

# 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.getResource("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("Oswald", 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 Pasword");

            }

        }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("CONFIRM 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(pincod1);

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 fathename = 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(pincod.equals("")){
        JOptionPane.showMessageDialog(null, "Specify Pincod");
    }else{
        jdbc_connection c =new jdbc_connection();

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

        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.getResource("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.getResource("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 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+" Depositted 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.getResource("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.getResource("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("");
    }
}

```

---

//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.getResource("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 retrival
```

```
try{
```

```
jdbc_connection c=new jdbc_connection();
```

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

```
while(rs.next()){
```



```

    }

    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

```

Statement 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), fathename 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;