

**NATIONAL INSTITUTE OF
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Department of Computer Applications

C++ PROJECT
PHARMACY MANAGEMENT SYSTEM

OBJECT ORIENTED PROGRAMING
CA 716

Submitted To:
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PURPOSE OF PROJECT:

The purpose of this Pharmacy Management System project is to improve the maintenance and manipulation of the drugs in the medicals. The pharmacy management system will be used to minimize the time and resource by maintaining the details of the drug systemically so that the data can be used in possible quickest time. While the resource which is minimized are workforce, money, papers, etc.

This system keeps the records of the data of the medicines. It is fed with the information whenever new medicines are brought and it is provided with the row and rack location of the medicine. When we enter the name of the medicine it gives the details of the medicine. Pharmacy is the one of the medical facilities to serve the people of certain population for their healthcare. Before this, pharmacy uses the manual system to manage the medicine stock. It needs the pharmacist assistant check the medicine twice a week to check expire date of the medicine in the storage and the medicine that out of stock. The pharmacist assistant take out the medicine that rise the expired date and keep it at the safety place to avoid mistake the expired medicine to be sell. If there is the out of stock of the medicine, the purchase order form is filling by the pharmacist to order the medicine from the medicine company.

ABSTRACT:

This project entitled with Pharmacy Management System. This application developed using C++. The main goal of this project is to provide digital management of pharmacy rather than manual which will decrease the cost and manpower.

We have used different classes, different member functions, constructors and many more concepts of c++ to make this project efficient and easy to use. We have used different modules for different purpose in this project like “**taking medicine order**”(this module will take the order from the user in efficient way with all the details that it needs and if user input and invalid entry it will ask user to put a valid entry), “**deleting order**”(however deleting an order manually takes effort but here we have reduced the effort, just by entering some details of your booked order you can delete that order in a very short period of time), “**modifying order**(sometimes user can make mistake while ordering so to overcome from this error user can modify his/her order)”, “**receipt printing**(after booking of an order user will need all the details in a receipt for future reference so we have developed this module for that purpose)” and **summary**(meanwhile sometimes booking of order becomes complex so look back at your own steps this module is used) etc.

TECHNOLOGIES USED:

- C++ language
- IDE: DEV-C++

CLASSES AND FUNCTIONS USED:

```
class medicineType //base class
{
    public:
        void take_order();           //to take_order
        void delete_order();         //to delete the order
        void modify();               //to modify the order
        void order_list();           //to display the order_list
        void daily_summary();        //to display daily_summary
        void exit();                 //function to exit
        system medicineType();       //constructor
};
```

FUNCTIONS & THEIR USE:

- `medicine.take_order();` `//function add`

As the name of function says this function will take the order of the user from the listed medicines that pharmacy have and give the total amount to be paid.

- `medicine.delete_order();` `//function delete`

This function deletes the order that the user has booked earlier.

- `medicine.modify();` `//function modify`

This function modifies the details of the order as sometimes user can make the mistake he/she need to change some details in order.

- `medicine.order_list();` `//function order`

This function is used to represent lists of all the orders.

- `medicine.daily_summary();` `//function daily_summary`

After many tasks sometimes its hard to remember all the details. So to get all the summary of the past we use this function.

- `medicine.exit();` `//function exit`

To exit from the system this function is used.

SNAPSHOTS:

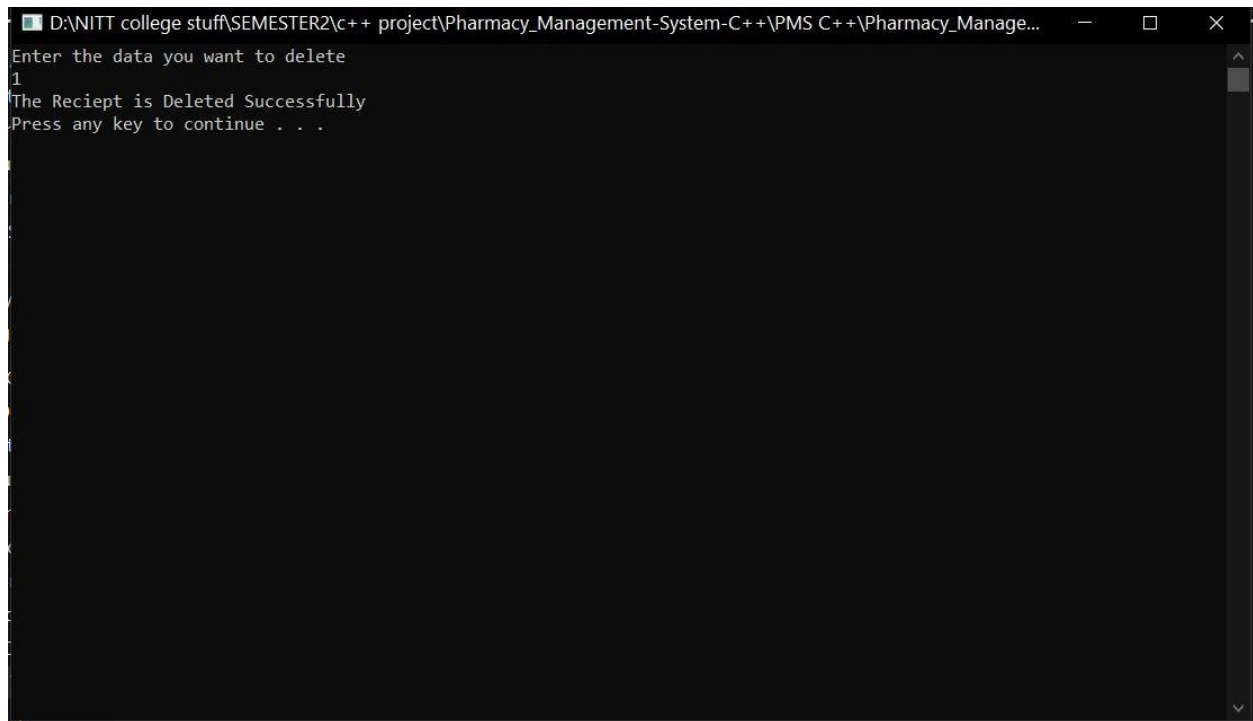
OVERALL VIEW-

```
D:\NITT college stuff\SEMESTER2\c++ project\Pharmacy_Management-System-C++\PMS C++\Pharmacy_Manage...
Pharmacy Management System
=====
||      1. Take new Medicine order      ||
||      2. Delete latest Medicine order ||
||      3. Modify Order List            ||
||      4. Print the Reciept and Make Payment ||
||      5. Daily Summary of total Sale  ||
||      6. Exit                        ||
=====
Enter choice:
```

ORDER BOOKING:

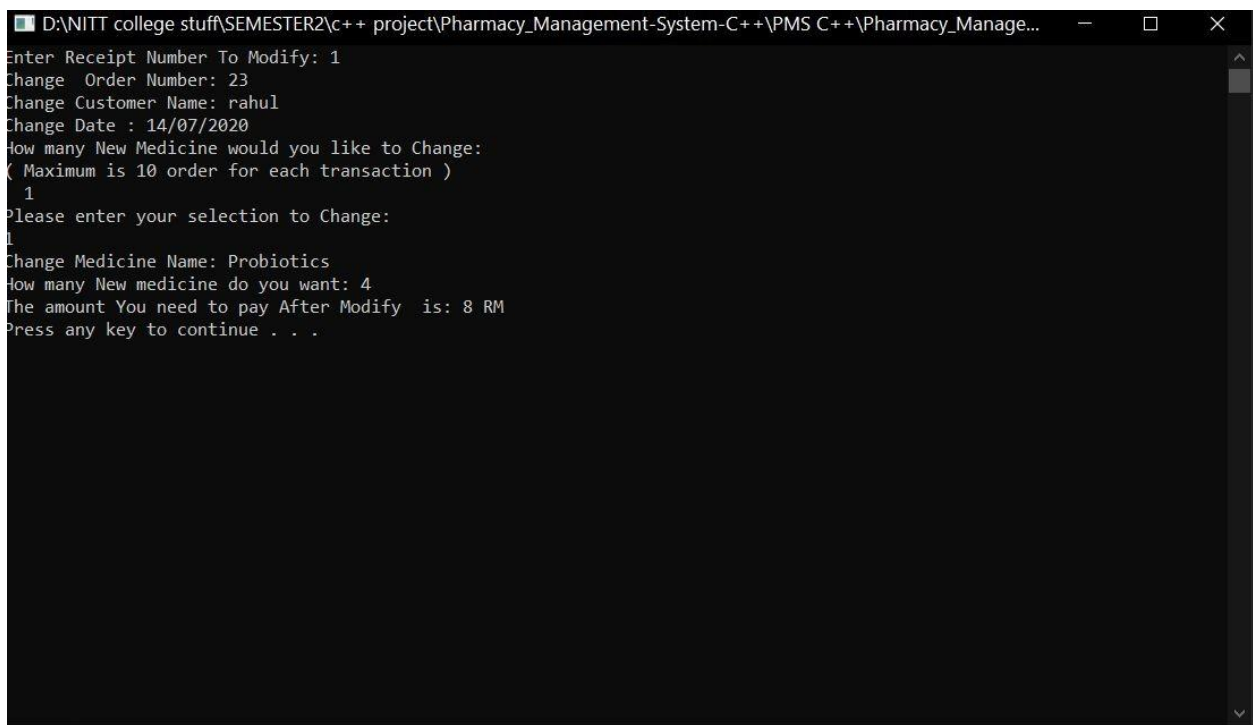
```
D:\NITT college stuff\SEMESTER2\c++ project\Pharmacy_Management-System-C++\PMS C++\Pharmacy_Manage...
Add Order Details
=====
*****
DRUGS ID      DRUGS TYPE      DRUGS NAME      DRUGS PRICE(RM)
*****
0001          OTC             Probiotics       RM 2.00
0002          OTC             Vitamin C(500mg) RM 3.00
0003          OTC             Acid Free C(500mg) RM 1.00
0004          OTC             Women'S Multivate RM 4.00
0005          OTC             Marino Tablet    RM 1.00
0006          OTC             Maxi Cal Tablet  RM 5.00
0007          OTC             Amino Zinc Tablet RM 7.00
0008          OTC             Burnex           RM 4.00
0009          OTC             Fabuloss 5       RM 3.00
0010          OTC             Royal Propollen  RM 5.00
*****
Type Order no: 1
Enter Customer Name: himanshu
Enter Date : 04/07/2020
How many Medicine would you like to order:
( Maximum is 10 order for each transaction )
4
Please enter your selection :
3
Medicine Name: Acid Free C(500mg)
How many medicine do you want: 4
The amount You need to pay is: 4 RM
Press any key to continue . . .
```

DELETING ORDER:



```
D:\NITT college stuff\SEMESTER2\c++ project\Pharmacy_Management-System-C++\PMS C++\Pharmacy_Manage...
Enter the data you want to delete
1
The Reciept is Deleted Successfully
Press any key to continue . . .
```

MODIFICATION IN ORDER:



```
D:\NITT college stuff\SEMESTER2\c++ project\Pharmacy_Management-System-C++\PMS C++\Pharmacy_Manage...
Enter Receipt Number To Modify: 1
Change Order Number: 23
Change Customer Name: rahul
Change Date : 14/07/2020
How many New Medicine would you like to Change:
( Maximum is 10 order for each transaction )
1
Please enter your selection to Change:
1
Change Medicine Name: Probiotics
How many New medicine do you want: 4
The amount You need to pay After Modify is: 8 RM
Press any key to continue . . .
```

RECEIPT GENERATED AFTER ORDER:

```
D:\NITT college stuff\SEMESTER2\c++ project\Pharmacy_Management-System-C++\PMS C++\Pharmacy_Manage...
Enter the Reciept Number To Print The Reciept
1

=====
                Here is the Order list
=====
Reciept Number : 1
Customer Name: himanshu
Order Date : 04/07/2020

=====
| Medicine Type | Medicine Name | Quantity | Total Price |
=====++=====++=====++=====++
OTC             Acid Free C(500mg)             4           4 RM
OTC             Probiotics                      23          46 RM
OTC             Acid Free C(500mg)             23          23 RM
OTC             Acid Free C(500mg)             23          23 RM
Total Bill is : 96
Type the exact amount You need to pay: 96

Payment Done
Thank You

Press any key to continue . . .
```

OVERALL SUMMARY:

```
D:\NITT college stuff\SEMESTER2\c++ project\Pharmacy_Management-System-C++\PMS C++\Pharmacy_Manage...

=====
                Here is the Daily Summary of All Orders
=====
Reciept Number : 23
Customer Name: rahul
Order Date : 14/07/2020

=====
| Medicine Type | Medicine Name | Quantity | Total Price |
=====++=====++=====++=====++
OTC             Probiotics                      4           8 RM
Total Bill is : 8

Press any key to continue . . .
```


ENHANCEMENT AND CONCLUSION OF PROJECT:

ENHANCEMENT:

This project is a small effort to provide a simplified interface for booking of medicine orders and managing them. However, there is scope for adding additional features.

CONCLUSION:

This project was an immense help in realizing the concepts of programming in C, C++, OOPS. The efficiency of work increases as all the calculations and details will be already fetched through the user and represent all the information in a very simple way. Hence, avoiding all the chaos that occurs during manual management.

References

- <https://stackoverflow.com/>
- <https://www.tutorialspoint.com/cplusplus/index.htm>
- <https://www.geeksforgeeks.org/c-plus-plus/>
- <https://beginnersbook.com/2017/08/cpp-oops-concepts/>
- <https://www.youtube.com/channel/UCs6sf4iRhhE875T1QjG3wPQ>
- <https://www.cplusplus.com/>
- <https://www.javatpoint.com/java-oops-concepts>
- https://www.w3schools.com/cpp/cpp_oop.asp

GIT Link: <https://github.com/rudeakshay/OOPs-Project>