of the system, focusing on key features like:

- **Login System:** The user is authenticated using username and password stored in the MySQL database.
- **Customer Management:** Users can add, update, delete, and view customer details.
- **Medicine Management:** Users can manage medicines available in the pharmacy.
- **Invoice Generation:** PDF generation for invoices, sales, and purchase reports.

DATABASE CONNECTIVITY

- **Database Design:** The system uses MySQL for data storage, including tables for customers, medicines, suppliers, and invoices.
- **SQL Operations:**
 - Insert, update, delete, and retrieve data.
 - Use of GET and POST methods for data transfer between the client and server.
 - PDF generation for reports using PHP and MySQL data.

CONCLUSION

The Pharmacy Management System automates essential tasks like managing customers, medicines, suppliers, and generating reports. It improves efficiency and accuracy compared to manual systems. The system is secure, easy to use, and can be expanded with additional features.