

ELECTRICITY BILLING SYSTEM

A PROJECT REPORT

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Faculty of Technology Studies

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Method Code :-

```
public class Elec
```

```
{
```

```
    String Name;
```

```
    String MiddleName;
```

```
    String Surname;
```

```
    String Number;
```

```
    String MeterNo;
```

```
    String Unit;
```

```
    String Address;
```

```
    String custNO;
```

```
    Elec(String a,String b,String c,String d,String e,String f,String g,String h)
```

```
    {
```

```
        this.Name = a;
```

```
        this.MiddleName = b;
```

```
        this.Surname = c;
```

```
        this.Number = d;
```

```
        this.MeterNo = e;
```

```
        this.Unit=f;
```

```
        this.Address=g;
```

```
        this.custNO = h;
```

```
    }
```

```
    public String toString()
```

```
    {
```

```
        return
```

```
        this.Name+"#"+this.MiddleName+"#"+this.Surname+"#"+this.Number+"#"+this.MeterNo+"#"+this.Unit+"#"+this.Address+"#"+this.custNO;
```

```
    }
```

```
}
```

View :-

1. Frame 1 :-

```
import java.awt.*;
import java.awt.event.*;
import java.io.*;
import javax.swing.*;
import java.lang.*;

public class Index extends JFrame
{
    Button btn1,btn2;
    MyActionListener mf = new MyActionListener(this);
    Index()
    {
        super("HOME");
        setLayout(null);
        setVisible(true);
        setBounds(0,0,800,800);

        setContentPane(new JLabel(new ImageIcon("A:\\\\OOP
Project\\\\Pgvcl6.jpeg")));

        btn1 = new Button("Get Bill");
        btn2 = new Button("Close");

        Font f1 = new Font("Arial",Font.BOLD,25);
        btn1.setFont(f1);
        btn2.setFont(f1);

        add(btn1);
        add(btn2);
    }
}
```

```
btn1.setBounds(200,600,150,50);
```

```
btn2.setBounds(400,600,150,50);
```

```
btn1.addActionListener(mf);
```

```
btn2.addActionListener(mf);
```

```
addWindowListener(new WindowAdapter()
```

```
{
```

```
    public void windowClosing(WindowEvent we)
```

```
{
```

```
        System.exit(0);
```

```
}
```

```
});
```

```
}
```

```
public static void main(String args[])
```

```
{
```

```
    Index mf = new Index();
```

```
}
```

```
}
```

2. Frame 2 :-

```
import java.awt.*;
```

```
import java.awt.event.*;
```

```
import java.io.*;
```

```
import javax.swing.*;
```

```
import java.lang.*;
```

```
public class Electricity extends JFrame
```

```
{
```

```
    JLabel lblcosnum;
```

```
    JTextField txt1;
```

```

JButton btn1,btn2;

MyActionListener fm = new MyActionListener(this);

Electricity()
{
    super("ELECTRICITY BILLING SYSTEM");
    setLayout(null);
    setVisible(true);
    setBounds(0,0,800,800);
    setContentPane(new JLabel(new ImageIcon("A:\\\\OOP
Project\\Pgvcl2.jpeg"))));

    lblcosnum = new JLabel("Customer Num :");
    txt1 = new JTextField( );
    btn1 = new JButton("BaCk");
    btn2 = new JButton("Search");

    Font f1 = new Font("Times",Font.BOLD,25);
    lblcosnum.setFont(f1);
    txt1.setFont(f1);
    btn1.setFont(f1);
    btn2.setFont(f1);

    lblcosnum.setForeground(Color.white);
    add(lblcosnum);
    add(txt1);
    add(btn1);
    add(btn2);

    lblcosnum.setBounds(100,200,250,50);
    txt1.setBounds(400,200,250,50);
    btn1.setBounds(300,600,150,50);

```

```

        btn2.setBounds(500,600,150,50);
        btn1.addActionListener(fm);
        btn2.addActionListener(fm);
        addWindowListener(new WindowAdapter()
        {
            public void windowClosing(WindowEvent we)
            {
                System.exit(0);
            }
        });
    }

    public static void main(String args[])
    {
        Electricity fm = new Electricity();
    }
}

```

3. Frame 3 :-

```

import java.awt.*;
import java.awt.event.*;
import java.io.*;
import javax.swing.*;
import java.lang.*;

public class Electricity1 extends JFrame
{
    Label
    lblyourbill, lblName, lblMiddleName, lblSurname, lblNumber, lblMeter, lblcity, lblUnit, lblAddress, lblTotal;

    TextField
    txtName, txtMiddleName, txtSurname, txtNumber, txtMeter, txtUnit, txtAddress, txtTotal;

    Button btnnext, btnback;

```

```

MyActionListener fm1 = new MyActionListener(this);
Electricity1()
{
    super("ELECTRICITY BILLING SYSTEM");
    setLayout(null);
    setBounds(0,0,1000,1000);
    setContentPane(new JLabel(new ImageIcon("A:\\\\OOP
Project\\Pgvcl3.jpeg"))));

    lblyourbill = new Label("Your Bill Detail");
    lblName = new Label("Name");
    lblMiddleName = new Label("Middlename");
    lblSurname = new Label("Surname");
    lblNumber = new Label("Number");
    lblMeter = new Label("Meter No.");
    lblUnit = new Label("Unit");
    lblAddress = new Label("Address");
    lblTotal = new Label("Total");
    txtName = new TextField();
    txtMiddileName = new TextField();
    txtSurname = new TextField();
    txtNumber = new TextField();
    txtMeter = new TextField();
    txtUnit = new TextField();
    txtAddress = new TextField();
    txtTotal = new TextField();
    btnnext = new Button("Next");
    btnback = new Button("Back");

    Font f1 = new Font("Times",Font.BOLD,25);
    lblyourbill.setFont(f1);

```

```
lblName.setFont(f1);  
lblMiddleName.setFont(f1);  
lblSurname.setFont(f1);  
lblNumber.setFont(f1);  
lblMeter.setFont(f1);  
lblUnit.setFont(f1);  
lblAddress.setFont(f1);  
lblTotal.setFont(f1);  
txtName.setFont(f1);  
txtMiddileName.setFont(f1);  
txtSurname.setFont(f1);  
txtNumber.setFont(f1);  
txtMeter.setFont(f1);  
txtUnit.setFont(f1);  
txtAddress.setFont(f1);  
txtTotal.setFont(f1);  
btnnext.setFont(f1);  
btnback.setFont(f1);
```

```
add(lblyourbill);  
add(lblName);  
add(lblMiddleName);  
add(lblSurname);  
add(lblNumber);  
add(lblMeter);  
add(lblUnit);  
add(lblAddress);  
add(lblTotal);  
add(txtName);  
add(txtMiddileName);
```



```
add(txtSurname);  
add(txtNumber);  
add(txtMeter);  
add(txtUnit);  
add(txtAddress);  
add(txtTotal);  
add(btnnext);  
add(btnback);
```

```
lblyourbill.setBounds(400,100,250,50);  
lblName.setBounds(100,160,150,50);  
lblMiddleName.setBounds(100,220,200,50);  
lblSurname.setBounds(100,280,150,50);  
lblNumber.setBounds(100,340,150,50);  
lblMeter.setBounds(100,400,150,50);  
lblUnit.setBounds(100,460,150,50);  
lblAddress.setBounds(100,520,150,50);  
lblTotal.setBounds(100,580,150,50);  
txtName.setBounds(350,160,500,50);  
txtMiddleName.setBounds(350,220,500,50);  
txtSurname.setBounds(350,280,500,50);  
txtNumber.setBounds(350,340,500,50);  
txtMeter.setBounds(350,400,500,50);  
txtUnit.setBounds(350,460,500,50);  
txtAddress.setBounds(350,520,500,50);  
txtTotal.setBounds(350,580,500,50);  
btnnext.setBounds(400,800,250,50);  
btnback.setBounds(200,800,150,50);  
btnnext.addActionListener(fm1);  
btnback.addActionListener(fm1);
```

```

        addWindowListener(new WindowAdapter()
        {
            public void windowClosing(WindowEvent we)
            {
                System.exit(0);
            }
        });
    }

    public static void main(String args[])
    {
        Electricity1 fm1 = new Electricity1();
        fm1.setVisible(true);
    }
}

```

4. Frame 4 :-

```

import java.awt.*;
import java.awt.event.*;
import java.io.*;
import javax.swing.*;
import java.lang.*;

public class Electricity2 extends JFrame
{
    Label lblpayment;
    JComboBox cb1;
    Button btn1,btn2;
    MyActionListener fm2 = new MyActionListener(this);
    Electricity2()
    {

```

```
super("ELECTRICITY BILLING SYSTEM");  
setLayout(null);  
setBounds(0,0,1000,1000);  
setContentPane(new JLabel(new ImageIcon("A:\\OOP  
Project\\Pgvcl4.jpeg"))));
```

```
lblpayment = new Label("Payment Process");  
String[] choice = {"QR CODE"};  
cb1 = new JComboBox(choice);  
btn1 = new Button("BACK");  
btn2 = new Button("PAY");
```

```
Font f1 = new Font("Times",Font.BOLD,25);  
Font f2 = new Font("Times",Font.BOLD,50);  
lblpayment.setFont(f1);  
cb1.setFont(f2);  
btn1.setFont(f1);  
btn2.setFont(f1);
```

```
add(lblpayment);  
add(cb1);  
add(btn1);  
add(btn2);
```

```
lblpayment.setBounds(400,100,250,50);  
cb1.setBounds(200,400,600,50);  
btn1.setBounds(200,800,150,50);  
btn2.setBounds(400,800,150,50);  
btn1.addActionListener(fm2);  
btn2.addActionListener(fm2);
```

```

        addWindowListener(new WindowAdapter()
        {
            public void windowClosing(WindowEvent we)
            {
                System.exit(0);
            }
        });
    }

    public static void main(String args[])
    {
        Electricity2 fm2 = new Electricity2();
        fm2.setVisible(true);
    }
}

```

5. Frame 5 :-

```

import java.awt.*;
import java.awt.event.*;
import java.io.*;
import javax.swing.*;
import java.lang.*;

public class Electricity3 extends JFrame
{
    MyActionListener fm3 = new MyActionListener(this);
    Electricity3()
    {
        super("QR CODE");
        setLayout(null);
        setBounds(0,0,400,400);
        setContentPane(new JLabel(new ImageIcon("A:\\OOP
Project\\Pgvc15.jpeg")));
    }
}

```

```

addWindowListener(new WindowAdapter()
    {
        public void windowClosing(WindowEvent we)
        {
            dispose();
        }
    });
}

public static void main(String args[])
{
    Electricity3 fm3 = new Electricity3();
    fm3.setVisible(true);
}
}

```

Controller :-

```

import java.awt.*;
import java.awt.event.*;
import java.io.*;
import javax.swing.*;
import java.lang.*;
import java.util.*;

public class MyActionListener implements ActionListener
{
    String Name;
    String MiddleName;
    String Surname;
    String Number;
    String MeterNo;

```

```
String Unit;  
String Address;  
String custNO;  
int count = 0;  
int data=0;
```

```
h) MyActionListener(String a,String b,String c,String d,String e,String f,String g,String  
{  
    this.Name = a;  
    this.MiddleName = b;  
    this.Surname = c;  
    this.Number = d;  
    this.MeterNo = e;  
    this.Unit=f;  
    this.Address=g;  
    this.custNO = h;  
}  
public String toString()  
{  
    return  
this.Name+"#" +this.MiddleName+"#" +this.Surname+"#" +this.Number+"#" +this.MeterNo+"  
#" +this.Unit+"#" +this.Address+"#" +this.custNO;  
}  
String getName()  
{  
    return this.Name;  
}  
String getMiddleName()  
{  
    return this.MiddleName;
```

```
}  
String getSurname()  
{  
    return this.Surname;  
}  
String getNumber()  
{  
    return this.Number;  
}  
String getMeterNo()  
{  
    return this.MeterNo;  
}  
String getUnit()  
{  
    return this.Unit;  
}  
String getAddress()  
{  
    return this.Address;  
}  
String getCustNo()  
{  
    return this.custNO;  
}  
Index mf;  
Electricity fm;  
Electricity1 fm1;  
Electricity2 fm2;  
Electricity3 fm3;
```

```
MyActionListener(Index m)
```

```
{  
    this.mf = m;  
}
```

```
MyActionListener(Electricity f)
```

```
{  
    this.fm = f;  
}
```

```
MyActionListener(Electricity1 f)
```

```
{  
    this.fm1 = f;  
}
```

```
MyActionListener(Electricity2 f)
```

```
{  
    this.fm2 = f;  
}
```

```
MyActionListener(Electricity3 f)
```

```
{  
    this.fm3 = f;  
}
```

```
ArrayList <MyActionListener> bill = new ArrayList<MyActionListener>();
```

```
public void actionPerformed(ActionEvent e)
```

```
{  
    if(e.getActionCommand().equals("Get Bill"))  
    {  
        fm = new Electricity();  
        fm.setVisible(true);  
        mf.setVisible(false);  
    }  
}
```



```

        if(e.getActionCommand().equals("Close"))
        {
            mf.dispose();
        }
        if(e.getActionCommand().equals("Search"))
        {
            fm1 = new Electricity1();
            this.fm1.setVisible(true);
            this.fm.setVisible(false);
            System.out.println(this.fm.txt1.getText());

            try
            {
                File f1=new File("bill.txt");
                Scanner sc=new Scanner(f1);
                while(sc.hasNextLine())
                {
                    sc.nextLine();
                    count++;
                }
            }
            catch(Exception ev)
            {
                System.out.println("ev");
            }
            try
            {
                BufferedReader br = new BufferedReader(new
FileReader("bill.txt"));

                for(int j=0;j<count;j++)
                {

```

```

        String st1=br.readLine();
        String arr[] = st1.split(",");
        bill.add(new
MyActionListener(arr[0],arr[1],arr[2],arr[3],arr[4],arr[5],arr[6],arr[7]));
    }
    br.close();
}
catch(Exception r)
{
    System.out.println(r);
}
for(int i=0;i<bill.size();i++)
{
    int cmp =
bill.get(i).getCustNo().compareTo(this.fm.txt1.getText());
    if(cmp==0)
    {
        System.out.println(" corresponing details \n" +
bill.get(i));

        this.fm1.txtName.setText(bill.get(i).getName());

        this.fm1.txtMiddleName.setText(bill.get(i).getMiddleName());

        this.fm1.txtSurname.setText(bill.get(i).getSurname());
        this.fm1.txtNumber.setText(bill.get(i).getNumber());
        this.fm1.txtMeter.setText(bill.get(i).getMeterNo());
        this.fm1.txtUnit.setText(bill.get(i).getUnit());
        this.fm1.txtAddress.setText(bill.get(i).getAddress());
        float a = (Integer.parseInt(bill.get(i).getUnit()))*5;
        float gst = (a*18)/100;
        a = a+gst;
        this.fm1.txtTotal.setText(String.valueOf(a));
        this.fm1.txtTotal.setText(String.valueOf(a));
    }
}

```

```

        data=1;
    }
}
if(data==0)
{
    JOptionPane.showMessageDialog(fm,"Enter Valid
Coustomer Number ","Error", JOptionPane.INFORMATION_MESSAGE);
}
}
if(e.getActionCommand().equals("BaCk"))
{
    mf = new Index();
    this.mf.setVisible(true);
    this.fm.setVisible(false);
}
if(e.getActionCommand().equals("Next"))
{
    fm2 = new Electricity2();
    this.fm2.setVisible(true);
    this.fm1.setVisible(false);
}
if(e.getActionCommand().equals("Back"))
{
    fm = new Electricity();
    this.fm.setVisible(true);
    this.fm1.setVisible(false);
}
if(e.getActionCommand().equals("BACK"))
{
    fm1 = new Electricity1();
    this.fm1.setVisible(true);
}

```

```

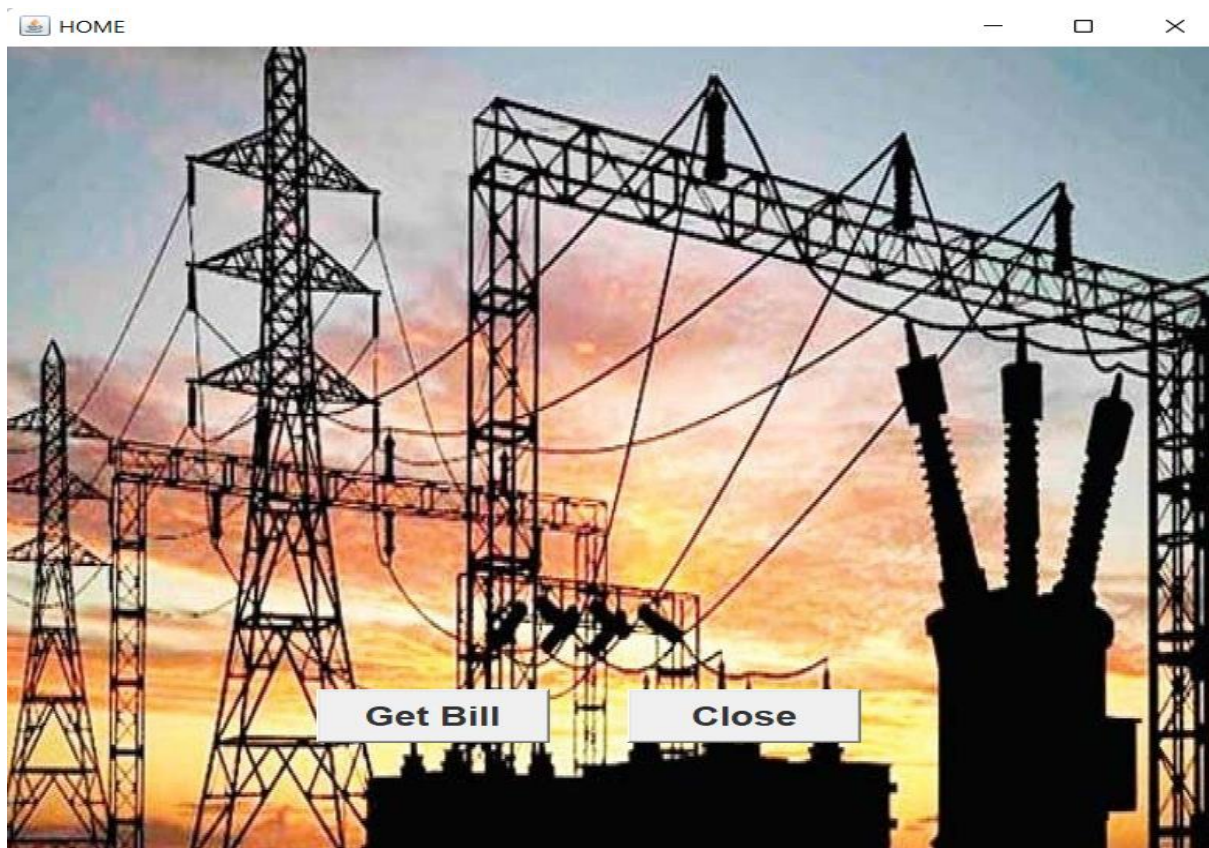
        this.fm2.setVisible(false);
    }
    if(e.getActionCommand().equals("PAY"))
    {
        fm3 = new Electricity3();
        this.fm3.setVisible(true);
        this.fm2.setVisible(false);
    }
}

public static void main(String[] args) throws Exception
{

}
}

```

Photos :-



Customer Num :

777

PGVCL

BaCk

Search

Your Bill Detail

Name	Aniket
Middlename	P.
Surname	Solanki
Number	6356056120
Meter No.	07
Unit	200
Address	Vaniyavadi No.8
Total	1180.0

Back

Next

