

BANK MANAGEMENT SYSTEM SOFTWARE USING JAVA

//Login class Source code

```
package bank.management.system;

import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import java.sql.*;

public class Login extends JFrame implements ActionListener {

    //Global declaration of button
    JButton login, reg, emp, adm;
    JPasswordField pinTextField;
    JTextField username,PinTextField;

    Login(){
        setTitle(" BANK MANAGEMANT SYSTEM ");
        setSize(700,550);
        setLocation(350,150);

        setLayout(null);
        ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icons/main logo.jpg")); //Logo path
        setting
        Image i2 = i1.getImage().getScaledInstance(100, 100, Image.SCALE_DEFAULT); //logo placing
        ImageIcon i3= new ImageIcon(i2);
```

```
JLabel label1 = new JLabel(i3);
label1.setBounds(200,10,100,100);// V BANKING modifier
add(label1);

JLabel text=new JLabel("V BANKING");
text.setFont(new Font("Osward", Font.BOLD, 38));// Font modifier
text.setBounds(300, 40, 300, 40);
add(text);

JLabel userid=new JLabel("USER ID");
userid.setFont(new Font("Raleway",Font.PLAIN, 18));// Font modifier
userid.setBounds(120, 150, 400, 40);
add(userid);

username = new JTextField();
username.setBounds(300,155,250,30);

username.setFont(new Font("Arial",Font.BOLD,14));
add(username);

JLabel password=new JLabel("PASSWORD");
password.setFont(new Font("Raleway", Font.PLAIN, 18));// Font modifier
password.setBounds(120, 220, 400, 40);
add(password);
```

```
PinTextField = new JPasswordField();

PinTextField.setBounds(300,225,250,30);

PinTextField.setFont(new Font("Arial",Font.BOLD,14));

add(PinTextField);

login = new JButton("SIGN IN");

login.setBounds(300,300,100,30);

login.addActionListener(this);

add(login);

// colouring the sign in button

login.setBackground(Color.BLACK);

login.setForeground(Color.WHITE);

reg = new JButton("SIGN UP");

reg.setBounds(300,350,100,30);

reg.addActionListener(this);

add(reg);

emp = new JButton("EMPLOYEE");

emp.setBounds(240,420,100,30);

emp.addActionListener(this);

add(emp);

adm = new JButton("ADMIN");
```

```
adm.setBounds(360,420,100,30);

adm.addActionListener(this);

add(adm);

getContentPane().setBackground(Color.WHITE);//Changing frame background

setVisible(true);

}

public void actionPerformed(ActionEvent e) {

if(e.getSource()== login){

jdbc_connection c =new jdbc_connection();

String userid1 = username.getText();

String pinnumber = PinTextField.getText();

String query= "select * from Login where userid = "+userid1+" and password1 = "+pinnumber+"";

try{

ResultSet rs = c.s.executeQuery(query);

if(rs.next()){

setVisible(false);

new transactions(pinnumber).setVisible(true);

}else{

JOptionPane.showMessageDialog(null, "Incorrect User id or Password");

}

}

}catch(Exception ea){
```

```

        System.out.println(ea);

    }

}else if(e.getSource()==reg){

    setVisible(false);

    new Customersignup().setVisible(true);

}else if(e.getSource()==emp){

    setVisible(false);

    new EmployeeLogin().setVisible(true);

}else if(e.getSource()==adm){

    setVisible(false);

    new AdminLogin().setVisible(true);

}

}

public static void main(String[] args) {

    new Login();

}

}

```

//Customersignup class Source code

```

package bank.management.system;

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

```

```
import javax.swing.*;  
  
public class Customersignup extends JFrame implements ActionListener {  
  
    JTextField customer,password1,dob1,email1,acc1,userid1,pas1,pas2,address1,pincode1;  
  
    JRadioButton male,female;  
  
    JButton submit,back;  
  
  
    Customersignup(){  
  
        JLabel emp=new JLabel("CUSTOMER DETAILS");  
  
        emp.setBounds(250, 50, 500, 80);  
  
        emp.setFont(new Font("Raleway",Font.BOLD,28));  
  
        add(emp);  
  
  
        JLabel id=new JLabel("NAME:");  
  
        id.setBounds(150, 50, 600, 200);  
  
        id.setFont(new Font("Raleway",Font.PLAIN,18));  
  
        add(id);  
  
  
        customer =new JTextField();  
  
        customer.setBounds(360, 135, 280, 30);  
  
        customer.setFont(new Font("Raleway",Font.PLAIN,18));  
  
        add(customer);  
  
  
        JLabel pass=new JLabel("FATHER'S NAME: ");  
  
        pass.setBounds(150, 50, 600, 300);
```

```
pass.setFont(new Font("Raleway",Font.PLAIN,18));  
add(pass);  
  
password1=new JTextField();  
password1.setBounds(360, 185, 280, 30);  
password1.setFont(new Font("Raleway",Font.PLAIN,18));  
add(password1);  
  
JLabel name=new JLabel("GENDER");  
name.setBounds(150, 50, 600, 400);  
name.setFont(new Font("Raleway",Font.PLAIN,18));  
add(name);  
  
male=new JRadioButton("MALE");  
male.setBounds(360, 235, 100, 30);  
add(male);  
  
female=new JRadioButton("FEMALE");  
female.setBounds(480, 235, 100, 30);  
add(female);  
  
JLabel pos=new JLabel("DATE OF BIRTH:");  
pos.setBounds(150, 50, 600, 500);  
pos.setFont(new Font("Raleway",Font.PLAIN,18));  
add(pos);
```

```
dob1=new JTextField();
dob1.setBounds(360, 285, 200, 30);
dob1.setFont(new Font("Raleway",Font.PLAIN,18));
add(dob1);

JLabel email=new JLabel("EMAIL:");
email.setBounds(150, 50, 600, 600);
email.setFont(new Font("Raleway",Font.PLAIN,18));
add(email);

email1=new JTextField();
email1.setBounds(360, 335, 280, 30);
email1.setFont(new Font("Raleway",Font.PLAIN,18));
add(email1);

JLabel acc=new JLabel("ACCOUNT TYPE:");
acc.setBounds(150, 50, 600, 700);
acc.setFont(new Font("Raleway",Font.PLAIN,18));
add(acc);

acc1=new JTextField();
acc1.setBounds(360, 385, 280, 30);
acc1.setFont(new Font("Raleway",Font.PLAIN,18));
add(acc1);
```

```
JLabel userid=new JLabel("USER ID:");
userid.setBounds(150, 50, 600, 800);
userid.setFont(new Font("Raleway",Font.PLAIN,18));
add(userid);

userid1=new JTextField();
userid1.setBounds(360, 435, 280, 30);
userid1.setFont(new Font("Raleway",Font.PLAIN,18));
add(userid1);

JLabel pass1=new JLabel("PASSWORD:");
pass1.setBounds(150, 50, 600, 900);
pass1.setFont(new Font("Raleway",Font.PLAIN,18));
add(pass1);

pas1=new JTextField();
pas1.setBounds(360, 485, 280, 30);
pas1.setFont(new Font("Raleway",Font.PLAIN,18));
add(pas1);

JLabel pass2=new JLabel("COMFIRM PASSWORD:");
pass2.setBounds(150, 50, 600, 1000);
pass2.setFont(new Font("Raleway",Font.PLAIN,18));
```

```
add(pass2);

pas2=new JTextField();
pas2.setBounds(360, 535, 280, 30);
pas2.setFont(new Font("Raleway",Font.PLAIN,18));
add(pas2);

JLabel addr1=new JLabel("ADDRESS:");
addr1.setBounds(150, 50, 600, 1100);
addr1.setFont(new Font("Raleway",Font.PLAIN,18));
add(addr1);

address1=new JTextField();
address1.setBounds(360, 585, 280, 30);
address1.setFont(new Font("Raleway",Font.PLAIN,18));
add(address1);

JLabel pinn=new JLabel("PIN CODE:");
pinn.setBounds(150, 50, 600, 1200);
pinn.setFont(new Font("Raleway",Font.PLAIN,18));
add(pinn);

pincode1=new JTextField();
pincode1.setBounds(360, 635, 280, 30);
pincode1.setFont(new Font("Raleway",Font.PLAIN,18));
```

```
add(pincode1);

setLayout(null);
getContentPane().setBackground(Color.WHITE) ;
setSize(800,800);
setLocation(350,10);
setVisible(true);

submit=new JButton("Submit");
submit.setBounds(250, 685, 150, 30);
submit.addActionListener(this);
add(submit);

back=new JButton("Back");
back.setBounds(450, 685, 100, 30);
back.addActionListener(this);
add(back);

}

public void actionPerformed(ActionEvent ae){

String cosm1 = customer.getText(); //getText is used to get the text from textField.

String fathername = password1.getText();

String dob = dob1.getText();

String mailid = email1.getText();

String acctype = acc1.getText();
```

```
String userid = userid1.getText();
String password1 = pas1.getText();
String password2 = pas2.getText();
String address = address1.getText();
String pincode = pincode1.getText();

if(ae.getSource() == back){
    setVisible(false);
    new Login().setVisible(true);
}

try{
    if(cosm1.equals("")){
        JOptionPane.showMessageDialog(null, "Customer Name Is Required");
    }else if(fathername.equals("")){
        JOptionPane.showMessageDialog(null, "Father Name Is Required");
    }else if(dob.equals("")){
        JOptionPane.showMessageDialog(null, "DOB Is Required");
    }else if(mailid.equals("")){
        JOptionPane.showMessageDialog(null, "Mail Id Required");
    }else if(acctype.equals("")){
        JOptionPane.showMessageDialog(null, "Specify Accountt Type");
    }else if(userid.equals("")){
        JOptionPane.showMessageDialog(null, "User Id Is Required");
    }else if(password1.equals("")){
        JOptionPane.showMessageDialog(null, "Password Is Required");
    }else if(password2.equals("")){

```

```
JOptionPane.showMessageDialog(null, "Password Confirmation Required");

}else if(address.equals("")){

    JOptionPane.showMessageDialog(null, "Address Is Required");

}else if(pincode.equals("")){

    JOptionPane.showMessageDialog(null, "Specify Pincode");

}else{

    jdbc_connection c =new jdbc_connection();

    String query1 = "insert into signupcustomer values(\""+cosm1+"",
    "+fathername+"",""+dob+"",""+mailid+"",""+acctype+"",""+userid+"",""+password1+"",""+password2+"",""+a
    ddress+"",""+pincode+"")";

    String query2 = "insert into Login values(\""+userid+"",""+password1+"")";

    c.s.executeUpdate(query1);

    c.s.executeUpdate(query2);

    JOptionPane.showMessageDialog(null, "Registered Successfully!");

    setVisible(false);

    new Login().setVisible(true);

}

} catch (Exception e){

    System.out.println(e);

}

}

public static void main(String[] args) {

    new Customersignup();

}

}
```

//EmployeeLogin class source code

```
package bank.management.system;

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

public class EmployeeLogin extends JFrame implements ActionListener {

    JTextField empid1,PinTextField,name1,pos1;
    JButton log;

    EmployeeLogin(){
        JLabel emp=new JLabel("EMPLOYEE LOGIN");
        emp.setBounds(250, 50, 500, 80);
        emp.setFont(new Font("Raleway",Font.BOLD,28));
        add(emp);

        JLabel id=new JLabel("EMPLOYEE ID");
        id.setBounds(150, 50, 600, 200);
        id.setFont(new Font("Raleway",Font.PLAIN,18));
        add(id);
```

```
empid1=new JTextField();
empid1.setBounds(320, 135, 280, 30);
empid1.setFont(new Font("Raleway",Font.PLAIN,18));
add(empid1);

JLabel pass=new JLabel("PASSWORD");
pass.setBounds(150, 50, 600, 300);
pass.setFont(new Font("Raleway",Font.PLAIN,18));
add(pass);

PinTextField = new JPasswordField();
PinTextField.setBounds(320,185,280,30);

PinTextField.setFont(new Font("Arial",Font.BOLD,14));
add(PinTextField);

JLabel name=new JLabel("EMPLOYEE NAME");
name.setBounds(150, 50, 600, 400);
name.setFont(new Font("Raleway",Font.PLAIN,18));
add(name);

name1=new JTextField();
name1.setBounds(320, 235, 280, 30);
name1.setFont(new Font("Raleway",Font.PLAIN,18));
```

```
add(name1);

JLabel pos=new JLabel("POSITION");
pos.setBounds(150, 50, 600, 500);
pos.setFont(new Font("Raleway",Font.PLAIN,18));
add(pos);

pos1=new JTextField();
pos1.setBounds(320, 285, 280, 30);
pos1.setFont(new Font("Raleway",Font.PLAIN,18));
add(pos1);

log=new JButton("LOGIN");
log.setBounds(320, 350, 150, 30);
//button Colouring
log.setBackground(Color.BLACK);
log.setForeground(Color.WHITE);
log.addActionListener(this);
add(log);

setLayout(null);
getContentPane().setBackground(Color.WHITE) ;
setSize(800,550);
setLocation(300,150);
```

```
setVisible(true);

}

public void actionPerformed(ActionEvent ae){

    String empid = empid1.getText(); //getText is used to get the text from textField.

    String pass = PinTextField.getText();

    String name = name1.getText();

    String position = pos1.getText();

    try{

        if(empid.equals("")){

            JOptionPane.showMessageDialog(null, "Employee Id Required");

        }else if(pass.equals("")){

            JOptionPane.showMessageDialog(null, "Password Required");

        }else if(name.equals("")){

            JOptionPane.showMessageDialog(null, "Name Required");

        }else if(position.equals("")){

            JOptionPane.showMessageDialog(null, "Name Required");

        }else{

            jdbc_connection c=new jdbc_connection();

            String query1 = "insert into signupEmp values(\""+empid+"','"+pass+"','"+name+"','"+position+"\")";

            String query2 = "insert into Login values(\""+empid+"','"+pass+"\")";

            c.s.executeUpdate(query1);

            c.s.executeUpdate(query2);

        }

    }

}
```

```
}

}catch (Exception e){

    System.out.println(e);

}

if(ae.getSource()== log){

    setVisible(false);

    new transactions(pass).setVisible(true);

}

}

public static void main(String[] args) {

    new EmployeeLogin();

} }
```

//AdminLogin class Source code

```
package bank.management.system;

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

public class AdminLogin extends JFrame implements ActionListener {

    JTextField adm1,PinTextField,nam1;
    JButton log;
    AdminLogin(){

```

```
JLabel emp=new JLabel("ADMIN LOGIN");
emp.setBounds(250, 50, 500, 80);
emp.setFont(new Font("Raleway",Font.BOLD,28));
add(emp);

JLabel id=new JLabel("ADMIN ID");
id.setBounds(150, 50, 600, 200);
id.setFont(new Font("Raleway",Font.PLAIN,18));
add(id);

adm1=new JTextField();
adm1.setBounds(320, 135, 280, 30);
adm1.setFont(new Font("Raleway",Font.PLAIN,18));
add(adm1);

JLabel pass=new JLabel("PASSWORD");
pass.setBounds(150, 50, 600, 300);
pass.setFont(new Font("Raleway",Font.PLAIN,18));
add(pass);

PinTextField = new JPasswordField();
PinTextField.setBounds(320,185,280,30);

PinTextField.setFont(new Font("Arial",Font.BOLD,14));
```

```
add(PinTextField);

JLabel pos=new JLabel("NAME");
pos.setBounds(150, 50, 600, 400);
pos.setFont(new Font("Raleway",Font.PLAIN,18));
add(pos);

nam1=new JTextField();
nam1.setBounds(320, 235, 280, 30);
nam1.setFont(new Font("Raleway",Font.PLAIN,18));
add(nam1);

log=new JButton("LOGIN");
log.setBounds(320, 280, 150, 30);
//button Colouring
log.setBackground(Color.BLACK);
log.setForeground(Color.WHITE);
log.addActionListener(this);
add(log);

setLayout(null);
getContentPane().setBackground(Color.WHITE) ;
setSize(800,550);
setLocation(300,150);
```

```

        setVisible(true);

    }

    public void actionPerformed(ActionEvent ae){

        String admid = adm1.getText(); //getText is used to get the text from textField.

        String pass = PinTextField.getText();

        String name = nam1.getText();

        if(ae.getSource()==log){

            setVisible(false);

            new admin_interface().setVisible(true);

        }

    }

    try{

        if(admid.equals("")){

            JOptionPane.showMessageDialog(null, "Admin Id Required");

        }else if(pass.equals("")){

            JOptionPane.showMessageDialog(null, "Password Required");

        }else if(name.equals("")){

            JOptionPane.showMessageDialog(null, "Name Required");

        }else{

            jdbc_connection c=new jdbc_connection();

            String query1 = "insert into signupAdm values('"+admid+"','"+pass+"','"+name+"')";

            c.s.executeUpdate(query1);

        }

    }catch (Exception e){


```

```
        System.out.println(e);
    }
}

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

}
```

//transactions class Source code

```
package bank.management.system;

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

public class transactions extends JFrame implements ActionListener {

    JButton deposit,withdraw,pinchange,balance,exit;
    String pinnumber;
    transactions(String pinnumber){
        this.pinnumber = pinnumber;
        setLayout(null);
```

```
ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icons/main_tbg.jpg")); //Logo path setting

Image i2 = i1.getImage().getScaledInstance(900, 900, Image.SCALE_DEFAULT); //logo placing

ImageIcon i3= new ImageIcon(i2);

JLabel image = new JLabel(i3);

image.setBounds(0,0,900,900);

add(image);

JLabel text1 =new JLabel("Welcome To V Online BANKING ");

text1.setBounds(222,80,700,35);

text1.setForeground(Color.WHITE);

text1.setFont(new Font("System", Font.BOLD, 30));

image.add(text1);

JLabel text2 =new JLabel("Please Select Your Transaction");

text2.setBounds(250,150,700,35);

text2.setForeground(Color.WHITE);

text2.setFont(new Font("System", Font.BOLD, 25));

image.add(text2);

deposit =new JButton("Deposit");

deposit.setBounds(160, 250, 200, 50);

deposit.addActionListener(this);

image.add(deposit);

withdraw =new JButton("Withdraw");
```

```
withdraw.setBounds(160, 350, 200, 50);
withdraw.addActionListener(this);
image.add(withdraw);

pinchange =new JButton("Pin Change");
pinchange.setBounds(520, 250, 200, 50);
pinchange.addActionListener(this);
image.add(pinchange);

balance =new JButton("Balance Enquiry");
balance.setBounds(520, 350, 200, 50);
balance.addActionListener(this);
image.add(balance);

exit =new JButton("Exit");
exit.setBounds(360, 450, 160, 50);
exit.addActionListener(this);
image.add(exit);

setTitle(" BANK MANAGEMANT SYSTEM ");
setSize(900,900);
setLocation(230,0);
setUndecorated(true);
setVisible(true);
```

```
}
```

```
public void actionPerformed(ActionEvent ae){  
    if (ae.getSource()== exit ){  
        System.exit(0);  
    }else if(ae.getSource()== deposit){  
        setVisible(false);  
        new deposit(pinnumber).setVisible(true);  
    }else if(ae.getSource()== withdraw){  
        setVisible(false);  
        new withdrawal(pinnumber).setVisible(true);  
    }  
    else if(ae.getSource()== balance){  
        setVisible(false);  
        new balance(pinnumber).setVisible(true);  
    }  
}
```

```
public static void main(String[] args) {  
    new transactions("");  
}
```

//deposit class Source code

```
package bank.management.system;

import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;
import java.util.*;

public class deposit extends JFrame implements ActionListener{

    JTextField amount;
    JButton deposit,backb;
    String pinnumber;

    deposit(String pinnumber){
        this.pinnumber = pinnumber;
        setLayout(null);

        ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icons/main_tbg.jpg")); //Logo path setting
        Image i2 = i1.getImage().getScaledInstance(900, 900, Image.SCALE_DEFAULT); //logo placing
        ImageIcon i3= new ImageIcon(i2);
        JLabel image = new JLabel(i3);
        image.setBounds(0,0,900,900);
        add(image);
    }

    public void actionPerformed(ActionEvent e) {
        if(e.getSource() == deposit) {
            String amountString = amount.getText();
            if(amountString.isEmpty()) {
                JOptionPane.showMessageDialog(this, "Please enter an amount");
            } else {
                double amountDouble = Double.parseDouble(amountString);
                if(amountDouble < 0) {
                    JOptionPane.showMessageDialog(this, "Amount cannot be negative");
                } else {
                    JOptionPane.showMessageDialog(this, "Deposit successful");
                }
            }
        }
    }
}
```

```
JLabel text=new JLabel("Enter The Amount To Be Deposited");
text.setForeground(Color.WHITE);
text.setFont(new Font("System",Font.BOLD,30));
text.setBounds(200,80,700,35);
image.add(text);

amount = new JTextField();
amount.setBounds(300,200,300,50);
amount.setFont(new Font("Raleway",Font.BOLD,30));
image.add(amount);

deposit =new JButton("Deposit");
deposit.setBounds(350, 300, 200, 50);
deposit.addActionListener(this);
image.add(deposit);

backb =new JButton("Back");
backb.setBounds(350, 400, 200, 50);
backb.addActionListener(this);
image.add(backb);
```

```
setTitle(" BANK MANAGEMANT SYSTEM ");

setSize(900,900);

 setLocation(230,0);

//setUndecorated(true);

setVisible(true);

}

public void actionPerformed(ActionEvent ae){

try{

if(ae.getSource()==deposit)

{

String amountvalue=amount.getText();

Date date=new Date();

if(amountvalue.equals(""))

{

JOptionPane.showMessageDialog(null,"Please Enter The Valid Amount!");

}else

{



jdbc_connection c=new jdbc_connection();

String query2 = "insert into bank
values(""+pinnumber+"','"+date+"','Deposit','"+amountvalue+"')";

c.s.executeUpdate(query2);

JOptionPane.showMessageDialog(null,"Rs "+amountvalue+" Deposited Successfully");

setVisible(false);

new transactions(pinnumber).setVisible(true);

}
```

```
    }

}else if(ae.getSource()==backb){

    setVisible(false);

    new transactions(pinnumber).setVisible(true);

}

}

}catch(Exception e){

    System.out.println(e);

}

}

public static void main(String[] args) {

    new deposit("");

}



---

//withdrawal class Source code  
  
package bank.management.system;

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

```
import java.awt.event.ActionListener;
import javax.swing.*;
import java.util.*;

public class withdrawal extends JFrame implements ActionListener {

    JTextField amount;
    JButton withdraw, backb;
    String pinnumber;

    withdrawal(String pinnumber) {
        this.pinnumber = pinnumber;

        setLayout(null);

        ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icons/main_tbg.jpg")); //Logo path
        setting
        Image i2 = i1.getImage().getScaledInstance(900, 900, Image.SCALE_DEFAULT); //logo placing
        ImageIcon i3 = new ImageIcon(i2);
        JLabel image = new JLabel(i3);
        image.setBounds(0, 0, 900, 900);
        add(image);

        JLabel text = new JLabel("Enter The Amount To Be Waithdrawn");
        text.setForeground(Color.WHITE);
        text.setFont(new Font("System", Font.BOLD, 30));
```

```
text.setBounds(200, 80, 700, 35);

image.add(text);

amount = new JTextField();

amount.setBounds(300, 200, 300, 50);

amount.setFont(new Font("Raleway", Font.BOLD, 30));

image.add(amount);

withdraw = new JButton("Withdraw");

withdraw.setBounds(350, 300, 200, 50);

withdraw.addActionListener(this);

image.add(withdraw);

backb = new JButton("Back");

backb.setBounds(350, 400, 200, 50);

backb.addActionListener(this);

image.add(backb);

setTitle(" BANK MANAGEMANT SYSTEM ");

setSize(900, 900);

 setLocation(230, 0);

//setUndecorated(true);

setVisible(true);

}
```

```

public void actionPerformed(ActionEvent ae) {
    try {
        if (ae.getSource() == withdraw) {
            String amountvalue = amount.getText();
            Date date = new Date();

            if (amountvalue.equals("")) {
                JOptionPane.showMessageDialog(null, "Please Enter The Valid Amount <= 10,000");
            } else if (Integer.parseInt(amountvalue) <= getBalance()) {
                JOptionPane.showMessageDialog(null, "Insufficient Balance or Invalid Amount");
            } else {
                jdbc_connection c = new jdbc_connection();
                String query2 = "insert into bank values('" + pinnumber + "','" + date + "','"Waithdraw','" +
amountvalue + "')";
                c.s.executeUpdate(query2);
                JOptionPane.showMessageDialog(null, "Rs " + amountvalue + "/- Waithdrawn Successfully");
                setVisible(false);
                new transactions(pinnumber).setVisible(true);
            }
        } else if (ae.getSource() == backb) {
            setVisible(false);
            new transactions(pinnumber).setVisible(true);
        }
    } catch (Exception e) {
        System.out.println(e);
    }
}

```

```
        }

    }

public static void main(String[] args) {
    new withdrawal("");
}

private int getBalance() {
    // Implement code to retrieve the current balance from the database
    // using the provided PIN number
    int balance = 0; // Replace with actual balance retrieval logic
    return balance;
}
```

//balance class Source code

```
package bank.management.system;

import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import java.util.*;
import java.sql.*;

public class balance extends JFrame implements ActionListener{
```

```
JButton backb;  
  
String pinnumber;  
  
balance(String pinnumber){  
    this.pinnumber = pinnumber;  
  
    setLayout(null);  
  
    ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icons/main_tbg.jpg")); //Logo path  
    setting  
  
    Image i2 = i1.getImage().getScaledInstance(900, 900, Image.SCALE_DEFAULT); //logo placing  
  
    ImageIcon i3= new ImageIcon(i2);  
  
    JLabel image = new JLabel(i3);  
  
    image.setBounds(0,0,900,900);  
  
    add(image);  
  
    jdbc_connection c=new jdbc_connection();  
  
    int balance=0;  
  
    try{  
  
        ResultSet rs=c.s.executeQuery("select * from bank where pin ="+pinnumber+""");  
  
        while (rs.next()){  
            if(rs.getString("type").equals("Deposit")){  
                balance += Integer.parseInt(rs.getString("amount"));  
            }else{  
                if(balance < 0){  
                    System.out.println("Insufficient Balance");  
                }  
            }  
        }  
    }catch(Exception e){  
        e.printStackTrace();  
    }  
}
```

```
        break;

    }else{

        balance -= Integer.parseInt(rs.getString("amount"));

    }

}

}

}catch(Exception e){

    System.out.println(e);

}

JLabel text=new JLabel("Your Current Account Balance is Rs "+balance+/-");

text.setForeground(Color.WHITE);

text.setFont(new Font("System",Font.BOLD,30));

text.setBounds(150,250,700,35);

image.add(text);

backb =new JButton("Back");

backb.setBounds(350, 400, 200, 50);

backb.addActionListener(this);

image.add(backb);

setTitle(" BANK MANAGEMANT SYSTEM ");

setSize(900,900);

setLocation(230,0);
```

```
//setUndecorated(true);

setVisible(true);

}

@Override

public void actionPerformed(ActionEvent ae) {

if(ae.getSource()==backb){

setVisible(false);

new transactions(pinnumber).setVisible(true);

}

}

public static void main(String[] args) {

new balance("");

}

}
```

```
//balance class Source code

package bank.management.system;

import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import java.util.*;
import java.sql.*;
```

```
public class balance extends JFrame implements ActionListener{



JButton backb;

String pinnumber;



balance(String pinnumber){

    this.pinnumber = pinnumber;

    setLayout(null);





ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("icons/main_tbg.jpg")); //Logo path
setting

    Image i2 = i1.getImage().getScaledInstance(900, 900, Image.SCALE_DEFAULT); //logo placing

    ImageIcon i3= new ImageIcon(i2);

    JLabel image = new JLabel(i3);

    image.setBounds(0,0,900,900);

    add(image);





jdbc_connection c=new jdbc_connection();

int balance=0;

try{

    ResultSet rs=c.s.executeQuery("select * from bank where pin ='"+pinnumber+"'");





while (rs.next()){


```

```
if(rs.getString("type").equals("Deposit")){
    balance += Integer.parseInt(rs.getString("amount"));

}else{
    if(balance < 0){
        System.out.println("Insufficient Balance");

        break;
    }else{
        balance -= Integer.parseInt(rs.getString("amount"));
    }
}

}

}catch(Exception e){
    System.out.println(e);
}

JLabel text=new JLabel("Your Current Account Balance is Rs "+balance+"/-");
text.setForeground(Color.WHITE);
text.setFont(new Font("System",Font.BOLD,30));
text.setBounds(150,250,700,35);
image.add(text);

backb =new JButton("Back");
backb.setBounds(350, 400, 200, 50);
backb.addActionListener(this);
```

```
image.add(backb);

setTitle(" BANK MANAGEMANT SYSTEM ");

setSize(900,900);

 setLocation(230,0);

//setUndecorated(true);

setVisible(true);
```

```
}
```

```
@Override
```

```
public void actionPerformed(ActionEvent ae) {

if(ae.getSource()==backb){

setVisible(false);

new transactions(pinnumber).setVisible(true);

}

}

public static void main(String[] args) {

new balance("");

}

}
```

```
//admin_interface class Source code
```

```
package bank.management.system;

import java.awt.Color;
```

```
import java.awt.Font;
import javax.swing.*;
import java.sql.*;

public class admin_interface extends JFrame {

    admin_interface(){
        setTitle("Database");
        setLayout(null);

        JLabel mini1 = new JLabel();
        add(mini1);

        JLabel mini2 = new JLabel();
        add(mini2);

        JLabel bank = new JLabel("V Bank");
        bank.setBounds(250,80,100,20);
        bank.setFont(new Font("Raleway",Font.BOLD,28));
        add(bank);

        JLabel userlab = new JLabel("Customer Id      |      Customer Name");
        userlab.setBounds(50,200,300,20);
```

```
add(userlab);

JLabel userlab_line = new JLabel("_____");
userlab_line.setBounds(50,205,250,20);
add(userlab_line);

JLabel emp1 = new JLabel("Employee Id | Employee Name | Position");
emp1.setBounds(300,200,300,20);
add(emp1);

JLabel emp_line = new JLabel("_____");
emp_line.setBounds(300,205,300,20);
add(emp_line);

JLabel card=new JLabel();
card.setBounds(280,150,300,60);
add(card);

//Customer details retrieval

try{
jdbc_connection c=new jdbc_connection();
ResultSet rs= c.s.executeQuery("select * from signupcustomer");
while(rs.next()){

```

```
mini1.setText(mini1.getText()+"<html>"+rs.getString("userid")+"&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;"+ rs.getString("cosm1")+"<br><br><html>");

}

}catch(Exception e){

System.out.println(e);

}

mini1.setBounds(50,10,400,500);

//Employee details retrieval

try{

jdbc_connection c=new jdbc_connection();

ResultSet rs= c.s.executeQuery("select * from signupEmp");

while(rs.next()){

mini2.setText(mini2.getText()+"<html>"+rs.getString("empid")+"&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;"+

rs.getString("name")+"&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;"+

rs.getString("position")+"<br><br><html>");

}

}catch(Exception e){

System.out.println(e);

}
```

```
}

mini2.setBounds(300,10,400,500);

setSize(680,750);

setLocation(450,0);

getContentPane().setBackground(Color.WHITE);

setVisible(true);

}

public static void main(String[] args) {

    new admin_interface();

}

}



---


```

//jdbc_connection class Source code

```
package bank.management.system;
```

```
import java.sql.*;
```

```
public class jdbc_connection {
```

```
    Connection c;
```

```
    //creating Statement
```

```

Statements s;

public jdbc_connection(){

    try{//NO need of Registering to the driver because the imported library(mysql-connector-java) done
that task.

        //creating connection

        c =
DriverManager.getConnection("jdbc:mysql://bankmanagementsystem","root","ramupalla912@2002");

        s= c.createStatement();

    } catch(Exception en){

        System.out.println(en);

    }

}

```

//My SQL commands

- ➔ **create database bankmanagementsystem;**
- ➔ **use bankmanagementsystem;**
- ➔ **show tables;**

- ➔ **create table Login(userid varchar(50), password1 varchar(20));**
- ➔ **select * from Login;**

- ➔ **create table signupcustomer(cosm1 varchar(20), fathername varchar(20), dob varchar(20),
mailid varchar(50), acctype varchar(20), userid varchar(20), password1 varchar(20), password2
varchar(20), address varchar(20), pincode varchar(20));**

- ➔ **select * from signupcustomer;**

→ **create table signupEmp(empid varchar(20), pass varchar(20), name varchar(20), position varchar(20));**
→ **select * from signupEmp;**

→ **create table signupAdm(adminid varchar(20), pass varchar(20), name varchar(20));**
→ **select * from signupAdm;**

→ **create table bank(pin varchar(20), date varchar(50), type varchar(20), amount varchar(20));**
→ **select * from bank;**