# Pharmacy Management System

**Mini Project for Database Management Systems**

**Members:**

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## Introduction:

- In this era of growing demands of pharmaceutical and chemical products for health and medicine; every medical store, be it a small of medium sized businesses are running rampant towards efficient store management and rapid revenue computation.
- Instead of using the conventional style of paper-based records and documentation, electronic methods are preferred for stock maintenance, automatic updation of records while billing and reliable electronic documentation.
- The software would reduce daily effort wage and labour numbers. Crushing numbers can now be left to the system.
- In conclusion, this project will provide a comprehensive Pharmacy Management System using SQL, which will help to manage the pharmacy's operations, inventory, and customer service more efficiently. The system's design and implementation will be in line with industry best practices, and it will help the pharmacy to provide excellent service to its customers while reducing operational costs.

## Objective:

- The aim of this project is to develop a software for the effective management of the database of a pharmaceutical store.
- It would improve the accuracy and enhance safety and efficiency in the pharmaceutical store.
- This system will help the pharmacist to maintain the records of the medicines, handle user and admin details, check and renew the validity of the medicines and orders placed by the customer.

## Modules involved:

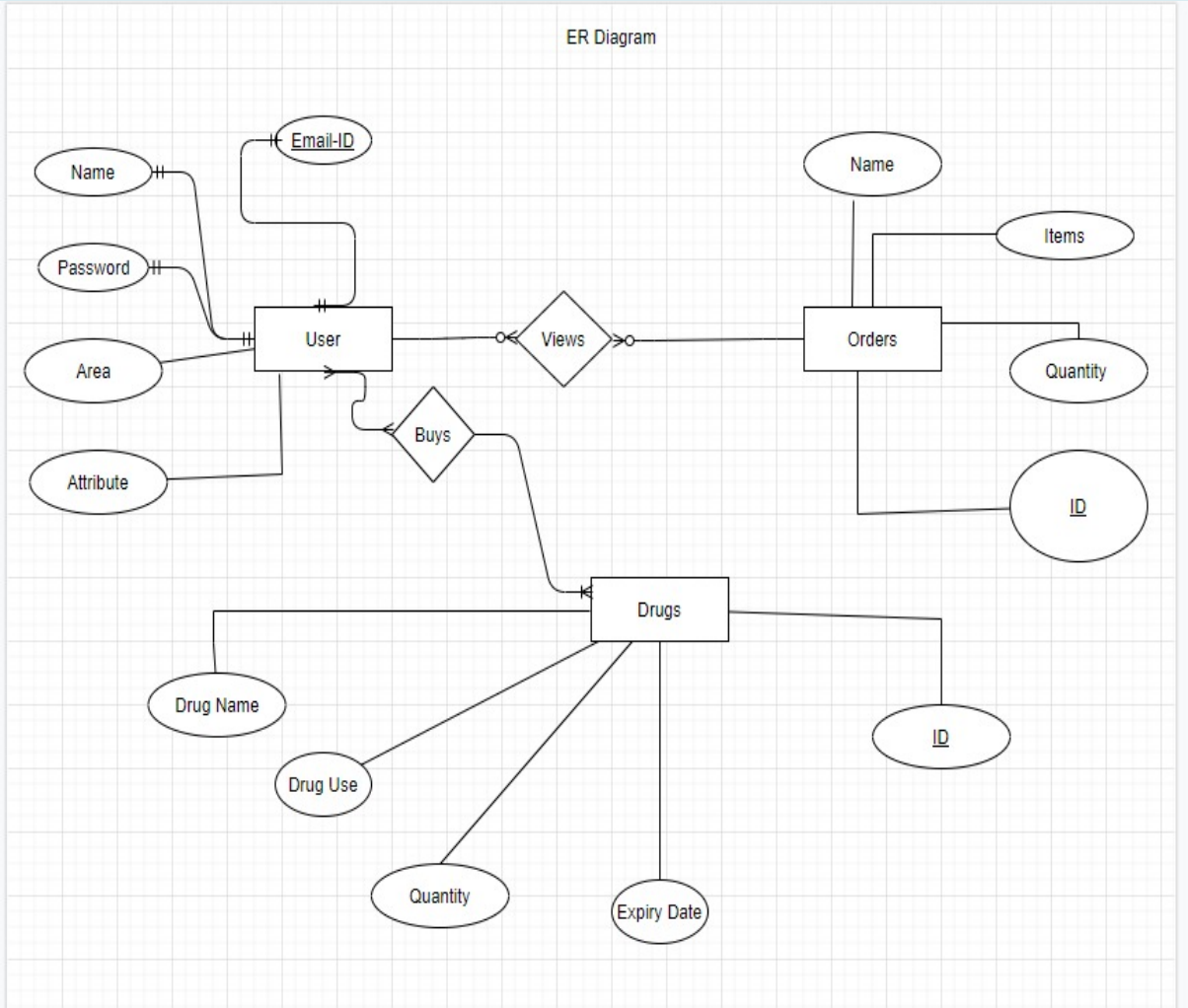
- Inventory Management Module: This module would be responsible for managing the stock of drugs and medical supplies in the pharmacy. It would include functions for tracking stock levels, generating purchase orders, and receiving and updating inventory.
- Sales Management Module: This module would be responsible for managing the sales of drugs and other medical supplies. It would include functions for processing sales transactions, generating receipts, and updating the inventory based on sales.
- Customer Management Module: This module would be responsible for managing customer information, including personal information and purchase history. It would include functions for adding new customers, updating customer information, and generating reports based on customer data.
- Employee Management Module: This module would be responsible for managing employee information, including personal information, job roles, and performance data. It would include functions for adding new employees, updating employee information, and generating reports based on employee data.
- Prescription Management Module: This module would be responsible for managing prescription data, including prescription details, prescription history, and patient information. It would include functions for adding new prescriptions, updating prescription data, and generating reports based on prescription data.
- Reporting Module: This module would be responsible for generating reports based on data from the other modules. It would include functions for generating sales reports, inventory reports, customer reports, and employee reports.

## System Design Description:

- The Pharmacy Management System will be designed to provide a user-friendly interface to allow pharmacy staff to manage their daily operations with ease. The system will be built on the SQL database management system, which will provide a robust and scalable platform for storing and managing data.

- The system's main components will include an inventory management module, sales management module, and customer management module. The inventory management module will provide features for managing the pharmacy's inventory, including tracking stock levels, ordering and receiving stock, and managing expiration dates. The sales management module will allow for easy tracking of sales, including sales history, tracking sales by staff member, and providing insights into customer purchasing patterns. The customer management module will allow pharmacy staff to manage customer information, including personal details, medical history, and prescription details.

# ER Diagram:


ER Diagram
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