

A PROJECT REPORT
ON
**“BEST CARE MEDICAL STORE MANAGEMENT
SYSTEM”**

Submitted to
L&T Technology Services Pvt. Ltd.
In Partial Fulfillment of the Requirements for the
STEPIn Program

Submitted By:
Samudrala Apurva
Ref No: 104864

TABLE OF CONTENTS

1. ABSTRACT.....	3
2. INTRODUCTION.....	4
3. REQUIREMENTS.....	5
3.1 Functional Requirements of the system.....	5
3.2 Non-Functional Requirements of the system.....	5
3.3 External Interfaces of the system.....	6
3.3.1 Software Interfaces.....	6
3.3.2 Communication Interfaces.....	6
4. TEST PLAN AND TEST CASES.....	7
5. EXPECTED OUTPUT.....	9
6. CONCLUSION.....	13
7. FUTURE SCOPE.....	13

1. ABSTRACT

The Purpose of Best Care Medical Store System is to automate the existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data or information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Best Care Medical Store System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means, one need not be distracted by information that is not relevant, while being able to reach the information. Basically, the project describes how to manage for good performance and better services for the clients.

2. INTRODUCTION

The "Best Care Medical Store System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly.

Every organization, whether big or small, has challenges to overcome and managing the information of Stocks, Medical Shop, Sales, Medicine, User. Every System has different Medical Shop needs; therefore, we design exclusive employee management systems that are adapted to your managerial requirements.

This is designed to assist in strategic planning, and will ensure that the organization is equipped with the right level of information and details for future goals. Also, for those busy executives who are always on the go, our systems come with remote access features, which will allow to manage workforce anytime, at all times. These systems will ultimately allow to better manage resources.

3. REQUIREMENTS

3.1 Functional Requirements of the System

- System need to store information about new entry of medical shop
- System needs to help the internal staff to keep information of Stocks and find them as per various queries
- System need to maintain a quantity record of the store
- System need to update and delete the record of medicines
- System also needs a search area and a security system to prevent data.
- System must allow full and complete record search queries by users

3.2 Non-Functional Requirements of the system

General Guidelines: Performance and reliability are not very important. Priority should be given to adaptability, maintainability, and usability.

- **Usability**

Any one familiar in using windows operation can operate the system since it has the user-friendly interface.

- **Performance**

The system operates its function in small amount of time which is less than two seconds and can be accessed by any one user at a time or concurrently.

- **User Interface**

The user interface is friendly which is easy to use and has attractive frame structure which is prepared in assumption with other related systems.

- **Supportability**

The system can be easily maintained by the manager of the store by using the documents of the system for easy maintenance.

- **Portability**

This system shall run in any Microsoft Windows environment.

3.3 External Interfaces

The Best Care Medical Store Management System will use the standard input/output devices for a personal computer. This includes the following:

- Keyboard
- Mouse
- Monitor

3.3.1 Software Interfaces

- Operating System: Windows 10
- IDE: Code Blocks
- Language: C

3.3.2 Communication Interfaces

This system shall be a stand-alone product that does not require any communication interfaces.

4. TEST PLAN AND TEST CASES

- **TU01:**

Test case Description: Purchase Medicine

Test Steps: Enter the name of medicine to be purchased by a customer or enter the medicine ID if known

Test Output: Details of the medicine to be purchased will be displayed on the console window

Test Status: Pass

- **TU02:**

Test case Description: Information about a Medicine

Test Steps: Enter the name of the medicine to be reviewed or include the information

Test Output: All the information about the medicine will be displayed and the user can include any information about the medicine

Test Status: Pass

- **TU03:**

Test case Description: Know Information about a Medicine

Test Steps: Enter the name of the medicine to obtain the information

Test Output: All the information about the medicine will be displayed on the console window

Test Status: Pass

- **TU04:**

Test case Description: Stock of medicine in the store

Test Steps: Enter the ID to display all the items in the store

Test Output: Information about all the medicines available in the store will be displayed

Test Status: Pass

- **TU05:**

Test case description: Add medicine to the database

Test Steps: Enter the medicine information to be added

Test Output: The medicine will be added successfully

Test Status: Pass

- **TU06:**

Test case Description: Delete a medicine from the database

Test Steps: Enter the medicine ID to be deleted

Test Output: The medicine with the entered ID will be deleted successfully

Test Status: Pass

- **TU07:**

Test case Description: Change Quantity of medicine

Test steps: Enter the medicine ID to change the quantity of medicine

Test Output: Quantity of medicine will be changed

Test Status: Pass

EXPECTED OUTPUT

The following examples illustrates the working of the system for different test cases:

1. Test Result for Test Case 1

```
C:\Windows\System32\cmd.exe - make run
C:\Users\Apurva\3D Objects\Projects\BestCareMedicalStoreManagementSystem\3_Implementation MEDICAL STORE MANAGEMENT
M>make
make: `MEDICALSTOREMANAGEMENTSYSTEM.out' is up to date.

C:\Users\Apurva\3D Objects\Projects\BestCareMedicalStoreManagementSystem\3_Implementation MEDICAL STORE MANAGEMENT
M>make run
./MEDICALSTOREMANAGEMENTSYSTEM.out
Purchase Medicine
Enter 1 if you know ID else any other number to enter Name of Medicine
1
Enter Id to purchase Medicine
2
These are the details of Medicine
Name=Combliflam
Price=130
Available Quantity=30
Company=Sanofi
Mfg Date=23-07-2020
Exp Date=24-06-2022
Medicine Review/Info=Good Medicine for Headache, Migrane and Fever
Do you want to purchase Combliflam
If Yes Enter 1 else any other number
1
Enter Quantity to Purchase
1
Total Price to be paid=130
test/test_medicalstoremanagement.c:46:test_PurchaseMedicine:PASS
```

2. Test Result for Test Case 2

```
EnterInfoAboutMedicine
Enter Id of the medicine you want to Review or include Info
3
These are the details of Medicine
Name=Digene
Price=150
Available Quantity=30
Company=Abbott
Mfg Date=03-04-2020
Exp Date=24-03-2023
Review Already Available!
If you want to Add a Review Enter 1 else Any other number
2
test/test_medicalstoremanagement.c:47:test_EnterInfoAboutMedicine:PASS
```

3. Test Result for Test Case 3

```
KnowInfoAboutMedicine
Enter Name of the medicine you want to see Review and Info
Drotin-M
These are the details of Medicine
Name=Drotin-M
Price=20
Available Quantity=30
Company=Martin and Harris
Mfg Date=02-02-2020
Exp Date=04-01-2022
Review or Info=Good Medicine for Abdominal pain Bloating
test/test_medicalstoremanagement.c:48:test_KnowInfoAboutMedicine:PASS
```

4. Test Result for Test Case 4

```
StockOfMedicine
Enter 1 to know about the stock of medicine in store
1
All Available Items are
Id=1
Name=Paracetamol          Price=120      Available Quantity=30
Company=abbott            Mfg Date=23-04-2019   Exp Date=24-04-2023
Review or Info=Good Medicine for Fever
Id=2
Name=Combliflam           Price=130      Available Quantity=30
Company=Sanofi            Mfg Date=23-07-2020   Exp Date=24-06-2022
Review or Info=Good Medicine for Headache, Migrane and Fever
Id=3
Name=Digene              Price=150      Available Quantity=30
Company=Abbott            Mfg Date=03-04-2020   Exp Date=24-03-2023
Review or Info=Good Medicine for Indigestion
Id=4
Name=Drotin-M            Price=20       Available Quantity=30
Company=Martin and Harris Mfg Date=02-02-2020   Exp Date=04-01-2022
Review or Info=Good Medicine for Abdominal pain Bloating
Id=5
Name=Flunar 10           Price=50       Available Quantity=30
Company=Fdc Limited       Mfg Date=23-10-2019   Exp Date=20-09-2022
Review or Info=Good Medicine for Blood Flow, Dizziness and Vertigo
Id=6
Name=Acenextp            Price=120      Available Quantity=30
Company=Carola            Mfg Date=13-06-2020   Exp Date=28-05-2022
Review or Info=Good Medicine for pain relief and Ankolysing spondylitis
Id=7
Name=Grenil              Price=90       Available Quantity=30
Company=Karnataka antiseditis pharmaceutical ltd Mfg Date=23-12-2019   Exp Date=26-11-2022
Review or Info=Good Medicine for nausea and migrane
Id=8
Name=Cifran-500          Price=150      Available Quantity=30
Company=SUN Pharmaceutical Ltd Mfg Date=23-07-2020   Exp Date=04-02-2023
Review or Info=Good Medicine for Lungs infection and Bone infection
Id=9
Name=R-cin 600           Price=120      Available Quantity=30
Company=Lupin             Mfg Date=23-01-2019   Exp Date=24-04-2023
Review or Info=Good Medicine for Tuberculosis
test/test_medicalstoremanagement.c:49:test_StockOfMedicine:PASS
```

5. Test Result for Test case 5

```
AddMedicineinStore
Enter Medicine Id
10
Enter Medicine Name
Cipla
Enter Company Name
Abott
Enter Manufactured Date
23-10-2020
Enter Expiry Date
21-09-2022
Enter Quantity
20
Enter Price
123
Medicine with id 10 Added Successfully
test/test_medicalstoremanagement.c:50:test_AddMedicineinStore:PASS
```

6. Test Result for Test Case 6

```
DeleteMedicineStore
Enter Id to be deleted
9
Medicine with 9 is Deleted Successfully
test/test_medicalstoremanagement.c:51:test_DeleteMedicineStore:PASS
```

7. Test Result for Test case 7

```
Enter id to change Details
1
Enter
1 - Change Quantity
2 - Change Price
3 - Change Name
4 - Change Company
5 - Change Manufacturing Date
6 - Change Expiry Date
7 - Change Info
Any other number to exit1
Enter Quantity to be changed
2
Quantity changed Successfully
Enter 1 to Change other Details Else any other number
1
Enter
1 - Change Quantity
2 - Change Price
3 - Change Name
4 - Change Company
5 - Change Manufacturing Date
6 - Change Expiry Date
7 - Change Info
Any other number to exit4
Enter company to be changed
FDC Limited
Company changed Successfully
Enter 1 to Change other Details Else any other number
4
test/test_medicalstoremanagement.c:50:test_ChangeMedicineDetails:PASS

-----
7 Tests 0 Failures 0 Ignored
OK
```

6. CONCLUSION

This system was first tested on the test data and then real data. Minor programming errors were identified and rectified. After rectifying the system was implemented successfully and accuracy was found.

7. FUTURE SCOPE

- We can add printer in future.
- We can give more advance software for medical store management including more facilities
- We will host the platform on online servers to make it accessible worldwide
- Integrate multiple load balancers to distribute the loads of the system
- Create the master and slave database structure to reduce the overload of the database queries
- Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers