Ahsanullah University of Science & Technology
Department of Computer Science & Engineering
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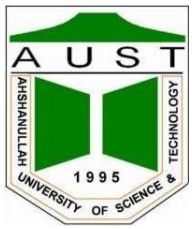

Pharmacy Management System

Database Lab(CSE 3104)

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Reason of Selection Project

The pharmacy management system is selected for the sake of ensuring effective and clear data saving and manipulating as well as neat work on the pharmacy medical products. This refers the pharmacy management system project highly minimize time by which, searching the medicine data one can get the data in quickest time. Some of the resources will be minimized include paperwork and related things. Through this system, user will have the secure way for storing data. Besides, there will be a message alert for the user if the stock holding quantity reaches to low level. Thus, the pharmacist can restock the drugs. It will be the user-friendly application for pharmacist which will reduce the burden and help to manage all sections of Pharmacy like medicine management which improve the processing efficiency. Another reason is to ensure fast searching, delete and update of medicine. In addition, the main reason is to alert pharmacist about the drugs which gets expired so that he can be prevented from selling these medicines.

Project Goals

- Tracks all the information of stocks, company etc.
- All fields such as medicines, sells will be validated and does not take any invalid values.
- Manage the information medicines.
- Integration of all records of sells
- Manage editing, adding and updating of records that results in proper resource management of medicine data.
- Provide filtering on accessing the database for different users such as employee, admin etc.
- Provides searching facility based on various factors.
- Manage the information of companies and their suppliers.
- Alerts on expiring of medicines.
- Alerts on stock out of medicines.
- Notification for the order of a product after restocking.

Time Require to Complete

- Full semester

Customer

- Pharmacy Owners

Project Requirement Analysis

Pharmacy management system is only for pharmacy owners and its employees. Every day, many customers purchase one or more than one medicines from pharmacy. Not only employees but also owners call sell these medicines to customers after logging into the system. Only owners can appoint employees by adding their information into the database. After that, employees can just sell the medicines to customers and receives pre-order for medicines from various customers by logging into database system. Customers can make pre-order for medicines by giving their contact information if the medicine is unavailable at that time. Many suppliers from various companies provide medicines to the store. Owners can add the suppliers into database after approving. At the store, some medicines are expired and some becomes out of stock. Owners can check them out after being notified from the system. Owners easily remove the expired medicines and restock the stock out medicines, and update the database. Even owners can track all the selling records of their pharmacy. Employees can add schedule calling to patients intimating them before their prescriptions time out if patient allows it.

Project Possible Entity-Relationship-Attributes

1. Entity and its attributes

1.1. Entity-01: Medicine

- Medicine_id (Primary key)
- Expire Date
- Quantity
- Batch_no
- Supplier_id (Foreign key)
- Shelf_no

1.2. Entity-02: Customer

- Customer_id (Primary key)
- Name
- Contact number

1.3. Entity-03: Supplier

- Supplier_id (Primary key)
- Supplier Name
- Company Name

- Contact Number
- Address
- Medicine_id (Foreign key)

1.4. Entity-04: Owner

- Owner_id (Primary key)
- Name
- Contact Number
- Password
- Employee_id (Foreign key)

1.5. Entity-05: Employee

- Employee_id (Primary key)
- Name
- Contact Number
- Password
- Address
- Owner_id (Foreign key)

1.6. Entity-06: Pre-order

- Order_id (Primary key)
- Medicine_id (Foreign key)
- Quantity
- Customer_id(Foreign key)

1.7. Entity-07: Schedule

- Schedule_id(Primary key)
- Date
- Medicine_id(Foreign Key)
- Quantity
- Customer_id(Foreign key)

2. Relationships

2.1. Relationship-01: Appoint

- An owner can appoint many employees. This is one to many relationship.

2.2. Relationship-02: Sell

- All employees can sell all kinds of medicines. This is many to many relationship.

2.3. Relationship-03: Access

- Owner can access all medicines records and edit them. This is one to many relationship.

2.4. Relationship-04: Provide

- A supplier can provide many kinds of medicines. This is one to many relationship.

2.5. Relationship-05: Purchase

- Customer can purchase many medicines and medicines can be bought by many customers. This is many to many relationship.

2.6. Relationship-06: Add

- Employees can add many schedules for many customers by calling. This is one to many relationship.

2.7. Relationship-07: Allow

- Customer can allow to add schedule for reminding. There is many to one relationship.

2.8. Relationship-08: Makes

- Customer makes a pre-order for medicines. There is many to one relationship.

2.9. Relationship-09: Receives

- An employee receives many pre-order from customers. There is one to many relationship.

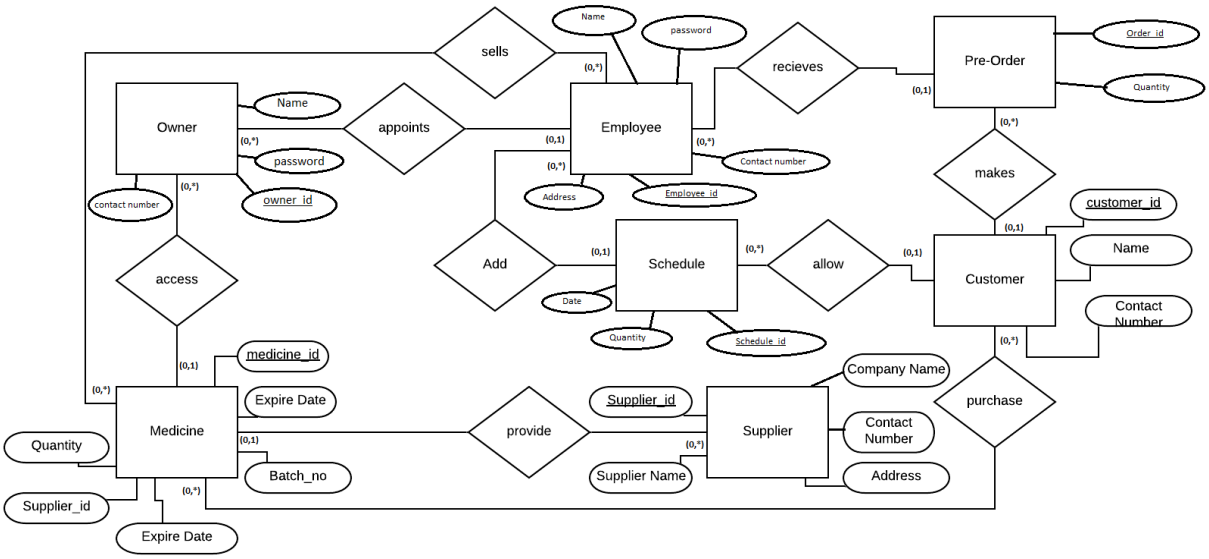
Risk Analysis of Project

Due to some complexities, the goal of making schedule feature may not be completed to such an extent.

Conclusion

After accomplishing the goals, this database management will ensure safety of storing medicine records and secure accessing. It will also prevent pharmacist from selling expired medicines for the alert. The system will be designed in such a way that user will find it easier for accessing and update records.

Diagram


sells
Name
password
recieves
Pre-Order
Order_id
Quantity
Owner
Name
appoints
Employee
password
contact number
owner_id
Address
Employee_id
Contact number
makes
customer_id
access
Add
Schedule
allow
Customer
Name
Date
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Contact Number
medicine_id
Company Name
Expire Date
Supplier_id
purchase
Medicine
provide
Supplier
Contact Number
Quantity
Batch_no
Supplier Name
Address
Supplier_id
Expire Date