

GMR Institute of Technology
An Autonomous Institute Affiliated to JNTU-GV



RESTAURANT BILLING MANAGEMENT SYSTEM

*A project report submitted in partial fulfilment of the
requirement for the award of degree of*

BACHELOR OF TECHNOLOGY
in
COMPUTER SCIENCE AND ENGINEERING

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(Accredited by NBA, NAAC with 'A' Grade & ISO 9001:2008 Certified Institution)

AIM: To implement a java program for Restaurant Billing Management System.

DESCRIPTION: The restaurant management system is a java project developed for taking and managing the restaurant orders. It assists the waiters to take the order of food digitally and more easily than before. This whole project is developed in Java programming language.

The **JCheckBox** class is used to create a checkbox. It is used to turn an option on (true) or off (false). Clicking on a CheckBox changes its state from "on" to "off" or from "off" to "on ".It inherits JToggleButton class.

❖ **public class JCheckBox** extends JToggleButton implements Accessible.

It is used to create a Checkbox in the Container. It can get a value either true or false by checking and unchecking the checkbox.

- checked – returns true
- unchecked – returns false

❖ **setBounds** is used to set the bounds of the words,titles.

❖ **JLabel** is used to set the label for any components, things etc.....

Label It is used to show text in the Container. It will displays text in the form of READ-ONLY, which cannot be changed by the user directly. We need to create an instance of Label Class to create a Label. The Declaration of Label Class will be public class Button extends Component implements Accessible .

It has 3 constructors:

1. Label() Creates an Empty Label.
2. Label(String labelname) : Creates a Label with labelname as parameter value.
3. Label(String labelname, int align) : Creates a Label with labelname as parameter value and proper alignments

❖ **setFont** is used to set the font for the given data.

❖ **Button** A button is a labeled component when clicked performs an event. It is created by the Button class. When clicked it performs some action by sending an instance of ActionEvent by AWT. ActionEvent calls processEvent on the button and it receives all the events and performs action by calling the processActionEvent method of its own. To do such things it needs to implement ActionListener.

PROGRAM:

```
import javax.swing.*;

import java.awt.event.*;

import java.awt.Font;

public class Cost extends JFrame implements ActionListener

{

    JLabel l,l1,l2,l3,l4;

    JCheckBox cb1,cb2,cb3,cb4,cb5,cb6,cb7,cb8,cb9,cb10;

    JCheckBox cb11,cb12,cb13,cb14,cb15,cb16,cb17,cb18,cb19,cb20;

    JCheckBox cb21,cb22,cb23,cb24,cb25,cb26,cb27,cb28,cb29,cb30;

    JCheckBox cb31,cb32,cb33,cb34,cb35,cb36,cb37,cb38,cb39,cb40;

    JButton b;

    Cost()

    {

        l=new JLabel("Menu is:");

        l.setBounds(850,30,300,50);

        l.setFont(new Font("Serif",Font.PLAIN,50));

        l1=new JLabel("NON VEG FOOD:");

        l1.setBounds(250,150,300,30);

        l1.setFont(new Font("Serif",Font.PLAIN,30));

        l2=new JLabel("VEG FOOD :");

        l2.setBounds(650,150,300,30);
```

```
l2.setFont(new Font("Serif",Font.PLAIN,30));

l3=new JLabel("TIFFINS :");

l3.setBounds(1050,150,300,30);

l3.setFont(new Font("Serif",Font.PLAIN,30));

l4=new JLabel("SNACK :");

l4.setBounds(1450,150,300,30);

l4.setFont(new Font("Serif",Font.PLAIN,30));

cb1=new JCheckBox("Mutton @ 200");

cb1.setBounds(250,200,150,20);

cb1.setFont(new Font("Serif",Font.PLAIN,20));

cb2=new JCheckBox("Egg fried rice @ 130");

cb2.setBounds(250,250,200,30);

cb2.setFont(new Font("Serif",Font.PLAIN,20));

cb3=new JCheckBox("Egg curry @ 90");

cb3.setBounds(250,300,150,30);

cb3.setFont(new Font("Serif",Font.PLAIN,20));

cb4=new JCheckBox("Chicken @ 150");

cb4.setBounds(250,350,150,20);

cb4.setFont(new Font("Serif",Font.PLAIN,20));

cb5=new JCheckBox("Biryani @ 120");

cb5.setBounds(250,400,150,30);

cb5.setFont(new Font("Serif",Font.PLAIN,20));

cb6=new JCheckBox("Chicken Biryani @ 180");

cb6.setBounds(250,450,250,30);
```

```
cb6.setFont(new Font("Serif",Font.PLAIN,20));
cb7=new JCheckBox("Fried chicken @ 180");
cb7.setBounds(250,500,250,30);
cb7.setFont(new Font("Serif",Font.PLAIN,20));
cb8=new JCheckBox("Chicken Burger @ 150");
cb8.setBounds(250,550,250,30);
cb8.setFont(new Font("Serif",Font.PLAIN,20));
cb9=new JCheckBox("Chicken Pesto @ 120");
cb9.setBounds(250,600,250,30);
cb9.setFont(new Font("Serif",Font.PLAIN,20));
cb10=new JCheckBox("KFC @ 250");
cb10.setBounds(250,650,250,30);
cb10.setFont(new Font("Serif",Font.PLAIN,20));
cb11=new JCheckBox("Veg fried rice @ 100");
cb11.setBounds(650,200,200,30);
cb11.setFont(new Font("Serif",Font.PLAIN,20));
cb12=new JCheckBox("Veg Biryani @ 130");
cb12.setBounds(650,250,200,30);
cb12.setFont(new Font("Serif",Font.PLAIN,20));
cb13=new JCheckBox("Paneer @ 100");
cb13.setBounds(650,300,150,30);
cb13.setFont(new Font("Serif",Font.PLAIN,20));
cb14=new JCheckBox("Mushrooms @ 150");
cb14.setBounds(650,350,200,20);
```

```
cb14.setFont(new Font("Serif",Font.PLAIN,20));  
cb15=new JCheckBox("Phool Makhani @ 180");  
cb15.setBounds(650,400,250,20);  
cb15.setFont(new Font("Serif",Font.PLAIN,20));  
cb16=new JCheckBox("Green piece @ 90");  
cb16.setBounds(650,450,200,30);  
cb16.setFont(new Font("Serif",Font.PLAIN,20));  
cb17=new JCheckBox("French Fries @ 90");  
cb17.setBounds(650,500,200,30);  
cb17.setFont(new Font("Serif",Font.PLAIN,20));  
cb18=new JCheckBox("Manchuriya @ 110");  
cb18.setBounds(650,550,200,30);  
cb18.setFont(new Font("Serif",Font.PLAIN,20));  
cb19=new JCheckBox("Corriander Rice @ 120");  
cb19.setBounds(650,600,200,30);  
cb19.setFont(new Font("Serif",Font.PLAIN,20));  
cb20=new JCheckBox("Coconut rice @ 100");  
cb20.setBounds(650,650,200,30);  
cb20.setFont(new Font("Serif",Font.PLAIN,20));  
cb20=new JCheckBox("Coconut rice @ 100");  
cb20.setBounds(650,650,200,30);  
cb20.setFont(new Font("Serif",Font.PLAIN,20));  
cb21=new JCheckBox("Idly @ 15");  
cb21.setBounds(1050,200,200,30);
```

```
cb21.setFont(new Font("Serif",Font.PLAIN,20));  
cb22=new JCheckBox("Plain Dosa @ 30");  
cb22.setBounds(1050,250,200,30);  
cb22.setFont(new Font("Serif",Font.PLAIN,20));  
cb23=new JCheckBox("Onion Dosa @ 35");  
cb23.setBounds(1050,300,200,30);  
cb23.setFont(new Font("Serif",Font.PLAIN,20));  
cb24=new JCheckBox("Chapathi @ 20");  
cb24.setBounds(1050,350,200,30);  
cb24.setFont(new Font("Serif",Font.PLAIN,20));  
cb25=new JCheckBox("Mysore Bonda @ 15");  
cb25.setBounds(1050,400,200,30);  
cb25.setFont(new Font("Serif",Font.PLAIN,20));  
cb26=new JCheckBox("Poori @ 20");  
cb26.setBounds(1050,450,200,30);  
cb26.setFont(new Font("Serif",Font.PLAIN,20));  
cb27=new JCheckBox("Vada @ 30");  
cb27.setBounds(1050,500,200,30);  
cb27.setFont(new Font("Serif",Font.PLAIN,20));  
cb28=new JCheckBox("Pulka @ 30");  
cb28.setBounds(1050,550,200,30);  
cb28.setFont(new Font("Serif",Font.PLAIN,20));  
cb29=new JCheckBox("Pesara Dosa @ 35");  
cb29.setBounds(1050,600,200,30);
```

```
cb29.setFont(new Font("Serif",Font.PLAIN,20));  
cb30=new JCheckBox("Ootappam @ 30");  
cb30.setBounds(1050,650,200,30);  
cb30.setFont(new Font("Serif",Font.PLAIN,20));  
cb31=new JCheckBox("Salad @ 50");  
cb31.setBounds(1450,200,200,30);  
cb31.setFont(new Font("Serif",Font.PLAIN,20));  
cb32=new JCheckBox("Baby Corn @ 30");  
cb32.setBounds(1450,250,200,30);  
cb32.setFont(new Font("Serif",Font.PLAIN,20));  
cb33=new JCheckBox("Ice Cream @ 60");  
cb33.setBounds(1450,300,200,30);  
cb33.setFont(new Font("Serif",Font.PLAIN,20));  
cb34=new JCheckBox("Pastry @ 70");  
cb34.setBounds(1450,350,200,30);  
cb34.setFont(new Font("Serif",Font.PLAIN,20));  
cb35=new JCheckBox("Egg Noodles @ 80");  
cb35.setBounds(1450,400,200,30);  
cb35.setFont(new Font("Serif",Font.PLAIN,20));  
cb36=new JCheckBox("Chicken Noodles @ 130");  
cb36.setBounds(1450,450,250,30);  
cb36.setFont(new Font("Serif",Font.PLAIN,20));  
cb37=new JCheckBox("Samosa @ 30");  
cb37.setBounds(1450,500,200,30);
```



```

        cb37.setFont(new Font("Serif",Font.PLAIN,20));

        cb38=new JCheckBox("Cool Drink @ 50");

        cb38.setBounds(1450,550,200,30);

        cb38.setFont(new Font("Serif",Font.PLAIN,20));

        cb39=new JCheckBox("Pizza @ 130");

        cb39.setBounds(1450,600,200,30);

        cb39.setFont(new Font("Serif",Font.PLAIN,20));

        cb40=new JCheckBox("Burger @ 80");

        cb40.setBounds(1450,650,200,30);

        cb40.setFont(new Font("Serif",Font.PLAIN,20));

        b=new JButton("Order");

        b.setBounds(850,750,150,30);

        b.setFont(new Font("Serif",Font.PLAIN,30));

        b.addActionListener(this);
        add(l);add(l1);add(l2);add(l3);add(l4);add(cb1);add(cb2);add(cb3);add(cb4);add(c
        b5);add(cb6);add(cb7);add(cb8);add(cb9);add(cb10);add(cb11);add(cb12);add(cb
        13);add(cb14);add(cb15);add(cb16);add(cb17);add(cb18);add(cb19);add(cb20);
        add(cb21);add(cb22);add(cb23);add(cb24);add(cb25);add(cb26);add(cb27);add(c
        b28);add(cb29);add(cb30);add(cb31);add(cb32);add(cb33);add(cb34);add(cb35);a
        dd(cb36);add(cb37);add(cb38);add(cb39);add(cb40);add(b);

        setSize(400,400);

        setLayout(null);

        setVisible(true);

        setDefaultCloseOperation(EXIT_ON_CLOSE);

    }

    public void actionPerformed(ActionEvent e)

```

```
{  
  
    float amount=0;  
  
    String msg="";  
  
    if(cb1.isSelected())  
    {  
  
        amount+=200;  
  
        msg+="Mutton: 200\n";  
  
    }  
  
    if(cb2.isSelected())  
    {  
  
        amount+=130;  
  
        msg+="Egg Fried Rice: 130\n";  
  
    }  
  
    if(cb3.isSelected())  
    {  
  
        amount+=90;  
  
        msg+="Egg Curry: 90\n";  
  
    }  
  
    if(cb4.isSelected())  
    {  
  
        amount+=150;  
  
        msg+="chicken: 150\n";  
  
    }  
  
    if(cb5.isSelected())
```

```
{  
    amount+=120;  
    msg+="Biryani: 120\n";  
}  
if(cb6.isSelected())  
{  
    amount+=180;  
    msg+="Chicken Biryani: 180\n";  
}  
if(cb7.isSelected())  
{  
    amount+=180;  
    msg+="Fried Chicken: 180\n";  
}  
if(cb8.isSelected())  
{  
    amount+=150;  
    msg+="Chicken Burger: 150\n";  
}  
if(cb9.isSelected())  
{  
    amount+=120;  
    msg+="Chicken Pesto: 120\n";  
}
```

```
if(cb10.isSelected())
{
    amount+=250;
    msg+="KFC: 250\n";
}
if(cb11.isSelected())
{
    amount+=100;
    msg+="Veg fried rice: 100\n";
}
if(cb12.isSelected())
{
    amount+=130;
    msg+="Veg Biryani: 130\n";
}
if(cb13.isSelected())
{
    amount+=100;
    msg+="Paneer: 100\n";
}
if(cb14.isSelected())
{
    amount+=150;
    msg+="Mushrooms: 150\n";
```

```
}  
  
if(cb15.isSelected())  
{  
  
    amount+=180;  
  
    msg+="Phool Makhani: 180\n";  
  
}  
  
if(cb16.isSelected())  
{  
  
    amount+=90;  
  
    msg+="Green Piece: 90\n";  
  
}  
  
if(cb17.isSelected())  
{  
  
    amount+=90;  
  
    msg+="French Fries: 90\n";  
  
}  
  
if(cb18.isSelected())  
{  
  
    amount+=110;  
  
    msg+="Manchuriya: 110\n";  
  
}  
  
if(cb19.isSelected())  
{  
  
    amount+=120;
```

```
        msg+="Corriander Rice: 120\n";
    }
    if(cb20.isSelected())
    {
        amount+=100;
        msg+="Coconut Rice: 100\n";
    }
    if(cb21.isSelected())
    {
        amount+=150;
        msg+="Idly: 15\n";
    }
    if(cb22.isSelected())
    {
        amount+=30;
        msg+="Plain Dosa: 30\n";
    }
    if(cb23.isSelected())
    {
        amount+=35;
        msg+="Onion Dosa: 35\n";
    }
    if(cb24.isSelected())
    {
```

```
        amount+=20;

        msg+="Chapathi: 20\n";
    }

    if(cb25.isSelected())
    {

        amount+=15;

        msg+="Mysore Bonda: 15\n";
    }

    if(cb26.isSelected())
    {

        amount+=20;

        msg+="Poori: 20\n";
    }

    if(cb27.isSelected())
    {

        amount+=30;

        msg+="Vada: 30\n";
    }

    if(cb28.isSelected())
    {

        amount+=30;

        msg+="Pulka: 30\n";
    }

    if(cb29.isSelected())
```

```
{  
    amount+=35;  
    msg+="Pesara Dosa: 35\n";  
}  
if(cb30.isSelected())  
{  
    amount+=30;  
    msg+="Ootappam: 30\n";  
}  
if(cb31.isSelected())  
{  
    amount+=50;  
    msg+="Salad: 50\n";  
}  
if(cb32.isSelected())  
{  
    amount+=30;  
    msg+="Baby Corn: 30\n";  
}  
if(cb33.isSelected())  
{  
    amount+=60;  
    msg+="Ice Cream: 60\n";  
}
```



```
if(cb34.isSelected())
{
    amount+=70;
    msg+="Pastry: 70\n";
}
if(cb35.isSelected())
{
    amount+=80;
    msg+="Egg Noodles: 80\n";
}
if(cb36.isSelected())
{
    amount+=130;
    msg+="Chicken Noodles: 130\n";
}
if(cb37.isSelected())
{
    amount+=30;
    msg+="Samosa: 30\n";
}
if(cb38.isSelected())
{
    amount+=50;
    msg+="Cool Drink: 50\n";
```

```

    }

    if(cb39.isSelected())
    {
        amount+=130;

        msg+="Pizza: 130\n";
    }

    if(cb40.isSelected())
    {
        amount+=80;

        msg+="Burger: 80\n";
    }

    msg+="- ..... \n";

    JOptionPane.showMessageDialog(this,msg+"Total: "+amount);
}

public static void main(String[] args)
{
    new Cost();

    Cost f = new Cost();

    f.setTitle("Restaurant Billing Management System");

    f.setVisible(true);
}
}

```

OUTPUT:

Restaurant Billing Management System

Menu is:

NON VEG FOOD:

☐ Mutton @ 200

☐ Egg fried rice @ 130

☐ Egg curry @ 90

☐ Chicken @ 150

☐ Biryani @ 120

☐ Chicken Biryani @ 180

☐ Fried chicken @ 180

☐ Chicken Burger @ 150

☐ Chicken Pesto @ 120

☐ KFC @ 250

VEG FOOD :

☐ Veg fried rice @ 100

☐ Veg Biryani @ 130

☐ Paneer @ 100

☐ Mushrooms @ 150

☐ Phool Makhani @ 180

☐ Green piece @ 90

☐ French Fries @ 90

☐ Manchuriya @ 110

☐ Corriander Rice @ ...

☐ Coconut rice @ 100

TIFFINS :

☐ Idly @ 15

☐ Plain Dosa @ 30

☐ Onion Dosa @ 35

☐ Chapathi @ 20

☐ Mysore Bonda @ 15

☐ Poori @ 20

☐ Vada @ 30

☐ Pulka @ 30

☐ Pesara Dosa @ 35

☐ Ootappam @ 30

SNACK :

☐ Salad @ 50

☐ Baby Corn @ 30

☐ Ice Cream @ 60

☐ Pastry @ 70

☐ Egg Noodles @ 80

☐ Chicken Noodles @ 130

☐ Samosa @ 30

☐ Cool Drink @ 50

☐ Pizza @ 130

☐ Burger @ 80

Order

Menu is:

NON VEG FOOD:

- ☐ Mutton @ 200
- ☒ Egg fried rice @ 130
- ☒ Egg curry @ 90
- ☒ Chicken @ 150
- ☐ Biryani @ 120
- ☐ Chicken Biryani @ 180
- ☐ Fried chicken @ 180
- ☐ Chicken Burger @ 150
- ☐ Chicken Pesto @ 120
- ☐ KFC @ 250

VEG FOOD :

- ☐ Veg fried rice @ 100
- ☒ Veg Biryani @ 130
- ☐ Paneer @ 100
- ☒ Mushrooms @ 150
- ☐ Phool Makhani @ 180
- ☐ Green piece @ 90
- ☒ French Fries @ 90
- ☒ Manchuriya @ 110
- ☐ Corriander Rice @ ...
- ☐ Coconut rice @ 100

TIFFINS :

- ☐ Idly @ 15
- ☐ Plain Dosa @ 30
- ☐ Onion Dosa @ 35
- ☒ Chapathi @ 20
- ☐ Mysore Bonda @ 15
- ☐ Poori @ 20
- ☐ Vada @ 30
- ☒ Pulka @ 30
- ☐ Pesara Dosa @ 35
- ☐ Ootappam @ 30

SNACK :

- ☐ Salad @ 50
- ☐ Baby Corn @ 30
- ☒ Ice Cream @ 60
- ☒ Pastry @ 70
- ☐ Egg Noodles @ 80
- ☐ Chicken Noodles @ 130
- ☐ Samosa @ 30
- ☒ Cool Drink @ 50
- ☐ Pizza @ 130
- ☐ Burger @ 80

Order

Message

i Egg Fried Rice: 130
Egg Curry: 90
chicken: 150
Veg Biryani: 130
Mushrooms: 150
French Fries: 90
Manchuriya: 110
Chapathi: 20
Pulka: 30
Ice Cream: 60
Pastry: 70
Cool Drink: 50

Total: 1080.0

OK