

pharmacy management system

Low Level Design



[Date]

[Company name]

[Company address]

**TABLE OF CONTENTS**

1. Document Purpose
2. Project Background
3. Projective Objective
4. Design Pattern
5. Solution Diagram
6. Use Case Diagram
7. Activity Diagram
8. Flow charts
9. Sequence Diagram
10. Tables
    1. Admin Table
    2. Drugs Table
    3. Order Details table
    4. Supplier Inventory Table
    5. Doctor module

1. **Document purpose**

This document describes the solution Architecture for Pharmacy management System.

The Pharmacy management system , also known as the pharmacy information system. It is a system that stores data and enables functionality that organizes and maintains the medication use process within pharmacies.

**2.0 Project Background**

Pharmacy Management System leads to perform Management of details Where one can register themselves and perform various operations.

**3.0 project Objective**

Pharmacy Management Microservice will perform various operations like listing , creation , updating and deletion of Pharmacy Details. Admin User can first Login and they can perform all the operations like View, Check, Add, edit, Delete drugs, etc. Doctor user can first Login/signup and they can view all the drugs and place order for the drugs.

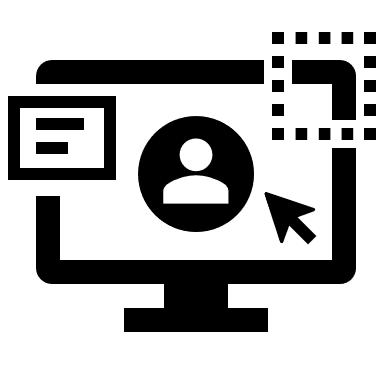
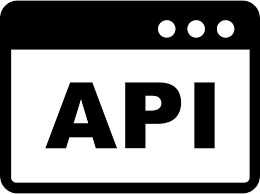
**4.0 Design Pattern**

|  |  |  |
| --- | --- | --- |
| S.NO | Name | Description |
| 1 | Data Base | To store and retrieve information |
| 2 | ASP.NET WEB API | Using HTTP requests, We will use the respective action to trigger various operations in the backend |
| 3 | ASP.NET MVC | To create and design the frontend |

**5.0 Solution Diagram**



Get Drug Details



Get, Post, Delete, Put, Drug &Supplier

SQL Server

API

User

interface

user

Post Drugs

**SOLUTION STEPS**

**Admin Registration:**

1.Admin will enter the required details such as name ,email, contact, password and click signup button browser directs the request to admin login page API. call reaches the web API page.

2.After login MVC opens drugs ,suppliers and order details pages.

3.Admin can first open and view the drugs details .then admin can perform add ,update ,delete operations on the drugs page.

4.Admin can also check the suppliers details and perform update ,retrieve operations on suppliers page.

5. view orders placed by all the doctors and check if the order is valid or not.

6.On validating the order ,he can verify the order.

7.In Add order to picked up section if the order has been picked up then add that order to picked up orders section.

8.Finally view the sales report and download the sales report.

**Doctor Registration:**

1.Admin will enter the required details such as name , email, contact, password and click signup button browser directs the request to admin login page API . call reaches the web API page .

2.After login doctor can view and check details of each and every drug available .

3. Finally buy drugs.

**6.0 Use Case Diagram**

Sales Report

Place Pick Up Order

View Orders

Add, Edit, Delete Drugs

Add, Edit, Delete Supplier

Login As Admin

Place Order

Get All Drugs Details

Inventory Db

Login As Doctor

**7.0 Activity Diagram**

Initial State

**9.0 Sequence Diagram**

Final State

Log Out

Enter Details

Registration

User

View Orders

Authorize

View Users

Login

Admin

Database

Validate user

Login screen

user

Click on login button

check email password

Match email and password

Check email password

If

match

matched

Login successfully

Display the message

else

Did not matched

Login failed

Display the page

**10.0 Data Models/Tables:**

User Registration

|  |  |
| --- | --- |
| User Id | Int(PK) |
| User Name | Varchar(40) |
| Email ID | Varchar(50) |
| Password | Varchar(50) |
| Confirm Password | Varchar(50) |

Drug Table

|  |  |
| --- | --- |
| Drug Id | Int(PK) |
| Drug Name | Varchar(50) |
| Quantity | int |
| Expiry Date | Date |
| Price | Decimal(10,3) |
| Supplier Id | Int(FK) |

Order Details Table

|  |  |
| --- | --- |
| Order Id | Int(PK) |
| Drug Id | Int(FK) |
| User Id | Int(FK) |
| Drug Name | Varchar(50) |
| Quantity Ordered | Int |
| Drug Price | Decimal |
| Order Date | Date |

Supplier Details

|  |  |
| --- | --- |
| Supplier ID | Int(PK) |
| Supplier Name | Varchar(50) |
| Supplier Email | Varchar(100) |
| Contact | Varchar(20) |