WOXSEN UNIVERSITY

Project Report on

“BANK MANAGEMENT SYSTEM”

Relational Database Management System

B.Tech *2027*

(Branch – CSE(AIML))

Submitted To:

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Introduction

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.

Abstract

The Bank Account Management System is an application for maintaining a person's account in a bank. In this project I tried to show the working of a banking account system and cover the basic functionality of a Bank Account Management System. To develop a project for solving financial applications of a customer in banking environment in order to nurture the needs of an end banking user by providing various ways to perform banking tasks. Also, to enable the user's work space to have additional functionalities which are not provided under a conventional banking project.

The Bank Account Management System undertaken as a project is based on relevant technologies. The main aim of this project is to develop software for Bank Account Management System. This project has been developed to carry out the processes easily and quickly, which is not possible with the manuals systems, which are overcome by this software. This project is developed using Java language. Creating and managing requirements is a challenge of IT, systems and product development projects or indeed for any activity where you have to manage a contractual relationship. Organization need to effectively define and manage requirements to ensure they are meeting needs of the customer, while proving compliance and staying on the schedule and within budget.

The impact of a poorly expressed requirement can bring a business out of compliance or even cause injury or death. Requirements definition and management is an activity that can deliver a high, fast return on investment. The project analyzes the system requirements and then comes up with the requirements specifications. It studies other related systems and then come up with system specifications. The system is then designed in accordance with specifications to satisfy the requirements. The system design is then implemented with Java. The system is designed as an interactive and content management system. The content management system deals with data entry, validation confirm and updating whiles the interactive system deals with system interaction with the administration and users. Thus, above features of this project will save transaction time and therefore increase the efficiency of the system

AIM of this project

The main aim of designing and developing this Internet banking System Java primarily based Engineering project is to provide secure and efficient net banking facilities to the banking customers over the internet. Apache Server Pages, MYSQL database used to develop this bank application where all banking customers can login through the secured web page by their account login id and password. Users will have all options and features in that application like get money from western union, money transfer to others, and send cash or money to inter banking as well as other banking customers by simply adding them as payees.

Main Purpose

The Traditional way of maintaining details of a user in a bank was to enter the details and record them. Every time the user needs to perform some transactions he has to go to bank and perform the necessary actions, which may not be so feasible all the time. It may be a hard-hitting task for the users and the bankers too. The project gives real life understanding of Online Banking System and activities performed by various roles in the supply chain. Here, we provide automation for banking system through Internet. Online Banking System project captures activities performed by different roles in real life banking which provides enhanced techniques for maintaining the required information up-to-date, which results in efficiency. The project gives real life understanding of Online Banking System and activities performed by various roles in the supply chain

Main Goal

1. Motto- Our motto is to develop a software program for managing the entire bank process related to Administration accounts customer accounts and to keep each every track about their property and their various transaction processes efficiently.
Hereby, our main objective is the customer's satisfaction considering today's faster in the world.

2. Customer Satisfaction: Client can do his operations comfortably without any risk or losing of his privacy. Our software will perform and fulfill all the tasks that any customer would desire.

3. Saving Customer Time: Client doesn't need to go to the bank to do small operation.

4. Protecting the Customer: It helps the customer to be satisfied and comfortable in his choices, this protection contains customer's account, money and his privacy.

5. Transferring Money: Help client transferring money to/or another bank or country.

Methods

- We need to be able to generate an account number
- Account types: Savings or Current Account

- Maintain/update Balance
- Open/Close Account
- Withdraw/Deposit

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

Future Look

The “Banking Online System is a big and ambitious project. I am thankful for being provided this great opportunity to work on it. As already mentioned, this project has gone through extensive research work. On the basis of the research work, we have successfully designed and implemented banking online System. To know what the future of online banking looks like, it’s probably worth looking at the present – online banking isn’t new. When you think of online banking, you probably think about a computer (either a desktop or laptop), a three or four step security process and then an interface that lets you view the balance of your various bank accounts and credit cards, whilst permitting you to transfer money and pay bills. And you’re not wrong either. The most valuable future looks are following below:

1- More branches of the bank, maybe it will be international, that means more ATM machines outside.
2- Customer issues development based on their needs, so the help desk will be aware of their needs and easy to use.
3- Developing a mobile App for banking system that help users to do the obtained his operations without go to the bank only he needs to sign in using his A/C NO. And password and then use your own PIN. Finally the system will update automatically.

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.

Reference

1. Learning MYSQL, JavaScript, jQuery, PHP, HTML, CSS3,
Website: http://www.w3schools.com

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

3. JavaScript form validation: Validate Password, Validate Email, Validate Phone Number, http://webcheatsheet.com/javascript/form_validation.php

Source Code

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.getSystemResource("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);
    }
```

```
}
```

Login.java

```
package ASimulatorSystem;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import java.sql.*;

public class Login extends JFrame implements ActionListener{
    JLabel l1,l2,l3;
    JTextField tf1;
    JPasswordField pf2;
    JButton b1,b2,b3;

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

        ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("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(70, 10, 100, 100);
        add(l11);

        l1 = new JLabel("WELCOME TO ATM");
        l1.setFont(new Font("Osward", Font.BOLD, 38));
        l1.setBounds(200,40,450,40);
        add(l1);

        l2 = new JLabel("Card No:");
        l2.setFont(new Font("Raleway", Font.BOLD, 28));
        l2.setBounds(125,150,375,30);
        add(l2);

        tf1 = new JTextField(15);
        tf1.setBounds(300,150,230,30);
        tf1.setFont(new Font("Arial", Font.BOLD, 14));
        add(tf1);

        l3 = new JLabel("PIN:");
        l3.setFont(new Font("Raleway", Font.BOLD, 28));
```

```
        l3.setBounds(125,220,375,30);
        add(l3);

        pf2 = new JPasswordField(15);
        pf2.setFont(new Font("Arial", Font.BOLD, 14));
        pf2.setBounds(300,220,230,30);
        add(pf2);

        b1 = new JButton("SIGN IN");
        b1.setBackground(Color.BLACK);
        b1.setForeground(Color.WHITE);

        b2 = new JButton("CLEAR");
        b2.setBackground(Color.BLACK);
        b2.setForeground(Color.WHITE);

        b3 = new JButton("SIGN UP");
        b3.setBackground(Color.BLACK);
        b3.setForeground(Color.WHITE);

        setLayout(null);

        b1.setFont(new Font("Arial", Font.BOLD, 14));
        b1.setBounds(300,300,100,30);
        add(b1);

        b2.setFont(new Font("Arial", Font.BOLD, 14));
        b2.setBounds(430,300,100,30);
        add(b2);

        b3.setFont(new Font("Arial", Font.BOLD, 14));
        b3.setBounds(300,350,230,30);
        add(b3);

        b1.addActionListener(this);
        b2.addActionListener(this);
        b3.addActionListener(this);

        getContentPane().setBackground(Color.WHITE);

        setSize(800,480);
        setLocation(550,200);
        setVisible(true);

    }
```

```
    public void actionPerformed(ActionEvent ae){
        try{
            if(ae.getSource()==b1){
                Conn c1 = new Conn();
                String cardno  = tf1.getText();
                String pin  = pf2.getText();
                String q  = "select * from login where cardnumber = '"+cardno+"'
and pin = '"+pin+"'";

                ResultSet rs = c1.s.executeQuery(q);
                if(rs.next()){
                    setVisible(false);
                    new Transactions(pin).setVisible(true);
                }else{
                    JOptionPane.showMessageDialog(null, "Incorrect Card Number or
PIN");
                }
            }else if(ae.getSource()==b2){
                tf1.setText("");
                pf2.setText("");
            }else if(ae.getSource()==b3){
                setVisible(false);
                new Signup().setVisible(true);
            }
        }catch(Exception e){
            e.printStackTrace();
        }
    }
    public static void main(String[] args){
        new Login().setVisible(true);
    }


}
```

Conn.java

```
package ASimulatorSystem;

import java.sql.*;

public class Conn{
    Connection c;
    Statement s;
    public Conn(){
        try{
```

```
            Class.forName("com.mysql.cj.jdbc.Driver");
            c
=DriverManager.getConnection("jdbc:mysql:///BankManagementSystem","root","SQL123"
);
            s =c.createStatement();
        }catch(Exception e){
            System.out.println(e);
        }
    }
}
```

BalancyEnquiry.java

```
package ASimulatorSystem;
import java.awt.*;
import java.awt.event.*;
import java.sql.ResultSet;
import javax.swing.*;

class BalanceEnquiry extends JFrame implements ActionListener {

    JTextField t1, t2;
    JButton b1, b2, b3;
    JLabel l1, l2, l3;
    String pin;

    BalanceEnquiry(String pin) {
        this.pin = pin;

        ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("ASimulatorSystem/icons/atm.jpg"));
        Image i2 = i1.getImage().getScaledInstance(1000,
1180,Image.SCALE_DEFAULT);
        ImageIcon i3 = new ImageIcon(i2);
        l3 = new JLabel(i3);
        l3.setBounds(0, 0, 960, 1080);
        add(l3);

        l1 = new JLabel();
        l1.setForeground(Color.WHITE);
        l1.setBounds(190, 350, 400, 35);
        l1.setFont(new Font("System", Font.BOLD, 16));

        b1 = new JButton("BACK");

        setLayout(null);
```

```
        b1.setBounds(390, 633, 150, 35);
        l3.add(b1);
        int balance = 0;
        try{
            Conn c1 = new Conn();
            ResultSet rs = c1.s.executeQuery("select * from bank where pin =
'"+pin+"'");
            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);}

        l1.setText("Your Current Account Balance is Rs "+balance);
        l3.add(l1);

        b1.addActionListener(this);

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

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

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

Fastcash.java

```
package ASimulatorSystem;

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

```
import java.util.Date;

public class FastCash extends JFrame implements ActionListener {

    JLabel l1, l2;
    JButton b1, b2, b3, b4, b5, b6, b7, b8;
    JTextField t1;
    String pin;

    FastCash(String pin) {
        this.pin = pin;
        ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("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("SELECT WITHDRAWL AMOUNT");
        l1.setForeground(Color.WHITE);
        l1.setFont(new Font("System", Font.BOLD, 16));

        b1 = new JButton("Rs 100");
        b2 = new JButton("Rs 500");
        b3 = new JButton("Rs 1000");
        b4 = new JButton("Rs 2000");
        b5 = new JButton("Rs 5000");
        b6 = new JButton("Rs 10000");
        b7 = new JButton("BACK");

        setLayout(null);

        l1.setBounds(235, 400, 700, 35);
        l3.add(l1);

        b1.setBounds(170, 499, 150, 35);
        l3.add(b1);

        b2.setBounds(390, 499, 150, 35);
        l3.add(b2);

        b3.setBounds(170, 543, 150, 35);
        l3.add(b3);
```

```
        b4.setBounds(390, 543, 150, 35);
        l3.add(b4);

        b5.setBounds(170, 588, 150, 35);
        l3.add(b5);

        b6.setBounds(390, 588, 150, 35);
        l3.add(b6);

        b7.setBounds(390, 633, 150, 35);
        l3.add(b7);

        b1.addActionListener(this);
        b2.addActionListener(this);
        b3.addActionListener(this);
        b4.addActionListener(this);
        b5.addActionListener(this);
        b6.addActionListener(this);
        b7.addActionListener(this);

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

    }

    public void actionPerformed(ActionEvent ae) {
        try {
            String amount = ((JButton)ae.getSource()).getText().substring(3); //k
            Conn c = new Conn();
            ResultSet rs = c.s.executeQuery("select * from bank where pin =
'"+pin+"'");
            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() != b7 && balance < Integer.parseInt(amount)) {
                JOptionPane.showMessageDialog(null, "Insuffient Balance");
                return;
```

```
            }

            if (ae.getSource() == b7) {
                this.setVisible(false);
                new Transactions(pin).setVisible(true);
            }else{
                Date date = new Date();
                c.s.executeUpdate("insert into bank values('"+pin+"', '"+date+"',
'Withdrawl', '"+amount+"')");
                JOptionPane.showMessageDialog(null, "Rs. "+amount+" Debited
Successfully");

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

    }

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

Mini Statement.java

```
package ASimulatorSystem;

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

public class MiniStatement extends JFrame implements ActionListener{

    JButton b1, b2;
    JLabel l1;
    MiniStatement(String pin){
        super("Mini Statement");
        getContentPane().setBackground(Color.WHITE);
        setSize(400,600);
        setLocation(20,20);

        l1 = new JLabel();
```

```
        add(l1);

        JLabel l2 = new JLabel("Indian Bank");
        l2.setBounds(150, 20, 100, 20);
        add(l2);

        JLabel l3 = new JLabel();
        l3.setBounds(20, 80, 300, 20);
        add(l3);

        JLabel l4 = new JLabel();
        l4.setBounds(20, 400, 300, 20);
        add(l4);

        try{
            Conn c = new Conn();
            ResultSet rs = c.s.executeQuery("select * from login where pin =
'"+pin+"'");
            while(rs.next()){
                l3.setText("Card Number:    " +
rs.getString("cardnumber").substring(0, 4) + "XXXXXXXX" +
rs.getString("cardnumber").substring(12));
            }
        }catch(Exception e){}

        try{
            int balance = 0;
            Conn c1  = new Conn();
            ResultSet rs = c1.s.executeQuery("SELECT * FROM bank where pin =
'"+pin+"'");
            while(rs.next()){
                l1.setText(l1.getText() + "<html>"+rs.getString("date")+
"     " + rs.getString("type") +
"          " +
rs.getString("amount") + "<br><br><html>");
                if(rs.getString("type").equals("Deposit")){
                    balance += Integer.parseInt(rs.getString("amount"));
                }else{
                    balance -= Integer.parseInt(rs.getString("amount"));
                }
            }
            l4.setText("Your total Balance is Rs "+balance);
        }catch(Exception e){
            e.printStackTrace();
        }
```

```
        setLayout(null);
        b1 = new JButton("Exit");
        add(b1);

        b1.addActionListener(this);

        l1.setBounds(20, 140, 400, 200);
        b1.setBounds(20, 500, 100, 25);
    }
    public void actionPerformed(ActionEvent ae){
        this.setVisible(false);
    }

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

}
```

Pin.java

```
package ASimulatorSystem;

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

public class Pin extends JFrame implements ActionListener{

    JPasswordField t1,t2;
    JButton b1,b2;
    JLabel l1,l2,l3;
    String pin;
    Pin(String pin){
        this.pin = pin;
        ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("ASimulatorSystem/icons/atm.jpg"));
        Image i2 = i1.getImage().getScaledInstance(1000, 1180,
Image.SCALE_DEFAULT);
        ImageIcon i3 = new ImageIcon(i2);
        JLabel l4 = new JLabel(i3);
        l4.setBounds(0, 0, 960, 1080);
        add(l4);
```

```
        l1 = new JLabel("CHANGE YOUR PIN");
        l1.setFont(new Font("System", Font.BOLD, 16));
        l1.setForeground(Color.WHITE);

        l2 = new JLabel("New PIN:");
        l2.setFont(new Font("System", Font.BOLD, 16));
        l2.setForeground(Color.WHITE);

        l3 = new JLabel("Re-Enter New PIN:");
        l3.setFont(new Font("System", Font.BOLD, 16));
        l3.setForeground(Color.WHITE);

        t1 = new JPasswordField();
        t1.setFont(new Font("Raleway", Font.BOLD, 25));

        t2 = new JPasswordField();
        t2.setFont(new Font("Raleway", Font.BOLD, 25));

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

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

        setLayout(null);

        l1.setBounds(280,330,800,35);
        l4.add(l1);

        l2.setBounds(180,390,150,35);
        l4.add(l2);

        l3.setBounds(180,440,200,35);
        l4.add(l3);

        t1.setBounds(350,390,180,25);
        l4.add(t1);

        t2.setBounds(350,440,180,25);
        l4.add(t2);

        b1.setBounds(390,588,150,35);
        l4.add(b1);
```

```
        b2.setBounds(390,633,150,35);
        l4.add(b2);

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

    }

    public void actionPerformed(ActionEvent ae){
        try{
            String npin = t1.getText();
            String rpin = t2.getText();

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

            if(ae.getSource()==b1){
                if (t1.getText().equals("")){
                    JOptionPane.showMessageDialog(null, "Enter New PIN");
                }
                if (t2.getText().equals("")){
                    JOptionPane.showMessageDialog(null, "Re-Enter new PIN");
                }

                Conn c1 = new Conn();
                String q1 = "update bank set pin = '"+rpin+"' where pin =
'"+pin+"' ";
                String q2 = "update login set pin = '"+rpin+"' where pin =
'"+pin+"' ";
                String q3 = "update signupthree set pin = '"+rpin+"' where pin =
'"+pin+"' ";

                c1.s.executeUpdate(q1);
                c1.s.executeUpdate(q2);
                c1.s.executeUpdate(q3);

                JOptionPane.showMessageDialog(null, "PIN changed successfully");
                setVisible(false);
                new Transactions(rpin).setVisible(true);
```

```
            }else if(ae.getSource()==b2){
                new Transactions(pin).setVisible(true);
                setVisible(false);
            }
        }catch(Exception e){
            e.printStackTrace();
        }
    }

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

Signup.java

```
package ASimulatorSystem;

import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
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.getSystemResource("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{
            boolean result1 = (pincode.equals("")) || (city.equals("")) ||
(state.equals("")) || (address.equals("")) || (marital == null);
            if(result1){
                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);
    }
}
```

Signup2.java

```
package ASimulatorSystem;

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

public class Signup2 extends JFrame implements ActionListener{
```

```
    JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11,l12,l13;
    JButton b;
    JRadioButton r1,r2,r3,r4;
    JTextField t1,t2,t3;
    JComboBox c1,c2,c3,c4,c5;
    String formno;
    Signup2(String formno){

        ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("ASimulatorSystem/icons/logo.jpg"));
        Image i2 = i1.getImage().getScaledInstance(100, 100,
Image.SCALE_DEFAULT);
        ImageIcon i3 = new ImageIcon(i2);
        JLabel l14 = new JLabel(i3);
        l14.setBounds(150, 0, 100, 100);
        add(l14);


        this.formno = formno;
        setTitle("NEW ACCOUNT APPLICATION FORM - PAGE 2");

        l1 = new JLabel("Page 2: Additonal Details");
        l1.setFont(new Font("Raleway", Font.BOLD, 22));

        l2 = new JLabel("Religion:");
        l2.setFont(new Font("Raleway", Font.BOLD, 18));

        l3 = new JLabel("Category:");
        l3.setFont(new Font("Raleway", Font.BOLD, 18));

        l4 = new JLabel("Income:");
        l4.setFont(new Font("Raleway", Font.BOLD, 18));

        l5 = new JLabel("Educational");
        l5.setFont(new Font("Raleway", Font.BOLD, 18));

        l11 = new JLabel("Qualification:");
        l11.setFont(new Font("Raleway", Font.BOLD, 18));

        l6 = new JLabel("Occupation:");
        l6.setFont(new Font("Raleway", Font.BOLD, 18));

        l7 = new JLabel("PAN Number:");
        l7.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
        l8 = new JLabel("Aadhar Number:");
        l8.setFont(new Font("Raleway", Font.BOLD, 18));

        l9 = new JLabel("Senior Citizen:");
        l9.setFont(new Font("Raleway", Font.BOLD, 18));

        l10 = new JLabel("Existing Account:");
        l10.setFont(new Font("Raleway", Font.BOLD, 18));

        l12 = new JLabel("Form No:");
        l12.setFont(new Font("Raleway", Font.BOLD, 13));

        l13 = new JLabel(formno);
        l13.setFont(new Font("Raleway", Font.BOLD, 13));

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

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

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

        r1 = new JRadioButton("Yes");
        r1.setFont(new Font("Raleway", Font.BOLD, 14));
        r1.setBackground(Color.WHITE);

        r2 = new JRadioButton("No");
        r2.setFont(new Font("Raleway", Font.BOLD, 14));
        r2.setBackground(Color.WHITE);

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

        r4 = new JRadioButton("No");
        r4.setFont(new Font("Raleway", Font.BOLD, 14));
        r4.setBackground(Color.WHITE);


        String religion[] = {"Hindu","Muslim","Sikh","Christian","Other"};
```

```
        c1 = new JComboBox(religion);
        c1.setBackground(Color.WHITE);
        c1.setFont(new Font("Raleway", Font.BOLD, 14));

        String category[] = {"General","OBC","SC","ST","Other"};
        c2 = new JComboBox(category);
        c2.setBackground(Color.WHITE);
        c2.setFont(new Font("Raleway", Font.BOLD, 14));

        String income[] = {"Null","<1,50,000","<2,50,000","<5,00,000","Upto
10,00,000","Above 10,00,000"};
        c3 = new JComboBox(income);
        c3.setBackground(Color.WHITE);
        c3.setFont(new Font("Raleway", Font.BOLD, 14));

        String education[] = {"Non-Graduate","Graduate","Post-
Graduate","Doctrate","Others"};
        c4 = new JComboBox(education);
        c4.setBackground(Color.WHITE);
        c4.setFont(new Font("Raleway", Font.BOLD, 14));

        String occupation[] = {"Salaried","Self-
Employmed","Business","Student","Retired","Others"};
        c5 = new JComboBox(occupation);
        c5.setBackground(Color.WHITE);
        c5.setFont(new Font("Raleway", Font.BOLD, 14));


        setLayout(null);


        l12.setBounds(700,10,60,30);
        add(l12);

        l13.setBounds(760,10,60,30);
        add(l13);

        l1.setBounds(280,30,600,40);
        add(l1);

        l2.setBounds(100,120,100,30);
        add(l2);

        c1.setBounds(350,120,320,30);
        add(c1);
```

```
        l3.setBounds(100,170,100,30);
        add(l3);

        c2.setBounds(350,170,320,30);
        add(c2);

        l4.setBounds(100,220,100,30);
        add(l4);

        c3.setBounds(350,220,320,30);
        add(c3);

        l5.setBounds(100,270,150,30);
        add(l5);

        c4.setBounds(350,270,320,30);
        add(c4);

        l11.setBounds(100,290,150,30);
        add(l11);

        l6.setBounds(100,340,150,30);
        add(l6);

        c5.setBounds(350,340,320,30);
        add(c5);

        l7.setBounds(100,390,150,30);
        add(l7);

        t1.setBounds(350,390,320,30);
        add(t1);

        l8.setBounds(100,440,180,30);
        add(l8);

        t2.setBounds(350,440,320,30);
        add(t2);

        l9.setBounds(100,490,150,30);
        add(l9);

        r1.setBounds(350,490,100,30);
        add(r1);
```

```
        r2.setBounds(460,490,100,30);
        add(r2);

        l10.setBounds(100,540,180,30);
        add(l10);

        r3.setBounds(350,540,100,30);
        add(r3);

        r4.setBounds(460,540,100,30);
        add(r4);

        b.setBounds(570,640,100,30);
        add(b);

        b.addActionListener(this);

        getContentPane().setBackground(Color.WHITE);

        setSize(850,750);
        setLocation(500,120);
        setVisible(true);
    }

    public void actionPerformed(ActionEvent ae){
        String religion = (String)c1.getSelectedItem();
        String category = (String)c2.getSelectedItem();
        String income = (String)c3.getSelectedItem();
        String education = (String)c4.getSelectedItem();
        String occupation = (String)c5.getSelectedItem();

        String pan = t1.getText();
        String aadhar = t2.getText();

        String scitizen = "";
        if(r1.isSelected()){
            scitizen = "Yes";
        }
        else if(r2.isSelected()){
            scitizen = "No";
        }

        String eaccount = "";
        if(r3.isSelected()){
```

```
            eaccount = "Yes";
        }else if(r4.isSelected()){
            eaccount = "No";
        }

        try{
            if(t2.getText().equals("")){
                JOptionPane.showMessageDialog(null, "Fill all the required
fields");
            }else{
                Conn c1 = new Conn();
                String q1 = "insert into signuptwo
values('"+formno+"','"+religion+"','"+category+"','"+income+"','"+education+"','"
+occupation+"','"+pan+"','"+aadhar+"','"+scitizen+"','"+eaccount+"')";
                c1.s.executeUpdate(q1);

                new Signup3(formno).setVisible(true);
                setVisible(false);
            }



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


    }


    public static void main(String[] args){
        new Signup2("").setVisible(true);
    }
}
```

Signup3.java

```
package ASimulatorSystem;

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

```
public class Signup3 extends JFrame implements ActionListener{

    JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11,l12;
    JRadioButton r1,r2,r3,r4;
    JButton b1,b2;
    JCheckBox c1,c2,c3,c4,c5,c6,c7;
    String formno;
    Signup3(String formno){
        this.formno = formno;
        setTitle("NEW ACCOUNT APPLICATION FORM - PAGE 3");

        ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("ASimulatorSystem/icons/logo.jpg"));
        Image i2 = i1.getImage().getScaledInstance(100, 100,
Image.SCALE_DEFAULT);
        ImageIcon i3 = new ImageIcon(i2);
        JLabel l14 = new JLabel(i3);
        l14.setBounds(150, 0, 100, 100);
        add(l14);

        l1 = new JLabel("Page 3: Account Details");
        l1.setFont(new Font("Raleway", Font.BOLD, 22));

        l2 = new JLabel("Account Type:");
        l2.setFont(new Font("Raleway", Font.BOLD, 18));

        l3 = new JLabel("Card Number:");
        l3.setFont(new Font("Raleway", Font.BOLD, 18));

        l4 = new JLabel("XXXX-XXXX-XXXX-4184");
        l4.setFont(new Font("Raleway", Font.BOLD, 18));

        l5 = new JLabel("(Your 16-digit Card number)");
        l5.setFont(new Font("Raleway", Font.BOLD, 12));

        l6 = new JLabel("It would appear on ATM Card/Cheque Book and
Statements");
        l6.setFont(new Font("Raleway", Font.BOLD, 12));

        l7 = new JLabel("PIN:");
        l7.setFont(new Font("Raleway", Font.BOLD, 18));

        l8 = new JLabel("XXXX");
        l8.setFont(new Font("Raleway", Font.BOLD, 18));
```

```
        l9 = new JLabel("(4-digit password)");
        l9.setFont(new Font("Raleway", Font.BOLD, 12));

        l10 = new JLabel("Services Required:");
        l10.setFont(new Font("Raleway", Font.BOLD, 18));

        l11 = new JLabel("Form No:");
        l11.setFont(new Font("Raleway", Font.BOLD, 14));

        l12 = new JLabel(formno);
        l12.setFont(new Font("Raleway", Font.BOLD, 14));

        b1 = new JButton("Submit");
        b1.setFont(new Font("Raleway", Font.BOLD, 14));
        b1.setBackground(Color.BLACK);
        b1.setForeground(Color.WHITE);

        b2 = new JButton("Cancel");
        b2.setFont(new Font("Raleway", Font.BOLD, 14));
        b2.setBackground(Color.BLACK);
        b2.setForeground(Color.WHITE);


        c1 = new JCheckBox("ATM CARD");
        c1.setBackground(Color.WHITE);
        c1.setFont(new Font("Raleway", Font.BOLD, 16));

        c2 = new JCheckBox("Internet Banking");
        c2.setBackground(Color.WHITE);
        c2.setFont(new Font("Raleway", Font.BOLD, 16));

        c3 = new JCheckBox("Mobile Banking");
        c3.setBackground(Color.WHITE);
        c3.setFont(new Font("Raleway", Font.BOLD, 16));

        c4 = new JCheckBox("EMAIL Alerts");
        c4.setBackground(Color.WHITE);
        c4.setFont(new Font("Raleway", Font.BOLD, 16));

        c5 = new JCheckBox("Cheque Book");
        c5.setBackground(Color.WHITE);
        c5.setFont(new Font("Raleway", Font.BOLD, 16));

        c6 = new JCheckBox("E-Statement");
        c6.setBackground(Color.WHITE);
```

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

        c7 = new JCheckBox("I hereby declares that the above entered details
correct to th best of my knowledge.",true);
        c7.setBackground(Color.WHITE);
        c7.setFont(new Font("Raleway", Font.BOLD, 12));


        r1 = new JRadioButton("Saving Account");
        r1.setFont(new Font("Raleway", Font.BOLD, 16));
        r1.setBackground(Color.WHITE);

        r2 = new JRadioButton("Fixed Deposit Account");
        r2.setFont(new Font("Raleway", Font.BOLD, 16));
        r2.setBackground(Color.WHITE);

        r3 = new JRadioButton("Current Account");
        r3.setFont(new Font("Raleway", Font.BOLD, 16));
        r3.setBackground(Color.WHITE);

        r4 = new JRadioButton("Recurring Deposit Account");
        r4.setFont(new Font("Raleway", Font.BOLD, 16));
        r4.setBackground(Color.WHITE);

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

        setLayout(null);

        l11.setBounds(700,10,70,30);
        add(l11);

        l12.setBounds(770,10,40,30);
        add(l12);

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

        l2.setBounds(100,140,200,30);
        add(l2);

        r1.setBounds(100,180,150,30);
```

```
        add(r1);

        r2.setBounds(350,180,300,30);
        add(r2);

        r3.setBounds(100,220,250,30);
        add(r3);

        r4.setBounds(350,220,250,30);
        add(r4);

        l3.setBounds(100,300,200,30);
        add(l3);

        l4.setBounds(330,300,250,30);
        add(l4);

        l5.setBounds(100,330,200,20);
        add(l5);

        l6.setBounds(330,330,500,20);
        add(l6);

        l7.setBounds(100,370,200,30);
        add(l7);

        l8.setBounds(330,370,200,30);
        add(l8);

        l9.setBounds(100,400,200,20);
        add(l9);

        l10.setBounds(100,450,200,30);
        add(l10);

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

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

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

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

```
        add(c4);

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

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

        c7.setBounds(100,680,600,20);
        add(c7);

        b1.setBounds(250,720,100,30);
        add(b1);

        b2.setBounds(420,720,100,30);
        add(b2);


        getContentPane().setBackground(Color.WHITE);

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

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

    }

    public void actionPerformed(ActionEvent ae){
        String atype = null;
        if(r1.isSelected()){
            atype = "Saving Account";
        }
        else if(r2.isSelected()){
            atype = "Fixed Deposit Account";
        }
        else if(r3.isSelected()){
            atype = "Current Account";
        }else if(r4.isSelected()){
            atype = "Recurring Deposit Account";
        }

        Random ran = new Random();
        long first7 = (ran.nextLong() % 90000000L) + 5040936000000000L;
```

```
        String cardno = "" + Math.abs(first7);

        long first3 = (ran.nextLong() % 9000L) + 1000L;
        String pin = "" + Math.abs(first3);

        String facility = "";
        if(c1.isSelected()){
            facility = facility + " ATM Card";
        }
        if(c2.isSelected()){
            facility = facility + " Internet Banking";
        }
        if(c3.isSelected()){
            facility = facility + " Mobile Banking";
        }
        if(c4.isSelected()){
            facility = facility + " EMAIL Alerts";
        }
        if(c5.isSelected()){
            facility = facility + " Cheque Book";
        }
        if(c6.isSelected()){
            facility = facility + " E-Statement";
        }

        try{
            if(ae.getSource()==b1){

                if(atype.equals("")){
                    JOptionPane.showMessageDialog(null, "Fill all the required
fields");
                }else{
                    Conn c1 = new Conn();
                    String q1 = "insert into signupthree
values('"+formno+"','"+atype+"','"+cardno+"','"+pin+"','"+facility+"')";
                    String q2 = "insert into login
values('"+formno+"','"+cardno+"','"+pin+"')";
                    c1.s.executeUpdate(q1);
                    c1.s.executeUpdate(q2);
                    JOptionPane.showMessageDialog(null, "Card Number: " + cardno
+ "\n Pin:"+ pin);

                    new Deposit(pin).setVisible(true);
                    setVisible(false);
                }
```

```
            }else if(ae.getSource()==b2){
                System.exit(0);
            }

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

    }

    public static void main(String[] args){
        new Signup3("").setVisible(true);
    }

}
```

Transcation.java

```
package ASimulatorSystem;

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

public class Transactions extends JFrame implements ActionListener{

    JLabel l1;
    JButton b1,b2,b3,b4,b5,b6,b7;
    String pin;
    Transactions(String pin){
        this.pin = pin;
        ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("ASimulatorSystem/icons/atm.jpg"));
        Image i2 = i1.getImage().getScaledInstance(1000, 1180,
Image.SCALE_DEFAULT);
        ImageIcon i3 = new ImageIcon(i2);
        JLabel l2 = new JLabel(i3);
        l2.setBounds(0, 0, 960, 1080);
        add(l2);

        l1 = new JLabel("Please Select Your Transaction");
        l1.setForeground(Color.WHITE);
        l1.setFont(new Font("System", Font.BOLD, 16));
```

```
        b1 = new JButton("DEPOSIT");
        b2 = new JButton("CASH WITHDRAWL");
        b3 = new JButton("FAST CASH");
        b4 = new JButton("MINI STATEMENT");
        b5 = new JButton("PIN CHANGE");
        b6 = new JButton("BALANCE ENQUIRY");
        b7 = new JButton("EXIT");

        setLayout(null);

        l1.setBounds(235,400,700,35);
        l2.add(l1);

        b1.setBounds(170,499,150,35);
        l2.add(b1);

        b2.setBounds(390,499,150,35);
        l2.add(b2);

        b3.setBounds(170,543,150,35);
        l2.add(b3);

        b4.setBounds(390,543,150,35);
        l2.add(b4);

        b5.setBounds(170,588,150,35);
        l2.add(b5);

        b6.setBounds(390,588,150,35);
        l2.add(b6);

        b7.setBounds(390,633,150,35);
        l2.add(b7);


        b1.addActionListener(this);
        b2.addActionListener(this);
        b3.addActionListener(this);
        b4.addActionListener(this);
        b5.addActionListener(this);
        b6.addActionListener(this);
        b7.addActionListener(this);
```

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



    }

    public void actionPerformed(ActionEvent ae){
        if(ae.getSource()==b1){
            setVisible(false);
            new Deposit(pin).setVisible(true);
        }else if(ae.getSource()==b2){
            setVisible(false);
            new Withdrawl(pin).setVisible(true);
        }else if(ae.getSource()==b3){
            setVisible(false);
            new FastCash(pin).setVisible(true);
        }else if(ae.getSource()==b4){
            new MiniStatement(pin).setVisible(true);
        }else if(ae.getSource()==b5){
            setVisible(false);
            new Pin(pin).setVisible(true);
        }else if(ae.getSource()==b6){
            this.setVisible(false);
            new BalanceEnquiry(pin).setVisible(true);
        }else if(ae.getSource()==b7){
            System.exit(0);
        }
    }

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

Withdrawn.java

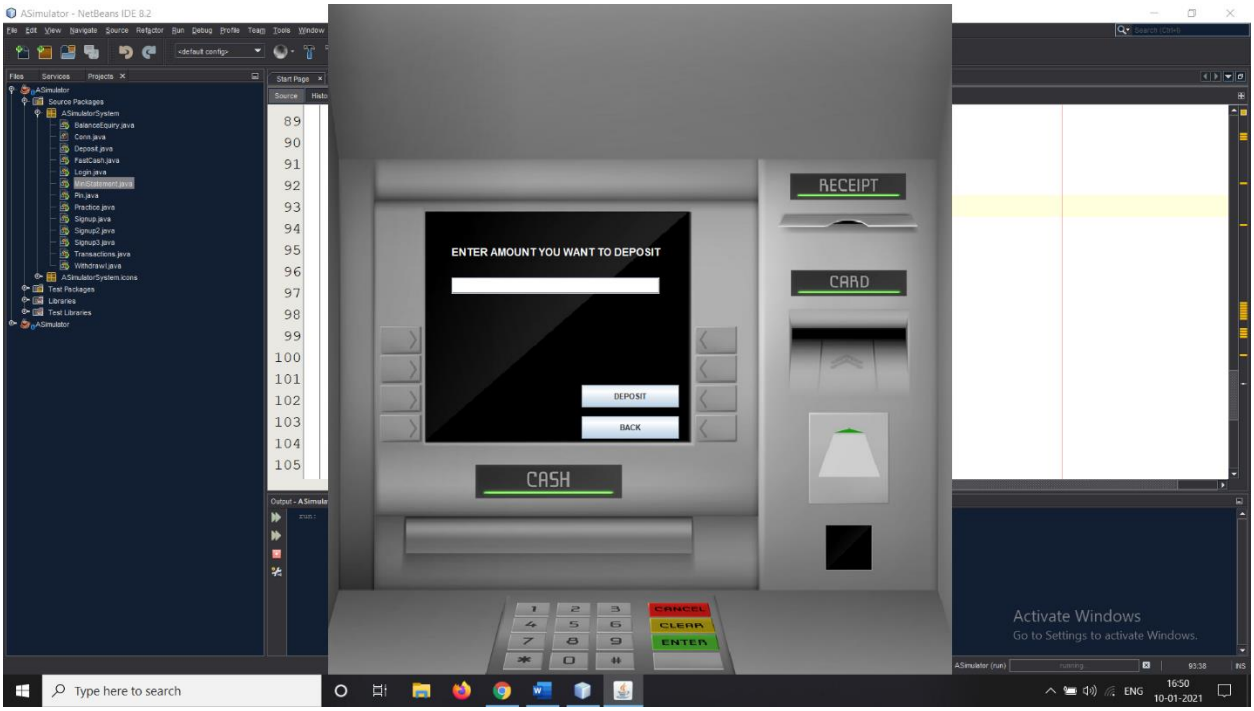
```
package ASimulatorSystem;

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

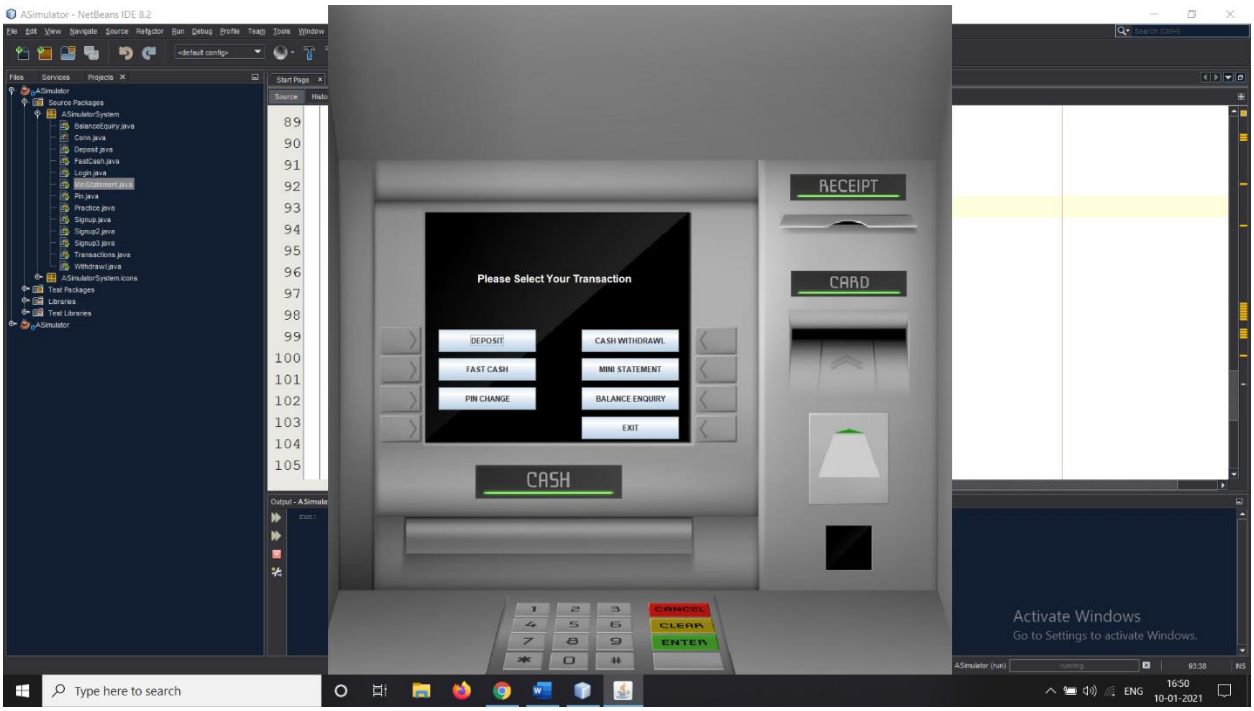
```
import java.sql.*;

public class Withdrawl extends JFrame implements ActionListener{

    JTextField t1,t2;
    JButton b1,b2,b3;
    JLabel l1,l2,l3,l4;
    String pin;
    Withdrawl(String pin){
        this.pin = pin;
        ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("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("MAXIMUM WITHDRAWAL IS RS.10,000");
        l1.setForeground(Color.WHITE);
        l1.setFont(new Font("System", Font.BOLD, 16));

        l2 = new JLabel("PLEASE ENTER YOUR AMOUNT");
        l2.setForeground(Color.WHITE);
        l2.setFont(new Font("System", Font.BOLD, 16));

        t1 = new JTextField();
        t1.setFont(new Font("Raleway", Font.BOLD, 25));

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

        setLayout(null);

        l1.setBounds(190,350,400,20);
        l3.add(l1);

        l2.setBounds(190,400,400,20);
        l3.add(l2);

        t1.setBounds(190,450,330,30);
        l3.add(t1);

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

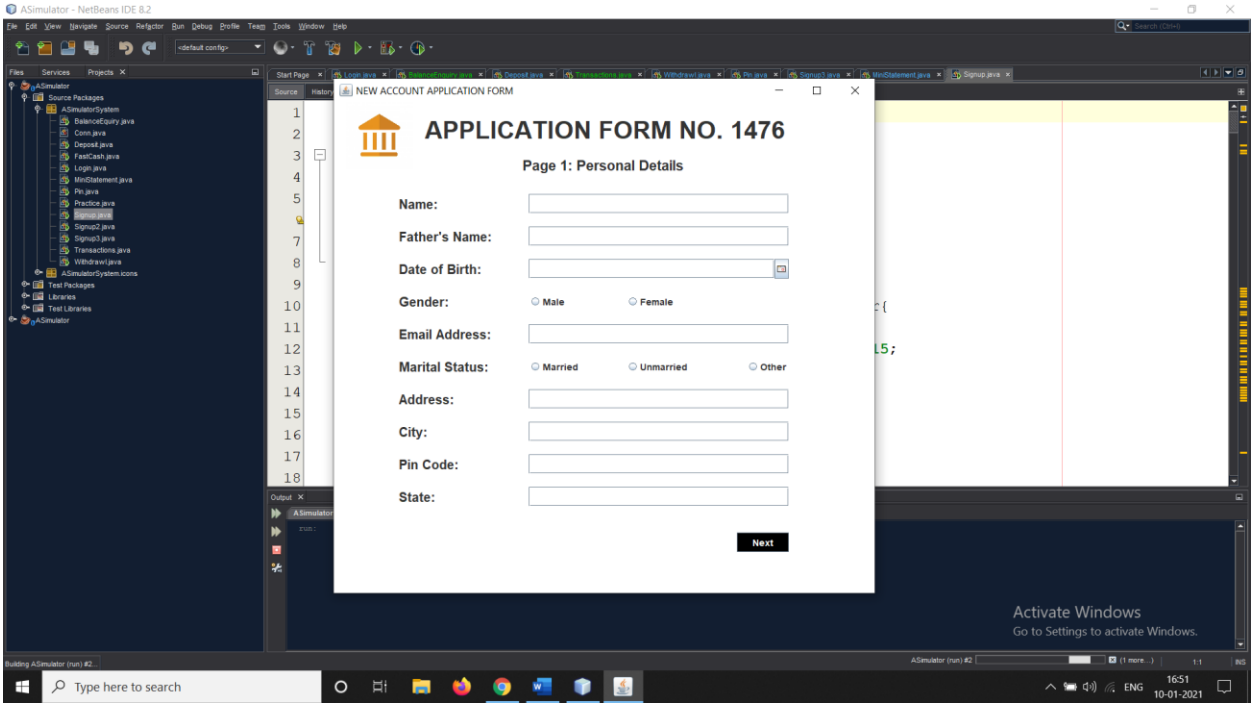
```
        l3.add(b1);

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

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

        setSize(960,1080);
        setLocation(500,0);
        setUndecorated(true);
        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 Withdraw");
                }else{
                    Conn c1 = new Conn();

                    ResultSet rs = c1.s.executeQuery("select * from bank where
pin = '"+pin+"'");
                    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(balance < Integer.parseInt(amount)){
                        JOptionPane.showMessageDialog(null, "Insuffient
Balance");
                        return;
                    }

                    c1.s.executeUpdate("insert into bank values('"+pin+"',
'"+date+"', 'Withdrawl', '"+amount+"')");
```

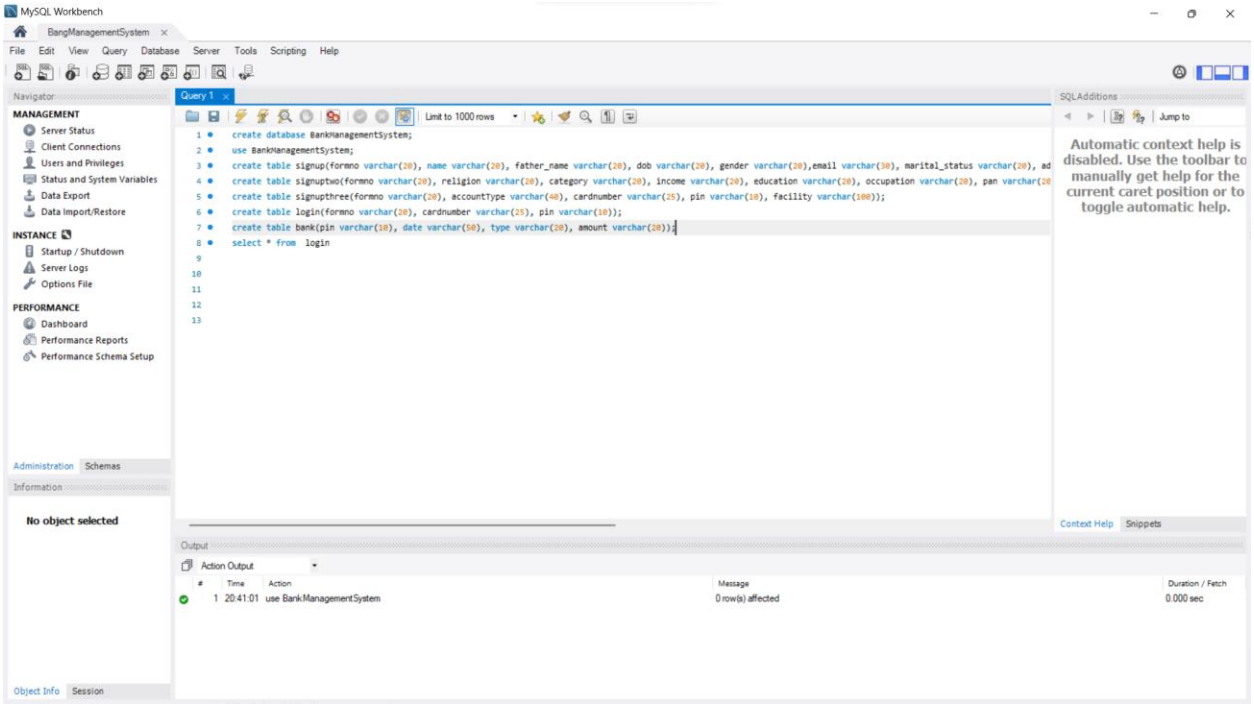
```
                    JOptionPane.showMessageDialog(null, "Rs. "+amount+" Debited
Successfully");

                    setVisible(false);
                    new Transactions(pin).setVisible(true);
                }
            }else if(ae.getSource()==b2){
                setVisible(false);
                new Transactions(pin).setVisible(true);
            }
        }catch(Exception e){
                e.printStackTrace();
                System.out.println("error: "+e);
        }

    }



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

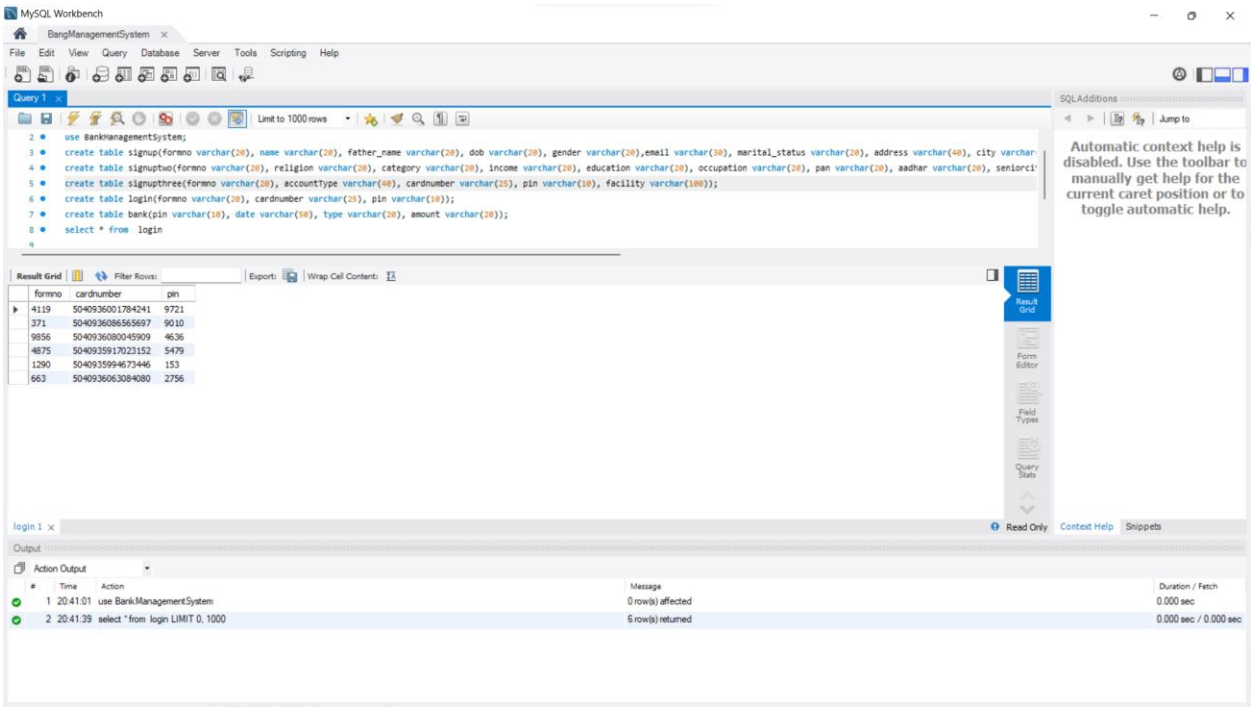
Screenshots

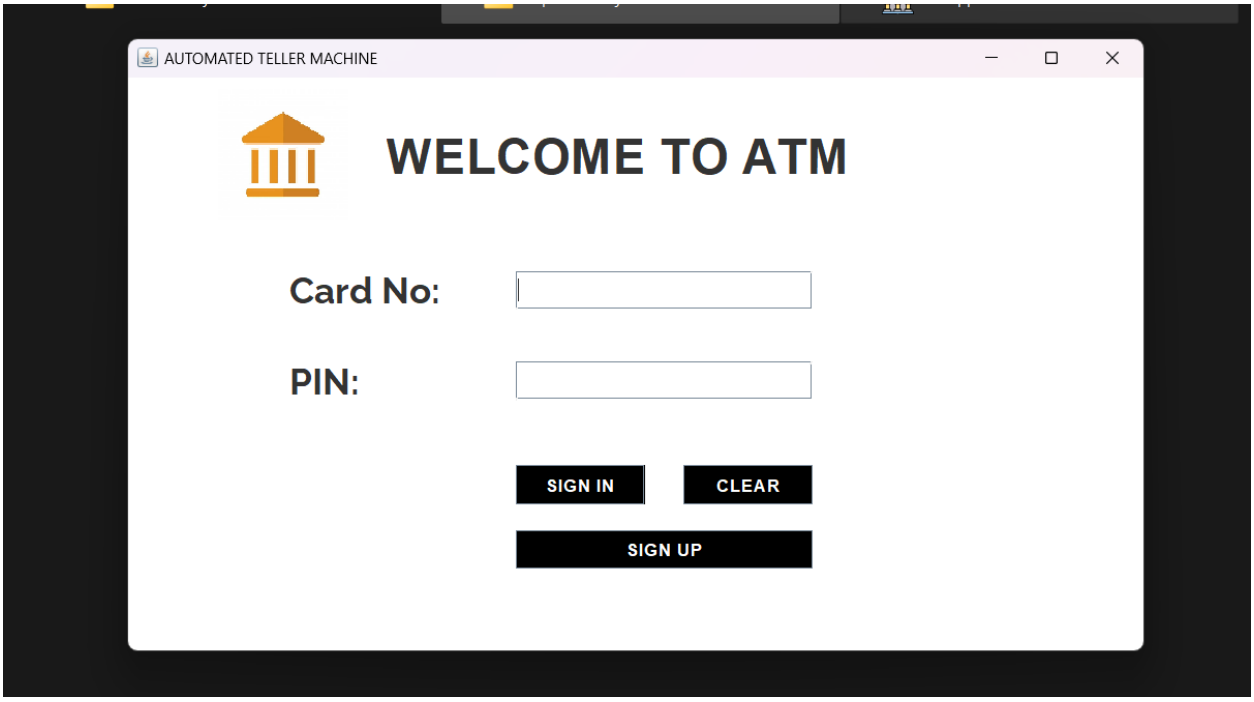


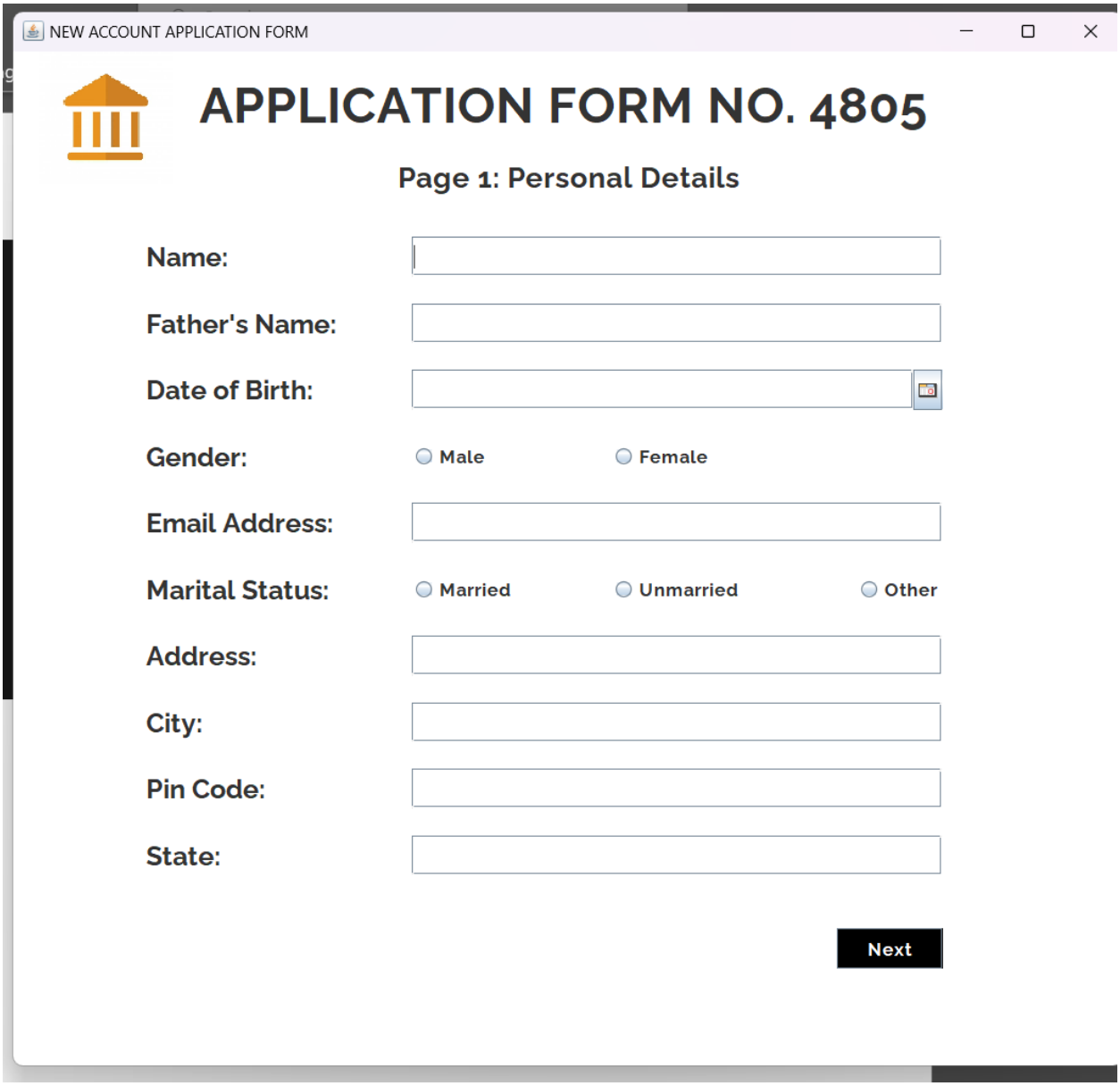

Please Select Your Transaction
DEPOSIT
CASH WITHDRAWL
FAST CASH
MINI STATEMENT
PIN CHANGE
BALANCE ENQUIRY
EXIT
RECEIPT
CARD
CASH
CANCEL
CLEAR
ENTER


NEW ACCOUNT APPLICATION FORM
APPLICATION FORM NO. 1476
Page 1: Personal Details
Name:
Father's Name:
Date of Birth:
Gender:
Male
Female
Email Address:
Marital Status:
Married
Unmarried
Other
Address:
City:
Pin Code:
State:
Next


MySQL Workbench
BangManagementSystem
File Edit View Query Database Server Tools Scripting Help
Navigator
MANAGEMENT
Server Status
Client Connections
Users and Privileges
Status and System Variables
Data Export
Data Import/Restore
INSTANCE
Startup / Shutdown
Server Logs
Options File
PERFORMANCE
Dashboard
Performance Reports
Performance Schema Setup
Administration Schemas
Information
No object selected
Object Info Session
Query 1
Limit to 1000 rows
create database BankManagementSystem;
use BankManagementSystem;
create table signup(formno varchar(20), name varchar(20), father_name varchar(20), dob varchar(20), gender varchar(20),email varchar(30), marital_status varchar(20), ad
create table signuptwo(formno varchar(20), religion varchar(20), category varchar(20), income varchar(20), education varchar(20), occupation varchar(20), pan varchar(20
create table signupthree(formno varchar(20), accountType varchar(40), cardnumber varchar(25), pin varchar(10), facility varchar(100));
create table login(formno varchar(20), cardnumber varchar(25), pin varchar(10));
create table bank(pin varchar(10), date varchar(50), type varchar(20), amount varchar(20));
select * from login
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
1 20:41:01 use BankManagementSystem 0 row(s) affected 0.000 sec


MySQL Workbench
BangManagementSystem
File Edit View Query Database Server Tools Scripting Help
Query 1
Limit to 1000 rows
use BankManagementSystem;
create table signup(formno varchar(20), name varchar(20), father_name varchar(20), dob varchar(20), gender varchar(20),email varchar(30), marital_status varchar(20), address varchar(40), city varchar
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), seniorci
create table signupthree(formno varchar(20), accountType varchar(40), cardnumber varchar(25), pin varchar(10), facility varchar(100));
create table login(formno varchar(20), cardnumber varchar(25), pin varchar(10));
create table bank(pin varchar(10), date varchar(50), type varchar(20), amount varchar(20));
select * from login
Result Grid Filter Rows: Export: Wrap Cell Content:
formno cardnumber pin
4119 5040936001784241 9721
371 5040936086565697 9010
9856 5040936080045909 4636
4875 5040935917023152 5479
1290 5040935994673446 153
663 5040936063084080 2756
Result Grid
Form Editor
Field Types
Query Stats
login 1
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
1 20:41:01 use BankManagementSystem 0 row(s) affected 0.000 sec
2 20:41:39 select * from login LIMIT 0, 1000 6 row(s) returned 0.000 sec / 0.000 sec


AUTOMATED TELLER MACHINE
WELCOME TO ATM
Card No:
PIN:
SIGN IN
CLEAR
SIGN UP


NEW ACCOUNT APPLICATION FORM
APPLICATION FORM NO. 4805
Page 1: Personal Details
Name:
Father's Name:
Date of Birth:
Gender:
Male
Female
Email Address:
Marital Status:
Married
Unmarried
Other
Address:
City:
Pin Code:
State:
Next

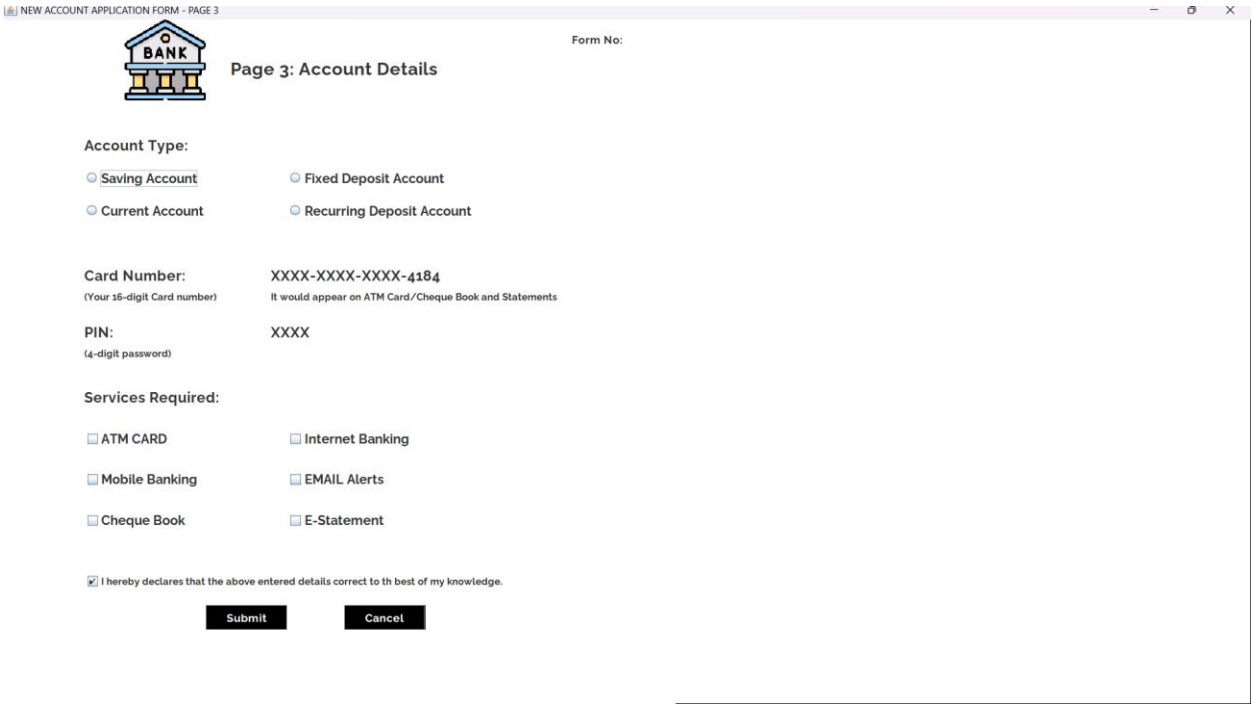
NEW ACCOUNT APPLICATION FORM - PAGE 2

Form No:

Page 2: Additonal Details

Religion:	Hindu
Category:	General
Income:	Null
Educational Qualification:	Non-Graduate
Occupation:	Salaried
PAN Number:	
Aadhar Number:	
Senior Citizen:	○ Yes ○ No
Existing Account:	○ Yes ○ No

Next




```
--------------------------------------------------
Database Queries for BANK MANAGEMENT SYSTEM Project
--------------------------------------------------

1 - Create database with name bankmanagementsystem in mysql

create database bankmanagementsystem;

2 - Select the database you just created

use bankmanagementsystem;

3 - Create our first Table in the selected database with name signup

create table signup(formno varchar(20), name varchar(20), father_name
varchar(20), dob varchar(20), gender varchar(20),email varchar(30),
marital_status varchar(20), address varchar(40), city varchar(25), pincode
varchar(20), state varchar(25));

4 - Create the second table to store more information of user

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), seniorcitizen
varchar(20), existingaccount varchar(20));

5 - Create the third table to store the account information of user
```

```
create table signupthree(formno varchar(20), accountType varchar(40),
cardnumber varchar(25), pin varchar(10), facility varchar(100));
```

6 - Create the Login table to store login information

```
create table login(formno varchar(20), cardnumber varchar(25), pin
varchar(10));
```

7 - Now create bank table to store transactions related information

```
create table bank(pin varchar(10), date varchar(50), type varchar(20),
amount varchar(20));
```

----------THE END----------