

A

**Software Manual**

(Based on Database management System Lab)

**Course Code:** CSTE 3106

ON

**PHARMACY MANAGEMENT SYSTEM***Submitted by***Farman Arefin Tamim**

(ASH2001043M)

(BSc. In Computer Science and Telecommunication Engineering)

Year-3, Term-1

*Under the Guidance of***Dr. Syful Islam**

Assistant Professor

Dept. of Computer Science and Telecommunication Engineering.

**Dept. of Computer Science and Telecommunication Engineering.****Faculty of Engineering.****Noakhali Science and Technology University.**

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## **CANDIDATES DECLARATION.**

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I hereby declare that the database management system project work that I have presented in this report, titled "**Pharmacy Management System**," and that it was completed in a legitimate manner under my supervision and that of **Dr. Syful Islam**, an assistant professor in the Noakhali Science and Technology University department of computer science and telecommunication engineering.

Date: 20/11/2023

**Farman Arefin Tamim**

Roll: ASH2001043M

Year-3 , Term-1

Department of Computer Science  
and Telecommunication Engineering  
Noakhali Science and Technology  
University.

## ACKNOWLEDGEMENT

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I would especially like to thank my teacher, Dr. Syful Islam, for providing me with this amazing opportunity to work on this fantastic project on the subject of “PHARMACY MANAGEMENT SYSTEM”. She also assisted me in conducting extensive research and taught me a great deal of new information. I sincerely appreciate their help.

In addition, I want to express my gratitude to my friends for their invaluable assistance in getting this job finished in the allotted time.

Date: 20/11/2023

**Farman Arefin Tamim**

Roll: ASH2001043M

Year-3 , Term-1

Department of Computer Science  
and Telecommunication Engineering  
Noakhali Science and Technology  
University.

## **Synopsis**

### **1. Title of the Project:**

Pharmacy Management System.

### **2. Project Category:**

DBMS project.

### **3. Objective of the project:**

The main aim of the project is the management of the database of the pharmaceutical shop. This project is insight into the design and implementation of a Pharmacy Management System. This is done by creating a database of the available medicines in the shop. The primary aim of pharmacy management system is to improve accuracy and enhance safety and efficiency in the pharmaceutical store. The aim of this project is to develop software for the effective management of a pharmaceutical store. We have developed this software for ensuring effective policing by providing statistics of the drugs in stock such as:

#### **2.1 Admin User Management:**

- Maintain a database of admins with details such as UserID, name, gender, email, address, date of birth, phone, and position.
- Allow for the addition, update, and deletion of user records.

#### **2.2 Drugs:**

- In the drug section an user can add,update and delete the information of a certain drugs. Also user search and listing the drugs of particular company.

#### **2.3 Drug Details:**

- Here an user can see the details of the drugs. Such as: Check places, Edit Prices, Expired Drugs, Renew Validity and Almost finished drugs.

#### **2.4 Purchases:**

- In this section user can buy drugs, update deals and he/she can see all deals.

#### **2.5 Sales:**

- In this section user can see sales bill, shift bills and retrieval drugs.

#### **2.6 Company :**

- In this section user can add a company , update company details and delete companies information.

#### **2.7 Settings :**

- In this section user can see login details, he/she can change their password and also can be logged out.

#### 4. ER Diagram:

The systems consists of **7 entities** (Company, Drugs, Users, Login, Message\_History, Expiry, History\_Sales)

##### Attributes of Entities :

**Drugs**(Name, Type,

Barcode, Code,

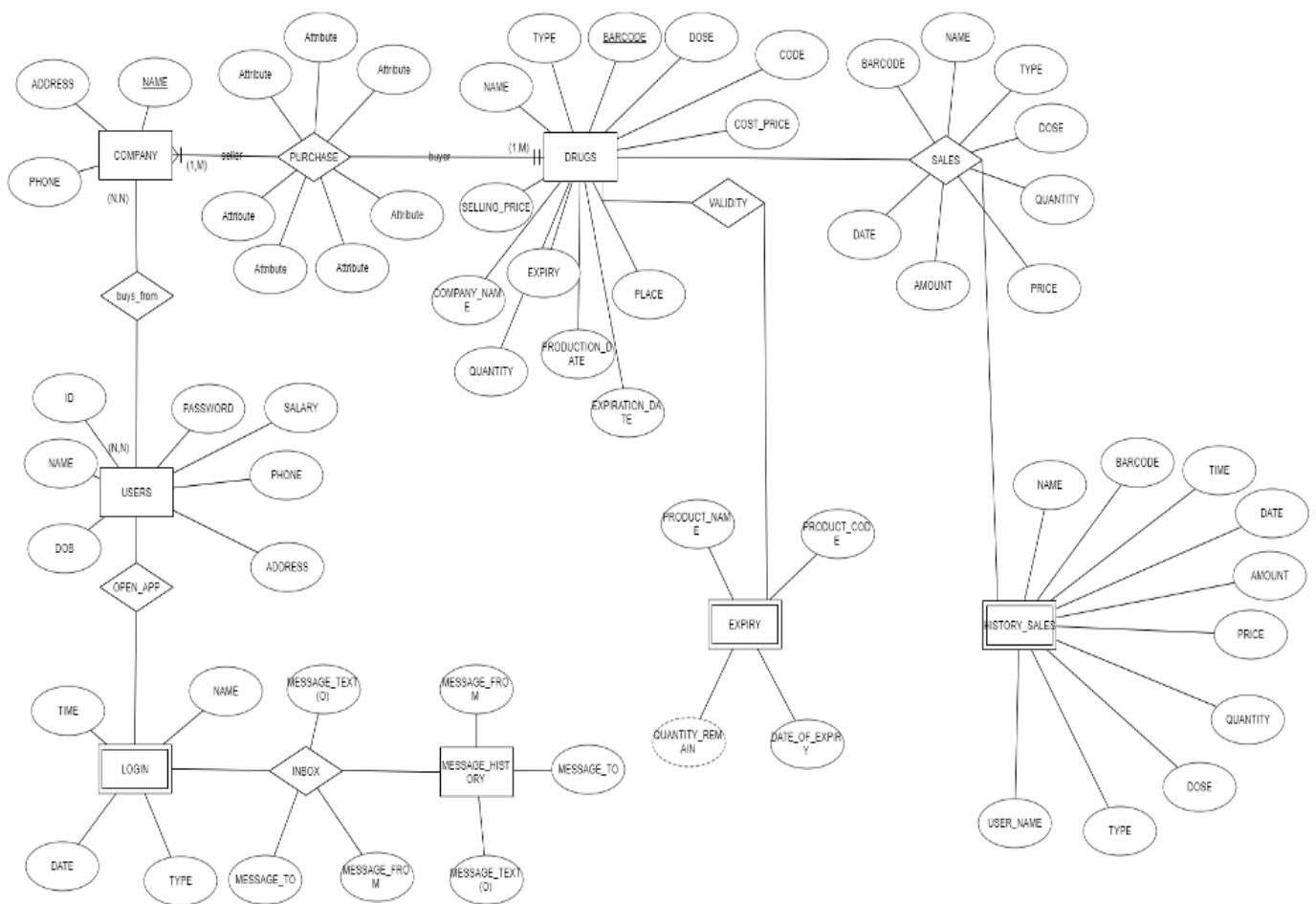
Cost\_Price, Selling\_Price, Company\_Name, Expiry, Production\_Date, Expiration\_Date)

**Users**(Name, ID, Password, Salary, Phone, Address, Date\_Of\_Birth)

**Login**(Name, Time, Type, Date)

**Expiry**(Product\_Name, Product\_Code, Quantity\_Remaining, Date\_Of\_Expiry)

**History\_Sales**(Name, Barcode, Time, Date, Amount, Price, Quantity, Dose, Type)



**Figure: ER diagram for Pharmacy Management System.**



## 6. Language and Software tools used.

**Front End:** JAVA.

**Framework:** JFrame.

**Back end:** My SQL.

**Tools:** Apache Net beans IDE, My SQL workbench 8.0.

**Operating System:** Windows.

## 7. Structure of the project:

### 7.1. Proposed System:

In the proposed system, the administrator can insert, delete and modify the user records as per the requirements. The user details, login trails can be easily maintained in this system. Also the user can be delete by this system. This project will help to smoother the process of the company activities.

### 7.2. Module Description:

#### 5.2.1 Administration module:

This is the main module in the proposed project. The administrator can read and write information about any member such as employee, manager and stuff of the company. They can also update, create and delete the record of members as requirement and implementation plan.

#### 5.2.2 User module:

This module contains the employee records. The sub modules are:

- It contains total information about an employee.
- It contains employee attendance record.
- It contains details of employee who are in leave.
- It contains details of employee salary and can generate employee salary slip.

## 8. Future Scope of the project:

This software is developed in order to computerize the activities which take more time, if done manually, The future scope of our Pharmacy Management System (PMS) project includes:

1. **Biometric Integration:** Enhance security with biometric authentication.
2. **Advanced Reporting:** Implement advanced analytics for deeper insights.
3. **Self-Service Portal:** Create a portal for users to manage their profiles.
4. **HR Software Integration:** Connect with other HR modules for a comprehensive HRMS.



5. **Security Enhancements:** Stay current with security standards and implement additional measures.
6. **Bar Code Scanner :** We will integrate a Bar Code Scanner for track and scan a certain drugs details and other information.

## 9. Hardware Requirement:

OS- windows

Hard disk- 160 GB

RAM- 2 GB

## 10. Software Requirements:

### 9.1 Login Page Interface:



The image shows a login form interface with a dark gray background. On the left, there is an illustration of a person with dark hair wearing a blue shirt, holding a laptop. To the right of the person is a large yellow key with a silver ring. The form itself is titled "Login Form" in a bold, black font. Below the title, there is a section labeled "Login Information" in a smaller font. This section contains two input fields: "User\_ID :" and "User\_Password :". Below these fields are two buttons: "Login" and "Exit". At the bottom of the form, there is a note in red text that reads "Note : Password should be at least 6 Characters".

**Description:** Here the administrator can login to the home page using certain User\_ID and password. If incorrect username or password is inserted it will show error.

## 9.2. Home Page Interface:



### Description:

In the main page there are 7 buttons, hovering the mouse over the seven buttons on the main page will reveal them.

The Settings button have three functions Login Details, Change Password and Logout.

The Company button includes New Company, update Company details, End with, and Update.

And by clicking the logout button one can logout from the software.

### 9.3. Company Page Interface:

NAME	ADDRESS	PHONE
Beximcom	Motijheel, Dha...	01399384334
Cipla	Mumbai	12903
Med_City	Nellore	010114367832
Square	Mirpur,Dhaka,...	013434342143
Sun Pharma	Mysore	01289078443

#### Description:

The Company page is for adding a new company to the database. It includes all the personal information about the company.

### 9.4. Sales Bill page:

Barcode	Name	Type	Dose	Quantity	Price	Amount

#### Description:

The Sales bill page enable the administrator to search the details salary to company database.

### 9.5. Buy Drugs:



The screenshot shows a window titled "Buy\_Drug" with a dark gray background. The main heading "Buy\_Drug Form" is centered at the top. Below it, a section titled "Buy Drugs" contains several input fields and buttons. The fields are arranged in two columns: "Drug\_Barcode :" with the value "fsdgjfhjorodsf", "Drug\_Name :" (empty), "Drug\_Type :" with a dropdown menu showing "Drug\_Type :", "Company\_Name :" with a dropdown menu showing "Company\_Name :", "Quantity :" with the value "3" and a dropdown arrow, "Cost\_Price :" (empty), and "Amount :" (empty). At the bottom, there is a row of five buttons: "Make a Deal", "Update", "Delete", "Clear", and "Cancel".

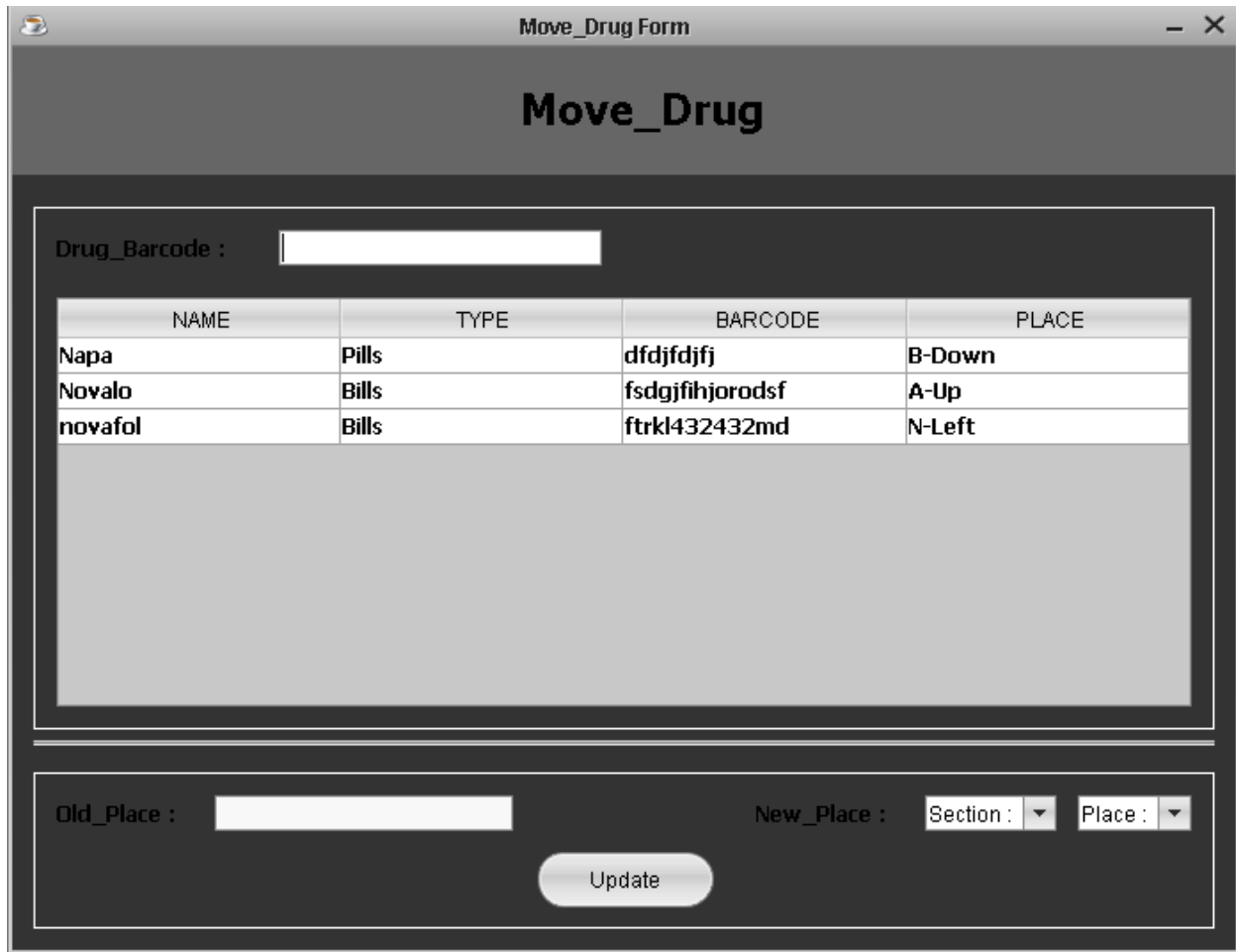
Field	Value
Drug_Barcode :	fsdgjfhjorodsf
Drug_Name :	
Drug_Type :	Drug_Type :
Company_Name :	Company_Name :
Quantity :	3
Cost_Price :	
Amount :	

Buttons: Make a Deal, Update, Delete, Clear, Cancel

#### Description:

In the buy drugs page an administrator can see the deals of a certain drug using barcode.

## 9.6 Move Drug:



**Move\_Drug**

Drug\_Barcode :

NAME	TYPE	BARCODE	PLACE
Napa	Pills	dfdjfdjfdj	B-Down
Novalo	Bills	fsdgjfhjorodsf	A-Up
novafol	Bills	ftrkl432432md	N-Left

Old\_Place :  New\_Place : Section :  Place :

## 11. Conclusion:

This project will improve a company's pharmacy management to provide more accurate and effective service. The purpose of this software is to automate tasks that would require more time to complete by hand. By creating a robust database, the system provides essential statistics, facilitating effective policing and informed decision-making. This software stands as a valuable tool for optimizing drug inventory and ensuring the safety and well-being of patients.