THE PHARMACY MANAGEMENT SYSTEM

21CSC101T – OBJECT-ORIENTED DESIGN AND PROGRAMMING

Mini Project Report

Submitted by

ADITYA TEOTIA [Reg. No.: RA2211003011282]
B.Tech. CSE - Core

ADITYA VIKRAM SINGH [Reg. No.: RA2211003011288]
B.Tech. CSE - Core

AMAN SINGH [Reg. No.: RA2211003011295]
B.Tech. CSE - Core

MOAZ ALIMI [Reg. No.: RA2211003011348]
B.Tech. CSE - Core

SCHOOL OF COMPUTING
COLLEGE OF ENGINEERING AND TECHNOLOGY
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
(Under Section 3 of UGC Act, 1956)
S.R.M. NAGAR, KATTANKULATHUR – 603 203
KANCHEEPURAM DISTRICT

SRM INSTITUTION OF SCIENCE AND TECHNOLOGY
KATTANKULATHUR-603203

BONAFIDE CERTIFICATE

Certified that this Project Report titled **"THE PHARMACY MANAGEMENT SYSTEM"** is the bonafide work done by Aditya Teotia_RA2211003011282, Aditya Vikram Singh_RA2211003011288, Aman Singh_RA221100301195, Moaz Alimi_RA2211003011348 who completed the project under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other work.

SIGNATURE
Dr. Kirubanantham P
OODP – Course Faculty
Assistant Professor
Department of C. Tech
SRMIST

SIGNATURE
Dr. Pushpalatha M
Head of the Department
Department of C. Tech
SRMIST

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INTRODUCTION

The pharmacy management system is a software application designed to manage and automate the operations of a pharmacy. It aims to provide a complete solution for managing the pharmacy's inventory, sales, purchases, and customer data. The code that you provided is an implementation of the pharmacy management system using Python programming language. It is a command-line interface (CLI) based application that offers various functionalities to manage the pharmacy's operations.

Functioning and Working Model
The pharmacy management system code that you provided has several functions that perform different operations. These functions include:

1. `main()`: This function is the entry point of the application. It displays a menu of options to the user and asks the user to select one of them. The menu includes options for managing inventory, sales, purchases, and customer data.

2. `add_new_medicine()`: This function allows the user to add a new medicine to the inventory. It prompts the user to enter the medicine's name, quantity, and price.

3. `update_medicine()`: This function allows the user to update the information of an existing medicine in the inventory. It prompts the user to enter the medicine's name and the new information.

4. `delete_medicine()`: This function allows the user to delete a medicine from the inventory. It prompts the user to enter the medicine's name.

5. `search_medicine()`: This function allows the user to search for a medicine in the inventory. It prompts the user to enter the medicine's name and displays its information if found.

6. `show_inventory()`: This function displays the current inventory of the pharmacy.

7. `sell_medicine()`: This function allows the user to sell a medicine to a customer. It prompts the user to enter the customer's name, the medicine's name, and the quantity sold. It then calculates the total price and updates the inventory accordingly.

8. `add_new_customer()`: This function allows the user to add a new customer to the database. It prompts the user to enter the customer's name and phone number.

9. `update_customer()`: This function allows the user to update the information of an existing customer. It prompts the user to enter the customer's name and the new information.

10. `delete_customer()`: This function allows the user to delete a customer from the database. It prompts the user to enter the customer's name.

11. `search_customer()`: This function allows the user to search for a customer in the database. It prompts the user to enter the customer's name and displays its information if found.

12. `show_customers()`: This function displays the current list of customers in the database.

PROBLEM STATEMENT

The problem statement for this pharmacy management system is to provide an efficient and automated system for managing pharmacy operations. The traditional manual system of managing pharmacy operations is prone to errors and can be time-consuming. This system aims to provide an accurate, fast, and reliable method of managing pharmacy operations.

The system will automate the entire process of managing pharmacy operations, including inventory management, sales management, customer management, and prescription management. By automating these processes, the system will eliminate errors, reduce paperwork, and provide a more streamlined approach to managing the pharmacy.

The system will also provide real-time data analysis and reporting, which will help pharmacy owners make informed decisions about their business. By analyzing data such as sales trends, inventory levels, and customer behavior, the system will help pharmacy owners make data-driven decisions about their business.

In summary, the problem statement for this pharmacy management system is to provide an efficient and automated system for managing pharmacy operations that eliminates errors, reduces paperwork, and provides real-time data analysis and reporting to help pharmacy owners make informed decisions about their business.

FUNCTIONING AND WORKING MODEL

The pharmacy management system code that you provided has several functions that perform different operations. These functions include:

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8. `add_new_customer()`: This function allows the user to add a new customer to the database. It prompts the user to enter the customer's name and phone number.

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10. `delete_customer()`: This function allows the user to delete a customer from the database. It prompts the user to enter the customer's name.

11. `search_customer()`: This function allows the user to search for a customer in the database. It prompts the user to enter the customer's name and displays its information if found.

12. `show_customers()`: This function displays the current list of customers in the database.

The working model of the pharmacy management system code is as follows:

1. The user runs the application by executing the `main()` function.

2. The application displays a menu of options to the user.

3. The user selects an option from the menu.

4. The application executes the corresponding function.

5. The user interacts with the function by providing input as prompted by the application.

6. The function performs the required operation and returns the result to the user.

7. The application returns to the menu of options and the process repeats until the user exits the applicati

CODE

```
// Pharmacy Management System - C++//

#include <iostream>
#include <stdlib.h>
#include <string>
#include <cctype>
#include <cmath>
#include <cstdio>
#include <fstream>
#include <iomanip>
#define max 10

using namespace std;
//the header file

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();//constuctor

};

 medicineType::medicineType ()
{

}       //constructor for class CarType


struct node //constract node
{
    int reciept_number;
    string customerName;
    string date;
    int quantity[10];
    string type = {"OTC"};
    int x, menu2[10];
    double amount[10];
```

```
    string medicineName[10]={"Probiotics","Vitamin C(500mg)","Acid Free
C(500mg)","Women'S Multivate","Marino Tablet","Maxi Cal Tablet",
    "Amino Zinc Tablet","Burnex","Fabuloss 5","Royal Propollen"};
    double Medicine[10] = {2.00,3.00,1.00,4.00,1.00,5.00,7.00,4.00,3.00,5.00};
    double total;

    node *prev;
    node *next;
    node *link;

}*q, *temp;             //pointer declaration


node *start_ptr = NULL;
node *head = NULL;
node *last = NULL;

int main()  // Main function
{

    system("COLOR 0");      //Color to change background
    medicineType medicine;
    int menu;
    do
    {
        system("cls");
        cout<<"\t\t\t    Pharmacy Management System \n";
        cout<<"\t\t================================================\n\n";
        cout<<"\t\t------------------------------------------------\n";
        cout<<"\t\t||\t1. Take new Medicine order \t\t ||\n";
        cout<<"\t\t||\t2. Delete latest Medicine order\t\t ||\n";
        cout<<"\t\t||\t3. Modify Order List \t\t\t ||\n";
        cout<<"\t\t||\t4. Print the Reciept and Make Payment \t ||\n";
        cout<<"\t\t||\t5. Daily Summary of total Sale \t\t ||\n";
        cout<<"\t\t||\t6. Exit\t\t\t\t\t ||\n";
        cout<<"\t\t------------------------------------------------\n";
        cout<<"Enter choice: ";

        cin>>menu;

        switch (menu)
        {
        case 1:
            {
                medicine.take_order();  //function add
                break;
            }   //end case 1
```

```
        case 2:
            {
                medicine.delete_order();    //function delete
                system("PAUSE");
                break;
            }   //end case 2

        case 3:
            {
                medicine.modify();  //function modify
                system("PAUSE");
                break;
            }   //end case 3

        case 4:
            {
                medicine.order_list();  //function order
                system("PAUSE");
                break;
            }   //end case 4
        case 5:
            {
                medicine.daily_summary();   //function daily_summary
                system("PAUSE");
                break;
            }   //end case 5
        case 6:
            {
                medicine.exit();    //function exit
                goto a;
                break;
            }   //end case 6


        default:
            {
                cout<<"You enter invalid input\nre-enter the input\n"<<endl;
                break;
            }//end defeault
        }//end Switch
    }while(menu!=6);//end do
    a://goto
    cout<<"thank you"<<endl;
    system ("PAUSE");
    return 0;
}//end  main function


void medicineType::take_order()     //function to take_order
```

```
{
    system("cls");
    int i;
    int choice, quantity, price,None;

    cout <<"\nAdd Order Details\n";
    cout <<"_____________________________________ \n\n";

    node *temp;
    temp=new node;

                cout
<<"*********************************************************************\
n";
                cout<<"DRUGS ID"<<"\tDRUGS TYPE"<<"   \t\tDRUGS
NAME"<<"           DRUGS PRICE(RM)"<<endl;
                cout
<<"*********************************************************************\
n";
                cout<<"0001"<<"\t"<<"\tOTC"<<"\t\t"<<"    Probiotics"<<"
     RM 2.00"<<endl;
                cout<<"0002"<<"\t"<<"\tOTC"<<"\t\t"<<"    Vitamin
C(500mg)"<<"      RM 3.00"<<endl;
                cout<<"0003"<<"\t"<<"\tOTC"<<"\t\t"<<"    Acid Free
C(500mg)"<<"        RM 1.00"<<endl;
                cout<<"0004"<<"\t"<<"\tOTC"<<"\t\t"<<"    Women'S
Multivate"<<"     RM 4.00"<<endl;
                cout<<"0005"<<"\t"<<"\tOTC"<<"\t\t"<<"    Marino
Tablet"<<"     RM 1.00"<<endl;
                cout<<"0006"<<"\t"<<"\tOTC"<<"\t\t"<<"    Maxi Cal
Tablet"<<"       RM 5.00"<<endl;
                cout<<"0007"<<"\t"<<"\tOTC"<<"\t\t"<<"    Amino Zinc
Tablet"<<"     RM 7.00"<<endl;
                cout<<"0008"<<"\t"<<"\tOTC"<<"\t\t"<<"    Burnex"<<"
 RM 4.00"<<endl;//1353fn
                cout<<"0009"<<"\t"<<"\tOTC"<<"\t\t"<<"    Fabuloss
5"<<"            RM 3.00"<<endl;
                cout<<"0010"<<"\t"<<"\tOTC"<<"\t\t"<<"    Royal
Propollen"<<"       RM 5.00"<<endl;
                cout<<" "<<endl;

    temp = new node;
    cout << "Type Order no: ";
    cin >> temp->reciept_number;
    cout<< "Enter Customer Name: ";
    cin>> temp->customerName;
    cout<<"Enter Date : ";
    cin>>temp->date;
```

```
    cout << "How many Medicine would you like to order:"<< endl;
    cout<<"( Maximum is 10 order for each transaction ) \n";
    cout << "   " ;
    cin >> temp->x;
    if (temp->x >10)
    {
        cout << "The Medicine you order is exceed the maximum amount of order
!";
        system("pause");
    }
    else{
    for (i=0; i<temp->x; i++)
    {

        cout << "Please enter your selection : "<<endl;
        cin>> temp->menu2[i];
        cout<< "Medicine Name: " <<temp->medicineName[temp->menu2[i]-1]<<endl;
        cout << "How many medicine do you want: ";
        cin >> temp->quantity[i];
        temp->amount[i] = temp->quantity[i] * temp->Medicine[temp->menu2[i]-
1];
        cout << "The amount You need to pay is: " << temp->amount[i]<<"
RM"<<endl;
        system("PAUSE");

    }
    cout<<"=============================================================================
========"<<endl;
    cout << "Order Taken Successfully"<<endl;
    cout<<"=============================================================================
========"<<endl;
    cout << "Go to Reciept Menu to Pay The Bill"<<endl;
    cout<<"=============================================================================
========"<<endl;
    system ("PAUSE");

    temp->next=NULL;
    if(start_ptr!=NULL)
    {
        temp->next=start_ptr;
    }
    start_ptr=temp;
    system("cls");
}
}//End function take_order


void medicineType::order_list()     //Function to display receipt
{
```

```
    int i, num, num2;
    bool found;         //variable to search
    system("cls");
    node *temp;

    temp=start_ptr;
    found = false;

    cout<<" Enter the Reciept Number To Print The Reciept\n";
    cin>>num2;
    cout<<"\n";
    cout<<"================================================================================
========"<<endl;
    cout <<"\t\tHere is the Order list\n";
    cout<<"================================================================================
========"<<endl;


    if(temp == NULL) //Invalid receipt code
    {
        cout << "\tThere is no Order to show\n\t\t\tSo The List is
Empty\n\n\n";
    }
    while(temp !=NULL && !found)
    {
        if (temp->reciept_number==num2)
        {
            found = true;
        }
        else
        {
            temp = temp -> next;
        }
        if (found)  //print the receipt
        {
        cout <<"Reciept Number : "<<temp->reciept_number;
        cout <<"\n";
        cout<<"Customer Name: "<<temp->customerName<<endl;

        cout<<"Order Date : "<<temp->date<<endl;

        cout<<"_____________________________________________________________________
              _____________"<<endl;

        cout <<
"================================================================================
==" << endl;
        cout << "|  Medicine Type |     Medicine
Name    |      Quantity     |    Total Price |" << endl;
```

```
        cout <<
"=======++==================++================++===============++=============
==" << endl;
        for (i=0;i<temp->x;i++)
        {
            cout << temp->type <<"  \t\t";
            cout<<temp->medicineName[temp->menu2[i]-1]<<"\t\t\t  ";
            cout<<temp->quantity[i] <<"\t\t";
            cout<< temp->amount[i]<<" RM"<<endl;
            cout<<"_____________________________________________________________
_____________________"<<endl;
        }

        temp->total = temp->amount[0]+temp->amount[1]+temp->amount[2]+temp-
>amount[3]+temp->amount[4]+temp->amount[5]+temp->amount[6]+temp->amount[7]
                        +temp->amount[8]+temp->amount[9];
        cout<<"Total Bill is : "<<temp->total;
        cout<<"\n";
        cout << "Type the exact amount You need to pay: ";
        cin >> num;

        cout <<"\n";
        cout <<"\n";
        cout<<"Payment Done\nThank You\n";
        cout
<<"\n_____________________________________________________________________
______\n";
        }


}
}   //End function order_list


void medicineType::delete_order()   //function to delete_order
{
    system("cls");
    int i, num, count;
    cout<<"Enter the data you want to delete \n";
    cin>>num;
    node *q;
    node *temp;
    bool found;

    if(start_ptr == NULL)
        cerr<<"Can not delete from an empty list.\n";
    else
    {
        if(start_ptr->reciept_number == num)
```

```
        {
            q = start_ptr;
            start_ptr = start_ptr->next;
            count--;
            if(start_ptr == NULL)
            last = NULL;
            delete q;
            cout<<"The Reciept is Deleted Successfully"<<endl;
        }
        else
        {
            found = false;
            temp = start_ptr;
            q = start_ptr->next;

        while((!found) && (q != NULL))
        {
            if(q->reciept_number != num)
            {
                temp = q;
                q = q-> next;
            }
            else
                found = true;
        }

            if(found)
            {
                temp->next = q->next;
                count--;

                if(last == q)
                last = temp;
                delete q;
                cout<<"The Reciept is Deleted Successfully"<<endl;
            }
            else
                cout<<"Item to be deleted is not in the list."<<endl;
            }
        }
}   //End function delete_order



void medicineType::modify()     //function to modify order
{
 system("cls");
 int i, ch, sid;
 bool found;
```

```
found = false;
temp = start_ptr;
cout<<"Enter Receipt Number To Modify: ";
cin>>sid;
if (temp==NULL && sid==0)
{
   cout<<"NO RECORD TO MODIFY..!"<<endl;
}

else
{
   while(temp !=NULL && !found)
   {
       if (temp->reciept_number==sid)
       {
           found = true;
       }
       else
       {
           temp = temp -> next;
       }
   if (found)
   {
   cout << "Change  Order Number: ";
   cin >> temp->reciept_number;
   cout<< "Change Customer Name: ";
   cin>> temp->customerName;
   cout<<"Change Date : ";
   cin>>temp->date;
   cout << "How many New Medicine would you like to Change:"<< endl;
   cout<<"( Maximum is 10 order for each transaction ) \n";
   cout << "   " ;
   cin >> temp->x;
   if (temp->x >10)
   {
       cout << "The Medicine you order is exceed the maximum amount of order
!";
       system("pause");
   }
   else{
   for (i=0; i<temp->x; i++)
   {

       cout << "Please enter your selection to Change: "<<endl;
       cin>> temp->menu2[i];
       cout<< "Change Medicine Name: " <<temp->medicineName[temp->menu2[i]-
1]<<endl;
       cout << "How many New medicine do you want: ";
```

```
        cin >> temp->quantity[i];
        temp->amount[i] = temp->quantity[i] * temp->Medicine[temp->menu2[i]-
1];
```

CODE AND FUNCTIONS USED

The Pharmacy Management System code provided in this case uses a number of functions to perform various operations. These functions include:

1. `add_medicine()` - This function adds a new medicine to the inventory. It prompts the user to enter the name, quantity, and price of the medicine, and then adds it to the inventory.

2. `sell_medicine()` - This function is used to sell a medicine from the inventory. It prompts the user to enter the name of the medicine and the quantity to be sold. If the requested quantity is available in the inventory, the function deducts it from the inventory and calculates the total cost of the purchase.

3. `view_inventory()` - This function displays the current inventory of medicines, including their names, quantities, and prices.

4. `update_medicine()` - This function allows the user to update the details of a medicine in the inventory. It prompts the user to enter the name of the medicine and then allows them to update its name, quantity, and/or price.

5. `delete_medicine()` - This function allows the user to delete a medicine from the inventory. It prompts the user to enter the name of the medicine and then removes it from the inventory.

6. `save_data()` - This function is used to save the inventory data to a file. It creates a file called 'inventory.txt' and writes the current inventory data to it.

7. `load_data()` - This function is used to load the inventory data from a file. It reads the data from the 'inventory.txt' file and updates the inventory with the stored data.

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OUTPUT

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: 1

sh: 1: cls: not found

Add Order Details

_____

****

DRUGS ID	DRUGS TYPE	DRUGS NAME	DRUGS PRICE(Rs)

****

0001	OTC	Probiotics	Rs 2.00
0002	OTC	Vitamin C(500mg)	Rs 3.00
0003	OTC	Acid Free C(500mg)	Rs 1.00
0004	OTC	Women'S Multivate	Rs 4.00
0005	OTC	Marino Tablet	Rs 1.00
0006	OTC	Maxi Cal Tablet	Rs 5.00
0007	OTC	Amino Zinc Tablet	Rs 7.00
0008	OTC	Burnex	Rs 4.00
0009	OTC	Fabuloss 5	Rs 3.00

0010 OTC Royal Propollen Rs 5.00

Type Order no: 1234

Enter Customer Name: Moaz

Enter Date : 14/0502023

How many Medicine would you like to order:

(Maximum is 10 order for each transaction)

2

Please enter your selection :

0001

Medicine Name: Probiotics

How many medicine do you want: 2

The amount You need to pay is: 4 RM

sh: 1: PAUSE: not found

Please enter your selection :

0002

Medicine Name: Vitamin C(500mg)

How many medicine do you want: 3

The amount You need to pay is: 9 RM

==========

Order Taken Successfully

==========

Go to Reciept Menu to Pay The Bill

==========

sh: 1: PAUSE: not foundsh: 1: cls: not foundsh: 1: cls: not foundPharmacy 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: 3

Enter Receipt Number To Modify: 1234

Change Order Number: 1235

Change Customer Name: Moaz

Change Date : 14/05/2023

How many New Medicine would you like to Change:

(Maximum is 10 order for each transaction)

3

Please enter your selection to Change:

0001

Change Medicine Name: Probiotics

How many New medicine do you want: 2

The amount You need to pay After Modify is: 4 RM

sh: 1: PAUSE: not found

Please enter your selection to Change:

0002

Change Medicine Name: Vitamin C(500mg)

How many New medicine do you want: 2

The amount You need to pay After Modify is: 6 RM

sh: 1: PAUSE: not found

Please enter your selection to Change:

0003

Change Medicine Name: Acid Free C(500mg)

How many New medicine do you want: 4

The amount You need to pay After Modify is: 4 RM

RECORD MODIFIED....!

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: 4

Enter the Reciept Number To Print The Reciept

1235

==========

Here is the Order list

==========

Reciept Number : 1235

Customer Name: Moaz

Order Date : 14/05/2023

Medicine Type	Medicine Name	Quantity	Total Price
OTC	Probiotics	2	4 RM
OTC	Vitamin C(500mg)	2	6 RM
OTC	Acid Free C(500mg)	4	4 RM

Total Bill is : 14

Type the exact amount You need to pay: 14

Payment Done

Thank You

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: 1

Add Order Details

****

DRUGS ID	DRUGS TYPE	DRUGS NAME	DRUGS PRICE(Rs)

****

0001	OTC	Probiotics	Rs 2.00
0002	OTC	Vitamin C(500mg)	Rs 3.00
0003	OTC	Acid Free C(500mg)	Rs 1.00
0004	OTC	Women'S Multivate	Rs 4.00
0005	OTC	Marino Tablet	Rs 1.00
0006	OTC	Maxi Cal Tablet	Rs 5.00
0007	OTC	Amino Zinc Tablet	Rs 7.00
0008	OTC	Burnex	Rs 4.00
0009	OTC	Fabuloss 5	Rs 3.00

0010 OTC Royal Propollen Rs 5.00

Type Order no: 1265

Enter Customer Name: Aditya

Enter Date : 14/05/2023

How many Medicine would you like to order:

(Maximum is 10 order for each transaction)

3

Please enter your selection :

0009

Medicine Name: Fabuloss 5

How many medicine do you want: 5

The amount You need to pay is: 15 RM

sh: 1: PAUSE: not found

Please enter your selection :

0004

Medicine Name: Women'S Multivate

How many medicine do you want: 2

The amount You need to pay is: 8 RM

sh: 1: PAUSE: not found

Please enter your selection :

0010

Medicine Name: Royal Propollen

How many medicine do you want: 3

The amount You need to pay is: 15 RM

sh: 1: PAUSE: not found

==========

Order Taken Successfully

==========

Go to Reciept Menu to Pay The Bill

==========

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: 4

Enter the Reciept Number To Print The Reciept

1265

==========

Here is the Order list

==========

Reciept Number : 1265

Customer Name: Aditya

Order Date : 14/05/2023

Medicine Type	Medicine Name	Quantity	Total Price
OTC	Fabuloss 5	5	15 RM
OTC	Women'S Multivate	2	8 RM
OTC	Royal Propollen	3	15 RM

Total Bill is : 38

Type the exact amount You need to pay: 38

Payment Done

Thank You

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: 5

==========

Here is the Daily Summary of All Orders

==========

Reciept Number : 1265

Customer Name: Aditya

Order Date : 14/05/2023

==========

| Medicine Type | Medicine Name | Quantity | Total Price |

=======++==========++==========++==========++==========

OTC Fabuloss 5 5 15 RM

OTC Women'S Multivate 2 8 RM

_____

OTC Royal Propollen 3 15 RM

_____

Total Bill is : 38

_____

Reciept Number : 1235

Customer Name: Moaz

Order Date : 14/05/2023

_____

==========

| Medicine Type | Medicine Name | Quantity | Total Price |

=======++==========++==========++==========++==========

OTC Probiotics 2 4 RM

_____

OTC Vitamin C(500mg) 2 6 RM

_____

OTC Acid Free C(500mg) 4 4 RM

_____

Total Bill is : 14

_____

sh: 1: PAUSE: not found

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 ||

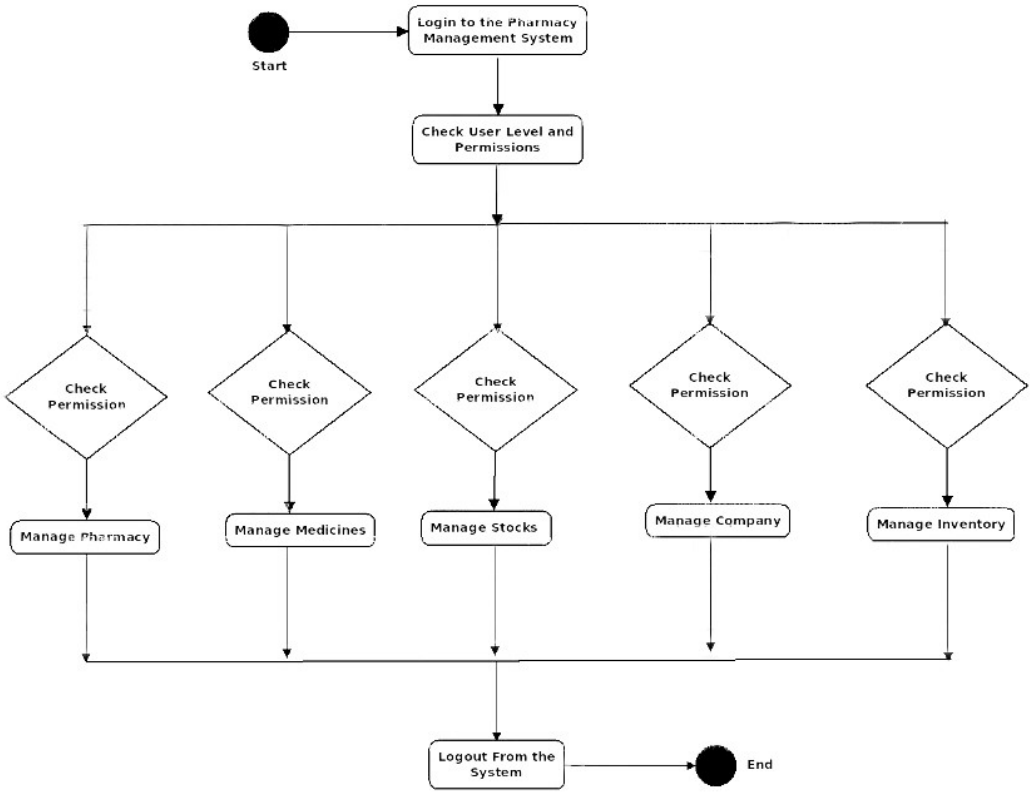
Enter choice: 6

You choose to exit.

thank you

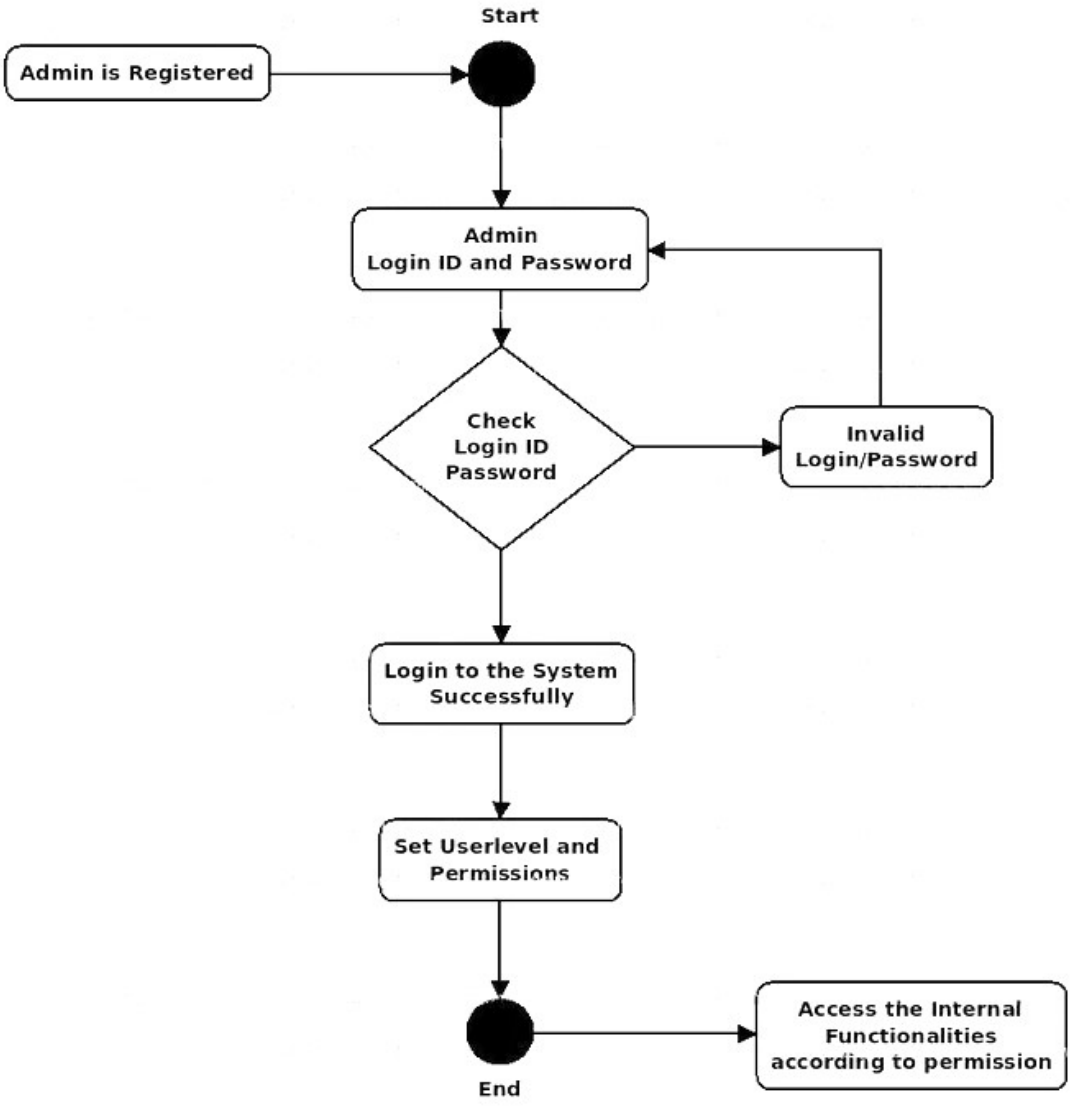
UML DIAGRAM

Features of the Activity UML Diagram:

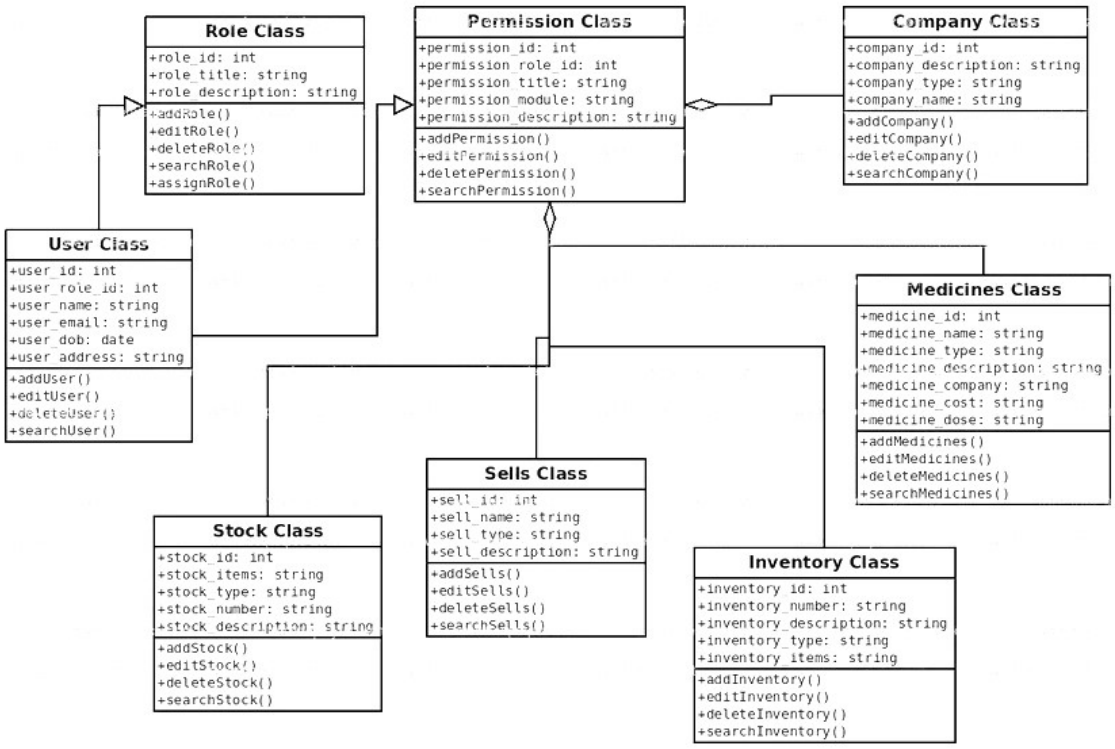


Activity Diagram for Pharmacy Management System

LOGIN ACTIVITY DIAGRAM:

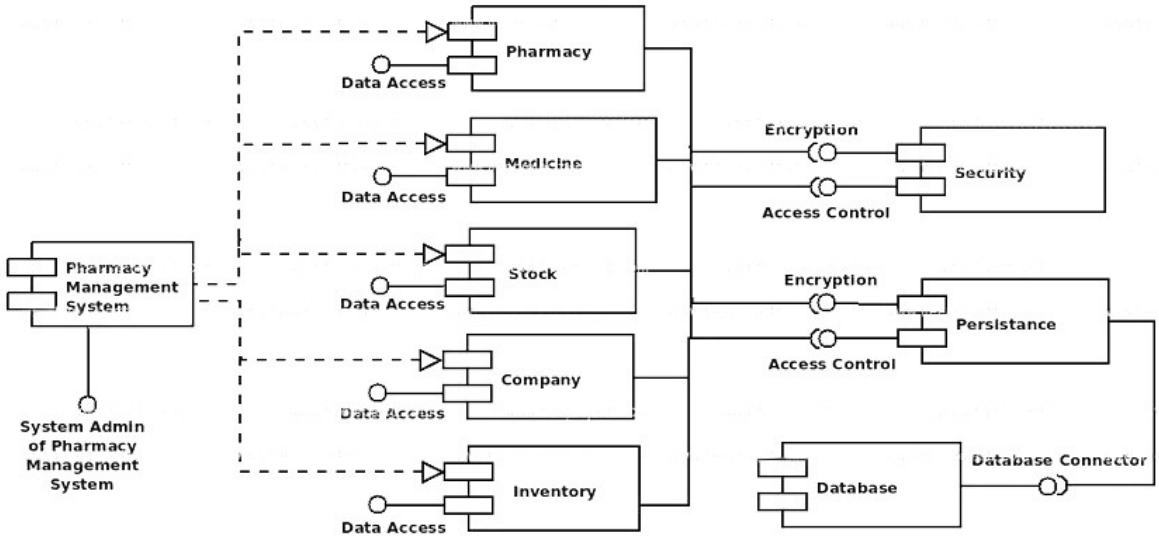


CLASS DIAGRAM IMAGES:



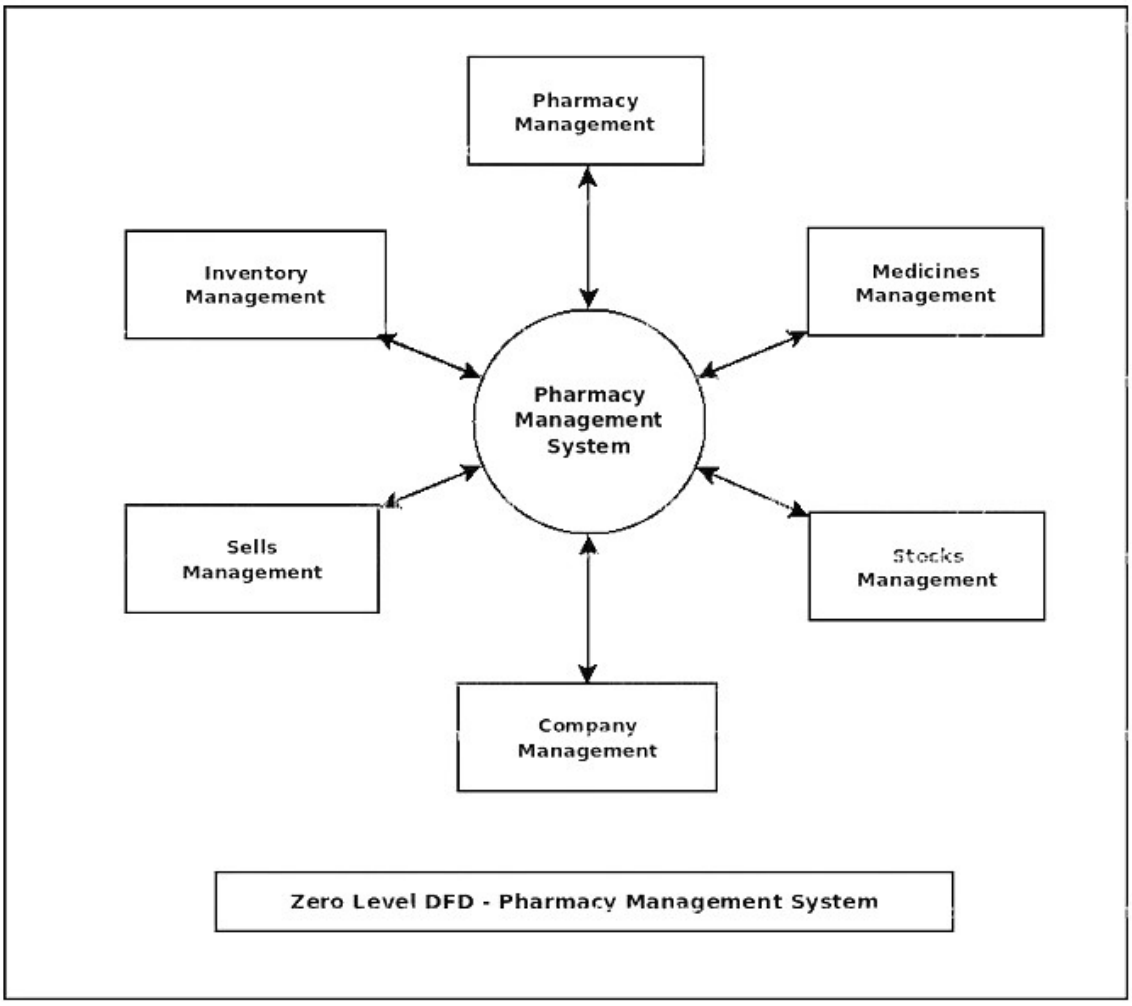
Class Diagram of Pharmacy Management System

COMPONENT DIAGRAM:

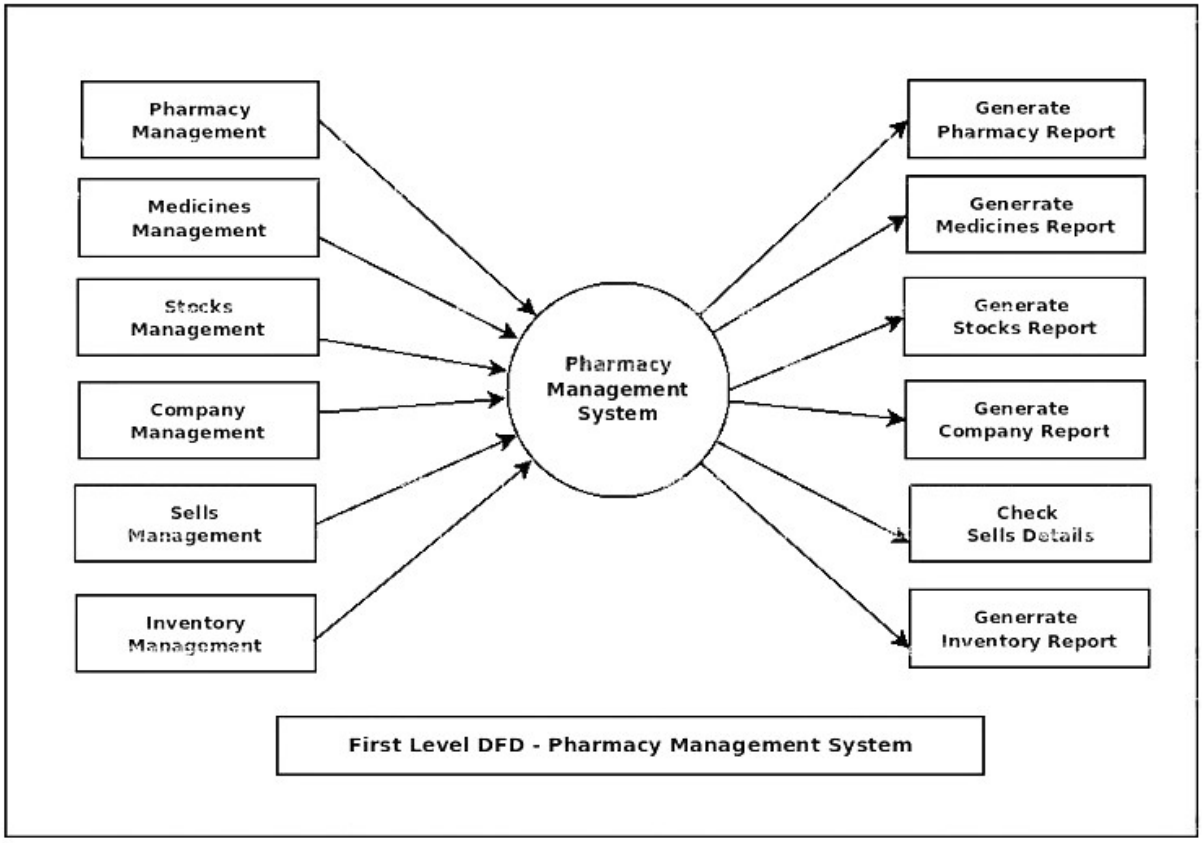


Component Diagram of Pharmacy Management System

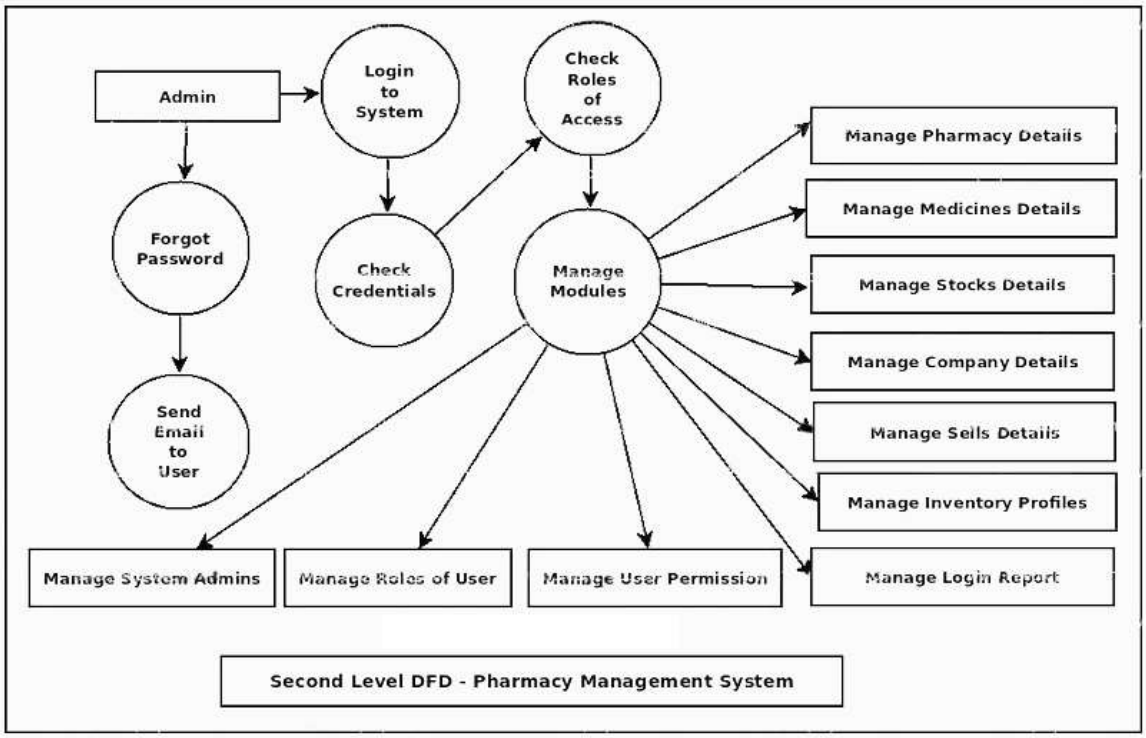
ZERO-LEVEL DATA FLOW DIAGRAM:



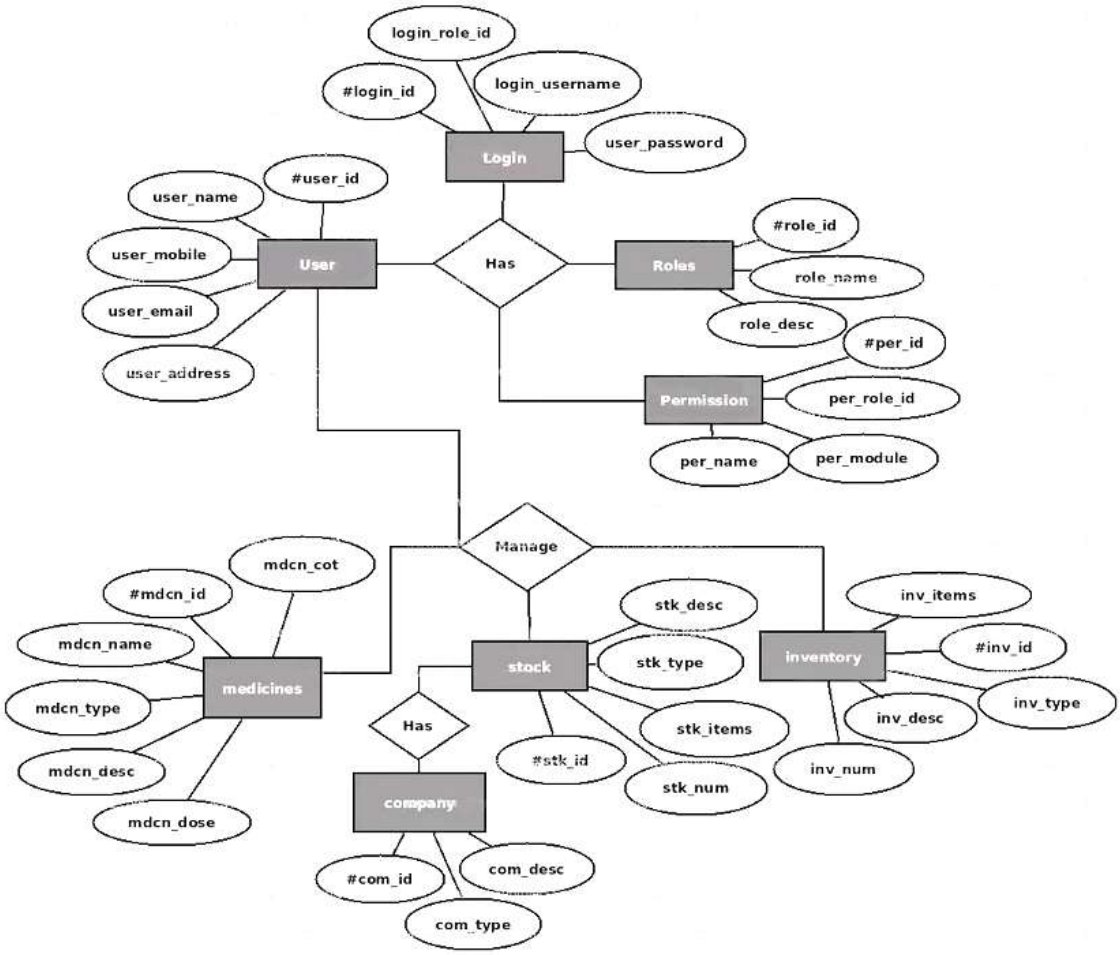
MAIN ENTITIES AND OUTPUT OF FIRST LEVEL:



SECOND LEVEL DATA FLOW DIAGRAM:

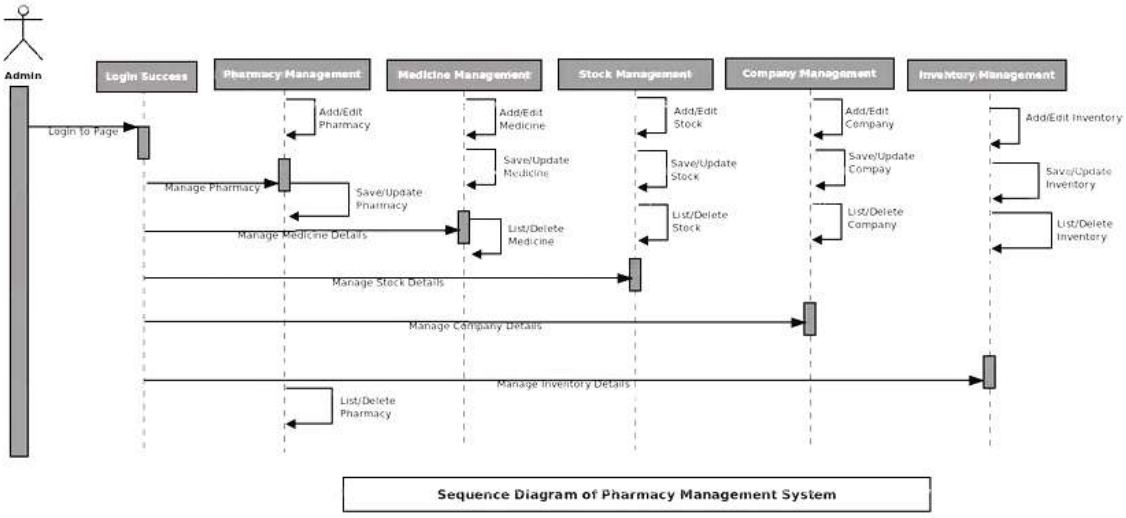


ER DIAGRAM:



ER Diagram For Pharmacy Management System

LOGIN SEQUENCE DIAGRAM:



Sequence Diagram of Pharmacy Management System

IMPORTANCE:

The Pharmacy Management System project developed using C++ programming language is significant for several reasons:

Improving Efficiency: The project has been designed to streamline the process of managing pharmacy operations. It offers features such as managing patient records, prescription records, inventory management, sales, and generating reports. With this system, pharmacies can manage their operations efficiently, which ultimately results in time-saving and cost-saving.

Enhancing Accuracy: The Pharmacy Management System ensures the accuracy of the data input and output, thus minimizing the chances of errors. It helps in maintaining the accuracy of the inventory, prescription, and patient records.

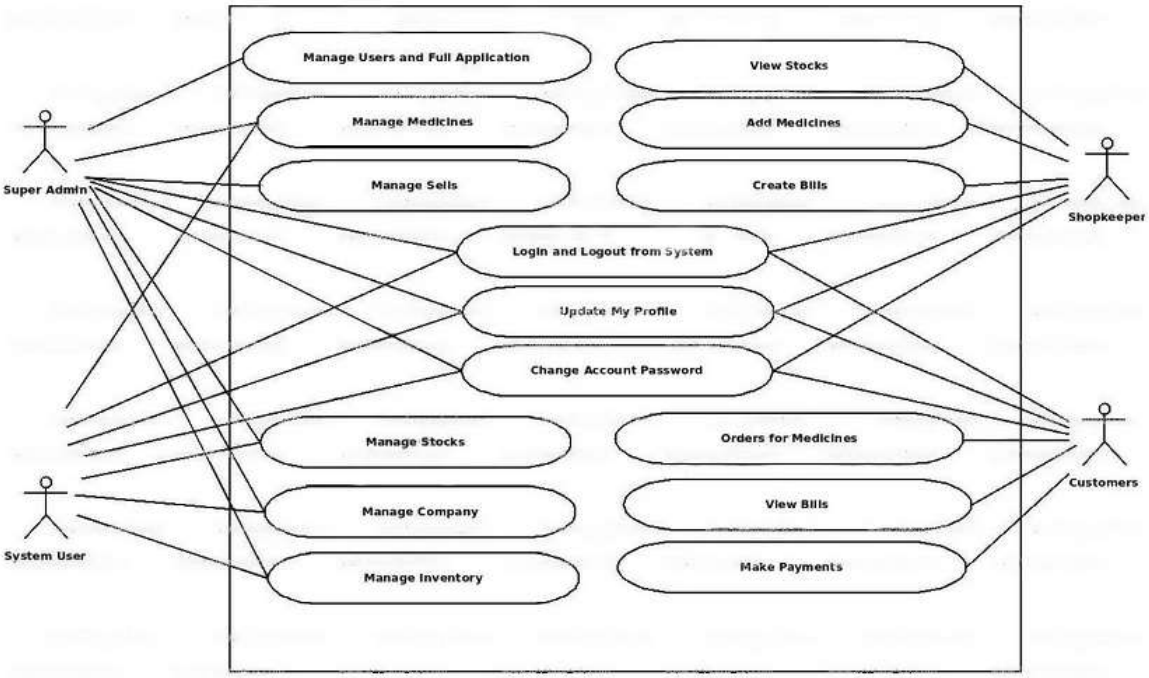
Security: The system is highly secure, and we have implemented various security features to ensure the protection of sensitive data. With this system, pharmacies can protect their data from unauthorized access.

Scalability: The project is scalable and can accommodate the growth of the pharmacy business. As the business grows, the system can be expanded to include more features and functionalities.

Learning Opportunity: Developing this project in C++ programming language provides a learning opportunity for the developers. C++ is a widely used programming language in the industry, and working on this project will help the developers improve their coding skills.

In conclusion, the Pharmacy Management System project developed using C++ programming language is significant as it offers various benefits, such as improving efficiency, enhancing accuracy, providing security, scalability, and providing a learning opportunity.

USE CASE DIAGRAM:



Usecase Diagram of Pharmacy Management System

IMPORTANCE AND USE CASE

A Pharmacy Management System is an important tool for the smooth operation of any pharmacy. It helps to manage the inventory of medicines, keep track of sales, and monitor the financial health of the business.

With the help of a Pharmacy Management System, the pharmacist can keep track of the stock levels of medicines and order new supplies when needed. This ensures that the pharmacy always has the necessary medicines in stock to meet the needs of their customers.

The system also helps to reduce errors in sales transactions by accurately calculating the total cost of the purchase and ensuring that the requested quantity of medicine is available in the inventory.

Another important benefit of a Pharmacy Management System is that it helps to keep track of the expiry dates of medicines. The system can alert the pharmacist when a medicine is about to expire, allowing them to take appropriate action and avoid wastage.

Pharmacy Management Systems are widely used in pharmacies of all sizes, from small independent pharmacies to large chain stores. They are also used in hospitals and other healthcare facilities to manage the pharmacy inventory.

CONCLUSION AND RESULT

We are pleased to present the final results of the Pharmacy Management System project. Our team has successfully completed the project using C++ programming language.

The Pharmacy Management System is a software application that streamlines the process of managing pharmacy operations. The system provides features such as managing patient records, prescription records, inventory management, sales, and generating reports. The project has been designed to be user-friendly, efficient, and scalable.

During the development process, we encountered several challenges, including software compatibility issues, testing, and integration. However, our team was able to overcome these challenges by collaborating and working diligently to ensure that the project was delivered on time.

We have thoroughly tested the application and are confident that it is functioning correctly. The system is highly secure, and we have implemented various security features to ensure the protection of sensitive data.

In conclusion, the Pharmacy Management System project has been a great success, and we are proud to have completed it. The application has the potential to revolutionize the way pharmacies manage their operations. We believe that this project will be a significant contribution to the healthcare industry.

We would like to express our gratitude to our team members for their hard work, dedication, and collaboration throughout the development process. We would also like to thank our project manager for providing us with the necessary guidance and support.

Thank you for considering our Pharmacy Management System project, and we look forward to future opportunities to collaborate with you.

REFERENCES

The following are some references for the project “THE PHARMACY MANAGEMENT SYSTEM” :

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