

Database Report

Objective is to make a database application that will cater the needs of storing, managing, querying and retrieving pharmacy data needs i.e. Pharmacy staff(admin), customer, Manufacturer and medicines.

Relationships between entities:

- 1-Customer / Medicine : many to many relationship
- 2- Admin / Customer : many to many relationship
- 3- Pharmacy / Admin : one to many relationship
- 4- Pharmacy/ Customer: one to many relationship
- 5-Pharmacy/ Manufacturer: one to many relationship
- 6-Pharmacy / Purchases : one to many relationship
- 7- Purchasers / Medicine : Many to many relationships
- 8-Pharmacy / Medicine : One to many relationships

Attributes for each entity:

- 1-Pharmacy: Name,Address, Mobile Num
- 2-Customer : Customer-ID , Customer-Name , Customer-Mobile ,No. of purchases
- 3-Medicine : Med_Name, Med_Code, Expiry date , Price, Quantity , Manufacturer name
- 4-Admin : User , Pass , ID
- 5-Manufacturer :Manufacturer ID, Manufacturer Name, State , city , address , Mobile Number, No. of supplies , phone num
- 6-Purchases: Med_Name, Expiry date , Price, Quantity , Bill, Date of Transactions

Keys:

Customer Table:

Primary key : Mobile Num

Unique Key : Customer ID

Admin Table:

Primary key : Admin ID

Unique Key : User Name

Unique Key : Admin ID

Medicine Table:

Primary key : Med_Code

Manufacturer Table:

Primary key : Man ID

Unique Key : Mobile Num

Unique Key : Phone Num

DATABASE DESIGN:

This is a shared collection of data that are related or files that are to meet the immediate need of authorized users. These data may be in form of text, numeric, date or encoded images.

ADMINISTRATOR LOGIN TABLE:

Field Name	Field Type	Field Length	Description
Admin_Username	Varchar	(15)	Admin Username
Password	Varchar	(15)	Admin password

Administrator table : serves as a repository for administrator details, that will be able to have access to the entire details on the application. It is a table that stores the administrator login details.

Medicine INFORMATION TABLE

Field Name	Field Type	Field Length	Description
Med_Name	Varchar	(15)	Medicine Name
Med_ID	Varchar	(7)	Medicine ID
Manufacturer	Varchar	()	Manufacturer
Quantity	Varchar	()	Number in stock
Date	Date/Time	()	Date
Expiry_Date	Date/Time	()	Expiry Date

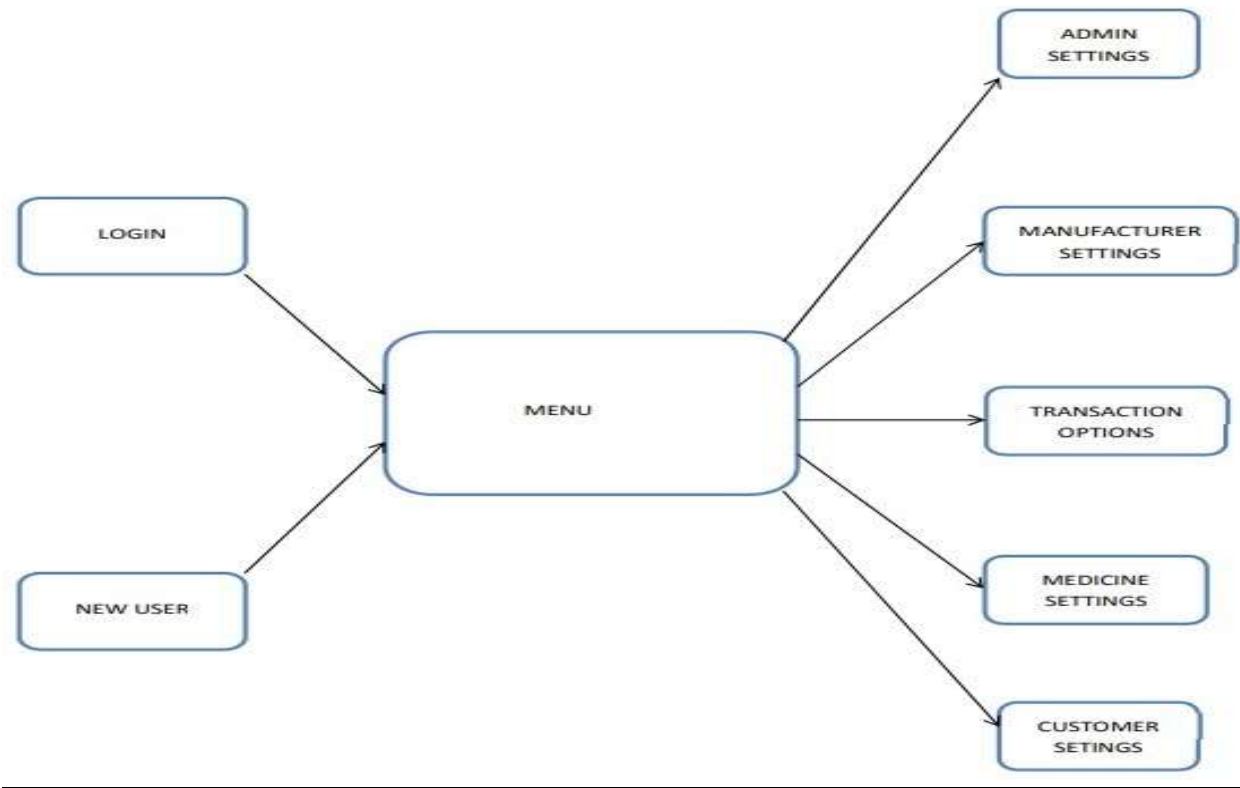
Drug information table:

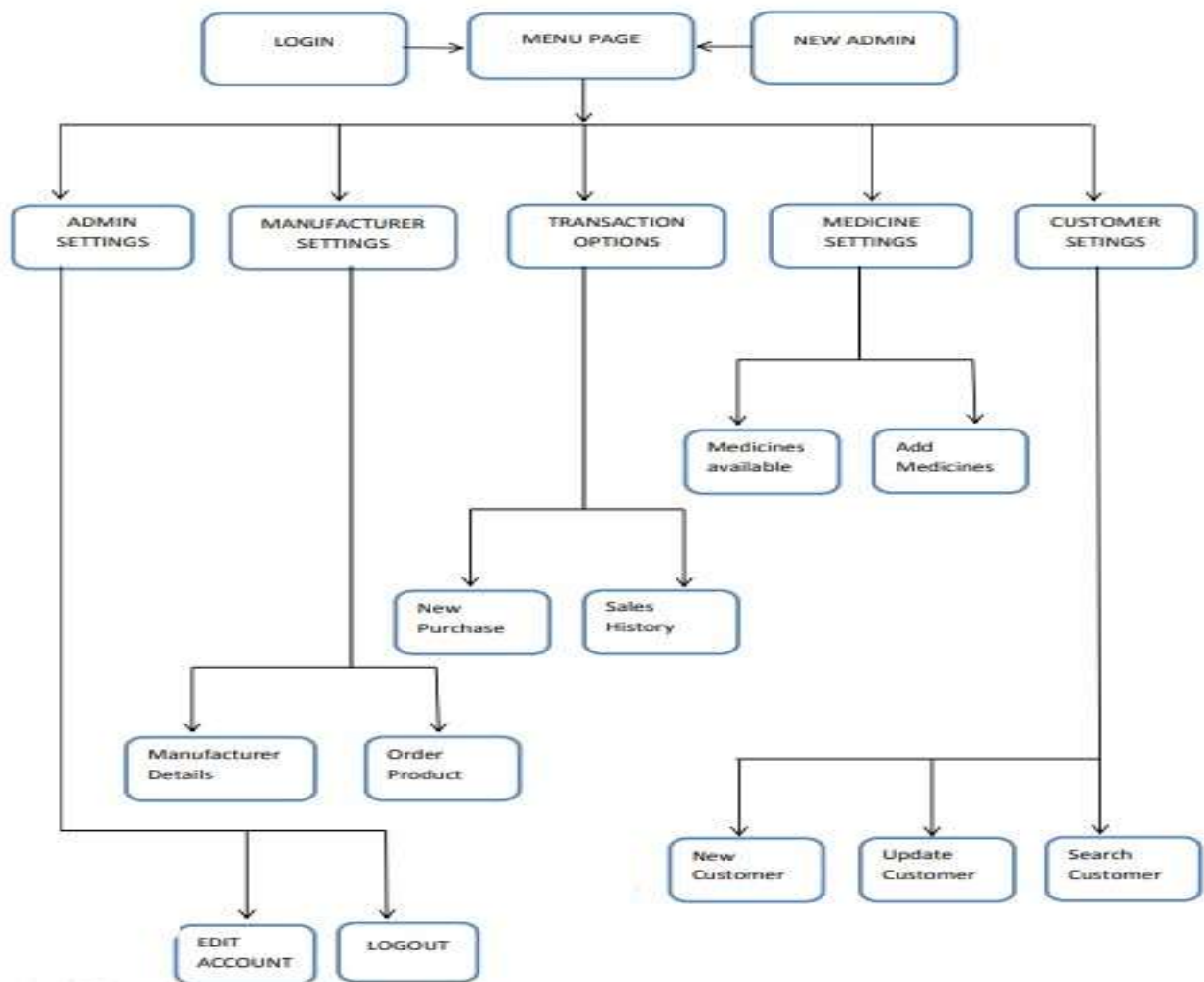
shows the information about the drugs in the pharmacy and is being queried from the database on the drug registration page to show all the drugs

serves as a repository for supervisor details, which will be able to have access to the required details on the application as stipulated by the administrator.

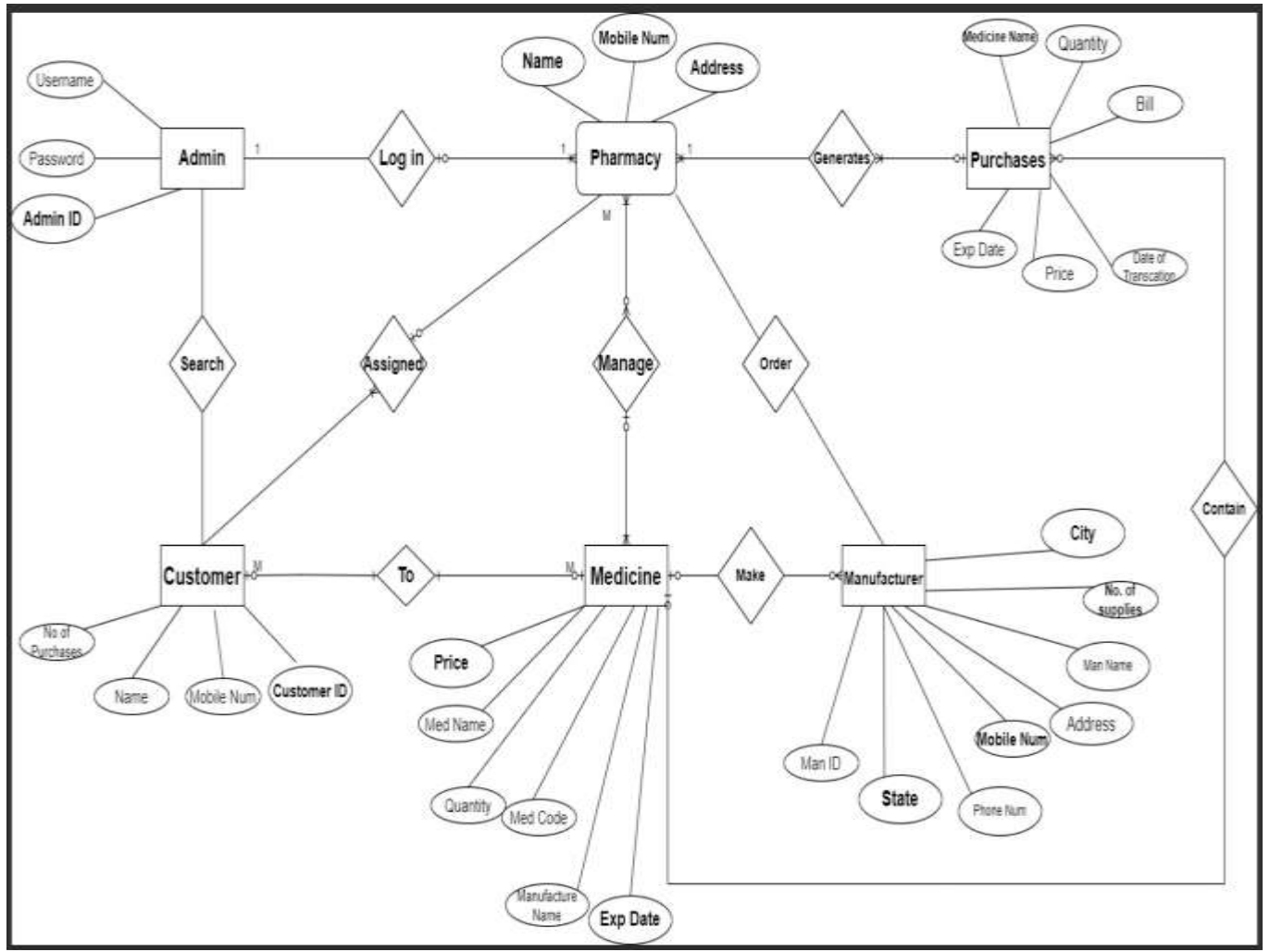
Customer Information Table:

Field Name	Field Type	Field Length	Description
CUST_NAME	Varchar	()	Customer Name
PHONE_NO	Int	(11)	Phone Number
Customer ID	Int	()	Customer ID





ER Diagram:



RESOURCE REQUIREMENTS

Software requirement:-

- Front End tools: netbeans,java.
- Back End tools: Sql database
- Browser that support Java
- MySQL database 3.2

Hardware requirement:-

- CPU: Pentium processor and above
- RAM: 2 GB
- HDD: 40 GB

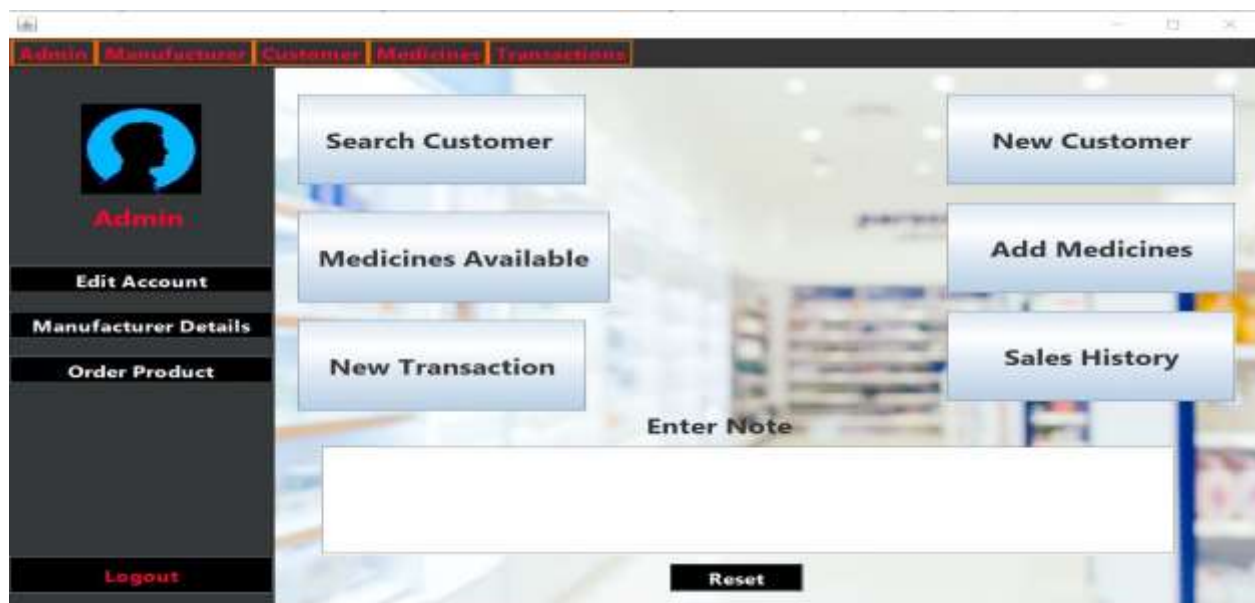
Creating Database Connection:

- JAVA provides built-in database connectivity for a wide range of databases - MySQL, PostgreSQL, Oracle, Berkeley DB, Informix, Lotus Notes, and more
- Use either `mysql_connect` or `mysql_pconnect` to create database connection
- `mysql_connect`: connection is closed at end of script (end of page)
- `mysql_pconnect`: creates persistent connection -connection remains even after end of the page
- Connect to the MySQL server o `$connection = mysql_connect("localhost", $username, $password);`
- Access the database o `mysql_select_db("databasename", $connection);`
- Perform SQL operations o Example: `$result = mysql_query ($query, $connection)`
- Disconnect from the server o `mysql_close($connection)`

IMPLEMENTATION



Figure shows the select login page. It is the first interface that appears on the screen. This interface displays the name of the application and some other information about the software. They consist of administrator, then second interface menu after logging in



The image displays two side-by-side screenshots of a software application interface, likely for a pharmacy management system. Both windows have a background image of pharmacy supplies, including pill bottles and pills.

Search Customer Window:

- Title: Search Customer
- Enter Mobile No:
- Coustomer ID:
- Name:
- No Of Purchases:
-
- Footer:

Edit User Window:

- Title: Edit User
- User ID:
- Password:
- Confirm Password:
-
- Footer:

The system has ability to edit username & password and has ability to search users and display name and mobile no and provide customer ID to customer

Medicine Details

Medicine Code

Medicine Name

Quantity Present

Price

Expiry Date

Edit **Add New Medicine** **Delete Record** **Back**

Menu **Exit**

Figure shows the select medicine details page. It is one of interfaces that appears on the screen when the application is being chosen. This interface displays information about medicines.

Team:

Omar Tamer Mohamed	20221442923	DB design and implement , connecting DB
Mohamed Ezzat Hosny	20221367058	Gui interface design, coding ,connecting DB
Omar Aly Bader	2022370904	ERD
Omar Yousry Mostafa	20221041092	Report