GROUP MEMBERS BATCH C31

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Mini Project Report (JAVA OOPM) PIL CANTEEN MANAGEMENT SYSTEM

1.Introduction

This canteen management system discards the old billing system of writing everything down and taking orders to an advanced application. Where an authenticated user can order his/her meal and can have his/her account to debt balance on thus, can pay the total bill after the specified time, without worrying about the book account.

2. Motivation

Having to stand in long queues, sometimes errors in account balance lead us to think of making a software which is capable of ordering items and can hold all the data of orders and transactions

3. CODE-

Cart.java

import

java.awt.Color;

import

java.awt.Font;

import java.awt.event.ActionEvent;

import

java.awt.event.ActionListener;

```
import java.sql.Connection;
import
java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import
javax.swing.BorderFactory;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import
javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JTextArea;
import javax.swing.JTextField;
import javax.swing.border.Border;
import
javax.swing.border.EmptyBorder;
public class Cart extends JFrame implements
 ActionListener { private static final long
 serialVersionUID = 1L;
 private JPanel contentPane;
 private JTextArea itemList, quantity, amt,rate;
 private JButton Customize, calculate, debit ,paynow,
  Finish; private JTextField tftotal;
 private String username;
 private int amtsum=0,
  paid=0;
  Cart(String Username) {
      username=Usernam
```

e;

 $setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);$

```
setTitle("Canteen-MS-
Cart"); setBounds(60, 10,
1200, 700);
setResizable(false);
contentPane = new JPanel();
contentPane.setBorder(new EmptyBorder(5, 5,
5, 5)); setContentPane(contentPane);
contentPane.setLayout(null);
contentPane.setBackground(new Color(52, 46,
45));
Color blue = new Color(74, 143, 255);
Font menuFont = new Font("Tahoma", Font.PLAIN, 20);
JPanel
pitemlist,prate,pquan,pamt;
JPanel panel = new JPanel();
panel.setLayout(null);
panel.setBounds(200, 100, 390,
430);
panel.setBackground(new Color(92, 85, 84));
Border blackborder =
BorderFactory.createLineBorder(Color.black,2); int
py=36,pos=-19;
itemList = new JTextArea();
itemList.setBounds(5, 5, 170, 300);
itemList.setLineWrap(true);
itemList.setEditable(false);
itemList.setBorder(new EmptyBorder(5, 5, 5,
5));
itemList.setFont(new Font("Tahoma", Font.PLAIN,
```

17)); pitemlist = new JPanel();

```
pitemlist.setLayout(null);
pitemlist.setBounds(40+pos, py, 180,
310); pitemlist.setBorder(blackborder);
pitemlist.add(itemList);
rate = new JTextArea();
rate.setBounds(05,05, 50,
300); rate.setLineWrap(true);
rate.setEditable(false);
rate.setBorder(new EmptyBorder(5, 5, 5, 5));
rate.setFont(new Font("Tahoma", Font.PLAIN,
17)); rate.setBorder(new EmptyBorder(5, 5, 5,
5));
prate = new JPanel();
prate.setLayout(null);
prate.setBounds(218+pos, py, 60,
310); prate.setBorder(blackborder);
prate.add(rate);
quantity = new JTextArea();
quantity.setBounds(05, 05, 40, 300);
quantity.setLineWrap(true);
quantity.setCaretColor(Color.WHITE);
quantity.setBorder(new EmptyBorder(5, 5, 5,
5));
quantity.setFont(new Font("Tahoma", Font.PLAIN,
17)); pquan = new JPanel();
pquan.setLayout(null);
pquan.setBounds(276+pos, py, 50,
310); pquan.setBorder(blackborder);
pquan.add(quantity);
```

```
amt = new JTextArea();
amt.setBounds(05, 05, 50,
300); amt.setLineWrap(true);
amt.setEditable(false);
amt.setBorder(new EmptyBorder(5, 5, 5, 5));
amt.setFont(new Font("Tahoma", Font.PLAIN,
17)); pamt = new JPanel();
pamt.setLayout(null);
pamt.setBounds(324+pos, py, 60,
310); pamt.setBorder(blackborder);
pamt.add(amt);
panel.add(pitemlist
); panel.add(prate);
panel.add(pquan);
panel.add(pamt);
 itemList.append("Lorem asfkjshf\nDosv npav\nAfsfn dflfid\nAfsjfn qwrew");
 rate.append("30\n135\n80\n230");
 quantity.append("3\n1\n5\n1\n");
//amt.append("450\n912\n1015\n10");
int ly = 8;
JLabel litems, Iquantity, user, Irate;
Font lblfont = new Font("Times New Roman", Font.PLAIN, 20);
litems = new JLabel("Items in
cart"); litems.setFont(lblfont);
```

//

//

//

```
litems.setForeground(Color.white);
litems.setBounds(70+pos, ly, 200,
32); panel.add(litems);
Irate = new JLabel("Rate");
Irate.setFont(lblfont);
Irate.setForeground(Color.white);
Irate.setBounds(230+pos, ly, 130,
32); panel.add(lrate);
lquantity = new JLabel("Qty");
Iquantity.setFont(lblfont);
lquantity.setForeground(Color.white);
Iquantity.setBounds(289+pos, ly, 130,
32); panel.add(lquantity);
user = new JLabel("Amt");
user.setFont(lblfont);
user.setForeground(Color.white);
user.setBounds(338+pos, ly, 100,
32); panel.add(user);
tftotal = new JTextField(" Total :
"); tftotal.setBounds(242, 350,
123, 32); tftotal.setEditable(false);
tftotal.setFont(new Font("Tahoma", Font.PLAIN,
19)); tftotal.setBorder(blackborder);
panel.add(tftotal);
```

```
user = new JLabel("Dear "+username+", confirm your
order"); user.setFont(new Font("Tahoma", Font.PLAIN,
21)); user.setForeground(Color.white);
user.setBounds(70, 30, 600,
32); add(user);
Customize = new JButton("Edit
Cart"); Customize.setBounds(900,
130, 170, 40);
Customize.setFont(menuFont);
Customize.setBackground(blue);
Customize.addActionListener(this);
Customize.setFocusPainted(false);
add(Customize);
calculate = new JButton("Calculate
Bill"); calculate.setBounds(900, 210,
170, 40);
calculate.setFont(menuFont);
calculate.setBackground(blue);
calculate.addActionListener(this);
calculate.setFocusPainted(false);
add(calculate);
debit = new JButton("Pay
Later"); debit.setBounds(900,
320, 170, 40);
debit.setFont(menuFont);
debit.setBackground(blue);
debit.addActionListener(this);
debit.setFocusPainted(false);
add(debit);
```

```
paynow = new JButton("Pay
  Now"); paynow.setBounds(900,
  370, 170, 40);
  paynow.setFont(menuFont);
  paynow.setBackground(blue);
  paynow.addActionListener(this);
  paynow.setFocusPainted(false);
  add(paynow);
  Finish = new JButton("Place Order");
  Finish.setBounds(900, 420, 170, 40);
  Finish.setFont(menuFont);
  Finish.setBackground(new Color(0, 20,
  153)); Finish.setEnabled(false);
  Finish.addActionListener(this);
  Finish.setFocusPainted(false);
  add(Finish);
  add(panel);
int count=0;
public void addToCart(String inp) {
  switch (inp)
    { case
    "1":
    count++;
      itemList.append(count+".
      Samosa\n"); rate.append("25\n");
```

}

```
break
 ; case
    "2":
count++;
 itemList.append(count+". Vada
 Pav\n"); rate.append("20\n");
  break
 ; case
    "3":
count++;
 itemList.append(count+". Misal
 Pav\n"); rate.append("30\n");
  break
 ; case
    "4":
count++;
 itemList.append(count+". Pav
 Bhaji\n"); rate.append("30\n");
  break
 ; case
    "5":
count++;
 itemList.append(count+". Chicken
 Biryani\n"); rate.append("150\n");
  break
 ; case
    "6":
count++;
 itemList.append(count+". Idli
 Sambar\n"); rate.append("160\n");
  break
 ; case
    "7":
count++;
```

itemList.append(count+". Chole Bature\n");

```
rate.append("130\n"
      ); break;
    case "8":
     count++;
      itemList.append(count+". Veg
      Biryani\n"); rate.append("140\n");
      break;
  }
}
public void
  setVisible() {
  setVisible(true);
}
public void actionPerformed(ActionEvent e) {
  if (e.getSource() ==
     Customize) {
     setVisible(false);
  }
  else if (e.getSource() == calculate)
     { amt.setText(null);
     tftotal.setText(null);
     tftotal.replaceSelection(" Total:
     ");
     String sQuan =
    quantity.getText(); String sItem
    = rate.getText();
```

```
int[][] arrQuan = new int[10][3];
StringBuffer tempQuan = new StringBuffer();
StringBuffer tempItem = new StringBuffer();
int lengthQuan=0;
for(int i=0;i<sQuan.length();i++){</pre>
  while(i<sQuan.length() &&
  sQuan.charAt(i)!='\n'){
    tempQuan.append(Character.toString(sQuan.charA
    t(i)); i++;
  }
  arrQuan[lengthQuan][0]=Integer.parseInt(tempQuan.toStrin
  g()); lengthQuan++;
  tempQuan.delete(0, tempQuan.length());
}
lengthQuan=0;
for(int i=0;i<sItem.length();i++){</pre>
  while(i<sItem.length() &&
  sItem.charAt(i)!='\n'){
    templtem.append(Character.toString(sItem.charAt
    (i))); i++;
  }
  arrQuan[lengthQuan][1]=Integer.parseInt(tempItem.toStrin
  g()); lengthQuan++;
  templtem.delete(0, templtem.length());
}
for(int i=0;i<lengthQuan;i++){</pre>
  //System.out.println(arrQuan[i][0]+" - "+arrQuan[i][1]);
```

```
amtsum = amtsum + arrQuan[i][0]*arrQuan[i][1];
        amt.append(Integer.toString(arrQuan[i][0]*arrQuan[i][1])+"\
        n");
      }
      tftotal.replaceSelection(Integer.toString(amtsum));
    }
    else if (e.getSource() == debit) {
      quantity.setEditable(false);
      String query1 = "select debt from account where user_name =
      \""+username+"\""; try {
      Class.forName("com.mysql.cj.jdbc.Driver");
        Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/canteen_db", "root",
"1234");
        Statement sta = connection.createStatement();
        ResultSet rs =
             sta.executeQuery(query1);
             rs.next();
             int prevDebt = rs.getInt("debt");
             String query2 = "UPDATE account SET debt="+ (amtsum+prevDebt) +"
WHERE user_name = \""+username+"\"";
        sta.executeUpdate(query2);
             //System.out.println();
        connection.close();
      } catch (Exception exception) {
```

```
//exception.printStackTrace
      ();
      System.out.println(exception
      );
      }
      JOptionPane.showMessageDialog(debit, "Dear "+username+", Rs.
"+amtsum+" have been\n added to your balance");
      Finish.setEnabled(true);
      Finish.setBackground(new Color(74, 143,
      255));
    }
    else if (e.getSource() ==
      paynow) {
      quantity.setEditable(false);
      paid=1;
      Finish.setEnabled(true);
      Finish.setBackground(new Color(74, 143, 255));
      JOptionPane.showMessageDialog(Finish, "Dear "+username+", pay Rs.
"+amtsum+" to counter");
    }
    else if(e.getSource() == Finish) {
      try {
      Class.forName("com.mysql.cj.jdbc.Driv
      er");
        Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/canteen_db", "root",
"1234");
        Statement sta = connection.createStatement();
        String sit =
        itemList.getText(); String
        squ = quantity.getText();
        String sam = amt.getText();
        StringBuffer tempIt = new StringBuffer();
```

StringBuffer tempqu = new StringBuffer();

StringBuffer tempam = new StringBuffer();

```
int k=0,l=0,m=0;
        for(int j=0;j<count;j++){
          while(k<sit.length() && sit.charAt(k)!='\n'){</pre>
            templt.append(Character.toString(sit.charAt(
            k))); k++;
          }
          String itemname=templt.toString()+" ";
          templt.delete(0, templt.length());
          k++;
          while(I<squ.length() && squ.charAt(I)!='\n'){</pre>
            tempqu.append(Character.toString(squ.charAt
            (l))); l++;
          }
          int quanno
          =Integer.parseInt(tempqu.toString());
          tempqu.delete(0, tempqu.length());
          l++;
          while(m<sam.length() && sam.charAt(m)!='\n'){</pre>
            tempam.append(Character.toString(sam.charAt(
            m))); m++;
          }
          int amount
          =Integer.parseInt(tempam.toString());
          tempam.delete(0, tempam.length());
          m++;
          //System.out.println(itemname+"-"+quanno+amount);
          String query = "INSERT INTO order_record values(now(),'" + username
+ "'," + itemname + "'," + quanno + "," + amount + "," + paid + ")";
```

```
sta.executeUpdate(query);
        }
        connection.close();
      } catch (Exception exception) {
       //exception.printStackTrace
      ();
      System.out.println(exception
      );
      }
      dispose();
      Order o = new
      Order(username);
      o.setVisible();
    }
 }
}
Order.java-
import
java.awt.Color;
import
java.awt.Font;
import java.awt.*;
import java.awt.event.ActionEvent;
import
java.awt.event.ActionListener;
//import java.sql.*;
import
javax.swing.BorderFactory;
import javax.swing.lmagelcon;
```

import javax.swing.JButton;

import javax.swing.JFrame;

import javax.swing.JLabel;

```
import javax.swing.JPanel;
import
javax.swing.JScrollPane;
import
javax.swing.JTextArea;
import
javax.swing.border.BevelBorder;
import javax.swing.border.Border;
import
javax.swing.border.EmptyBorder;
public class Order extends JFrame implements
      ActionListener{ private static final long
      serialVersionUID = 1L;
 private JPanel
 contentPane; JTextArea
 bill1,bill2; JButton cart;
      Cart c;
 public Order(String
      username) { c = new
      Cart(username);
      setDefaultCloseOperation(JFrame.EXIT_ON_C
      LOSE); setTitle("Canteen-MS-Place Order");
   setBounds(60, 10, 1200,
   700); setResizable(false);
   setIconImage(Toolkit.getDefaultToolkit().getImage("img/bg.png"));
   contentPane = new JPanel();
   contentPane.setBorder(new EmptyBorder(5, 5,
   5, 5)); setContentPane(contentPane);
   contentPane.setLayout(null);
   getContentPane().setBackground(new Color(52, 46, 45)); //black
```

```
JLabel lblorder = new JLabel("Place your Order");
Iblorder.setFont(new Font("Times New Roman", Font.PLAIN,
35)); lblorder.setBounds(110, 19, 500, 50);
lblorder.setForeground(Color.white); //red
contentPane.add(lblorder);
JPanel panel = new
JPanel();
panel.setLayout(null);
panel.setPreferredSize(new Dimension(115, 1000));
//System.out.println(new File("img/item1.jpg").getCanonicalPath());
JLabel Irow1 = new JLabel("Snacks");
Irow1.setFont(new Font("Times New Roman", Font.PLAIN,
32)); Irow1.setBounds(525,11,100,32);
Irow1.setForeground(Color.white);
panel.add(lrow1);
JLabel Irow2 = new JLabel("Meals");
Irow2.setFont(new Font("Times New Roman", Font.PLAIN,
32)); Irow2.setBounds(525,350,100,32);
Irow2.setForeground(Color.white);
panel.add(lrow2);
 int yrow1=52 ,yrow2=360, pheight=246,pwidth=262;
 int xcol1=16, xcol2=295, xcol3=574, xcol4=853;
 int lx=100,ly=218,lwid=250,lhei=20,by=4,bxy=4,bwid=254,bhei=210;
int yrow1=52 ,yrow2=390, pheight=270,pwidth=262;
```

//

//

//

```
int xcol1=16, xcol2=295, xcol3=574, xcol4=853;
int lx=100,ly=243,lwid=250,lhei=20,by=30,bxy=5,bwid=252,bhei=210;
JButton
bitem1,bitem2,bitem3,bitem4,bitem5,bitem6,bitem7,bitem8;
JLabel litem1,litem2,litem3,litem4,litem5,litem6,litem7,litem8;
JLabel
Iname1,Iname2,Iname3,Iname4,Iname5,Iname6,Iname7,Iname8;
JPanel
pitem1,pitem2,pitem3,pitem4,pitem5,pitem6,pitem7,pitem8;
Color blue = new Color(138, 241, 255); //greenish
Font menuFont= new Font("Tahoma", Font.PLAIN, 20);
Border blackline =
BorderFactory.createLineBorder(Color.black,2); Font
Iblname = new Font("Times New Roman", Font.PLAIN, 22);
pitem1 = new JPanel();
pitem1.setBounds(xcol1,yrow1,pwidth,pheig
ht); pitem1.setBackground(blue);
litem1 = new JLabel("Rs.25");
litem1.setFont(menuFont);
litem1.setBounds(lx,ly,lwid,lhei)
; Iname1 = new
JLabel("Samosa");
lname1.setFont(lblname);
Iname1.setBounds(90,6,lwid,lh
ei);
  bitem1 = new JButton(new
ImageIcon("img/samosa.jpg"));
bitem1.setBounds(bxy,by,bwid,bhei);
```

pitem2 = new JPanel();

pitem2.setBounds(xcol2,yrow1,pwidth,pheig
ht); pitem2.setBackground(blue);

```
litem2 = new JLabel("Rs.20");
litem2.setFont(menuFont);
litem2.setBounds(lx,ly,lwid,lhei)
; Iname2 = new JLabel("Vada
Pav");
lname2.setFont(lblname);
Iname2.setBounds(90,6,lwid,lh
ei);
  bitem2 = new JButton(new
ImageIcon("img/vadapav.jpg"));
bitem2.setBounds(bxy,by,bwid,bhei);
pitem3 = new JPanel();
pitem3.setBounds(xcol3,yrow1,pwidth,pheig
ht); pitem3.setBackground(blue);
litem3 = new JLabel("Rs.30");
litem3.setFont(menuFont);
litem3.setBounds(lx,ly,lwid,lhei)
; Iname3 = new JLabel("Misal
Pav");
Iname3.setFont(lblname);
Iname3.setBounds(90,6,lwid,lh
ei);
  bitem3 = new JButton(new
ImageIcon("img/misal.jpg"));
bitem3.setBounds(bxy,by,bwid,bhei);
main
pitem4 = new JPanel();
pitem4.setBounds(xcol4,yrow1,pwidth,pheig
ht); pitem4.setBackground(blue);
litem4 = new JLabel("Rs.30");
litem4.setFont(menuFont);
litem4.setBounds(lx,ly,lwid,lhei
); Iname4 = new JLabel("Pav
```

Bhaji"); Iname4.setFont(lbIname);

```
Iname4.setBounds(90,6,lwid,lhei);
  bitem4 = new JButton(new
ImageIcon("img/pavbhaji.jpg"));
bitem4.setBounds(bxy,by,bwid,bhei);
pitem5 = new JPanel();
pitem5.setBounds(xcol1,yrow2,pwidth,pheig
ht); pitem5.setBackground(blue);
litem5 = new JLabel("Rs.120");
litem5.setFont(menuFont);
litem5.setBounds(lx,ly,lwid,lhei);
Iname5 = new JLabel("Chicken
Biryani"); Iname5.setFont(lblname);
Iname5.setBounds(66,6,lwid,lhei);
  bitem5 = new JButton(new
ImageIcon("img/chikenbiryani.jpg"));
bitem5.setBounds(bxy,by,bwid,bhei);
pitem6 = new JPanel();
pitem6.setBounds(xcol2,yrow2,pwidth,pheig
ht); pitem6.setBackground(blue);
litem6 = new JLabel("Rs.160");
litem6.setFont(menuFont);
litem6.setBounds(lx,ly,lwid,lhei);
Iname6 = new JLabel("Idli
Sambar");
lname6.setFont(lblname);
Iname6.setBounds(90,6,lwid,lhei)
  bitem6 = new JButton(new
ImageIcon("img/idli.jpg"));
bitem6.setBounds(bxy,by,bwid,bhei);
```

pitem7 = new JPanel();

```
pitem7.setBounds(xcol3,yrow2,pwidth,pheig
ht); pitem7.setBackground(blue);
litem7 = new JLabel("Rs.130");
litem7.setFont(menuFont);
litem7.setBounds(lx,ly,lwid,lhei);
Iname7 = new JLabel("Chole
Bature");
lname7.setFont(lblname);
Iname7.setBounds(80,6,lwid,lhei);
  bitem7 = new JButton(new
ImageIcon("img/cholebhature.jpg"));
bitem7.setBounds(bxy,by,bwid,bhei);
pitem8 = new JPanel();
pitem8.setBounds(xcol4,yrow2,pwidth,pheig
ht); pitem8.setBackground(blue);
litem8 = new JLabel("Rs.140");
litem8.setFont(menuFont);
litem8.setBounds(lx,ly,lwid,lhei);
Iname8 = new JLabel("Veg
Biryani");
Iname8.setFont(lblname);
Iname8.setBounds(82,6,lwid,lhei)
  bitem8 = new JButton(new
ImageIcon("img/vegbiryani.jpg"));
bitem8.setBounds(bxy,by,bwid,bhei);
pitem1.setLayout(null
);
pitem2.setLayout(null
);
pitem3.setLayout(null
);
```

```
pitem4.setLayout(null
);
pitem5.setLayout(null
);
pitem6.setLayout(null
);
```

```
pitem7.setLayout(null
);
pitem8.setLayout(null
);
pitem1.add(litem1
);
pitem2.add(litem2
);
pitem3.add(litem3
);
pitem4.add(litem4
);
pitem5.add(litem5
);
pitem6.add(litem6
);
pitem7.add(litem7
);
pitem8.add(litem8
);
pitem1.add(Iname1
);
pitem2.add(lname2
);
pitem3.add(lname3
);
pitem4.add(lname4
);
pitem5.add(lname5
);
pitem6.add(lname6
);
```

```
pitem7.add(lname7
);
pitem8.add(lname8
);
pitem1.add(bitem1
);
pitem2.add(bitem2
);
pitem3.add(bitem3
);
pitem4.add(bitem4
);
pitem5.add(bitem5
);
pitem6.add(bitem6
);
pitem7.add(bitem7
);
pitem8.add(bitem8
);
```

```
pitem1.setBorder(blacklin
e);
pitem2.setBorder(blacklin
e);
pitem3.setBorder(blacklin
e);
pitem4.setBorder(blacklin
e);
pitem5.setBorder(blacklin
e);
pitem6.setBorder(blacklin
e);
pitem7.setBorder(blacklin
e);
pitem8.setBorder(blacklin
e);
bitem1.addActionListener(thi
s);
bitem2.addActionListener(thi
s);
bitem3.addActionListener(thi
s);
bitem4.addActionListener(thi
s);
bitem5.addActionListener(thi
s);
bitem6.addActionListener(thi
s);
bitem7.addActionListener(thi
s);
bitem8.addActionListener(thi
```

s);

```
bitem1.setActionCommand("1
");
bitem2.setActionCommand("2
");
bitem3.setActionCommand("3
");
bitem4.setActionCommand("4
");
bitem5.setActionCommand("5
");
bitem6.setActionCommand("6
");
bitem7.setActionCommand("7
");
bitem8.setActionCommand("8
");
panel.add(pitem1);
```

```
panel.add(pitem2
   );
   panel.add(pitem3
   );
   panel.add(pitem4
   );
   panel.add(pitem5
   );
   panel.add(pitem6
   );
   panel.add(pitem7
   );
   panel.add(pitem8
   );
   cart= new JButton("Cart");
   cart.setBounds(1000,25,100,40);
   cart.setFont(menuFont);
   cart.setBackground(new Color(92, 85,
   84)); cart.addActionListener(this);
   cart.setFocusPainted(false);
   cart.setForeground(Color.white);
   cart.setBorder(BorderFactory.createLineBorder(Color.whit
   e,2)); contentPane.add(cart);
   panel.setBackground(new Color(92, 85,
   84)); JScrollPane scrollPane = new
JScrollPane(panel, JScrollPane. VERTICAL_SCROLLBAR_ALWAYS, JScrollPane. HO
RIZONTAL_SCR OLLBAR_AS_NEEDED);
   scrollPane.setBounds(20,90,1150,500);
   scrollPane.getVerticalScrollBar().setUnitIncrement
   (16); add(scrollPane);
 }
```

```
public void actionPerformed(ActionEvent
  e){ switch(e.getActionCommand()) {
  case "1":
```

```
c.addToCart("1"
  ); break;
case "2":
  c.addToCart("2"
  ); break;
case "3":
  c.addToCart("3"
  ); break;
case "4":
  c.addToCart("4"
  ); break;
case "5":
  c.addToCart("5"
  ); break;
case "6":
  c.addToCart("6"
  ); break;
case "7":
  c.addToCart("7"
  ); break;
case "8":
  c.addToCart("8"
  ); break;
}
  if(e.getSource()==cart) {
         c.setVisible(true);
  }
```

}

```
public void
    setVisible() {
    setVisible(true);
      }
}
Signin.java
import java.awt.Color;
import java.awt.Font;
import
java.awt.Toolkit;
import java.awt.event.ActionEvent;
import
java.awt.event.ActionListener;
import java.sql.*;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import
javax.swing.JOptionPane;
import javax.swing.JPanel;
import
javax.swing.JPasswordField;
import javax.swing.JTextField;
import javax.swing.border.EmptyBorder;
public class Signin extends JFrame {
      private static final long serialVersionUID
 = 1L; private JPanel contentPane;
 private JTextField username;
 private JPasswordField passwordField;
```

private JButton
loginButton,newUserButton;

```
public Signin() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setIconImage(Toolkit.getDefaultToolkit().getImage("img/bg.p
    ng")); setTitle("PIL CANTEEN");
  setBounds(200, 100, 400, 500);
  setResizable(false);
  setVisible(true);
  contentPane = new
  JPanel();
  contentPane.setBorder(new EmptyBorder(5, 5,
  5, 5)); setContentPane(contentPane);
  contentPane.setLayout(null);
  getContentPane().setBackground(new Color(150, 255, 225));
  JLabel welcome = new JLabel("Welcome to");
  welcome.setFont(new Font("Times New Roman",
  Font.PLAIN, 23)); welcome.setBounds(126, 10, 300, 60);
  contentPane.add(welcome);
  JLabel welcome1 = new JLabel(" PIL CANTEEN");
  welcome1.setFont(new Font("Felix Titling", Font.PLAIN,
  27)); welcome1.setBounds(92, 42, 300, 60);
  contentPane.add(welcome1);
  JLabel lblsignin = new JLabel("Login");
  Iblsignin.setFont(new Font("Berlin Sans FB",
  Font.PLAIN, 25)); Iblsignin.setBounds(154, 102, 200,
  50);
```

```
JLabel lblUsername = new JLabel("Username");
IbIUsername.setFont(new Font("Tahoma", Font.PLAIN,
18)); lblUsername.setBounds(20, 180, 90, 18);
contentPane.add(lblUsername);
JLabel lblPassword = new JLabel("Password");
lblPassword.setFont(new Font("Tahoma",
Font.PLAIN, 18)); lblPassword.setBounds(20, 240, 90,
18); contentPane.add(lblPassword);
username = new JTextField();
username.setFont(new Font("Tahoma", Font.PLAIN,
18)); username.setBounds(110, 175, 228, 30);
username.setBorder(new EmptyBorder(0, 5,
0, 0)); contentPane.add(username);
username.setColumns(10);
passwordField = new JPasswordField();
passwordField.setFont(new Font("Tahoma",
Font.PLAIN, 18)); passwordField.setBounds(110, 235,
228, 30);
passwordField.setBorder(new EmptyBorder(0, 5,
0, 0)); contentPane.add(passwordField);
loginButton = new JButton("Sign in");
loginButton.addActionListener(new
ActionListener() {
  public void actionPerformed(ActionEvent e) {
```

contentPane.add(lblsignin);

```
String userName = username.getText();
            String password = String.valueOf(passwordField.getPassword());
            String query = "select password_,first_name from account where
            user name
       \""+userNa
       me+"\""; try
         Class.forName("com.mysql.cj.jdbc.Driver");
         Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/canteen_db", "root",
"1234");
      Statement sta = connection.createStatement();
         ResultSet rs =
         sta.executeQuery(query); rs.next();
            String db_password = rs.getString("password_");
            //System.out.println(db_password+" entered :"+password);
         if (db_password.equals(password)) {
            JOptionPane.showMessageDialog(loginButton,"Welco
            me, "+
rs.getString("first_name"));
            dispose();
            Order o =new Order(userName); //_____
            o.setVisible();
         } else {
               JOptionPane.showMessageDialog(loginButton, "Invalid
                                   Password"):
         }
         connection.close();
       } catch (Exception exception) {
         //exception.printStackTrace();
            JOptionPane.showMessageDialog(loginButton, "Invalid
            User"); System.out.println(exception);
```

```
}
   });
   loginButton.setFont(new Font("Tahoma", Font.PLAIN,
    18)); loginButton.setBounds(56, 310, 270, 38);
   loginButton.setFocusPainted(false);
   contentPane.add(loginButton);
   newUserButton = new JButton("New user");
   newUserButton.addActionListener(new
   ActionListener() {
     public void actionPerformed(ActionEvent
      e) { dispose();
       new UserRegistration();
     }
   });
   newUserButton.setFont(new Font("Tahoma", Font.PLAIN,
   18)); newUserButton.setBounds(56, 370, 270, 38);
   newUserButton.setFocusPainted(false);
   contentPane.add(newUserButton);
 }
}
UserRegistration.java-
import java.awt.Font;
import java.awt.event.ActionEvent;
import
java.awt.event.ActionListener;
import java.sql.*;
import
javax.swing.JButton;
import
javax.swing.JFrame;
import
```

javax.swing.JLabel;

```
import
javax.swing.JOptionPane;
import javax.swing.JPanel;
import
javax.swing.JPasswordField;
import javax.swing.JTextField;
import
javax.swing.border.EmptyBorder;
import java.awt.Toolkit;
public class UserRegistration extends
 JFrame { private static final long
 serialVersionUID = 1L; private JPanel
 contentPane;
 private JTextField
 firstname; private
 JTextField lastname;
 private JTextField email;
 private JTextField
 username; private
 JTextField mob;
 private JPasswordField
 passwordField; private JButton
 btnNewButton;
 public UserRegistration() {
    setIconImage(Toolkit.getDefaultToolkit().getImage("img/bg.p
    ng")); setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(200, 80, 1014, 597);
      setTitle("Canteen-MS-
    Registration"); setResizable(false);
    setVisible(true);
    contentPane = new
    JPanel();
```

contentPane.setBorder(new EmptyBorder(5, 5,
5, 5)); setContentPane(contentPane);
contentPane.setLayout(null);

```
JLabel lblNewUserRegister = new JLabel("New User Registration");
IblNewUserRegister.setFont(new Font("Times New Roman",
Font.PLAIN, 40)); lblNewUserRegister.setBounds(330, 52, 325+100,
50); contentPane.add(lblNewUserRegister);
JLabel lblName = new JLabel("First name");
lblName.setFont(new Font("Tahoma", Font.PLAIN,
20)); lblName.setBounds(58, 152, 99, 43);
contentPane.add(lblName);
JLabel lblNewLabel = new JLabel("Last name");
IblNewLabel.setFont(new Font("Tahoma", Font.PLAIN,
20)); lblNewLabel.setBounds(58, 243, 110, 29);
contentPane.add(lblNewLabel);
JLabel lblEmailAddress = new JLabel("Email\r\n address");
lblEmailAddress.setFont(new Font("Tahoma", Font.PLAIN, 20));
IblEmailAddress.setBounds(58, 324, 124, 36);
contentPane.add(lblEmailAddress);
firstname = new JTextField();
firstname.setFont(new Font("Tahoma", Font.PLAIN,
22)); firstname.setBounds(214, 156, 228, 40);
contentPane.add(firstname);
firstname.setColumns(10);
lastname = new JTextField();
lastname.setFont(new Font("Tahoma", Font.PLAIN, 22));
```

```
lastname.setBounds(214, 240, 228,
40); contentPane.add(lastname);
lastname.setColumns(10);
email = new JTextField();
email.setFont(new Font("Tahoma", Font.PLAIN,
22)); email.setBounds(214, 320+5, 228, 40);
contentPane.add(email);
email.setColumns(10);
username = new JTextField();
username.setFont(new Font("Tahoma", Font.PLAIN,
22)); username.setBounds(707, 151+5, 228, 40);
contentPane.add(username);
username.setColumns(10);
JLabel lblUsername = new JLabel("Username");
IbIUsername.setFont(new Font("Tahoma", Font.PLAIN,
20)); lblUsername.setBounds(542, 159, 99, 29);
contentPane.add(lblUsername);
JLabel lblPassword = new JLabel("Password");
lblPassword.setFont(new Font("Tahoma",
Font.PLAIN, 20)); lblPassword.setBounds(542, 245,
99, 24); contentPane.add(lblPassword);
JLabel lblMobileNumber = new JLabel("Mobile number");
lblMobileNumber.setFont(new Font("Tahoma", Font.PLAIN, 20));
IblMobileNumber.setBounds(542, 329, 139, 26);
```

```
contentPane.add(lblMobileNumber);
   mob = new JTextField();
   mob.setFont(new Font("Tahoma", Font.PLAIN, 22));
   mob.setBounds(707, 320+5, 228, 40);
   contentPane.add(mob);
   mob.setColumns(10);
   passwordField = new JPasswordField();
   passwordField.setFont(new Font("Tahoma",
   Font.PLAIN, 22)); passwordField.setBounds(707,
   235+5, 228, 40); contentPane.add(passwordField);
   btnNewButton = new JButton("Register");
   btnNewButton.addActionListener(new
   ActionListener() {
     public void actionPerformed(ActionEvent
       e) { String firstName =
       firstname.getText(); String lastName =
       lastname.getText(); String emailId =
       email.getText();
       String
                      userName
       username.getText();
                                    String
       mobileNumber = mob.getText(); int
       len = mobileNumber.length();
       String password = String.valueOf(passwordField.getPassword());
       String msg = "" +
       firstName; msg += " \n";
       if(firstName.length()>0 && lastName.length()>0 && emailId.length()>0 &&
userName.length()>0 && len>0) {
             if (len == 10) {
```

```
try {
              Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/canteen_db", "root",
"1234");
              String query = "INSERT INTO account values(" + firstName + "'," +
              lastName
+ "','" + userName + "','" +
                password + "','" + emailId + "','" + mobileNumber + "','" + 0 + "')";
              Statement sta =
              connection.createStatement();
              sta.executeUpdate(query);
              JOptionPane.showMessageDialog(btnNewButton, "Welcome, " + msg
+ "Your account is sucessfully created");
              connection.close(
              ); dispose();
              Order o = new
              Order(userName);
              o.setVisible();
            } catch (SQLIntegrityConstraintViolationException exception) {
              //exception.printStackTrace
             ();
             System.out.println(exception
exists")
             );
             JOptionPane.showMessageDialog(btnNewButton, "This username
             already
            } catch (Exception
             exception) {
             exception.printStackTrace
             ();
            }
```

}

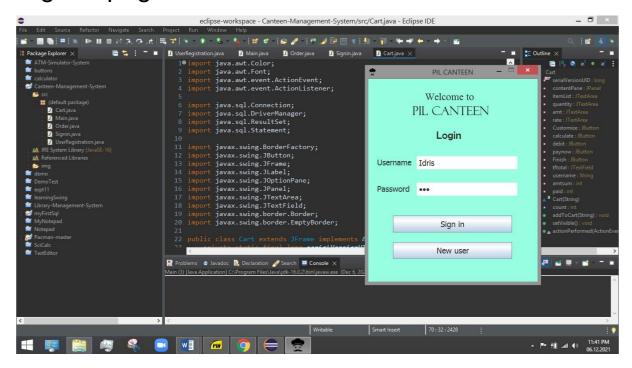
else {

JOptionPane.showMessageDialog(btnNewButton, "Enter a valid mobile number");

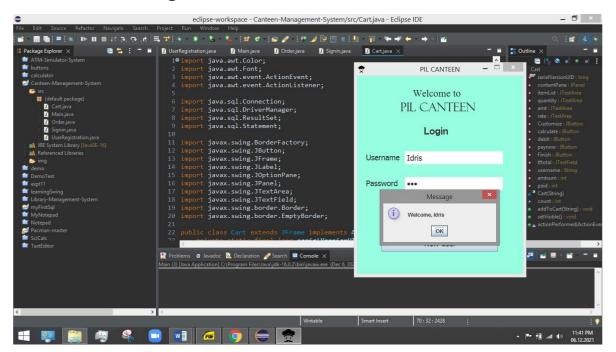
```
}
       }
       else
       {
             JOptionPane.showMessageDialog(btnNewButton, "Enter all the fields");
     }
   });
   btnNewButton.setFont(new Font("Tahoma", Font.PLAIN,
   22)); btnNewButton.setBounds(399, 447, 259, 74);
   btnNewButton.setFocusPainted(isEnabled());
    contentPane.add(btnNewButton);
 }
}
Main.java-
import java.awt.EventQueue;
public class Main {
      public static void main(String[] args)
    { EventQueue.invokeLater(new
    Runnable() {
      public void run()
         { new
         Signin();
      }
    });
}
```

4. OUTPUT-

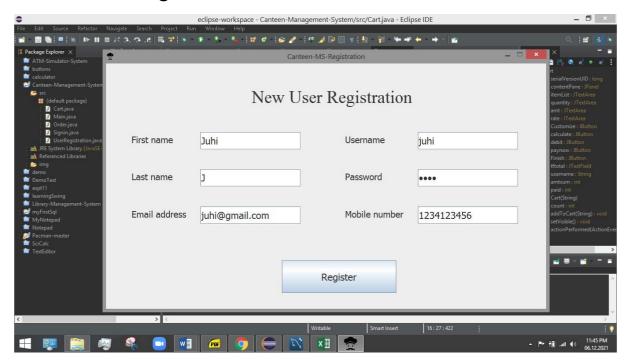
Sign-in page-



Welcome Page-



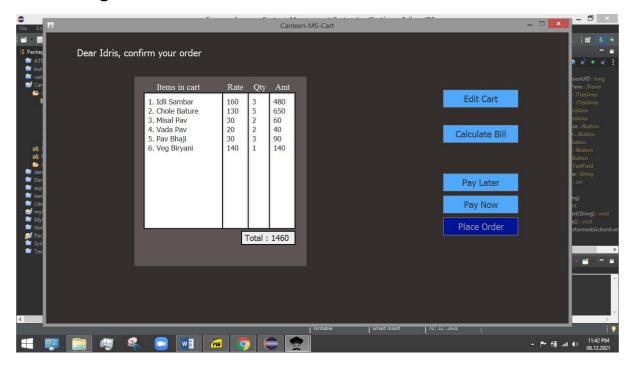
New User Registraton-



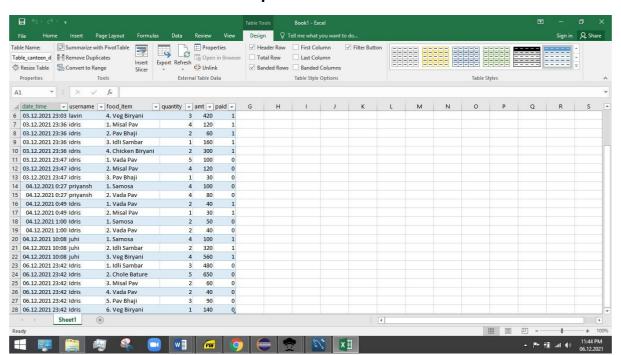
Menu Cum Place your Order page-



Cart Page-



Database Result in Spreadsheet-



Database for Calculating Debt-

