

VIRTUAL ORDERING SYSTEM

An online meal ordering system is software that enables restaurants to accept and manage orders sent through the internet. The first is a website or mobile app that allows hungry consumers to browse the menu and place an online order. A complete sales channel for the restaurant is provided through an online ordering and delivery system. This means that the restaurant can use it to increase profits and improve organizational efficiency. It also helps restaurant owners to save money on labour and the area needed to service for happy costumers. This Virtual Ordering System is built on the basic concept of ordering fast meal and calculating total food costs. The client can make a request by selecting from the menu.

PROBLEM STATEMENT:

The purpose of the Virtual Food Ordering System is to make the users comfortable from their home. The internet and technological advancements are having a great impact on restaurant operations. With most people spending a big part of their day on the internet, it provides a huge market potential for restaurants. In fact, the demand for online restaurant ordering continues to grows among restaurant consumers. Restaurant owners and managers consistently look for

solutions that allow customers to place orders online and have food delivered fast.

OBJECTIVE:

To develop a software for providing food order applications of a customer in an online environment in order to nurture the needs of an online foodstuff users to have additional functionalities that makes the customer to have a convenient environment for ordering food.

LIST OF MODULES:

Collection of personal information

Facilities done to make them order their food

Billing Scheme

EXPLANATION OF MODULES:

1)Collection of personal information

Personal information from the customers like name, location, address, phone number are collected in order to make the work of delivery easy and comfortable.

2)Facilities done to make them order their food

Various hotels, restaurants, bakeries, dessert showrooms in their locality will be displayed and the orderings are taken from the hotels which were available currently.

3) Billing scheme

Finally, the details of the particular customer with order details will be displayed.

CONCEPTS USED

HEIRARCHICAL INHERITANCE

Hierarchical inheritance - public mode

```
class A{  
  
};  
  
class B:public A{  
  
};  
  
class C:public A{};
```

CONSTRUCTORS AND DESTRUCTORS

Constructors are special member function which doesnot return anything and it is used to allocate the memory location and to initial the member variables

Destructors are special member function which is used to deallocate the memory and to delete the objects.

POLYMORPHISM-VIRTUAL FUNCTION

Virtual functions plays a key role in the implementation of run-time polymorphism. The base class overridden methods alone should be defined as virtual functions. the base class must be assigned with pointer object.

FILE HANDLING

In this project file handling is used to store the user's info and address and the bill amount

CODE :

```
#include<iostream>

#include<fstream>

using namespace std;

class customer{
    protected:
        string name,email,username,username1,p,p1;
        double mobileno;
        int choice,cr,cr1;
        char address[50];
    public:
        int getdata();
        int login();
        int getchoice();
        virtual int getdish(){
            return 0;
        }
};

class nonveg:public customer{
    protected:
```

```

        int
choice1,n1,c1[10],q1[10],total,p1[9]={150,114,185,185,170,150,13,40,50},p2[7
]={105,186,160,160,146,130,66};

        int p3[9]={120,160,180,150,16,50,13,40,60};

    public:

        nonveg();

        void gethotel();

        int getdish();

        ~nonveg(){}

};

class veg:public customer{

    protected:

        int
choice2,n2,c2[10],q2[10],total2,pr1[7]={150,100,200,75,190,100,160},pr2[9]={
99,170,150,70,80,60,80,40,150},pr3[9]={150,114,185,185,170,150,13,40,50};

    public:

        veg();

        void gethotel1();

        int getdish();

        ~veg(){}

};

class dessert:public customer{

    protected:

        int
choice3,n3,c3[10],q3[10],total3,pi1[9]={1560,1560,940,940,940,113,113,113,1
13},pi2[7]={60,70,80,65,50,30,30};

    public:

        dessert();

```

```

        void gethotel2();
        int getdish();
        ~dessert(){}
};

class Bill:public customer{
    private:
        int m,pay,p2,up;
    public:
        void display(int p);
        void mode();
        void disp(){
            cout<<"\n\n"<<name<<" ,you will receive your order soon at
"<<address<<" and for further details about delivery,";
            cout<<"we will contact you on "<<mobilen<<".";
            cout<<"\n\n\n\t\t\tThankyou  for  your  ordering  with
us!!!\n\n";
        }
};

int main(){
    customer *c1;
    veg v1;
    nonveg n1;
    dessert d1;
    Bill b1;
    int ch1;
    ofstream f1;
    f1.open("sidenilo.txt",ios::out|ios::app);

```

```

ch1=b1.getdata();
int nv,v,d;
switch(ch1){
    case 1:
        c1=&n1;
        n1.gethotel();
        nv=c1->getdish();
        b1.display(nv);
        f1<<"Bill :"<<nv<<"\n";
        f1.write((char*)&b1,sizeof(b1));
break;

    case 2:
        c1=&v1;
        v1.gethotel1();
        v=c1->getdish();
        b1.display(v);
        f1<<"Bill :"<<v<<"\n";
        f1.write((char*)&b1,sizeof(b1));
break;

    case 3:
        c1=&d1;
        d1.gethotel2();
        d=c1->getdish();
        b1.display(d);
        f1<<"Bill :"<<d<<"\n";
        f1.write((char*)&b1,sizeof(b1));

```

```

break;

    }

    b1.mode();

    b1.disp();

    f1<<"*****\n\n";

    f1.close();

    return 0;

}

int customer::login(){

    cout<<"\nEnter the username :";

        cin>>username1;

        cout<<"\nEnter the password :";

        cin>>p1;

        cr=getchoice();

        return cr;

}

int customer::getchoice(){

    if(p1==p&&username1==username){

        cout<<"\nEnter Your Choice :\n\t1.Non-
Veg\n\t2.Veg\n\t3.Dessert\n";

        cin>>choice;

        return choice;

    }

    else{

        if(username1!=username)

```



```

cout<<"\t\t=====\\n";

        cout<<"1.Giant meals - Rs.150\\n";
        cout<<"2.Veg sweet corn soup - Rs.114\\n";
        cout<<"3.Veg schezwan fried rice - Rs.185\\n";
        cout<<"4.Fried momos veg - Rs.185\\n";
        cout<<"5.Fried veg burger - Rs.170\\n";
        cout<<"6.Butter paneer - Rs.150\\n";
        cout<<"7.Idli - Rs.13\\n";
        cout<<"8.Dosa - Rs.40\\n";
        cout<<"9.Naan - Rs.50\\n";
        cout<<"\\n\\nEnter the number of foods you are going
to order :";

        cin>>n1;
        for(int i=0;i<n1;i++){
                cout<<"Enter the food menu number :";
                cin>>c1[i];
                cout<<"Enter the quantity of the food :";
                cin>>q1[i];
                }
                for(int i=0;i<n1;i++){
                        for(int j=1;j<=9;j++){
                                if(j==c1[i])

total=total+(q1[i]*p1[j-1]);

                        }
                }

```

```

        return total;
    }

    else if(choice1==2){

cout<<"\t\t=====\\n";

                                cout<<"\t\t\t\t\tMENU\\n";


cout<<"\t\t=====\\n";

                                cout<<"1.Paneer 65 - Rs.105\\n";
                                cout<<"2.chicken Seekh Kebab - Rs.186\\n";
                                cout<<"3.chicken Kebab - Rs.160\\n";
                                cout<<"4.Chicken Schezwan Fried rice - Rs.160\\n";
                                cout<<"5.Chicken Sandwich - Rs.146\\n";
                                cout<<"6.Butterscotch shake - Rs.130\\n";
                                cout<<"7.Sweet and salted lassi - Rs.66\\n";
                                cout<<"\\n\\nEnter the number of foods you are going
to order :";

cin>>n1;

for(int i=0;i<n1;i++){

            cout<<"Enter the food menu number :";

            cin>>c1[i];

            cout<<"Enter the quantity of the food :";

            cin>>q1[i];

            }

            for(int i=0;i<n1;i++){

                    for(int j=1;j<=7;j++){

                            if(j==c1[i])
```

```
total=total+(q1[i]*p2[j-1]);
        }
    }
    return total;
}
else{
cout<<"\t\t=====\\n";
                                cout<<"\t\t\t\t\tMENU\\n";
cout<<"\t\t=====\\n";
                                cout<<"1.Gobi 65 - Rs.120\\n";
                                cout<<"2.Boneless chicken - Rs.160\\n";
                                cout<<"3.Butter chicken - Rs.180\\n";
                                cout<<"4.Butter Paneer - Rs.150\\n";
                                cout<<"5.Parotta - Rs.16\\n";
                                cout<<"6.Naan - Rs.50\\n";
                                cout<<"7.Idli - Rs.13\\n";
                                cout<<"8.Dosa - Rs.40\\n";
                                cout<<"9.Grilled chicken(quarter) - Rs.60\\n";
                                cout<<"\\n\\nEnter the number of foods you are going
to order :";
cin>>n1;
for(int i=0;i<n1;i++){
                                cout<<"Enter the food menu number :";
                                cin>>c1[i];
```

```

        cout<<"Enter the quantity of the food :";
        cin>>q1[i];

    }

    for(int i=0;i<n1;i++){

        for(int j=1;j<=7;j++){

            if(j==c1[i])

                total=total+(q1[i]*p3[j-1]);

        }

    }

    return total;

}

}

int customer::getdata(){

    ofstream f1;

    f1.open("sidenilo.txt",ios::out|ios::app);

    cout<<"\n\t\t\t=====
=====\\n";

    cout<<"\n\t\t\tSIDENILO ORDERING SYSTEM
\n";

    cout<<"\n\t\t\t=====
=====\\n";

    cout<<endl<<endl;

    cout<<"\t\t\tFood is the symbolic of love when words are
inadequate\\n\\n";

```

```

        cout<<"\t\t\t\t\tSignup and Login\n";
        cout<<"\nEnter Name :";
        cin>>name;
        f1<<"Name :"<<name<<"\n";
        cout<<"\nEnter username :";
        cin>>username;
        f1<<"Username :"<<username<<"\n";
        cout<<"\nEnter email :";
        cin>>email;
        f1<<"Email :"<<email<<"\n";
        cout<<"\nEnter password :";
        cin>>p;
        f1<<"password :"<<p<<"\n";
        cout<<"\nEnter Mobile Number :";
        cin>>mobilenos;
        f1<<"Mobilenumber :"<<mobilenos<<"\n";
        cout<<"\nEnter address :";
        cin>>address;
        f1<<"Address :"<<address<<"\n";
        cout<<"\n\nThankyou for signing up.....";
        cr1=login();
        return cr1;
        f1.close();
    }
    veg::veg(){
        total2=0;

```

```
}  
  
void veg::gethotel1(){  
    cout<<"\nWelcome to the veg restaurants\n";  
        cout<<"\n\n\t\t1)Sangeethas\n\t\t2)Anandha  
Bhavan\n\t\t3)Veg Paradise\n";  
        cout<<"\n\nPlease choose the hotel.....";  
        cin>>choice2;  
  
}  
  
int veg::getdish(){  
    if(choice2==1){  
  
        cout<<"\t\t===== \n";  
                                cout<<"\t\t\t\tMENU\n";  
  
        cout<<"\t\t===== \n";  
                                cout<<"1.meals - Rs.150\n";  
                                cout<<"2.variety rice - Rs.100\n";  
                                cout<<"3.fried rice - Rs.200\n";  
                                cout<<"4.Butter naan - Rs.75\n";  
                                cout<<"5.Panneer butter masala - Rs.190\n";  
                                cout<<"6.Gobi 65 - Rs.100\n";  
                                cout<<"7.Gobi manjurian - Rs.160\n";  
                                cout<<"\n\nEnter the number of foods you are going  
to order :";  
  
                                cin>>n2;  
                                for(int i=0;i<n2;i++){  
                                    cout<<"Enter the food menu number :";
```

```
cin>>c2[i];

cout<<"Enter the quantity of the food :";

cin>>q2[i];

    }

    for(int i=0;i<n2;i++){

        for(int j=1;j<=7;j++){

            if(j==c2[i])

total2=total2+(q2[i]*pr1[j-1]);

        }

    }

    return total2;

}

else if(choice2==2){

cout<<"\t\t=====\\n";

                                cout<<"\t\t\t\t\tMENU\\n";

cout<<"\t\t=====\\n";

        cout<<"1.Paneer Shawarma - Rs.99\\n";

            cout<<"2.Paneer Shawarma pizza - Rs.170\\n";

            cout<<"3.Corn Shawarma pizza - Rs.150\\n";

            cout<<"4.Lemon and mint mojito - Rs.70\\n";

            cout<<"5.Blue curaco mojito - Rs.80\\n";

            cout<<"6.Fruit salad with icecream - Rs.60\\n";

            cout<<"7.Brownie with ice cream - Rs.80\\n";

            cout<<"8.Lime juice - Rs.40\\n";
```



```
cout<<"9.Kitkat milkshake - Rs.150\n";

cout<<"\n\nEnter the number of foods you are going
to order :";

cin>>n2;

for(int i=0;i<n2;i++){

    cout<<"Enter the food menu number :";

    cin>>c2[i];

    cout<<"Enter the quantity of the food :";

    cin>>q2[i];

    }

    for(int i=0;i<n2;i++){

        for(int j=1;j<=9;j++){

            if(j==c2[i])

total2=total2+(q2[i]*pr2[j-1]);

        }

    }

return total2;

}

else{

cout<<"\t\t===== \n";

                                cout<<"\t\t\t\t\tMENU\n";

cout<<"\t\t===== \n";

        cout<<"1.Giant meals - Rs.150\n";

        cout<<"2.Veg sweet corn soup - Rs.114\n";
```

```

        cout<<"3.Veg schezwan fried rice - Rs.185\n";
        cout<<"4.Fried momos veg - Rs.185\n";
        cout<<"5.Fried veg burger - Rs.170\n";
        cout<<"6.Butter paneer - Rs.150\n";
        cout<<"7.Idli - Rs.13\n";
        cout<<"8.Dosa - Rs.40\n";
        cout<<"9.Naan - Rs.50\n";
        cout<<"\n\nEnter the number of foods you are going
to order :";

        cin>>n2;
        for(int i=0;i<n2;i++){
            cout<<"Enter the food menu number :";
            cin>>c2[i];
            cout<<"Enter the quantity of the food :";
            cin>>q2[i];
        }
        for(int i=0;i<n2;i++){
            for(int j=1;j<=9;j++){
                if(j==c2[i])

                total2=total2+(q2[i]*pr3[j-1]);
            }
        }
        return total2;
    }
}

dessert::dessert(){

```

```
total3=0;
}

void dessert::gethotel2(){
    cout<<"\nWelcome to the non-veg restaurants\n";
    cout<<"\n\n\t\t1)Ibaco\n\t\t2)Famous
Jigarthanda\n\t\t3)Hott Spott\n";
    cout<<"\n\nPlease choose the hotel.....";
    cin>>choice3;
}

int dessert::getdish(){
    if(choice3==1){
        cout<<"\t\t===== \n";
        cout<<"\t\t\t\t\tMENU\n";
        cout<<"\t\t===== \n";
        cout<<"1.Black forest icecream cake - Rs.1560\n";
        cout<<"2.Blackcurrent Rich Cream Icecream Cake -
Rs.1560\n";
        cout<<"3.Chocolate Overload icecream cake - Rs.940\n";
        cout<<"4.Swiss choco Symphony icecream cake - Rs.940\n";
        cout<<"5.Caramel walnut icecream cake - Rs.940\n";
        cout<<"6.Bean vanilla icecream - Rs.113\n";
        cout<<"7.Belgian Chocoholic icecream - Rs.113\n";
        cout<<"8.Butterscotch Bliss icecream - Rs.113\n";
        cout<<"9.Cotton candy icecream - Rs.113\n";
        cout<<"\n\nEnter the number of foods you are going to order :";
        cin>>n3;

        for(int i=0;i<n3;i++){
```

[illegible]

```
cout<<"\n\nEnter the number of foods you are going  
to order :";
```

```
cin>>n3;
```

```
for(int i=0;i<n3;i++){
```

```
cout<<"Enter the food menu number :";
```

```
cin>>c3[i];
```

```
cout<<"Enter the quantity of the food :";
```

```
cin>>q3[i];
```

}

```
for(int i=0;i<n3;i++){
```

```
for(int j=1;j<=9;j++){
```

```
if(j==c3[i])
```

```
total3=total3+(q3[i]*pi2[j-1]);
```

}

}

```
return total3;
```

}

else

```
cout<<"Service to this hotel is currently unavailable....\n";
```

}

```
void Bill::display(int p){
```

cout

<<

"\n\t\t

```
===== "<<endl;
```

```
cout << "\t\t|
```

Sidenilo Ordering

```
System | "<<endl;
```

cout

<<

"\t\t

```
===== "<<endl;
```

```

        cout << endl;

        cout << endl;

        cout << "\t\t\t Bill No : CP51          Order
: NB1353"<<endl;

        cout << endl;

        cout << endl;

        cout << "\t\t\t Cashier : Harry"<<endl;

        cout << endl;

        cout<<"\t\t\t\t YOUR TOTAL BILL IS Rs."<<p<<endl;

        cout<<"\t\t\t\t\t";

        cout << "\n\t\t\t\t\t"
===== "<<endl;
}

void Bill::mode(){

    cout<<"\n\n\t\tEnter the choice you are going to pay the payment \n";

    cout<<"\n\n\t\t1.Cash on delivery\n\n\t\t2.UPI\n\n";

    cin>>m;

    if(m==1)

        cout<<"\n\t\tThankyou for choosing cash on delivery you will receive
your bill and order soon\n\n";

    else{

        cout<<"Enter UPI ID :";

        cin>>up;

        cout<<"Enter password :";

        cin>>p2;

        cout<<"Enter the payment :";

```

```

        cin>>pay;

        cout<<"Payment paid successfully\n\n";

    }

}

```

OUTPUT:

```

=====
                SIDENILO ORDERING SYSTEM
=====

'Food is the symbolic of love when words are inadequate'

                Signup and Login

Enter Name :Raje
Enter username :raje24
Enter email :raje243@gmail.com
Enter password :hr2428
Enter Mobile Number :9629363236
Enter address :1H/1514ANikilasannagar

Thankyou for signing up.....
Enter the username :raje24
Enter the password :hr233

Enter address :1H/1514ANikilasannagar

Thankyou for signing up.....
Enter the username :raje24
Enter the password :hr233

        Your Password is incorrect,Please enter the correct password

Enter the username :raje24
Enter the password :hr2428

Enter Your Choice :
    1.Non-Veg
    2.Veg
    3.Dessert
1
Welcome to the non-veg restaurants

    1.Mug and Beans
    2.Blind Chemistry
    3.Chopstix

```

```

    2.Veg
    3.Dessert
1
Welcome to the non-veg restaurants

    1.Mug and Beans
    2.Blind Chemistry
    3.Chopstix

Please choose the hotel.....2
=====
                        MENU
=====
1.Paneer 65 - Rs.105
2.chicken Seekh Kebab - Rs.186
3.chicken Kebab - Rs.160
4.Chicken Schezwan Fried rice - Rs.160
5.Chicken Sandwich - Rs.146
6.Butterscotch shake - Rs.130
7.Sweet and salted lassi - Rs.66

Enter the number of foods you are going to order :2
Enter the food menu number :2
Enter the quantity of the food :4
Enter the food menu number :6
Enter the quantity of the food :3

```

```

Enter the quantity of the food :4
Enter the food menu number :6
Enter the quantity of the food :3

=====
|              Sidenilo Ordering System              |
=====

    Bill No : CP51          Order : NB1353

    Cashier : Harry

    YOUR TOTAL BILL IS Rs.1134

=====

    Enter the choice you are going to pay the payment

    1.Cash on delivery
    2.UPI

2
Enter UPI ID :2543
Enter password :24356
Enter the payment :1134

```



```
YOUR TOTAL BILL IS Rs.1134
=====

Enter the choice you are going to pay the payment


1.Cash on delivery
2.UPI
2
Enter UPI ID :2543
Enter password :24356
Enter the payment :1134
Payment paid successfully

Raje,you will receive your order soon at 1H/1514Anikilasannagar and for further details about delivery,we will contact
ou on 9.62936e+09.

Thankyou for your ordering with us!!!

-----
Process exited after 201.8 seconds with return value 0
Press any key to continue . . .
```

FILE OUTPUT :



```
sidenilo - Notepad
File Edit Format View Help

Name :Raje
Username :raje24
Email :raje24@gmail.com
password :raje243
Mobilenumber :9.62936e+09
Address :1H/14Anikilasannagar
Bill :456
ðmL ~+y  Raje  @  mail.co  +y  raje24  +y  raje24  ð  +y  raje243  80y  raje

Name :Sibiya
Username :sibi243
Email :sibi@gmail.com
password :Rajis
Mobilenumber :9.62936e+09
Address :1H/1514Anikilasannagar
Bill :1850
ðmL ~+y  Sibiya  ,+y  sibi@gmail.com  +y  sibi243  +y  sibi243  ð  +y  Rajis  80y  Ra

Name :Raje
Username :raje24
Email :raje243@gmail.com
password :hr2428
Mobilenumber :9.62936e+09
Address :1H/1514Anikilasannagar
```

DESCRIPTION OF OUTCOMES:

Virtual ordering system is based on the concept of getting user's information and to order the food they want. There is a login system for this project.

CONCLUSION:

Thus the virtual ordering system is used for the people to order the food whatever they want and whenever they want. This system is user-friendly .