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ATM Simulator Machine

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**Administrative Modules**

Here in my project there are two types of modules. This module is the main module which

performs all the main operations in the system. The major operations in the system are:

**Admin Module**

Admin can access this project there is an authorization process. If you login as an Admin then

you will be redirected to the Admin Home Page and if you are a simple user you will be

redirected to your Account Home Page. This performs the following functions: Create

Individual Accounts, manage existing accounts, View all transactions, Balance enquiry,

Delete/close account etc.

1- Admin login

2- Add/delete/update account

3- Withdrawal/deposit/statements transaction

4- Account Information

5- User details list

6- Active/Inactive account

7- View transaction histories

**User Module**

A simple user can access their account and can deposit/withdraw money from their account.

User can also transfer money from their account to any other bank account. User can see their

transaction report and balance enquiry too.

1- User login, use PIN system

2- Creating/open new account registration

3- Funds transfer (local/international/domestic)

4- View statements transaction

5- User account details

6- Change Password and Pin

**Reference**

1. YouTube Channel

(https://www.youtube.com/playlist?list=PL5BFcXE899zxVrWaO3Ul6ly2SVJMnJFOr)

2. Online Bank Account Management System

Website: http://www.slideshare.net

3. Learning MYSQL

Website: http://www.w3schools.com

4. PHP and MySQL video tutorials

Website: http://www.freehinditutorial.com, http://www.youtube.com

Website:http://stackoverflow.com/questions/3937513/javascript-validation-for-empty-input-field

**Source Code**

**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()

{

setLayout(null);

setTitle("ATM Simulator");

ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("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);

getContentPane().setBackground(Color.WHITE);

JLabel text = new JLabel("Welcome to ATM");

text.setFont(new Font("Osward", Font.BOLD, 38));

text.setBounds(200, 40, 400, 40);

add(text);

JLabel cardno = new JLabel("Card no.");

cardno.setFont(new Font("Raleway", Font.BOLD, 28));

cardno.setBounds(120, 150, 400, 30);

add(cardno);

cardTextField = new JTextField();

cardTextField.setBounds(300, 150, 250, 30);

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

add(cardTextField);

JLabel pin = new JLabel("PIN");

pin.setFont(new Font("Raleway", Font.BOLD, 28));

pin.setBounds(120, 220, 400, 30);

add(pin);

pinTextField = new JPasswordField();

pinTextField.setBounds(300, 220, 250, 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);

setSize(800,480);

setVisible(true);

setLocation(500,200);

}

public void actionPerformed(ActionEvent ae)

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

{ Conn conn = new Conn();

String cardnumber = cardTextField.getText();

String pinnumber = pinTextField.getText();

String query = "select \* from signupthree 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");

}

}

catch(Exception e)

{ System.out.println(e);

}

}

else if (ae.getSource() == clear)

{ cardTextField.setText("");

pinTextField.setText("");

}

else if (ae.getSource() == signup)

{ setVisible(false);

new SignupOne().setVisible(true);

}

}

public static void main(String args[])

{

ne Login();

}

}

**SignupOne.java**

**package bank.management.system;**

**import javax.swing.\*;**

**import java.awt.\*;**

**import java.util.\*;**

**import com.toedter.calendar.JDateChooser;**

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

**import java.sql.\*;**

**public class SignupOne extends JFrame implements ActionListener**

**{ long random;**

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

**JButton next;**

**JRadioButton male, female, other, married, unmarried;**

**JDateChooser dateChooser;**

**Random ran;**

**SignupOne()**

**{**

**setLayout(null);**

**setTitle("Signup Page");**

**getContentPane().setBackground(Color.white);**

**setSize(800,800);**

**setVisible(true);**

**setLocation(500,80);**

**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, 700, 40);**

**add(formno);**

**JLabel personalDetails = new JLabel("Page 1 : Personal Details");**

**personalDetails.setFont(new Font("Raleway", Font.BOLD, 22));**

**personalDetails.setBounds(290, 80, 400, 30);**

**add(personalDetails);**

**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 fname = new JLabel("Father's Name : ");**

**fname.setFont(new Font("Raleway", Font.BOLD, 22));**

**fname.setBounds(100, 190, 200, 30);**

**add(fname);**

**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, 400, 30);**

**dateChooser.setForeground(new Color(105, 105, 105));**

**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, 60, 30);**

**male.setBackground(Color.WHITE);**

**add(male);**

**female = new JRadioButton("Female");**

**female.setBackground(Color.WHITE);**

**female.setBounds(450, 290, 100, 30);**

**add(female);**

**ButtonGroup genderGroup = new ButtonGroup();**

**genderGroup.add(male);**

**genderGroup.add(female);**

**JLabel email = new JLabel("E-mail : ");**

**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, 100, 30);**

**married.setBackground(Color.WHITE);**

**add(married);**

**unmarried = new JRadioButton("Unmarried");**

**unmarried.setBackground(Color.WHITE);**

**unmarried.setBounds(450, 390, 100, 30);**

**add(unmarried);**

**other = new JRadioButton("Other");**

**other.setBackground(Color.WHITE);**

**other.setBounds(630, 390, 100, 30);**

**add(other);**

**ButtonGroup marritalStatus = new ButtonGroup();**

**marritalStatus.add(married);**

**marritalStatus.add(unmarried);**

**marritalStatus.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, 30);**

**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, 660, 80, 30);**

**next.addActionListener(this);**

**add(next);**

**}**

**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 state = stateTextField.getText();**

**String city = cityTextField.getText();**

**String pin = pinTextField.getText();**

**try // validation**

**{ if(name.equals(" "))**

**{ JOptionPane.showMessageDialog(null, "Name is Required.");**

**}**

**else**

**{ Conn c = new Conn();**

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

**System.out.println(formno);**

**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 javax.swing.\*;

import java.awt.\*;

import java.util.\*;

import com.toedter.calendar.JDateChooser;

import java.awt.event.\*;

import java.sql.\*;

public class SignupTwo extends JFrame implements ActionListener

{

long random;

JTextField pan, aadhar;

JButton next;

JComboBox religion, category, occupation, education, income;

JRadioButton syes, sno, eyes, eno;

String formno;

SignupTwo(String formno)

{

this.formno = formno;

setLayout(null);

setTitle("New Account Application Form - Page 2");

getContentPane().setBackground(Color.white);

setSize(800,800);

setVisible(true);

setLocation(500,80);

//System.out.println(formno);

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", "Christian", "Other"};

religion = new JComboBox(valReligion);

religion.setBounds(300, 140, 400, 30);

religion.setBackground(Color.WHITE);

add(religion);

JLabel fname = new JLabel("Category : ");

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

fname.setBounds(100, 190, 200, 30);

add(fname);

String valcategory[] = {"General", "OBC", "SC", "ST"};

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", "1,50,000<2,50,000", "2,50,000<5,00,000", ">5,00,000"};

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, 315, 200, 30);

add(email);

String educationVal[] = {"Non Grad", "Grad", "Post Grad", "Mastery", "Other"};

education = new JComboBox(educationVal);

education.setBounds(300, 315, 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 occupationVal[] = {"Salaried", "Self Employed", "Business", "Retired", "Other"};

occupation = new JComboBox(occupationVal);

occupation.setBounds(300, 390, 400, 30);

occupation.setBackground(Color.WHITE);

add(occupation);

JLabel address = new JLabel("PAN No. : ");

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

address.setBounds(100, 440, 200, 30);

add(address);

pan = new JTextField();

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

pan.setBounds(300, 440, 400, 30);

add(pan);

JLabel city = new JLabel("Aadhar No. : ");

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

city.setBounds(100, 490, 200, 30);

add(city);

aadhar = new JTextField();

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

aadhar.setBounds(300, 490, 400, 30);

add(aadhar);

JLabel state = new JLabel("Senior Citizen : ");

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

state.setBounds(100, 540, 200, 30);

add(state);

syes = new JRadioButton("Yes");

syes.setBounds(300, 540, 100, 30);

syes.setBackground(Color.WHITE);

add(syes);

sno = new JRadioButton("No");

sno.setBackground(Color.WHITE);

sno.setBounds(450, 540, 100, 30);

add(sno);

ButtonGroup senior = new ButtonGroup();

senior.add(syes);

senior.add(sno);

JLabel pincode = new JLabel("Exisitng Account? : ");

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

pincode.setBounds(100, 590, 200, 30);

add(pincode);

eyes = new JRadioButton("Yes");

eyes.setBounds(300, 590, 100, 30);

eyes.setBackground(Color.WHITE);

add(eyes);

eno = new JRadioButton("No");

eno.setBackground(Color.WHITE);

eno.setBounds(450, 590, 100, 30);

add(eno);

ButtonGroup exist = new ButtonGroup();

exist.add(eyes);

exist.add(eno);

next = new JButton("Next");

next.setBackground(Color.BLACK);

next.setForeground(Color.WHITE);

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

next.setBounds(620, 660, 80, 30);

next.addActionListener(this);

add(next);

}

public void actionPerformed(ActionEvent ae)

{

//String formno = ""+ random;

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 sseniorcitizen = null;

if(syes.isSelected())

{ sseniorcitizen = "Yes";

}

else if (sno.isSelected())

{ sseniorcitizen = "No";

}

String sexisting = null;

if (eyes.isSelected())

{ sexisting = "Yes";

}

else if (eno.isSelected())

{ sexisting = "No";

}

String span = pan.getText();

String saadhar = aadhar.getText();

try // validation

{

Conn c = new Conn();

String query = "insert into signuptwo values('"+formno+"','"+sreligion+"','"+scategory+"','"+sincome+"','"+seducation+"','"+soccupation+"','"+span+"','"+saadhar+"','"+sseniorcitizen+"','"+sexisting+"')";

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);

getContentPane().setBackground(Color.white);

setSize(800,800);

setVisible(true);

setLocation(500,80);

JLabel l1 = new JLabel("Page 3 : Additional 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("Saving 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 Depost Account");

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

r2.setBackground(Color.WHITE);

r2.setBounds(350, 180, 260, 20);

add(r2);

r3= new JRadioButton("Current Account");

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

r3.setBackground(Color.WHITE);

r3.setBounds(100, 220, 180, 20);

add(r3);

r4= new JRadioButton("Recurring Deposit Account");

r4.setFont(new Font("Raleway", Font.BOLD, 16));

r4.setBackground(Color.WHITE);

r4.setBounds(350, 220, 260, 20);

add(r4);

ButtonGroup groupaccount = new ButtonGroup();

groupaccount.add(r1);

groupaccount.add(r2);

groupaccount.add(r3);

groupaccount.add(r4);

JLabel l2 = new JLabel("Card Number");

l2.setFont(new Font("Raleway", Font.BOLD, 22));

l2.setBounds(100, 300, 200, 30);

add(l2);

JLabel l3 = new JLabel("XXXX-XXXX-XXXX-4129");

l3.setFont(new Font("Raleway", Font.BOLD, 22));

l3.setBounds(330, 300, 250, 30);

add(l3);

JLabel l35 = new JLabel("Your 16 digit card number.");

l35.setFont(new Font("Raleway", Font.BOLD, 12));

l35.setBounds(100, 330, 300, 20);

add(l35);

JLabel l4 = new JLabel("PIN : ");

l4.setFont(new Font("Raleway", Font.BOLD, 22));

l4.setBounds(100, 370, 200, 30);

add(l4);

JLabel l45 = new JLabel("Your 4 digit PIN");

l45.setFont(new Font("Raleway", Font.BOLD, 12));

l45.setBounds(100, 400, 300, 20);

add(l45);

JLabel l5 = new JLabel("XXXX");

l5.setFont(new Font("Raleway", Font.BOLD, 22));

l5.setBounds(330, 370, 250, 30);

add(l5);

JLabel l6 = new JLabel("Services Required : ");

l6.setFont(new Font("Raleway", Font.BOLD, 22));

l6.setBounds(100, 450, 400, 30);

add(l6);

c1= new JCheckBox("ATM Card");

c1.setBackground(Color.WHITE);

c1.setFont(new Font("Raleway", Font.BOLD, 16));

c1.setBounds(100, 500, 200, 30);

add(c1);

c2= new JCheckBox("Internet Banking");

c2.setBackground(Color.WHITE);

c2.setFont(new Font("Raleway", Font.BOLD, 16));

c2.setBounds(350, 500, 200, 30);

add(c2);

c3= new JCheckBox("Mobile Banking");

c3.setBackground(Color.WHITE);

c3.setFont(new Font("Raleway", Font.BOLD, 16));

c3.setBounds(100, 550, 200, 30);

add(c3);

c4= new JCheckBox("E-mail/SMS Alerts");

c4.setBackground(Color.WHITE);

c4.setFont(new Font("Raleway", Font.BOLD, 16));

c4.setBounds(350, 550, 200, 30);

add(c4);

c5= new JCheckBox("Chque Book");

c5.setBackground(Color.WHITE);

c5.setFont(new Font("Raleway", Font.BOLD, 16));

c5.setBounds(100, 600, 200, 30);

add(c5);

c6= new JCheckBox("E-statement");

c6.setBackground(Color.WHITE);

c6.setFont(new Font("Raleway", Font.BOLD, 16));

c6.setBounds(350, 600, 200, 30);

add(c6);

c7= new JCheckBox("I accept the terms and conditions.");

c7.setBackground(Color.WHITE);

c7.setFont(new Font("Raleway", Font.BOLD, 16));

c7.setBounds(100, 680, 600, 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, 720, 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, 720, 100, 30);

cancel.addActionListener(this);

add(cancel);

}

public void actionPerformed(ActionEvent ae)

{

if(ae.getSource()== submit)

{ String accountType = null;

if(r1.isSelected())

{ accountType = "Saving Account";

}

else if(r2.isSelected())

{ accountType = "Fixed Deposit Account";

}

else if(r3.isSelected())

{ accountType = "Current Account";

}

else if(r4.isSelected())

{ accountType = "Recurring 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 + " Email/SMS Alerts";

}

else if (c5.isSelected())

{ facility = facility + " Cheque Book";

}

else if (c6.isSelected())

{ facility = facility + " E-Statement";

}

try { if(accountType.equals(""))

{

JOptionPane.showMessageDialog(null, "Account Type is required.");

} else

{ Conn conn = new Conn();

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

conn.s.executeUpdate(query);

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

setVisible(false);

new Deposit(pinnumber).setVisible(true);

}

} catch (Exception e)

{ System.out.println(e);

}

}

else if (ae.getSource() == cancel)

{ JOptionPane.showMessageDialog(null, "Process Cancelled Successsfully");

System.exit(0);

}

} public static void main(String args[])

{ new SignupThree("");

}

}

**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, fastCash, pinChange, cashWithdraw, miniStatement, balanceEnquiry, exit;

String pinnumber;

Transactions(String pinnumber)

{ this.pinnumber = pinnumber;

setLayout(null);

//getContentPane().setBackground(Color.white);

setSize(800,800);

setLocation(500,80);

setUndecorated(true);

ImageIcon i1= new ImageIcon(ClassLoader.getSystemResource("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(0,0,790,760);

add(image);

JLabel text = new JLabel("Please select your transaction.");

text.setBounds(140, 230, 700, 35);

text.setForeground(Color.WHITE);

text.setFont(new Font("Raleway", Font.BOLD, 20));

image.add(text);

deposit = new JButton("Deposit");

deposit.setBounds(100, 348, 170, 28);

deposit.setForeground(Color.BLACK);

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

deposit.addActionListener(this);

image.add(deposit);

fastCash = new JButton("Fast Cash");

fastCash.setBounds(100, 382, 170, 28);

fastCash.setForeground(Color.BLACK);

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

fastCash.addActionListener(this);

image.add(fastCash);

pinChange = new JButton("Pin Change");

pinChange.setBounds(100, 415, 170, 28);

pinChange.setForeground(Color.BLACK);

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

pinChange.addActionListener(this);

image.add(pinChange);

cashWithdraw = new JButton("Cash Withdrawal");

cashWithdraw.setBounds(290, 348, 170, 28);

cashWithdraw.setForeground(Color.BLACK);

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

cashWithdraw.addActionListener(this);

image.add(cashWithdraw);

miniStatement = new JButton("Mini Statement");

miniStatement.setBounds(290, 382, 170, 28);

miniStatement.setForeground(Color.BLACK);

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

miniStatement.addActionListener(this);

image.add(miniStatement);

balanceEnquiry = new JButton("Balance Enquiry");

balanceEnquiry.setBounds(290, 416, 170, 28);

balanceEnquiry.setForeground(Color.BLACK);

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

balanceEnquiry.addActionListener(this);

image.add(balanceEnquiry);

exit = new JButton("Exit");

exit.setBounds(290, 450, 170, 28);

exit.setForeground(Color.BLACK);

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

exit.addActionListener(this);

image.add(exit);

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() == cashWithdraw)

{ setVisible(false);

new Withrawal(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() == balanceEnquiry)

{ setVisible(false);

new BalanceEnquiry(pinnumber).setVisible(true);

}

else if(ae.getSource() == miniStatement)

{ setVisible(false);

new MiniStatement(pinnumber).setVisible(true);

}

}

public static void main(String args[])

{

new Transactions("");

}

}

**Conn.java**

package bank.management.system;

import java.sql.\*;

public class Conn

{ Connection c;

Statement s;

public Conn()

{ try

{

//Class.forName(com.mysql.c.jdbc.Driver);

c=DriverManager.getConnection("jdbc:mysql:///bankmanagementsystem", "root", "Gamer@5507");

s=c.createStatement();

}

catch (Exception e)

{ System.out.println(e);

}

}

}

SQL Queries :-

create database bankmanagementsystem;

show databases;

use bankmanagementsystem;

create table signup(formno varchar(20), name varchar(20), f\_name varchar(20), dob varchar(20), gender varchar(20), email varchar(30), marrital\_status varchar(20), address varchar(40), city varchar(20), pincode varchar(20), state varchar(20));

show tables;

select \* from signup;

create table signuptwo(formno varchar(20), religion varchar(20), category varchar(20), income varchar(20), education varchar(20), occupation varchar(20), pan varchar(20), aadhar varchar(20), senioritizen varchar(20), existingaccount varchar(20));

show tables;

select \* from signuptwo;

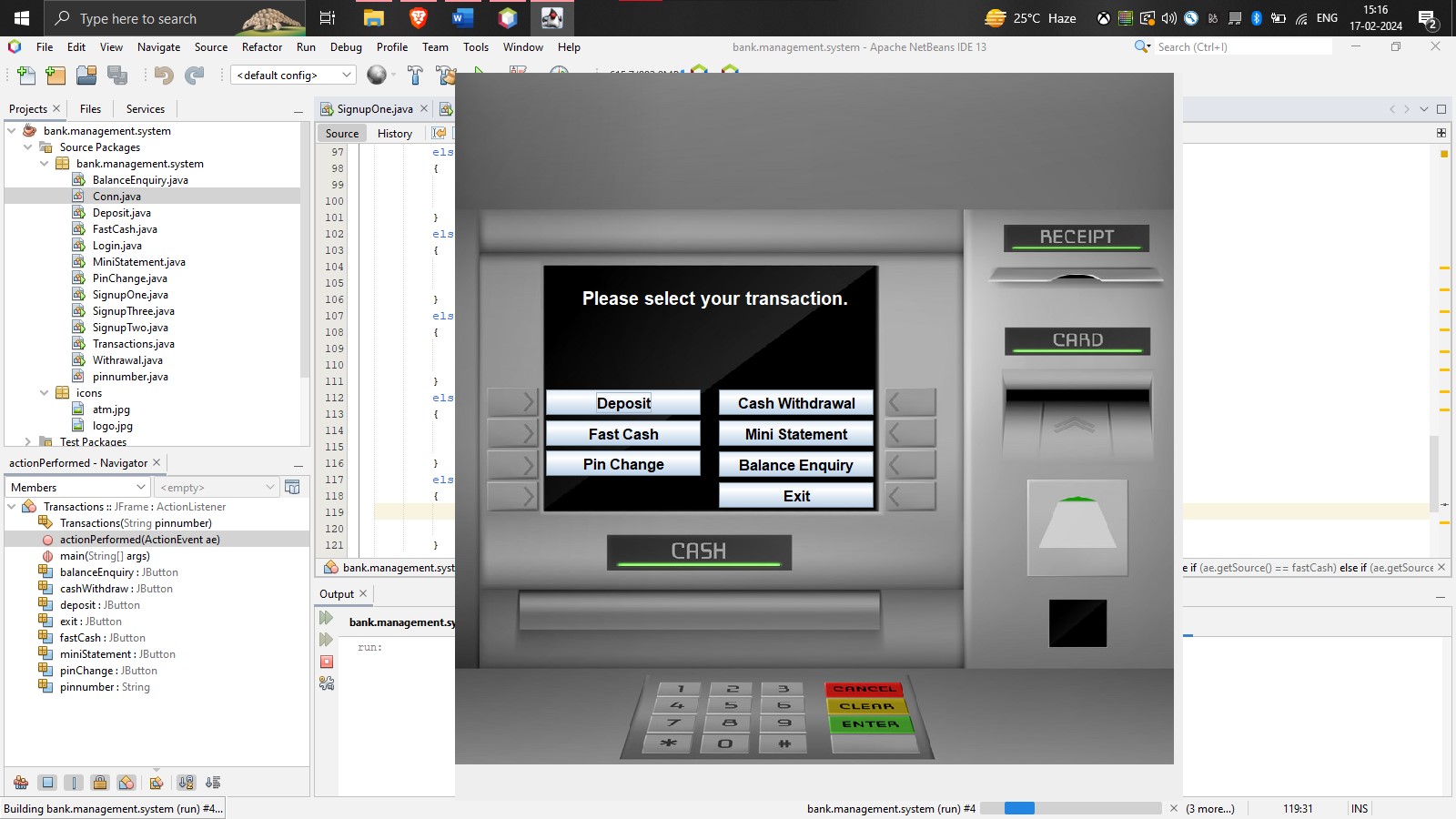
create table signupthree(formno varchar(20), accountType varchar(20), cardnumber varchar(25), pin varchar(10), facility varchar(100));

select \* from signupthree;

create table bank(pin varchar(20), date varchar(50), type varchar(20), amount varchar(20));

select \* from bank;

**Screenshots**

****

