

Object Oriented Programming

ONLINE FOOD DELIVERY PORTAL

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Introduction













Topic: Online Food Delivery Portal

Language: Java

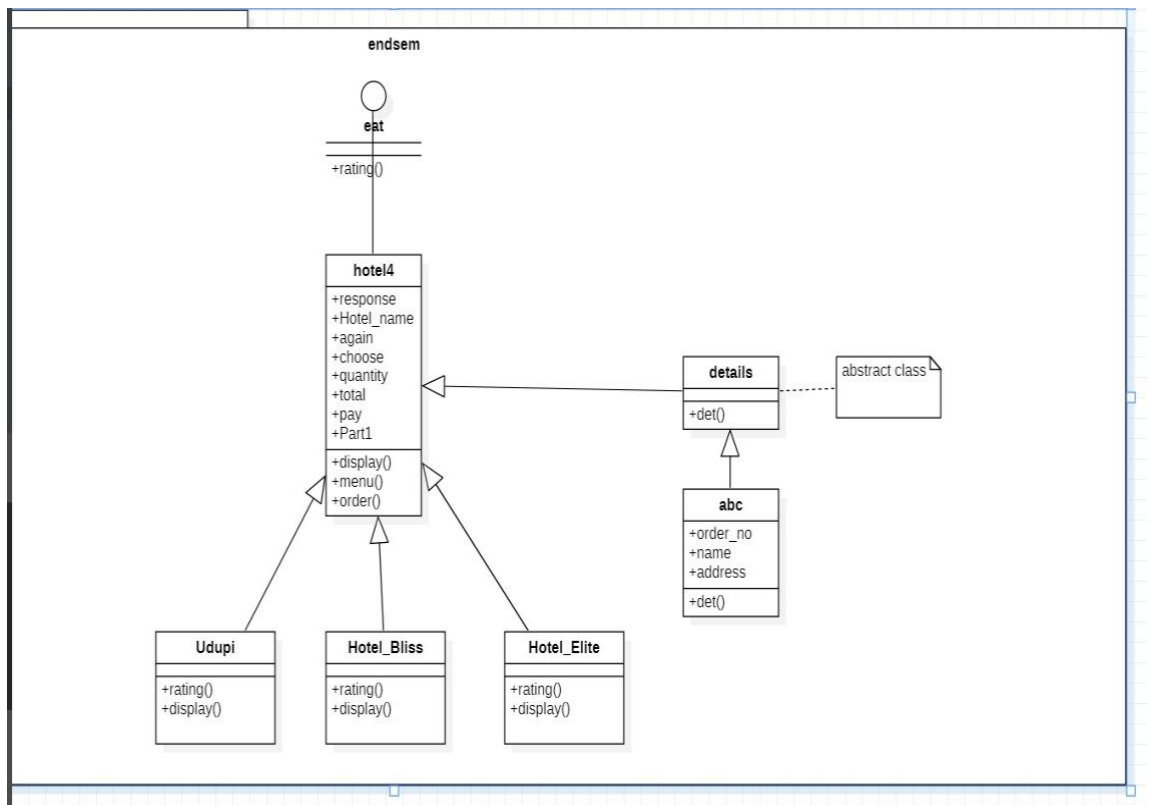
This project is an online food delivery portal where the customers can choose a restaurant of their choice and place the order. This portal is named as “SVS Food Deliveries”. This

system will allow hotels and restaurants to easily deliver the food to the customers at their doorstep.

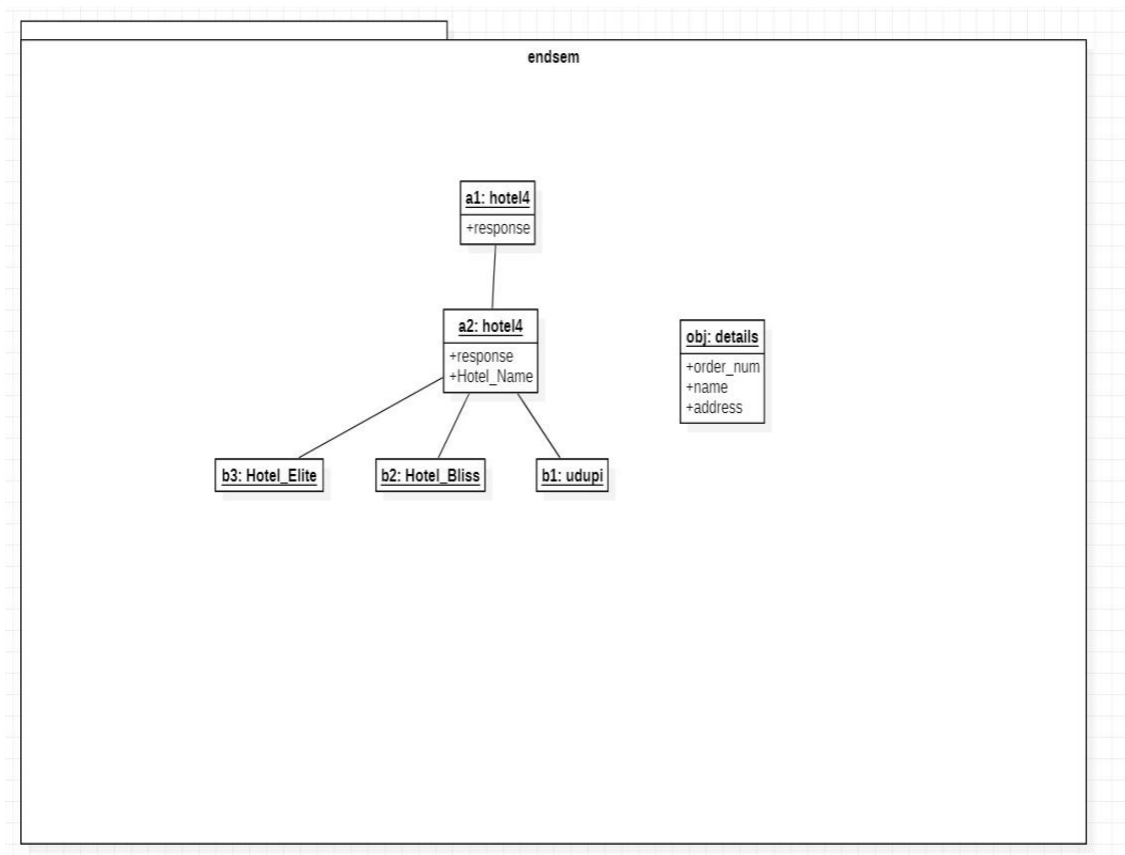
We have used:

-  **Packages**
 -  **Inheritance**
 -  **Class**
 -  **Interface**
 -  **Abstract class**
 -  **Method**
 -  **Constructors**
 -  **Constructor overloading**
 -  **Scanner class**
 -  **Object**
 -  **Dynamic Method Dispatch**
 -  **Method overriding**
- Conditional Loops**

UML Class Diagram



UML Object Diagram



SOURCE CODE

```

package endsem; //PACKAGE
import java.util.*; interface
eat{ //INTERFACE void
rating();
}
public class hotel4 implements eat { //CLASS
String response; static int Hotel_name;
public void display(){ //METHOD System.out.println("The
Restaurants are:");
System.out.println("1.Udupi Palace Hotel");
System.out.println("2.Hotel Bliss"); System.out.println("3.Hotel
Elite");
}
public static class Udupi extends hotel4 implements eat {
//HIERARCHIAL INHERITANCE
public void rating() {
System.out.println("Ratings:4");
}
public void display() {
System.out.println("Welcome to Udupi Palace Hotel");
}}
public static class Hotel_Bliss extends hotel4 implements eat{ public
void rating() {
System.out.println("Ratings:4.5");
}
public void display() {
System.out.println("Welcome to Hotel Bliss");
}
}
public static class Hotel_Elite extends hotel4 implements eat{ public
void rating() {
System.out.println("Ratings:3.5");
}
public void display() {
System.out.println("Welcome to Hotel Elite");
}
}

```

```

}
hotel4(String a,int b){    //CONSTRUCTOR
response=a;
Hotel_name=b;
}public hotel4(String name) {    //CONSTRUCTOR OVERLOADING
response=name; }public hotel4() {}
public static Scanner input = new Scanner(System.in);    //SCANNER
CLASS
public static String again; public
static int choose,quantity=1; public
static double total=0,pay; private
static Object b2; public static void
menu(){
System.out.println("\t\t\t\t+=====+
");
System.out.println("\t\t\t\t\t MENU ");
System.out.println("\t\t\t\t\t STARTERS");
System.out.println("\t\t\t\t\t 1. CHILLI PANEER        Rs. 95.00");
System.out.println("\t\t\t\t\t 2. FRENCH FRIES        Rs. 40.00");
System.out.println("\t\t\t\t\t 3. CHEESE NUGGETS        Rs. 35.00");
System.out.println("\t\t\t\t\t MAIN COURSE");
System.out.println("\t\t\t\t\t 4. BIRYANI        Rs. 140.00");
System.out.println("\t\t\t\t\t 5. FRIED RICE        Rs. 120.00");
System.out.println("\t\t\t\t\t 6. BUTTER NAAN        Rs. 35.00");
System.out.println("\t\t\t\t\t BEVERAGES");
System.out.println("\t\t\t\t\t 7. COFFEE        Rs. 15.00");
System.out.println("\t\t\t\t\t 8. TEA        Rs. 20.00");
System.out.println("\t\t\t\t\t 9. BOOST        Rs. 25.00");
System.out.println("\t\t\t\t\t DESSERTS");
System.out.println("\t\t\t\t\t 10. CHOCO LAVA CAKE    Rs. 95.00");
System.out.println("\t\t\t\t\t 11. PUDDING        Rs. 40.00");
System.out.println("\t\t\t\t\t 12. ICE-CREAM        Rs. 35.00");
System.out.println("\t\t\t\t\t 13. CANCEL ");
System.out.println("\t\t\t\t\t+=====+
"); }
public static void order(){

```

```

System.out.println("Press numbers from 1 to 13 to place your order");
System.out.print("Press you want to buy? :"); choose =
input.nextInt(); //CONDITIONAL LOOPS if(choose==1){
System.out.println("You chose Chilli Panner");
System.out.print("Quantity :"); quantity =input.nextInt(); total = total
+(quantity*95);System.out.println("You want to buy again?
");
System.out.println("Press Y for Yes and N for N : ");
again = input.next();
if(again.equalsIgnoreCase("Y")){ order();//call the
method you to create
}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){
System.out.println("Not enough payment");
}else{
System.out.println("Total price is " + total); total
= pay-total;
System.out.println("The change is " + total);
}
}
}else if(choose==2){
System.out.println("You chose FRENCH FRIES");
System.out.print("Quantity:"); quantity =input.nextInt(); total = total
+(quantity*40);System.out.println("You want to buy again?
");
System.out.println("Press Y for Yes and N for N : ");
again = input.next();
if(again.equalsIgnoreCase("Y")){ order();//call the
method you to create
}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){
System.out.println("Not enough payment");
}
}
}
}

```



```

}else{
System.out.println("Total price is " + total); total
= pay-total;
System.out.println("The change is " + total);
}
}
}else if(choose==3){
System.out.println("You chose CHEESE NUGGETS");
System.out.print("Quantity :"); quantity =input.nextInt(); total = total
+(quantity*35);System.out.println("You want to buy again?
");
System.out.println("Press Y for Yes and N for N : ");
again = input.next();
if(again.equalsIgnoreCase("Y")){ order();//call the
method you to create
}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){
System.out.println("Not enough payment! Sorry,Order not placed.");
}else{
System.out.println("Total price is " + total); total
= pay-total;
System.out.println("The change is " + total);
}
}
}
else if(choose==4){
System.out.println("You chose BIRYANI"); System.out.print("Quantity:");
quantity =input.nextInt(); total = total
+(quantity*140);System.out.println("You want to buy again?
");
System.out.println("Press Y for Yes and N for N : ");
again = input.next();
if(again.equalsIgnoreCase("Y")){ order();//call the
method you to create

```

```

}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){
System.out.println("Not enough payment");
}else{
System.out.println("Total price is " + total); total
= pay-total;
System.out.println("The change is " + total);
}
}
}
else if(choose==5){
System.out.println("You chose FRIED RICE");
System.out.print("Quantity:"); quantity =input.nextInt(); total = total
+(quantity*120);System.out.println("You want to buy again?
");
System.out.println("Press Y for Yes and N for N : ");
again = input.next(); if(again.equalsIgnoreCase("Y")){
order(); //call the method you to create
}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){
System.out.println("Not enough payment");
}else{
System.out.println("Total price is " + total); total
= pay-total;
System.out.println("The change is " + total);
}
}
}
else if(choose==6){
System.out.println("You chose BUTTER NAAN");
System.out.print("Quantity:"); quantity =input.nextInt(); total = total
+(quantity*35);System.out.println("You want to buy again?
");
}
}
}

```

```

");
System.out.println("Press Y for Yes and N for N : ");
again = input.next();
if(again.equalsIgnoreCase("Y")){ order();//call the
method you to create
}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){
System.out.println("Not enough payment");
}else{
System.out.println("Total price is " + total); total
= pay-total;
System.out.println("The change is " + total);
}
}
}
else if(choose==7){
System.out.println("You chose COFFEE");
System.out.print("Quantity:"); quantity =input.nextInt(); total = total
+(quantity*15);System.out.println("You want to buy again?
");
System.out.println("Press Y for Yes and N for N : ");
again = input.next();
if(again.equalsIgnoreCase("Y")){ order();//call the
method you to create
}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){
System.out.println("Not enough payment");
}else{
System.out.println("Total price is " + total); total
= pay-total;
System.out.println("The change is " + total);
}
}
}

```

```

}
}
else if(choose==8){
System.out.println("You chose TEA"); System.out.print("Quantity:");
quantity =input.nextInt(); total = total
+(quantity*20);System.out.println("You want to buy again?
");
System.out.println("Press Y for Yes and N for N : ");
again = input.next();
if(again.equalsIgnoreCase("Y")){ order();//call the
method you to create
}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){
System.out.println("Not enough payment");
}else{
System.out.println("Total price is " + total);
total = pay-total;
System.out.println("The change is " + total);
}
}
}
else if(choose==9){
System.out.println("You chose BOOST"); System.out.print("Quantity:");
quantity =input.nextInt(); total = total
+(quantity*25);System.out.println("You want to buy again?
");
System.out.println("Press Y for Yes and N for N : ");
again = input.next();
if(again.equalsIgnoreCase("Y")){ order();//call the
method you to create
}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){

```

```

System.out.println("Not enough payment");
}else{
System.out.println("Total price is " + total); total
= pay-total;
System.out.println("The change is " + total);
}
}
}
else if(choose==10){
System.out.println("You chose CHOCO LAVA CAKE");
System.out.print("Quantity:"); quantity =input.nextInt(); total = total
+(quantity*95);System.out.println("You want to buy again?
");
System.out.println("Press Y for Yes and N for N : ");
again = input.next();
if(again.equalsIgnoreCase("Y")){ order();//call the
method you to create
}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){
System.out.println("Not enough payment");
}else{
System.out.println("Total price is " + total); total
= pay-total;
System.out.println("The change is " + total);
}
}
}
else if(choose==11){
System.out.println("You chose PUDDING");
System.out.print("Quantity:"); quantity =input.nextInt(); total = total
+(quantity*40);System.out.println("You want to buy again?
");
System.out.println("Press Y for Yes and N for N : ");
again = input.next();

```

```

if(again.equalsIgnoreCase("Y")){ order();//call the
method you to create
}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){
System.out.println("Not enough payment");
}else{
System.out.println("Total price is " + total); total
= pay-total;
System.out.println("The change is " + total);
}
}
}
else if(choose==12){
System.out.println("You chose ICE-CREAM");
System.out.print("Quantity:");
quantity =input.nextInt(); total = total
+(quantity*35);System.out.println("You want to buy again?
");
System.out.println("Press Y for Yes and N for N : ");
again = input.next();
if(again.equalsIgnoreCase("Y")){ order();//call the
method you to create
}else{
System.out.println("Enter a payment "); pay
= input.nextDouble();
if(pay <=total){
System.out.println("Not enough payment");
}else{
System.out.println("Total price is " + total); total
= pay-total;
System.out.println("The change is " + total);
}
}
}
}

```

```

else if(choose==13){
System.exit(0);//close program
}else{
System.out.println("Choose 1 to 13 only!"); order();
}
}

public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.println("\t\t\tSVS FOOD DELIVERY");
System.out.println("for viewing the restaurants"); String
response = scanner.nextLine();
hotel4 a1= new hotel4(response);    //OBJECT CREATION a1.display();
System.out.println("Choose restaurant Number from the above!");
Scanner scan = new Scanner(System.in);
int no = scan.nextInt(); System.out.println(no);
hotel4 a2= new hotel4(response,no);
//CONSTRUCTOR OVERLOADING hotel4 b1=
new Udupi();    //DYNAMIC METHOD
DISPATCH if (Hotel_name == 1) {
b1.rating();
b1.display();    //METHOD OVERRIDING
}
hotel4 b2= new Hotel_Bliss(); if
(Hotel_name == 2) {
b2.rating();
b2.display();
}
hotel4 b3= new Hotel_Elite(); if
(Hotel_name == 3) {
b3.rating();
b3.display();
}
abstract class details{    //ABSTRACTION
abstract void det();
}

```

```
        class abc extends details{
int order_no=123456;
        String name="RIYA BAMAN";
        String address="deja vu apt.,kasavanahalli, bangalore 560035. ";
void det(){System.out.println("name:"+name+"\norder
number:"+order_no);
        System.out.println("address: "+address);

        }}
menu(); order();
details obj = new abc(); obj.det();
}}
```


OUTPUT

```
Console X
<terminated> hotel4.Hotel_Bliss [Java Application] C:\Users\Varshini\p2\pool\plugins
SVS FOOD DELIVERY
for viewing the restaurants

The Restaurants are:
1.Udupi Palace Hotel
2.Hotel Bliss
3.Hotel Elite
Choose restaurant Number from the above!
2
Ratings:4.5
Welcome to Hotel Bliss

+=====+
                        MENU
STARTERS
1. CHILLI PANEER      Rs. 95.00
2. FRENCH FRIES      Rs. 40.00
3. CHEESE NUGGETS    Rs. 35.00
MAIN COURSE
4. BIRYANI           Rs. 140.00
5. FRIED RICE        Rs. 120.00
6. BUTTER NAAN       Rs. 35.00
BEVERAGES
7. COFFEE            Rs. 15.00
8. TEA               Rs. 20.00
9. BOOST             Rs. 25.00
DESSERTS
10. CHOCO LAVA CAKE  Rs. 95.00
11. PUDDING          Rs. 40.00
12. ICE-CREAM        Rs. 35.00
13. CANCEL
+=====+

Press numbers from 1 to 13 to place your order
Press you want to buy? :12
You chose ICE-CREAM
Quantity:2
You want to buy again?
Press Y for Yes and N for N :
N
Enter a payment
100
Total price is 70.0
The change is 30.0
name:RIYA BAMAN
order number:123456
address: deja vu apt.,kasavanahalli, bangalore 560035.
```

CONCLUSION

Future Scope

- ✚ We can append more payment methods like Credit Card payment, Debit Card payment and payment through coupons.
- ✚ We can implement more hotels and varieties of food in the menu.
- ✚ We can implement the same code in form of a mobile APP.

The above-mentioned points are the enhancements which can be done to increase the applicability and usage of this project.

REFERENCES

✚ <https://www.geeksforgeeks.org> › java ✚

<https://www.w3schools.com> › java