

# BANK MANAGEMENT SYSTEM USING JAVA

## Frames:

### Login Frame:

- I. Login
- II. SignupOne
- III. SignupTwo
- IV. SignupThree

### Transactions Frame:

- I. Transactions
- II. Deposit
- III. Withdrawl
- IV. FastCash
- V. MiniStatement
- VI. PinChange
- VII. BlanceEnquiry

### Connection Frame:

- I. Conn

## Source codes:

### Login Frames:

#### Login.java:

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

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

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

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

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

```
public class Login extends JFrame implements ActionListener{
```

```
    JButton login, clear, signup;
```

```

JTextField cardTextField;
JPasswordField pinTextField;

Login(){
    setTitle("AUTOMATED TELLER MACHINE");
    setLayout(null);

    ImageIcon i1 = new ImageIcon(ClassLoader.getResource("icons/logo.jpg"));
    Image i2 = i1.getImage().getScaledInstance(100,100,Image.SCALE_DEFAULT);
    ImageIcon i3 = new ImageIcon(i2);
    JLabel label = new JLabel(i3);
    label.setBounds(70,10,100,100);
    add(label);

    JLabel text = new JLabel("Welcome to ATM");
    add(text);
    text.setFont(new Font("Oswald",Font.BOLD,38));
    text.setBounds(200,40,400,40);


    JLabel cardno = new JLabel("Card No:");
    cardno.setFont(new Font("Raleway",Font.BOLD,28));
    cardno.setBounds(120,150,150,30);
    add(cardno);

    cardTextField = new JTextField();
    cardTextField.setBounds(300,150,230,30);
    cardTextField.setFont(new Font("Arial", Font.BOLD,14));
    add(cardTextField);


    JLabel pin = new JLabel("PIN:");
    add(pin);

    pinTextField = new JPasswordField();
    pinTextField.setBounds(300,220,230,30);
    pinTextField.setFont(new Font("Arial", Font.BOLD,14));
}
```

```
add(pinTextField);
```

```
login = new JButton("SIGN IN");  
login.setBounds(300,300,100,30);  
login.setBackground(Color.BLACK);  
login.setForeground(Color.WHITE);  
login.addActionListener(this);  
add(login);
```

```
clear = new JButton("CLEAR");  
clear.setBounds(430,300,100,30);  
clear.setBackground(Color.BLACK);  
clear.setForeground(Color.WHITE);  
clear.addActionListener(this);  
add(clear);
```

```
signup = new JButton("SIGN UP");  
signup.setBounds(300,350,230,30);  
signup.setBackground(Color.BLACK);  
signup.setForeground(Color.WHITE);  
signup.addActionListener(this);  
add(signup);
```

```
pin.setFont(new Font("Raleway",Font.BOLD,28));  
pin.setBounds(120,220,400,40);
```

```
getContentPane().setBackground(Color.WHITE);  
setSize(800,480);  
setVisible(true);
```

```

        setLocation(350,200);
    }

    public void actionPerformed(ActionEvent ae)
    {
        if(ae.getSource()== clear){
            cardTextField.setText("");
            pinTextField.setText("");

        } else if(ae.getSource()==login){
            Conn conn = new Conn();

            String cardnumber = cardTextField.getText();
            String pinnumber = pinTextField.getText();

            String query = "select * from login where cardnumber = '"+cardnumber+"' and pin = '"+pinnumber+"'";

            try{
                ResultSet rs = conn.s.executeQuery(query);
                if(rs.next()){
                    setVisible(false);
                    new Transactions(pinnumber).setVisible(true);
                }
            } else{
                JOptionPane.showMessageDialog(null,"Incorrect Card Number Or Pin");
            }
        } catch(Exception e){
            System.out.println(e);
        }

    }

    } else if(ae.getSource()==signup){
        setVisible(false);
        new SignupOne().setVisible(true);
    }
}

```

```

    }

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

}

```

SignupOne.java:

```

package bank.management.system;

import java.awt.*;
import javax.swing.*;
import java.util.*;
import com.toedter.calendar.JDateChooser;
import java.awt.event.*;

public class SignupOne extends JFrame implements ActionListener{
    long random;

    JTextField nameTextField, fnameTextField, emailTextField, addressTextField,
    cityTextField, stateTextField, pinTextField;

    JButton next;

    JRadioButton male, female, other, married, unmarried;

    JDateChooser dateChooser;

    SignupOne(){

        setLayout(null);

        Random ran = new Random();

        random = Math.abs((ran.nextLong() % 9000L) + 1000L);
    }
}

```

```
JLabel formno = new JLabel("APPLICATION FORM NO " +random);  
formno.setFont(new Font("Raleway",Font.BOLD, 38));  
formno.setBounds(140,20,600,40);  
add(formno);
```

```
JLabel personDetails = new JLabel("Page 1 : Personal Details");  
personDetails.setFont(new Font("Raleway",Font.BOLD, 22));  
personDetails.setBounds(290,80,400,30);  
add(personDetails);
```

```
JLabel name = new JLabel("Name:");  
name.setFont(new Font("Raleway",Font.BOLD, 22));  
name.setBounds(100,140,100,30);  
add(name);  
nameTextField = new JTextField();  
nameTextField.setFont(new Font("Raleway", Font.BOLD, 14));  
nameTextField.setBounds(300,140,400,30);  
add(nameTextField);
```

```
JLabel fathename = new JLabel("Father's Name:");  
fathename.setFont(new Font("Raleway",Font.BOLD, 22));  
fathename.setBounds(100,190,200,30);  
add(fathename);  
fnameTextField = new JTextField();  
fnameTextField.setFont(new Font("Raleway", Font.BOLD, 14));  
fnameTextField.setBounds(300,190,400,30);  
add(fnameTextField);
```

```
JLabel dob = new JLabel("Date of Birth:");  
dob.setFont(new Font("Raleway",Font.BOLD, 22));
```

```
dob.setBounds(100,240,200,30);  
add(dob);
```

```
dateChooser = new JDateChooser();  
dateChooser.setBounds(300,240,200,30);  
add(dateChooser);
```

```
JLabel gender = new JLabel("Gender:");  
gender.setFont(new Font("Raleway",Font.BOLD, 22));  
gender.setBounds(100,290,200,30);  
add(gender);
```

```
male = new JRadioButton("MALE");  
male.setBounds(300,290,120,30);  
male.setBackground(Color.WHITE);  
add(male);
```

```
female = new JRadioButton("FEMALE");  
female.setBounds(450,290,120,30);  
female.setBackground(Color.WHITE);  
add(female);
```

```
ButtonGroup gendergroup = new ButtonGroup();  
gendergroup.add(male);  
gendergroup.add(female);
```

```
JLabel email = new JLabel("Email Address:");  
email.setFont(new Font("Raleway",Font.BOLD, 22));  
email.setBounds(100,340,200,30);
```

```
add(email);  
emailTextField = new JTextField();  
emailTextField.setFont(new Font("Raleway", Font.BOLD, 14));  
emailTextField.setBounds(300,340,400,30);  
add(emailTextField);
```

```
JLabel marital = new JLabel("Marital Status:");  
marital.setFont(new Font("Raleway",Font.BOLD, 22));  
marital.setBounds(100,390,200,30);  
add(marital);  
married = new JRadioButton("MARRIED");  
married.setBounds(300,390,120,30);  
married.setBackground(Color.WHITE);  
add(married);
```

```
unmarried = new JRadioButton("UNMARRIED");  
unmarried.setBounds(450,390,120,30);  
unmarried.setBackground(Color.WHITE);  
add(unmarried);  
other = new JRadioButton("OTHER");  
other.setBounds(600,390,120,30);  
other.setBackground(Color.WHITE);  
add(other);
```

```
ButtonGroup maritalgroup = new ButtonGroup();  
maritalgroup.add(married);  
maritalgroup.add(unmarried);  
maritalgroup.add(other);
```

```
JLabel address = new JLabel("Address:");
```



```
address.setFont(new Font("Raleway",Font.BOLD, 22));
address.setBounds(100,440,200,30);
add(address);

addressTextField = new JTextField();
addressTextField.setFont(new Font("Raleway", Font.BOLD, 14));
addressTextField.setBounds(300,440,400,40);
add(addressTextField);
```

```
JLabel city = new JLabel("City:");
city.setFont(new Font("Raleway",Font.BOLD, 22));
city.setBounds(100,490,200,30);
add(city);

cityTextField = new JTextField();
cityTextField.setFont(new Font("Raleway", Font.BOLD, 14));
cityTextField.setBounds(300,490,400,30);
add(cityTextField);
```

```
JLabel state = new JLabel("State:");
state.setFont(new Font("Raleway",Font.BOLD, 22));
state.setBounds(100,540,200,30);
add(state);

stateTextField = new JTextField();
stateTextField.setFont(new Font("Raleway", Font.BOLD, 14));
stateTextField.setBounds(300,540,400,30);
add(stateTextField);
```

```
JLabel pincode = new JLabel("Pincode:");
pincode.setFont(new Font("Raleway",Font.BOLD, 22));
pincode.setBounds(100,590,200,30);
add(pincode);

pinTextField = new JTextField();
```

```

pinTextField.setFont(new Font("Raleway", Font.BOLD, 14));
pinTextField.setBounds(300,590,400,30);
add(pinTextField);

next = new JButton("Next");
next.setBackground(Color.BLACK);
next.setForeground(Color.WHITE);
next.setFont(new Font("Raleway",Font.BOLD,14));
next.setBounds(620,640,80,30);
next.addActionListener(this);
add(next);

getContentPane().setBackground(Color.WHITE);

setSize(850,800);
setLocation(350,10);
setVisible(true);

}

public void actionPerformed(ActionEvent ae){
String formno = "" + random;
String name = nameTextField.getText();
String fname = fnameTextField.getText();
String dob = ((JTextField) dateChooser.getDateEditor().getUiComponent()).getText();
String gender = null;
if(male.isSelected())
{
gender="Male";
}else if(female.isSelected()){
gender="Female";
}
}

```

```

}

String email = emailTextField.getText();

String marital = null;

if(married.isSelected()){
    marital="Married";
}else if(unmarried.isSelected()){
    marital="Unmarried";
}else if(other.isSelected())
{
    marital="Other";
}

String address = addressTextField.getText();

String city = cityTextField.getText();

String state = stateTextField.getText();

String pin = pinTextField.getText();

try{
    if(name.equals("")){
        JOptionPane.showMessageDialog(null, "Name is Required");
    }else{
        Conn c = new Conn();

        String query = "insert into signup1 values ('"+formno+"', '"+name+"', '"+fname+"', '"+dob+"',
        '"+gender+"', '"+email+"', '"+marital+"', '"+address+"', '"+city+"', '"+pin+"', '"+state+"')";

        c.s.executeUpdate(query);

        setVisible(false);

        new SignupTwo(formno).setVisible(true);
    }
}catch (Exception e){
    System.out.println(e);
}

```

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

### SignupTwo.java:

```
package bank.management.system;  
  
import java.awt.*;  
import javax.swing.*;  
import java.util.*;  
import java.awt.event.*;  
  
public class SignupTwo extends JFrame implements ActionListener{  
    JTextField pan1,aadhar1;  
    JButton next;  
    JRadioButton yes,no,yes1,no1;  
    JComboBox religion, category,occupation, education,income;  
    String formno;  
    SignupTwo(String formno){  
        this.formno = formno;
```

```
setLayout(null);  
setTitle("NEW ACCOUNT APPLICATION FORM - PAGE2" );
```

```
JLabel additionalDetails = new JLabel("Page 2 : ADDITIONAL Details");  
additionalDetails.setFont(new Font("Raleway",Font.BOLD, 22));  
additionalDetails.setBounds(290,80,400,30);  
add(additionalDetails);
```

```
JLabel name = new JLabel("Religion:");  
name.setFont(new Font("Raleway",Font.BOLD, 22));  
name.setBounds(100,140,100,30);  
add(name);  
String valReligion[] = {"HINDU", "MUSLIM", "SIKH", "CHRISTIAN", "OTHER"};  
religion= new JComboBox(valReligion);  
religion.setBounds(300,140,400,30);  
religion.setBackground( Color.WHITE);  
add(religion);
```

```
JLabel fathurname = new JLabel("Category:");  
fathurname.setFont(new Font("Raleway",Font.BOLD, 22));  
fathurname.setBounds(100,190,200,30);  
add(fathurname);  
String valCategory[] = {"GENERAL", "OBC", "SC", "ST", "OTHER"};  
category= new JComboBox(valCategory);  
category.setBounds(300,190,400,30);  
category.setBackground( Color.WHITE);  
add(category);
```

```
JLabel dob = new JLabel("Income:");
```

```
dob.setFont(new Font("Raleway",Font.BOLD, 22));
```

```
dob.setBounds(100,240,200,30);
```

```
add(dob);
```

```
String valIncome[] = {"NULL", "<1,50,000", "<2,50,000", "<5,00,000", "UPTO 10,00,000"};
```

```
income= new JComboBox(valIncome);
```

```
income.setBounds(300,240,400,30);
```

```
income.setBackground( Color.WHITE);
```

```
add(income);
```

```
JLabel gender = new JLabel("Educational");
```

```
gender.setFont(new Font("Raleway",Font.BOLD, 22));
```

```
gender.setBounds(100,290,200,30);
```

```
add(gender);
```

```
JLabel email = new JLabel("Qualification:");
```

```
email.setFont(new Font("Raleway",Font.BOLD, 22));
```

```
email.setBounds(100,310,200,30);
```

```
add(email);
```

```
String valEducation[] = {"NON-GRADUATION", "GRADUATION", "POST-GRADUATION",  
"DOCTRATE", "OTHER"};
```

```
education= new JComboBox(valEducation);
```

```
education.setBounds(300,300,400,30);
```

```
education.setBackground( Color.WHITE);
```

```
add(education);
```

```
JLabel marital = new JLabel("Occupation:");
```

```
marital.setFont(new Font("Raleway",Font.BOLD, 22));
```

```
marital.setBounds(100,390,200,30);
```

```
add(marital);
```

```
String valOccupation[] = {"SALARIED", "SELF EMPLOYEED", "BUSSINESS", "STUDENT", "RETIRED",  
"OTHERS"};
```

```
occupation= new JComboBox(valOccupation);  
occupation.setBounds(300,390,400,30);  
occupation.setBackground( Color.WHITE);  
add(occupation);
```

```
JLabel pan = new JLabel("Pan Number:");  
pan.setFont(new Font("Raleway",Font.BOLD, 22));  
pan.setBounds(100,440,200,30);  
add(pan);  
pan1 = new JTextField();  
pan1.setFont(new Font("Raleway", Font.BOLD, 14));  
pan1.setBounds(300,440,400,40);  
add(pan1);
```

```
JLabel aadhar = new JLabel("Aadhar no:");  
aadhar.setFont(new Font("Raleway",Font.BOLD, 22));  
aadhar.setBounds(100,490,200,30);  
add(aadhar);  
aadhar1 = new JTextField();  
aadhar1.setFont(new Font("Raleway", Font.BOLD, 14));  
aadhar1.setBounds(300,490,400,30);  
add(aadhar1);
```

```
JLabel seniorcitizen = new JLabel("Senior citizen:");  
seniorcitizen.setFont(new Font("Raleway",Font.BOLD, 22));  
seniorcitizen.setBounds(100,540,200,30);  
add(seniorcitizen);  
yes = new JRadioButton("Yes");
```

```
yes.setFont(new Font("Raleway",Font.BOLD,16));  
yes.setBounds(300,540,100,30);  
yes.setBackground(Color.WHITE);  
add(yes);  
no = new JRadioButton("No");  
no.setFont(new Font("Raleway",Font.BOLD,16));  
no.setBounds(500,540,100,30);  
no.setBackground(Color.WHITE);  
add(no);
```

```
JLabel existingaccount = new JLabel("Existing Account:");  
existingaccount.setFont(new Font("Raleway",Font.BOLD, 22));  
existingaccount.setBounds(100,590,200,30);  
add(existingaccount);  
yes1 = new JRadioButton("Yes");  
yes1.setFont(new Font("Raleway",Font.BOLD,16));  
yes1.setBounds(300,590,100,30);  
yes1.setBackground(Color.WHITE);  
add(yes1);  
no1 = new JRadioButton("No");  
no1.setFont(new Font("Raleway",Font.BOLD,16));  
no1.setBounds(500,590,100,30);  
no1.setBackground(Color.WHITE);  
add(no1);  
next = new JButton("Next");  
next.setBackground(Color.BLACK);  
next.setForeground(Color.WHITE);  
next.setFont(new Font("Raleway",Font.BOLD,14));  
next.setBounds(620,640,80,30);  
next.addActionListener(this);  
add(next);
```



```

getContentPane().setBackground(Color.WHITE);

setSize(850,800);
setLocation(350,10);
setVisible(true);

}

public void actionPerformed(ActionEvent ae){
String sreligion = (String)religion.getSelectedItem();
String scategory = (String)category.getSelectedItem();
String sincome = (String)income.getSelectedItem();
String seducation=(String)education.getSelectedItem();
String soccupation=(String)occupation.getSelectedItem();
String seniorcitizen = null;
if(yes.isSelected())
{
seniorcitizen="Yes";
}else if(no.isSelected()){
seniorcitizen="No";
}
String existingaccount = null;
if(yes1.isSelected()){
existingaccount="Yes";
}else if(no1.isSelected()){
existingaccount="No";
}

String span = pan1.getText();
String saadhar = aadhar1.getText();

```

```

try{
    Conn c = new Conn();

    String query = "insert into signup2 values ('"+formno+"', '"+sreligion+"', '"+scategory+"',
    '"+sincome+"', '"+seducation+"', '"+soccupation+"', '"+span+"', '"+saadhar+"', '"+seniorcitizen+"',
    '"+existingaccount+"')";

    c.s.executeUpdate(query);

    setVisible(false);

    new SignupThree(formno).setVisible(true);
}catch (Exception e){
    System.out.println(e);
}
}

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

}

}

```

## SignupThree.java:

```

package bank.management.system;

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

```

```
public class SignupThree extends JFrame implements ActionListener {
```

```
    JRadioButton r1,r2,r3,r4;
```

```
    JCheckBox c1,c2,c3,c4,c5,c6,c7;
```

```
    JButton submit,cancel;
```

```
    String formno;
```

```
    SignupThree(String formno){
```

```
        this.formno = formno;
```

```
        setLayout(null);
```

```
        JLabel l1 = new JLabel("PAGE-3: ACCOUNT DETAILS");
```

```
        l1.setFont(new Font("Raleway",Font.BOLD,22));
```

```
        l1.setBounds(280,40,400,40);
```

```
        add(l1);
```

```
        JLabel type = new JLabel("Account Type");
```

```
        type.setFont(new Font("Raleway",Font.BOLD,22));
```

```
        type.setBounds(100,140,200,30);
```

```
        add(type);
```

```
        r1= new JRadioButton("Savings Account");
```

```
        r1.setFont(new Font("Raleway",Font.BOLD,16));
```

```
        r1.setBackground(Color.WHITE);
```

```
        r1.setBounds(100,180,180,20);
```

```
        add(r1);
```

```
        r2= new JRadioButton("Fixed Deposit Account");
```

```
        r2.setFont(new Font("Raleway",Font.BOLD,16));
```

```
        r2.setBackground(Color.WHITE);
```

```
        r2.setBounds(350,180,250,20);
```

```
        add(r2);
```

```
        r3= new JRadioButton("Current Account");
```

```
        r3.setFont(new Font("Raleway",Font.BOLD,16));
```

```
r3.setBackground(Color.WHITE);
r3.setBounds(100,220,150,20);
add(r3);

r4= new JRadioButton("Reccuring Deposit Account");
r4.setFont(new Font("Raleway",Font.BOLD,16));
r4.setBackground(Color.WHITE);
r4.setBounds(350,220,250,20);
add(r4);

ButtonGroup groupaccount = new ButtonGroup();
groupaccount.add(r1);
groupaccount.add(r2);
groupaccount.add(r3);
groupaccount.add(r4);
```

```
JLabel card = new JLabel("Card Number");
card.setFont(new Font("Raleway",Font.BOLD,22));
card.setBounds(100,270,200,30);
add(card);

JLabel number = new JLabel("XXXX-XXXX-XXXX-4184");
number.setFont(new Font("Raleway",Font.BOLD,22));
number.setBounds(330,270,300,30);
add(number);
```

```
JLabel pin = new JLabel("PIN:");
pin.setFont(new Font("Raleway",Font.BOLD,22));
pin.setBounds(100,340,200,30);
add(pin);

JLabel carddetails = new JLabel("Your 16 Digit Card Number");
carddetails.setFont(new Font("Raleway",Font.BOLD,12));
carddetails.setBounds(100,300,300,20);
add(carddetails);
```

```
JLabel pinnumber = new JLabel("XXXX");  
pinnumber.setFont(new Font("Raleway",Font.BOLD,22));  
pinnumber.setBounds(330,340,300,30);  
add(pinnumber);
```

```
JLabel pindetails = new JLabel("Your 4 Digit Password");  
pindetails.setFont(new Font("Raleway",Font.BOLD,12));  
pindetails.setBounds(100,370,300,20);  
add(pindetails);
```

```
JLabel services = new JLabel("Services Required:");  
services.setFont(new Font("Raleway",Font.BOLD,22));  
services.setBounds(100,430,400,30);  
add(services);
```

```
c1 = new JCheckBox("ATM CARD");  
c1.setBackground(Color.WHITE);  
c1.setFont(new Font("Raleway",Font.BOLD,16));  
c1.setBounds(100,480,200,30);  
add(c1);
```

```
c2 = new JCheckBox("Internet Banking");  
c2.setBackground(Color.WHITE);  
c2.setFont(new Font("Raleway",Font.BOLD,16));  
c2.setBounds(330,480,200,30);  
add(c2);
```

```
c3 = new JCheckBox("Mobile Banking");  
c3.setBackground(Color.WHITE);  
c3.setFont(new Font("Raleway",Font.BOLD,16));  
c3.setBounds(100,530,200,30);  
add(c3);
```

```
c4 = new JCheckBox("Email& SMS Alerts");
```

```
c4.setBackground(Color.WHITE);
c4.setFont(new Font("Raleway",Font.BOLD,16));
c4.setBounds(330,530,200,30);
add(c4);

c5 = new JCheckBox("Cheque Book");
c5.setBackground(Color.WHITE);
c5.setFont(new Font("Raleway",Font.BOLD,16));
c5.setBounds(100,580,200,30);
add(c5);

c6 = new JCheckBox("E-Statement");
c6.setBackground(Color.WHITE);
c6.setFont(new Font("Raleway",Font.BOLD,16));
c6.setBounds(330,580,200,30);
add(c6);

c7 = new JCheckBox("I Hereby Declares that the above entered details are correct to the best of
the knowledge");
c7.setBackground(Color.WHITE);
c7.setFont(new Font("Raleway",Font.BOLD,12));
c7.setBounds(180,650,700,30);
add(c7);

submit = new JButton("submit");
submit.setBackground(Color.BLACK);
submit.setForeground(Color.WHITE);
submit.setFont(new Font("Raleway",Font.BOLD,14));
submit.setBounds(250,700,100,30);
submit.addActionListener(this);
add(submit);

cancel = new JButton("cancel");
cancel.setBackground(Color.BLACK);
cancel.setForeground(Color.WHITE);
```

```
cancel.setFont(new Font("Raleway",Font.BOLD,14));
```

```
cancel.setBounds(420,700,100,30);
```

```
cancel.addActionListener(this);
```

```
add(cancel);
```

```
getContentPane().setBackground(Color.WHITE);
```

```
setSize(850,820);
```

```
setLocation(350,0);
```

```
setVisible(true);
```

```
}
```

```
public void actionPerformed(ActionEvent ae){
```

```
    if(ae.getSource() == submit){
```

```
        String accountType=null;
```

```
        if(r1.isSelected()){
```

```
            accountType="Savings account";
```

```
        }else if(r2.isSelected()){
```

```
            accountType = "Fixed Deposit";
```

```
        }else if(r3.isSelected()){
```

```
            accountType = "Current Account";
```

```
        }else if(r4.isSelected()){
```

```
            accountType = "Reccuring Deposit Account";
```

```
        }
```

```
        Random random = new Random();
```

```
        String cardnumber = "" + Math.abs((random.nextLong() %  
90000000L)+5040936000000000L);
```

```
        String pinnumber = ""+ Math.abs((random.nextLong()% 9000L + 1000L);
```

```

String facility = "";
if(c1.isSelected()){
    facility = facility+ " ATM CARD";

}
else if(c2.isSelected()){
    facility = facility + "Internet Banking";
}
else if(c3.isSelected()){
    facility = facility + "Mobile Banking";

}
else if(c4.isSelected()){
    facility = facility+ " Emal & SMS Alerts";

}
else if (c5.isSelected()){
    facility = facility + "Cheque Book";

}
else if (c6.isSelected()){
    facility = facility + "E-Satement";
}

try{
    if(accountType.equals("")){
        JOptionPane.showMessageDialog(null,"Account Type is required");
    }
    else{
        Conn conn = new Conn();

        String query1 = "insert into signuptree
values('"+formno+"','"+accountType+"','"+cardnumber+"','"+pinnumber+"','"+facility+"')";

        String query2 = "insert into login
values('"+formno+"','"+cardnumber+"','"+pinnumber+"')";

        conn.s.executeUpdate(query1);
        conn.s.executeUpdate(query2);
    }
}

```



```

        JOptionPane.showMessageDialog(null,"Card Number:" + cardnumber + "\n Pin:" +
pinnumber);

        setVisible(false);

        new Deposit(pinnumber).setVisible(false);

    }

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

else if(ae.getSource()==cancel){
    setVisible(false);
    new Login().setVisible(true);

}

}

public static void main(String args[]){

    new SignupThree("");
}

}

```

Transaction Frames:

Transactions.java:

```

package bank.management.system;

import javax.swing.*.*;

```

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

public class Transactions extends JFrame implements ActionListener{

    JButton deposit, withdrawl, ministatement, pinchange, fastcash, balance,exit;
    String pinnumber;

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

        setLayout(null);

        ImageIcon i1 = new ImageIcon(ClassLoader.getResource("icons/atm.jpg"));
        Image i2 = i1.getImage().getScaledInstance(900,900 ,Image.SCALE_DEFAULT);
        ImageIcon i3 = new ImageIcon(i2);
        JLabel image = new JLabel(i3);
        image.setBounds(0,0,900,900);
        add(image);

        JLabel text = new JLabel("Please select your Transaction");
        text.setBounds(210,300,700,35);
        text.setForeground(Color.WHITE);
        text.setFont(new Font("System",Font.BOLD,16));
        image.add(text);

        deposit = new JButton("Deposit");
        deposit.setBounds(170,415,150,30);
        deposit.addActionListener(this);
```

```
image.add(deposit);
```

```
withdrawl = new JButton("Withdrawl");  
withdrawl.setBounds(355,415,150,30);  
withdrawl.addActionListener(this);  
image.add(withdrawl);
```

```
fastcash = new JButton("FastCash");  
fastcash.setBounds(170,450,150,30);  
fastcash.addActionListener(this);  
image.add(fastcash);
```

```
ministatement = new JButton("Mini Statement");  
ministatement.setBounds(355,450,150,30);  
ministatement.addActionListener(this);  
image.add(ministatement);
```

```
pinchange = new JButton("Pin Change");  
pinchange.setBounds(170,485,150,30);  
pinchange.addActionListener(this);  
image.add(pinchange);
```

```
balance = new JButton("Balance Enquiry");  
balance.setBounds(355,485,150,30);  
balance.addActionListener(this);  
image.add(balance);
```

```
exit = new JButton("Exit");  
exit.setBounds(355,520,150,30);  
exit.addActionListener(this);  
image.add(exit);
```

```
setSize(900,900);  
setLocation(300,0);  
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()==withdrawl){  
        setVisible(false);  
        new Withdrawl(pinnumber).setVisible(true);  
  
    }else if(ae.getSource() == fastcash){  
        setVisible(false);  
        new FastCash(pinnumber).setVisible(true);  
    }else if (ae.getSource()== pinchange){  
        setVisible(false);  
        new PinChange(pinnumber).setVisible(true);  
    }else if(ae.getSource() == balance){
```

```

        setVisible(false);

        new BalanceEnquiry(pinnumber).setVisible(true);

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

        new MiniStatement(pinnumber).setVisible(true);
    }

}

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

}

```

## Deposit.java:

```

package bank.management.system;

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

public class Deposit extends JFrame implements ActionListener {

    JTextField amount;

    JButton deposit,back;

    String pinnumber;

    Deposit(String pinnumber){

```

```
this.pinnumber = pinnumber;
```

```
setLayout(null);
```

```
ImageIcon i1 = new ImageIcon(ClassLoader.getResource("icons/atm.jpg"));
```

```
Image i2 = i1.getImage().getScaledInstance(900,900, Image.SCALE_DEFAULT);
```

```
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 you want to deposit");
```

```
text.setForeground(Color.WHITE);
```

```
text.setFont(new Font("System",Font.BOLD,16));
```

```
text.setBounds(170,300,400,20);
```

```
image.add(text);
```

```
amount = new JTextField();
```

```
amount.setFont(new Font("Raleway",Font.BOLD,22));
```

```
amount.setBounds(170,350,320,25);
```

```
image.add(amount);
```

```
deposit = new JButton("Deposit");
```

```
deposit.setBounds(355,485,150,30);
```

```
deposit.addActionListener(this);
```

```
image.add(deposit);
```

```
back = new JButton("Back");
```

```
back.setBounds(355,520,150,30);
```

```
back.addActionListener(this);
```

```
image.add(back);
```

```
setSize(900,900);
```

```
setLocation(300,0);
```

```
setVisible(true);
```

```
}
```

```
public void actionPerformed(ActionEvent ae){
```

```
    if(ae.getSource()== deposit){
```

```
        String number = amount.getText();
```

```
        Date date = new Date();
```

```
        if(number.equals("")){
```

```
            JOptionPane.showMessageDialog(null,"Please enter the amount you want to deposit");
```

```
        }else{
```

```
            try{
```

```
                Conn conn = new Conn();
```

```
                String query = "insert into bank values('"+pinnumber+"', '"+date+"',  
'Deposit','"+number+"')";
```

```
                conn.s.executeUpdate(query);
```

```
                JOptionPane.showMessageDialog(null,"RS"+number+"Deposited Successfully");
```

```
                setVisible(false);
```

```
                new Transactions(pinnumber).setVisible(true);
```

```
            }
```

```
            catch(Exception e){
```

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

```
            }
```

```
        ;    }
```

```
    }else if(ae.getSource()==back)
```

```

    {
        setVisible(false);
        new Transactions(pinnumber).setVisible(true);
    }
}

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

}

```

## Withdrawl.java:

```

package bank.management.system;

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

public class Withdrawl extends JFrame implements ActionListener {

    JTextField amount;
    JButton withdrawl,back;
    String pinnumber;

    Withdrawl(String pinnumber){
        this.pinnumber = pinnumber;
        setLayout(null);
    }
}

```



```
ImageIcon i1 = new ImageIcon(ClassLoader.getResource("icons/atm.jpg"));
Image i2 = i1.getImage().getScaledInstance(900,900, Image.SCALE_DEFAULT);
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 you want to Withdraw");
text.setForeground(Color.WHITE);
text.setFont(new Font("System",Font.BOLD,16));
text.setBounds(170,300,400,20);
image.add(text);
```

```
amount = new JTextField();
amount.setFont(new Font("Raleway",Font.BOLD,22));
amount.setBounds(170,350,320,25);
image.add(amount);
```

```
withdrawl = new JButton("Withdrawl");
withdrawl.setBounds(355,485,150,30);
withdrawl.addActionListener(this);
image.add(withdrawl);

back = new JButton("Back");
back.setBounds(355,520,150,30);
back.addActionListener(this);
```

```
image.add(back);
```

```

setSize(900,900);

setLocation(300,0);

setVisible(true);

}

public void actionPerformed(ActionEvent ae){
    if(ae.getSource()== withdrawl){
        String number = amount.getText();

        Date date = new Date();

        if(number.equals("")){
            JOptionPane.showMessageDialog(null,"Please enter the amount you want to deposit");
        }else{
            try{
                Conn conn = new Conn();

                String query = "insert into bank values('"+pinnumber+"', '"+date+"',
'Withdrawl','"+number+"')";

                conn.s.executeUpdate(query);

                JOptionPane.showMessageDialog(null,"RS"+number+"Withdrawl Successful");

                setVisible(false);

                new Transactions(pinnumber).setVisible(true);
            }

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

    ;

    }else if(ae.getSource()==back)
    {
        setVisible(false);

        new Transactions(pinnumber).setVisible(true);
    }
}

```

```

    }
}

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

}

```

## FastCash.java:

```

package bank.management.system;

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

public class FastCash extends JFrame implements ActionListener{

    JButton deposit, withdrawl, ministatement, pinchange, fastcash, balance,exit;
    String pinnumber;

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

        setLayout(null);

        ImageIcon i1 = new ImageIcon(ClassLoader.getResource("icons/atm.jpg"));
        Image i2 = i1.getImage().getScaledInstance(900,900 ,Image.SCALE_DEFAULT);

```

```
ImageIcon i3 = new ImageIcon(i2);  
JLabel image = new JLabel(i3);  
image.setBounds(0,0,900,900);  
add(image);
```

```
JLabel text = new JLabel("SELECT WITHDRAWL AMOUNT");  
text.setBounds(210,300,700,35);  
text.setForeground(Color.WHITE);  
text.setFont(new Font("System",Font.BOLD,16));  
image.add(text);
```

```
deposit = new JButton("Rs 100");  
deposit.setBounds(170,415,150,30);  
deposit.addActionListener(this);  
image.add(deposit);
```

```
withdrawl = new JButton("Rs 500");  
withdrawl.setBounds(355,415,150,30);  
withdrawl.addActionListener(this);  
image.add(withdrawl);
```

```
fastcash = new JButton("Rs 1000");  
fastcash.setBounds(170,450,150,30);  
fastcash.addActionListener(this);  
image.add(fastcash);
```

```
ministatement = new JButton(" Rs 2000");  
ministatement.setBounds(355,450,150,30);  
ministatement.addActionListener(this);
```

```
image.add(ministatement);
```

```
pinchange = new JButton("Rs 5000");  
pinchange.setBounds(170,485,150,30);  
pinchange.addActionListener(this);  
image.add(pinchange);
```

```
balance = new JButton(" Rs 10000");  
balance.setBounds(355,485,150,30);  
balance.addActionListener(this);  
image.add(balance);
```

```
exit = new JButton("BACK");  
exit.setBounds(355,520,150,30);  
exit.addActionListener(this);  
image.add(exit);
```

```
setSize(900,900);  
setLocation(300,0);  
setUndecorated(true);  
setVisible(true);
```

```
}
```

```
public void actionPerformed(ActionEvent ae){  
    if(ae.getSource()==exit){
```

```

setVisible(false);

new Transactions(pinnumber).setVisible(true);
}else{

String amount=((JButton) ae.getSource()).getText().substring(3);

Conn c = new Conn();

try{

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

int balance = 0;

while(rs.next()){

if(rs.getString("type").equals("Deposit")){

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

}else{

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

}

if(ae.getSource() != exit && balance < Integer.parseInt(amount)){

JOptionPane.showMessageDialog(null, "Insufficient Balance");

return;

}

Date date = new Date();

String query = "insert into bank values('"+pinnumber+"', '"+date+"', 'Withdrawl',
'"+amount+"')";

c.s.executeUpdate(query);

JOptionPane.showMessageDialog(null, "Rs"+amount+"Debited Successfully");

}

setVisible(false);

new Transactions(pinnumber).setVisible(true);

```

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

}

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

}
```

### MiniStatement.java:

```
package bank.management.system;

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

public class MiniStatement extends JFrame {

    MiniStatement(String pinnumber){

        setTitle("Mini Statement");
        setLayout(null);

        JLabel mini = new JLabel();
        add(mini);
    }
}
```

```

JLabel bank = new JLabel("State Bank of India");
bank.setBounds(150,20,200,20);

add(bank);

JLabel card = new JLabel();
card.setBounds(20,80,300,20);
add(card);

JLabel balance = new JLabel();
balance.setBounds(20,400,300,20);
add(balance);

try{
    Conn conn = new Conn();

    ResultSet rs = conn.s.executeQuery("select * from login where pin = '"+pinnumber+"'");
    while(rs.next()){
        card.setText("Card Number:"
+rs.getString("cardnumber").substring(0,4)+"XXXXXXX"+rs.getString("cardnumber").substring(12))
;
    }

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

try{
    Conn conn = new Conn();

    int bal =0;

    ResultSet rs = conn.s.executeQuery("select * from bank where pin = '"+pinnumber+"'");
    while(rs.next()){

```



[illegible]

```
if(rs.getString("type").equals("Deposit")){
    bal+= Integer.parseInt(rs.getString("amount"));
}else{
    bal -= Integer.parseInt(rs.getString("amount"));
}
```

$$\left. \begin{array}{l} \} \\ \} \end{array} \right\}$$

```
balance.setText("Your Current Account Balance is Rs" +bal);
```

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

```
mini.setBounds(20,140,400,200);
```

```
setSize(400,600);  
setLocation(20,20);  
getContentPane().setBackground(Color.WHITE);  
setVisible(true);
```

}

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

## PinChange:

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

```
import javax.swing.*.*;  
import java.awt.*.*;  
import java.awt.event.*;  
public class PinChange extends JFrame implements ActionListener {
```

```
    JPasswordField pass, pass1;
```

```
    JButton change , back;
```

```
    String pinnumber;
```

```
    PinChange(String pinnumber){
```

```
        this.pinnumber= pinnumber;
```

```
        setLayout(null);
```

```
        ImageIcon i1 = new ImageIcon(ClassLoader.getResource("icons/atm.jpg"));
```

```
        Image i2 = i1.getImage().getScaledInstance(900,900,Image.SCALE_DEFAULT);
```

```
        ImageIcon i3 = new ImageIcon(i2);
```

```
        JLabel image = new JLabel(i3);
```

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

```
        add(image);
```

```
        JLabel text = new JLabel("CHANGE YOUR PIN");
```

```
        text.setForeground(Color.WHITE);
```

```
text.setFont(new Font("System",Font.BOLD,16));
text.setBounds(250,280,500,35);
image.add(text);

JLabel pintext = new JLabel("NEW PIN");
pintext.setForeground(Color.WHITE);
pintext.setFont(new Font("System",Font.BOLD,16));
pintext.setBounds(165,320,180,25);
image.add(pintext);
```

```
pass = new JPasswordField();
pass.setFont(new Font("Raleway",Font.BOLD,16));
pass.setBounds(165,340,200,25);
image.add(pass);
```

```
JLabel repin = new JLabel("RE-ENTER NEW PIN");
repin.setForeground(Color.WHITE);
repin.setFont(new Font("System",Font.BOLD,16));
repin.setBounds(165,370,180,25);
image.add(repin);

pass1 = new JPasswordField();
pass1.setFont(new Font("Raleway",Font.BOLD,16));
pass1.setBounds(165,390,200,25);
image.add(pass1);
```

```
change = new JButton("CHANGE");
change.setBounds(355,485,150,30);
change.addActionListener(this);
image.add(change);
```

```

        back = new JButton("BACK");
        back.setBounds(355,520,150,30);
        back.addActionListener(this);
        image.add(back);

        setSize(900,900);
        setLocation(300,0);
        setUndecorated(true);
        setVisible(true);

    }

    public void actionPerformed(ActionEvent ae){
        if(ae.getSource()== change){
            try{
                String npin = pass.getText();
                String rpin = pass1.getText();

                if(!npin.equals(rpin)){
                    JOptionPane.showMessageDialog(null,"Entered PIN does not match");
                    return;
                }

                if(npin.equals("")){
                    JOptionPane.showMessageDialog(null,"Please Enter PIN");
                    return;
                }if(rpin.equals("")){
                    JOptionPane.showMessageDialog(null,"Please RE-Enter PIN");
                    return;
                }
            }
        }
    }

```

```

Conn conn = new Conn();

String query1 = "update bank set pin = '"+rpin+"' where pin='"+pinnumber+"'";
String query2 = "update login set pin = '"+rpin+"' where pin='"+pinnumber+"'";
String query3 = "update signupthree set pin = '"+rpin+"' where pin='"+pinnumber+"'";


conn.s.executeUpdate(query1);
conn.s.executeUpdate(query2);
conn.s.executeUpdate(query3);


JOptionPane.showMessageDialog(null,"PIN changed successfully");


setVisible(false);
new Transactions(rpin).setVisible(true);
}catch(Exception e){

    System.out.println(e);

}
}else{
    setVisible(false);
    new Transactions(pinnumber).setVisible(true);
}

}

public static void main(String[]args){
new PinChange("").setVisible(true);
}

```

```
}
```

## BalanceEnquiry:

```
package bank.management.system;

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

public class BalanceEnquiry extends JFrame implements ActionListener {

    JButton back;

    String pinnumber;

    BalanceEnquiry(String pinnumber){

        this.pinnumber = pinnumber;

        setLayout(null);

        ImageIcon i1 = new ImageIcon(ClassLoader.getResource("icons/atm.jpg"));
        Image i2 = i1.getImage().getScaledInstance(900, 900, Image.SCALE_DEFAULT);
        ImageIcon i3 = new ImageIcon(i2);
        JLabel image = new JLabel(i3);
        image.setBounds(0,0,900,900);
        add(image);

        back = new JButton("back");
        back.setBounds(355,520,150,30);
        back.addActionListener(this);
        image.add(back);

        Conn c = new Conn();

        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{
            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.setBounds(170,300,400,30);
image.add(text);

setSize(900,900);
setLocation(300,0);
setUndecorated(true);
setVisible(true);
}

public void actionPerformed(ActionEvent ae){
    setVisible(false);
    new Transactions(pinnumber).setVisible(true);
}

```

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

## Connection Frame:

Conn.java:

```
package bank.management.system;  
  
import java.sql.*;  
  
public class Conn {  
  
    Connection c;  
    Statement s;  
  
    public Conn(){  
  
        try{  
            c = DriverManager.getConnection("jdbc:mysql:///bankmanagementsystem","root","varun24");  
            s = c.createStatement();  
        }catch(Exception e){  
            System.out.println(e);  
        }  
  
    }  
  
}
```



}