12/30/2023

# **LAB MID (Project Report)**

**Title: Pharmacy Store management** 

**Submitted to: Sir Haris** 

Submitted by: Ayesha Siddiqa (SP22-BSE-009)

Um-e-Rubab (SP22-BSE-050)

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**Task 1:** Identify the topic of your final project and explain various modules which will be present in the DBMS.

**Topic:** Pharmacy Store Management System

# **System Introduction:**

The Pharmacy Store Management System is a comprehensive platform designed to facilitate seamless operations for both customers and administrators of the store. Customers can browse, order medicines, view medicine details, and manage orders, with the added convenience of getting detailed receipts upon completing their purchases/orders. The system ensures secure authentication and user-friendly interfaces for a smooth experience.

Administrators benefit from efficient inventory management tools, enabling actions like adding, updating, and deleting medicines, alongside overseeing stock levels and supply chain interactions. This system not only streamlines medication procurement but also offers transparency and record-keeping in the transaction process.

# **Problem Statement:**

The manual system for managing pharmacy operations faces challenges such as limited accessibility for customers, inefficient inventory management prone to errors, lack of transparent transaction records, and inconvenient order management. The Pharmacy Store Management System aims to resolve these issues by offering remote accessibility, automated inventory tracking, transparent transaction records, convenient order management, thereby enhancing operational efficiency and customer satisfaction.

# **System Modules (Solution Overview):**

### 1. Customer profile Management:

Entity: StoreCustomer

- Features: Enables customers to view their profile, and manage personal details.

### 2. Order Management:

Entity: Medicine\_Order, OrderItem

- Features: Allows customers to browse available medicines, place orders, and view order history.

#### 3. Medicine Information:

**Entity: Medicine** 

- Features: Manages information about available medicines and displays medicine details, such as name, description, dosage, price, and availability, for customers to browse.

### 4. Admin Dashboard:

**Entity: Admin** 

- Features: Offers tools for adding, deleting, updating medicines, restocking inventory, and managing overall system functionality.

### 5. Authentication and Authorization:

Entity: User\_Credential

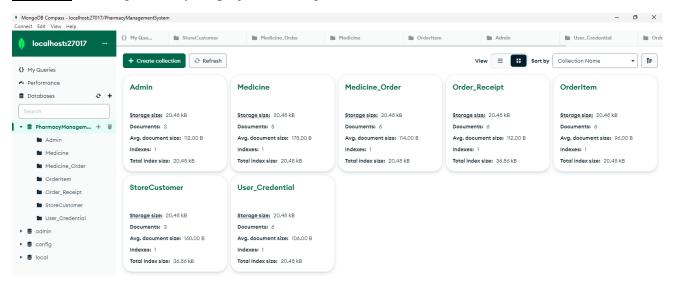
- Features: Manages user authentication through login/signup mechanisms and provides role-based access control for customers and admins.

### 6. Purchase Receipt Generation:

Entity: Order\_Receipt

- Features: Automatically triggers the creation of a detailed purchase receipt upon successful order completion. It includes order details such as purchased items, quantities, prices, total cost, customer information, and a transaction timestamp.

# Task 2: Creating DB for your project in Mongo DB:



Task 3: lab final-term.

Part1: Design and Develop EERD diagram:

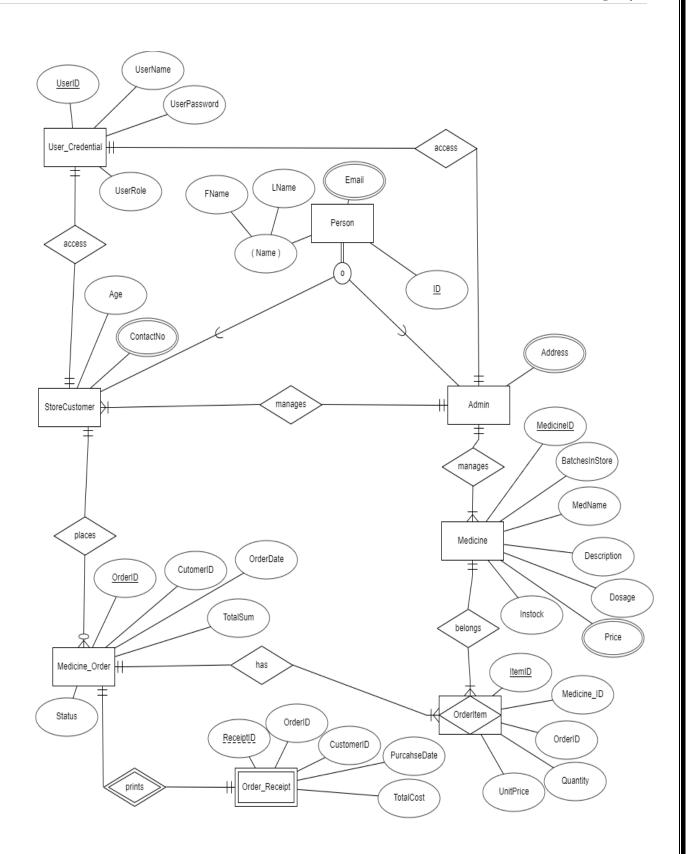
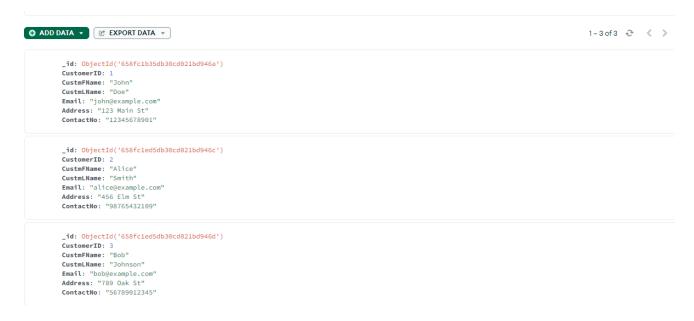


Figure 1. EERD of pharmacy store management system

# **Part2:** Insert few meaningful documents in the resultant collections.

Insert Into Store\_Customer:



#### Insert Into Admin:

```
__id: ObjectId('658fc34e5db30cd021bd947c')
AdminID: 1
AdminIRame: "Syddiqa"
AdminIRame: "Syddiqa"
AdminIRame: "syesha@gmail.com"

__id: ObjectId('658fc34e5db30cd021bd947d')
AdminILame: "Aiman"
AdminILame: "Khan"
AdminILame: "Khan"
AdminILame: "Khan"
AdminID: 3
AdminFlame: "Ume"
AdminID: 3
AdminFlame: "Rubab"
AdminILame: "Rubab"
```

# Insert Into Medicine\_Order:

#### Insert Into OrderItem:

# Insert Into Order\_Receipt:

# Insert Into User\_Credentials:

```
__id: ObjectId('658fc4015db30cd021bd9480')
UserID: 101
Username: "yesha"
UserPassword: "ddmin123"
UserRole: "Admin"

__id: ObjectId('658fc4015db30cd021bd9481')
UserID: 102
Username: "a'man"
UserPassword: "a'dmin456"
UserRole: "Admin"

__id: ObjectId('658fc4015db30cd021bd9482')
UserID: 103
Username: "rubab"
UserPassword: "a'dmin789"
UserRole: "Admin"

__id: ObjectId('658fc4015db30cd021bd9482')
UserID: 103
Username: "rubab"
UserPassword: "a'dmin789"
UserRole: "Admin"

__id: ObjectId('658fc4015db30cd021bd9483')
UserID: 104
Username: "john_doe"
UserPassword: "customer123"
UserPassword: "Customer123"
UserPassword: "Customer123"
UserPassword: "Customer123"
```

#### Insert Into Medicine:

**Part 3:** Now in this part, you are going to first create a meaningful query in English and then in Mongo Compass for each of the following situations:

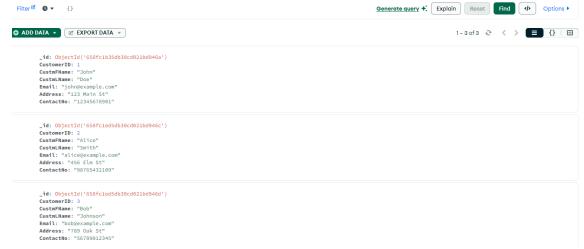
# • QUERYING COMMANDS:

# **English Statements:**

- 1. Find all StoreCustomer documents:
- 2. Retrieve details of a specific StoreCustomer by CustomerID:
- 3. List all Admins in the Admin collection:
- 4. Retrieve the OrderID, OrderDate, and Status for a specific order in the Medicine\_Order collection:
- 5. Get details of all medicines in the Medicine collection:
- 6. Find the OrderItem details for a specific OrderID and customerID:
- 7. Get the Username and UserRole for all customers in documents:
- 8. Retrieve Order\_Receipt details for a specific CustomerID:

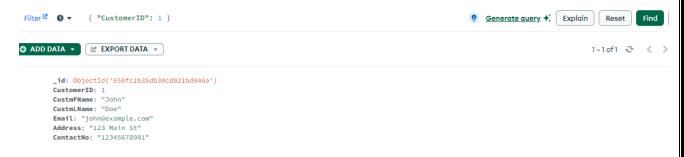
# **Queries in Mongo Compass:**

**1.** Find all StoreCustomer documents: {}



2. Retrieve details of a specific StoreCustomer by CustomerID:

{ "CustomerID": 1 }

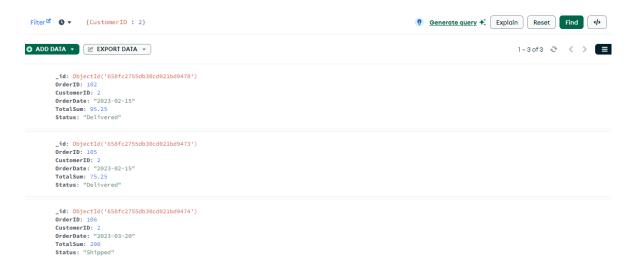


3. List all Admins in the Admin Collection: {}

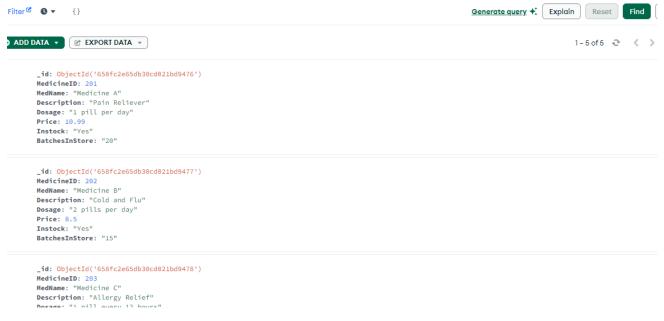


4. Retrieve the OrderID, OrderDate, and Status for all orders of a specific customer in the Medicine\_Order collection:

{ "CustomerID": 2 }



5. Get details of all medicines in the Medicine collection: {}



6. Find the OrderItem details for a specific OrderID:

{OrderID : 102}

