

## **1. Project Title:**

### **Bank Account Management System**

## **2. Project Description:**

The “Bank Account Management System” project is a model Internet Banking Site. This site enables the customers to perform the basic banking transactions by sitting at their office or at homes through PC or laptop. The system provides the access to the customer to create an account, deposit/withdraw the cash from his account, also to view reports of all accounts present. The customers can access the banks website for viewing their Account details and perform the transactions on account as per their requirements. With Internet Banking, the brick and mortar structure of the traditional banking gets converted into a click and portal model, thereby giving a concept of virtual banking a real shape. Thus, today's banking is no longer confined to branches. E-banking facilitates banking transactions by customers round the clock globally.

The primary aim of this “Bank Account Management System” is to provide an improved design methodology, which envisages the future expansion, and modification, which is necessary for a core sector like banking. This necessitates the design to be expandable and modifiable and so a modular approach is used in developing the application software.

Anybody who is an Account holder in this bank can become a member of Bank Account Management System. He has to fill a form with his personal details and Account Number. Bank is the place where customers feel the sense of safety for their property. In the bank, customers deposit and withdraw their money. Transaction of money also is a part where customer takes shelter of the bank. Now to keep the belief and trust of customers, there is the positive need for management of the bank, which can handle all this with comfort and ease. Smooth and efficient management affects the satisfaction of the customers and staff members, indirectly. And of course, it encourages management committee in taking some needed decision for future enhancement of the bank.

Now a day's, managing a bank is tedious job up to certain limit. So software that reduces the work is essential. Also, today's world is a genuine computer world and is getting faster and faster day-by-day. Thus, considering above necessities, the software for bank management has become necessary which would be useful in managing the bank more efficiently. All transactions are carried out online by transferring from accounts in the same Bank or international bank. The software is meant to overcome the drawbacks of the manual system.

### **3. Technologies Used:**

1. Inheritance
2. Constructor
3. J Frame
4. Multi Threading
5. JDBC
6. OOPs Concept
7. Swing
8. AWT
9. Util
10. J Calendar


### **4. Softwares Used:**

1. Netbeans
2. Mysql Workbench

### **5. Screenshots:**

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AUTOMATED TELLER MACHINE

 **WELCOME TO ATM**

Card No:

PIN:

SIGN IN

CLEAR

SIGNUP

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APPLICATION FORM no. 4056

Page 1: Personal Details

Name:

Father's Name:

Date of Birth:

Gender:

☐ Male

☐ Female

☐ Other

Email Address:

Marital Status:

☐ Married

☐ Unmarried

Address:

City:

State:

Pin Code:

Next

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NEW ACCOUNT APPLICATION FORM - PAGE 2

**Page 2: Additional Details**

Religion:

Minor Account: ☐ Yes ☐ No

Income:

Educational Qualification:

Occupation:

PAN Number:

Aadhar Number:

Senior Citizen: ☐ Yes ☐ No

Existing Account: ☐ Yes ☐ No

**Next**

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**Page 3 : Account Details**

**Account Type**

☐ Saving Account ☐ Fixed Deposit Account

☐ Current Account ☐ Recurring Deposit Account

**Card Number:** XXXX-XXXX-XXXX-4184  
Your 16 Digit Card Number

**PIN:** XXXX  
Your 4 Digit PIN Number

**Services Required:**

☐ ATM CARD ☐ Internet Banking

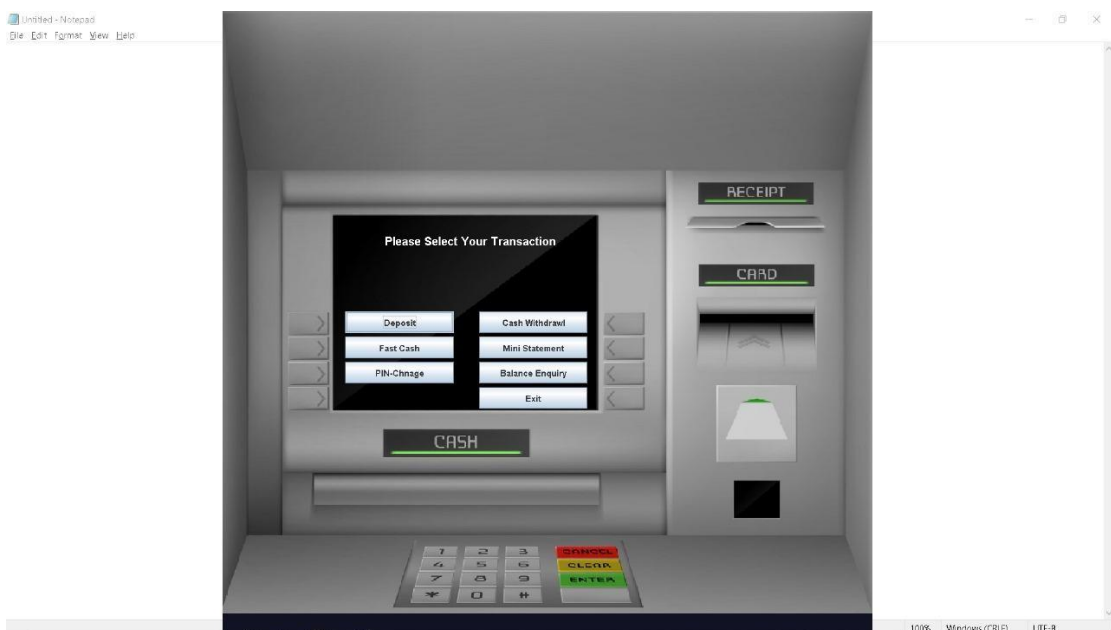
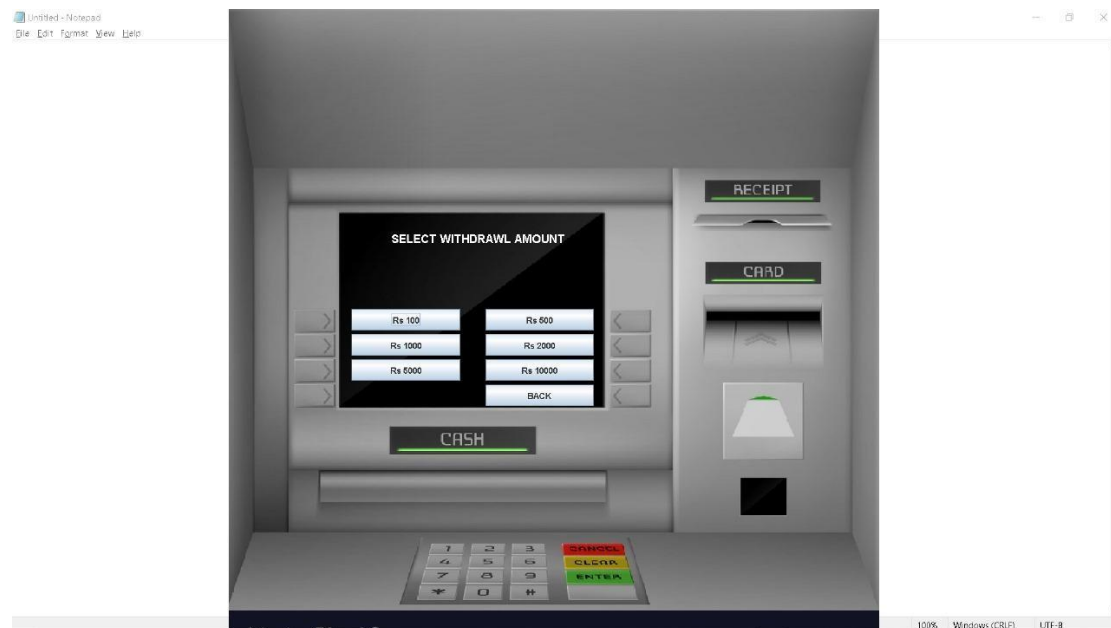
☐ Mobile Banking ☐ Email & SMS Alerts

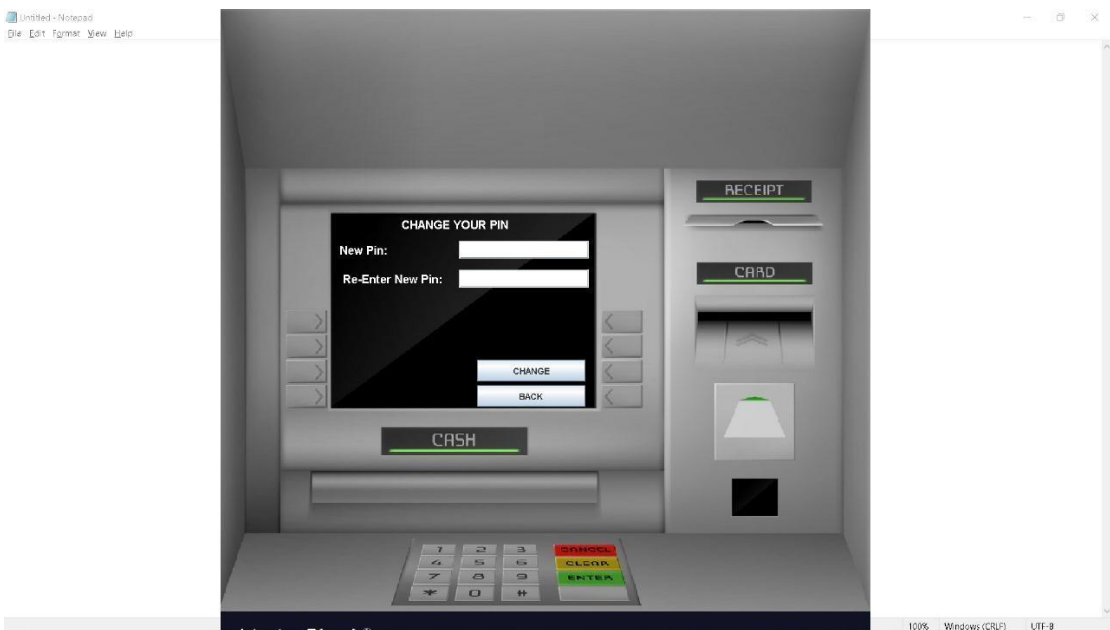
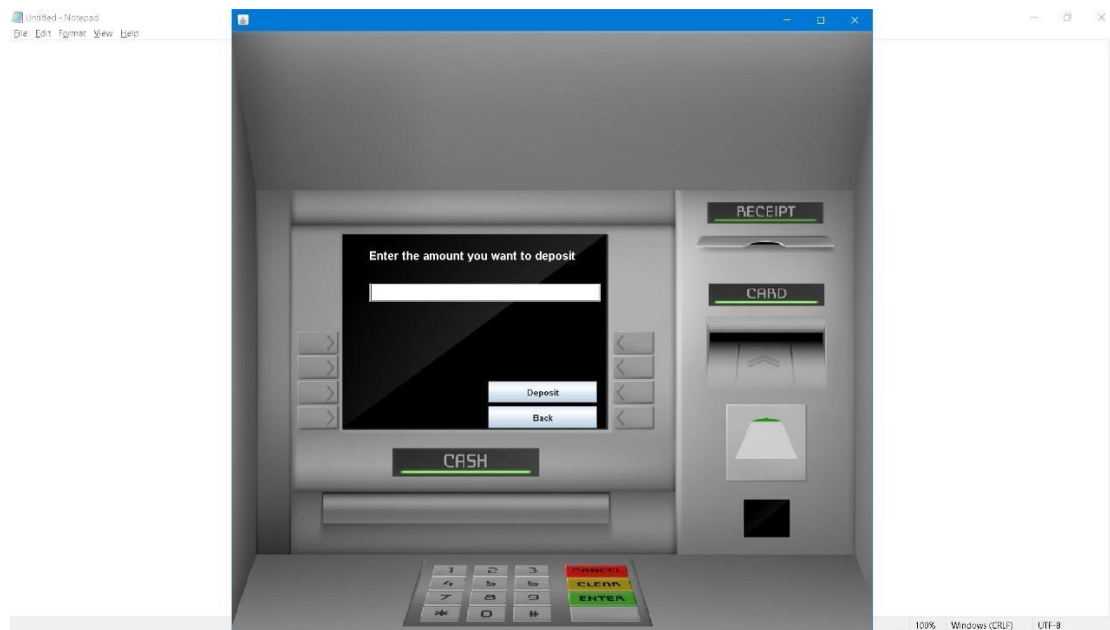
☐ Cheque Book ☐ E-Statement

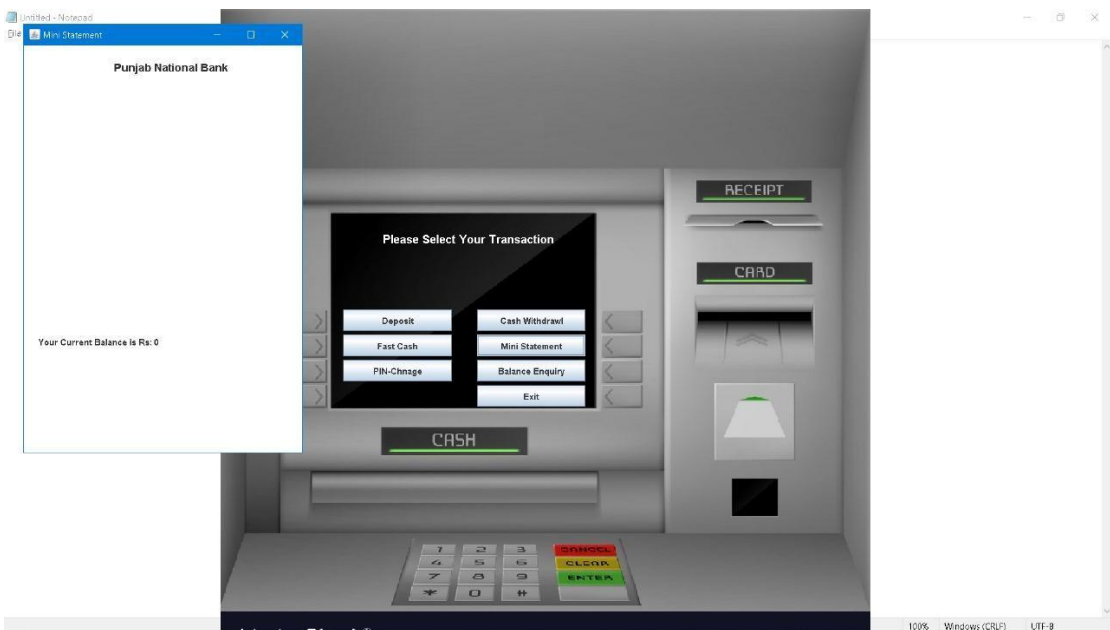
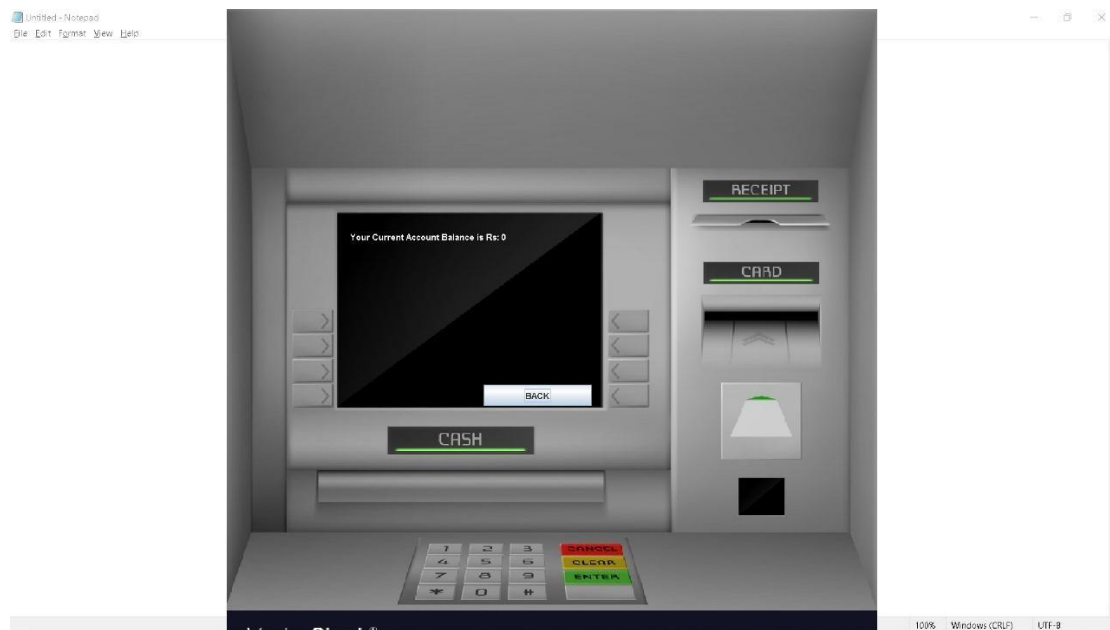
☐ I hereby declares that the above entered details are correct to the best of my knowledge

**Submit** **Cancel**

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## 6. Key Code Snippets:

Deposit.java

```
package ASimulatorSystem;
```

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

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

```
    JTextField t1,t2;
    JButton b1,b2,b3;
    JLabel l1,l2,l3;
    String pin;
    Deposit(String pin){
this.pin = pin;
        ImageIcon i1 = new
ImageIcon(ClassLoader.getResource("ASimulatorSystem/icons/atm.jpg"));
        Image i2 = i1.getImage().getScaledInstance(1000, 1180, Image.SCALE_DEFAULT);
        ImageIcon i3 = new ImageIcon(i2);
        JLabel l3 = new JLabel(i3);
        l3.setBounds(0, 0, 960, 1080);
        add(l3);

        l1 = new JLabel("ENTER AMOUNT YOU WANT TO DEPOSIT");
        l1.setForeground(Color.WHITE);
        l1.setFont(new Font("System", Font.BOLD, 16));

        t1 = new JTextField();
        t1.setFont(new Font("Raleway", Font.BOLD, 22));

        b1 = new JButton("DEPOSIT");
        b2 = new JButton("BACK");

        setLayout(null);
```



```
l1.setBounds(190,350,400,35);
l3.add(l1); t1.setBounds(190,420,320,25);
l3.add(t1);
```

```
b1.setBounds(390,588,150,35);
l3.add(b1);
```

```
b2.setBounds(390,633,150,35);
l3.add(b2);
```

```
b1.addActionListener(this);
b2.addActionListener(this);
```

```
setSize(960,1080);
setUndecorated(true);
setLocation(500,0);
setVisible(true);
}
```

```
public void actionPerformed(ActionEvent ae){
try{
    String amount = t1.getText();
    Date date = new Date();
    if(ae.getSource()==b1){
        if(t1.getText().equals("")){
            JOptionPane.showMessageDialog(null, "Please enter the Amount to you want to
Deposit");
        }else{
            Conn c1 = new Conn();
            c1.s.executeUpdate("insert into bank values('"+pin+"', '"+date+"', 'Deposit',
 '"+amount+"')");
            JOptionPane.showMessageDialog(null, "Rs. "+amount+" Deposited Successfully");
            setVisible(false);
            new Transactions(pin).setVisible(true);
        }
    }else if(ae.getSource()==b2){
        setVisible(false);
        new Transactions(pin).setVisible(true);
    }
}
```

```

    }catch(Exception e){
        e.printStackTrace();
    }

}

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

```

Signup.java

```

package ASimulatorSystem;

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

public class Signup extends JFrame implements ActionListener{

    JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11,l12,l13,l14,l15;
    JTextField t1,t2,t3,t4,t5,t6,t7;
    JRadioButton r1,r2,r3,r4,r5;
    JButton b;
    JDateChooser dateChooser;

    Random ran = new Random();
    long first4 = (ran.nextLong() % 9000L) + 1000L;
    String first = "" + Math.abs(first4);

    Signup(){

```

```
setTitle("NEW ACCOUNT APPLICATION FORM");
```

```
ImageIcon i1 = new  
ImageIcon(ClassLoader.getResource("ASimulatorSystem/icons/logo.jpg"));  
Image i2 = i1.getImage().getScaledInstance(100, 100, Image.SCALE_DEFAULT);  
ImageIcon i3 = new ImageIcon(i2); JLabel l11 = new JLabel(i3); l11.setBounds(20,  
0, 100, 100); add(l11);
```

```
l1 = new JLabel("APPLICATION FORM NO. "+first);  
l1.setFont(new Font("Raleway", Font.BOLD, 38));
```

```
l2 = new JLabel("Page 1: Personal Details");  
l2.setFont(new Font("Raleway", Font.BOLD, 22));
```

```
l3 = new JLabel("Name:");  
l3.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l4 = new JLabel("Father's Name:");  
l4.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l5 = new JLabel("Date of Birth:");  
l5.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l6 = new JLabel("Gender:");  
l6.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l7 = new JLabel("Email Address:");  
l7.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l8 = new JLabel("Marital Status:");  
l8.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l9 = new JLabel("Address:");  
l9.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l10 = new JLabel("City:");  
l10.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l11 = new JLabel("Pin Code:");  
l11.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l12 = new JLabel("State:");  
l12.setFont(new Font("Raleway", Font.BOLD, 20));
```

```
l13 = new JLabel("Date");  
l13.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
l14 = new JLabel("Month");  
l14.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
l15 = new JLabel("Year");  
l15.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t1 = new JTextField();  
t1.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t2 = new JTextField();  
t2.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t3 = new JTextField();  
t3.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t4 = new JTextField();  
t4.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t5 = new JTextField();  
t5.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t6 = new JTextField();  
t6.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
t7 = new JTextField();  
t7.setFont(new Font("Raleway", Font.BOLD, 14));
```

```
b = new JButton("Next");
```

```
b.setFont(new Font("Raleway", Font.BOLD, 14));
b.setBackground(Color.BLACK);
b.setForeground(Color.WHITE);
```

```
r1 = new JRadioButton("Male"); r1.setFont(new
Font("Raleway", Font.BOLD, 14));
r1.setBackground(Color.WHITE);
r2 = new JRadioButton("Female");
r2.setFont(new Font("Raleway", Font.BOLD, 14));
r2.setBackground(Color.WHITE);
```

```
ButtonGroup groupgender = new ButtonGroup();
groupgender.add(r1); groupgender.add(r2);
```

```
r3 = new JRadioButton("Married");
r3.setFont(new Font("Raleway", Font.BOLD, 14));
r3.setBackground(Color.WHITE);
```

```
r4 = new JRadioButton("Unmarried");
r4.setFont(new Font("Raleway", Font.BOLD, 14));
r4.setBackground(Color.WHITE);
```

```
r5 = new JRadioButton("Other");
r5.setFont(new Font("Raleway", Font.BOLD, 14));
r5.setBackground(Color.WHITE);
```

```
ButtonGroup groupstatus = new ButtonGroup();
groupstatus.add(r3);
groupstatus.add(r4); groupstatus.add(r5);
```

```
dateChooser = new JDateChooser();
//dateChooser.setBorder(new LineBorder(new Color(0, 0, 0), 1, true));
dateChooser.setForeground(new Color(105, 105, 105));
dateChooser.setBounds(137, 337, 200, 29);
add(dateChooser);
```

```
setLayout(null);
l1.setBounds(140,20,600,40); add(l1);
```

```
l2.setBounds(290,80,600,30);  
add(l2);
```

```
l3.setBounds(100,140,100,30);  
add(l3);  
t1.setBounds(300,140,400,30);  
add(t1);
```

```
l4.setBounds(100,190,200,30);  
add(l4);
```

```
t2.setBounds(300,190,400,30);  
add(t2);
```

```
l5.setBounds(100,240,200,30);  
add(l5);
```

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

```
l6.setBounds(100,290,200,30);  
add(l6);
```

```
r1.setBounds(300,290,60,30);  
add(r1);
```

```
r2.setBounds(450,290,90,30);  
add(r2);
```

```
l7.setBounds(100,340,200,30);  
add(l7);
```

```
t3.setBounds(300,340,400,30);  
add(t3);
```

```
l8.setBounds(100,390,200,30);  
add(l8);
```

```
r3.setBounds(300,390,100,30);  
add(r3);
```

```
r4.setBounds(450,390,100,30);  
add(r4);
```

```
r5.setBounds(635,390,100,30);  
add(r5); l9.setBounds(100,440,200,30);  
add(l9);
```

```
t4.setBounds(300,440,400,30);  
add(t4);
```

```
l10.setBounds(100,490,200,30);  
add(l10);
```

```
t5.setBounds(300,490,400,30);  
add(t5);
```

```
l11.setBounds(100,540,200,30);  
add(l11);
```

```
t6.setBounds(300,540,400,30);  
add(t6);
```

```
l12.setBounds(100,590,200,30);  
add(l12);
```

```
t7.setBounds(300,590,400,30);  
add(t7);
```

```
b.setBounds(620,660,80,30);  
add(b);
```

```
b.addActionListener(this);
```

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

```
setSize(850,800);  
setLocation(500,120);  
setVisible(true);
```

```

    }

    public void actionPerformed(ActionEvent ae){ String formno = first;
        String name = t1.getText();
        String fname = t2.getText();
        String dob = ((JTextField) dateChooser.getDateEditor().getUiComponent()).getText();
        String gender = null;
        if(r1.isSelected()){
            gender = "Male";
        }else if(r2.isSelected()){
            gender = "Female";
        }

        String email = t3.getText();
        String marital = null;
        if(r3.isSelected()){
            marital = "Married";
        }else if(r4.isSelected()){
            marital = "Unmarried";
        }else if(r5.isSelected()){
            marital = "Other";
        }

        String address = t4.getText();
        String city = t5.getText();
        String pincode = t6.getText();
        String state = t7.getText();

        try{

            if(t6.getText().equals("")){
                JOptionPane.showMessageDialog(null, "Fill all the required fields");
            }else{
                Conn c1 = new Conn();
                String q1 = "insert into signup
values('"+formno+"','"+name+"','"+fname+"','"+dob+"','"+gender+"','"+email+"','"+marital+"',
 '"+address+"','"+city+"','"+pincode+"','"+state+"')";
                c1.s.executeUpdate(q1);
            }
        }
    }
}

```



```

        new Signup2(first).setVisible(true);
        setVisible(false);
    }

    }catch(Exception e){
        e.printStackTrace();
    }

}

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

```

## 7. Conclusion:

This project is developed to nurture the needs of a user in a banking sector by embedding all the tasks of transactions taking place in a bank. Future version of this project will still be much enhanced than the current version. Writing and depositing checks are perhaps the most fundamental ways to move money in and out of a checking account, but advancements in technology have added ATM and debit card transactions. All banks have rules about how long it takes to access your deposits, how many debit card transactions you're allowed in a day, and how much cash you can withdraw from an ATM. Access to the balance in your checking account can also be limited by businesses that place holds on your funds.

Banks are providing internet banking services also so that the customers can be attracted. By asking the bank employs we came to know that maximum numbers of internet bank account holders are youth and business man. Online banking is an innovative tool that is fast becoming a necessity. It is a successful strategic weapon for banks to remain profitable in a volatile and competitive marketplace of today. If proper training should be given to customer by the bank employs to open an account will be beneficial secondly the website should be made friendlier from where the customers can directly make and access their accounts. Thus, the Bank Management System it is developed and executed successfully.

