Bank Management System

A PROJECT REPORT

Submitted by

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SRM INSTITUTE OF SCIENCE & TECHNOLOGY, NCR CAMPUS

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BONAFIDE CERTIFICATE

Certified to be the bonafide record of work done by Kartikay kaushik ,Kanishk Sharma ,Nivesh Tyagi ,Samanyu Aggarwal of 4th semester,2nd year B.TECH degree course in SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, NCR Campus of Department of Computer Science & Engineering in Database Management Systems Lab, during the academic year 2023-2024.

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Head of the Department
Computer Science & Engineering

ABSTRACT

The "**Bank 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

ACKNOWLEDGEMENT

This Project report was completed as a result of support from many people, although not all of them can be mentioned.

We wish to express our sincere gratitude to God for his protection, providence, guidance and above all, for sustaining us.

We are greatly indebted to our good supervisor **Ms.NEETU BANSLA** for his useful and necessary observation, suggestions, contribution and corrections. We would not have been able to achieve anything in this research without your supervision. May God enrich you greatly in every area of life.

Finally, we wish to express our appreciation to our parents for their love and support.

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CHAPTER-1 : INTRODUCTION

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CHAPTER-2 : BANK TERMS

1. All requests received from customers are logged for backend Fullfillment and are effective from the time they are recorded at the branch.
2. Rules and regulations applicable to normal banking transactions in India will be applicable mutatis mutandis for the transactions executed through this site.
3. The BAMS Bank service cannot be claimed as a right. The bank may also convert this into a discretionary service anytime.
4. Dispute between the customer and the Bank in this service is subject to the jurisdiction of the courts in the Republic of India and governed by the laws prevailing in India.
5. The Bank reserves the right to modify the services offered or the Terms of service of BAMS Bank. The changes will be notified to the customers through a notification on the Site.

CUSTOMER's OBLIGATIONS

1. The customer has an obligation to maintain secrecy in regard to Username & Password registered with the Bank. The bank presupposes that login using valid Username and Password is a valid session initiated by none other than the customer.
2. Transaction executed through a valid session will be construed by RR to have emanated from the registered customer and will be binding on him/her.
3. The customer will not attempt or permit others to attempt accessing the BAMS Bank through any unlawful means.

Many of the benefits of doing our banking online are obvious:

1- You don't have to wait in line.

2- You don't have to plan your day around the bank's hours.

3- You can look at your balance whenever you want, not just when you get a statement.

There are some hidden benefits too. As a young bank customer, you're just learning how to manage your money and observe your spending patterns. Online banking allows you to watch your money on a daily basis if you want to. By keeping close tabs on your funds, you'll always be aware of what's happening in your bank account. For those experienced spenders, this option is far more appealing than the sudden discovery that you're broke!

It's also helpful to watch how much interest you're gathering on investments and savings or what service charges you have incurred.

Most available benefits:

1. Online banking with key bank is fast, secure, convenient and free.

2. Quick, simple, authenticated access to accounts via the web application.

3. Simply scalable to grow with changing system requirement.

4. Global enterprise wide access to information.

5. Improved data security, restricting unauthorized access.

6. Minimize Storage Space.

CHAPTER-3 : FUTURE SCOPE

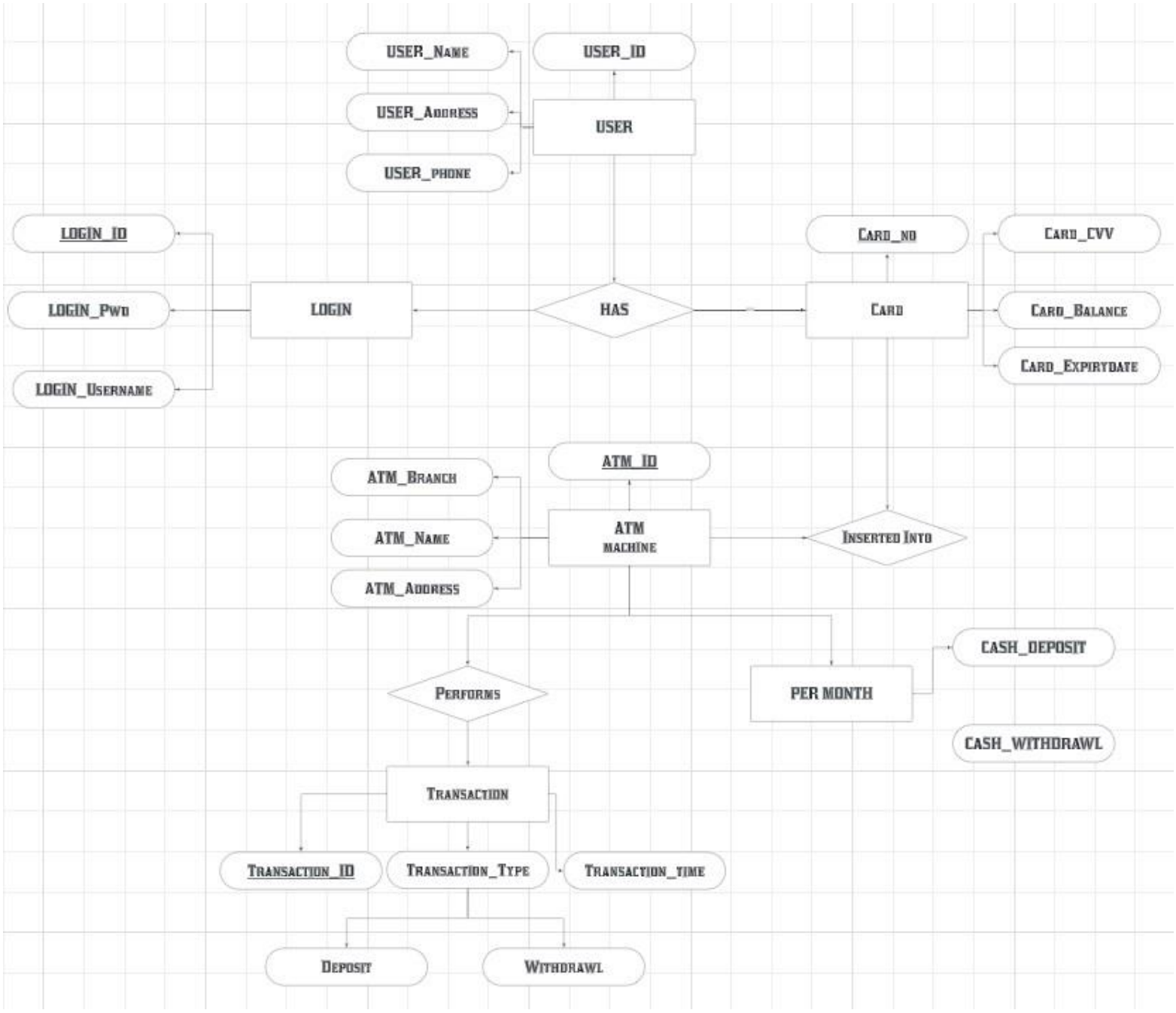
The "Bank Management System" is a big and ambitious project. I am thankful for being provided this great opportunity to work on it. As already mentioned, this project has gone through extensive research work. On the basis of the research work, we have successfully designed and implemented banking online 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.

CHAPTER-4 : ER DIAGRAM



ER diagram is known as Entity-Relationship diagram. It is used to analyze to structure of the Database. It shows relationships between entities and their attributes. An ER model provides a means of communication.

ER diagram of Bank has the following description :

1. Bank have User.
2. Banks are identified by a name, code, address of main office.
3. Banks have branches.
4. Branches are identified by a branch_no., branch_name, address.
5. Users are identified by name, cust-id, phone number, address.
6. Users can have one or more accounts.
7. Accounts are identified by account_no., acc_type, balance.
8. Users have ATM cards.
9. ATM cards performs transactions.
10. ATM machine stores per month statement.

Additional Considerations of ER diagram:

1. **Security and Privacy:** Ensure that sensitive data like passwords and CVVs are encrypted and managed per security regulations.

2. **Normalization**: Design the database to reduce redundancy and improve data integrity through normalization processes.

3. **Performance:** Indexing frequently queried columns like UserID, CardNumber, or TransactionID can enhance performance.

4. **Scalability:** As the number of users and transactions grows, the database design should accommodate scalability both in terms of storage and query performance.

Mapping Cardinality

1. User:

One user can have multiple logins (1:M)

One user can have multiple cards (1:M)

One user can perform multiple transactions (1:M)

One user can have multiple monthly reports (1:M)

2. Login:

Each login is associated with one user (1:1)

Each login can be associated with multiple transactions (1:M)

3. Card:

Each card is associated with one user (1:1)

Each card can be associated with multiple transactions (1:M)

4. ATM Machine:

Each ATM machine can perform multiple transactions (1:M)

5. Transaction:

Each transaction is associated with one user (1:1)

Each transaction is associated with one card (1:1)

Each transaction is associated with one ATM machine (1:1)

6. Per Month :

Each monthly report is associated with one user (1:1)

Each monthly report is associated with multiple transactions (1:M)

Generalisation

1. Generalization of User and ATM Machine:

   Represents any entity that interacts with the banking system, including users and ATM machines.

Subtypes: User, ATM Machine

2. Generalization of Card:

Represents any resource associated with an actor for transactions, including cards.
Subtypes: Card

3. Generalization of Transaction:

Represents any activity performed by an actor with a resource, including transactions.
Subtypes: Transaction

4. Generalization of Per Month:

Represents any time frame for which data is aggregated or reported, such as monthly, quarterly, annually, etc.
Subtypes: Monthly, Quarterly, Annual

CHAPTER-6 : REFERENCES

1. **Learning MYSQL**

2. **"Banking and Finance: Theory, Law and Practice" by Guruswamy K.**

3. **"Bank Management" by Timothy W. Koch and S. Scott MacDonald**

4. **MySQL video tutorials**

5. **Koh, C. G., Hong, B., and Liaw, C. Y. (2003). "Substructural and progressive structural identification methods."**

6. **Engineering Structures, 25, 1551–1563. 5. Meirovitch, L. (2001). Fundamentals of Vibrations. McGraw-Hill Book Company, 1 edition.**

CHAPTER-7 : SOURCE CODE

1.1 Login.java

```
package bank;
import java.awt.Color;
import java.awt.Font;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPasswordField;
import javax.swing.JTextField;
import java.awt.event.*;
import java.sql.ResultSet;

public class Login  extends JFrame implements ActionListener{
        // instance variable
        JLabel lblwelcome,lblCardNumber,lblPinNumber;
        JTextField tfCardNumber;
        JPasswordField pfPinNumber;
        JButton btnLgin,btnClear,btnsignup;


 //Non Param Constructor
        public Login () {
                setTitle("Bank Management
                System"); //To disable the default
                layout setLayout(null);
                lblwelcome=new JLabel("Welcome To Bank System");
                lblwelcome.setFont(new Font("Arial",Font.BOLD,35));
                lblwelcome.setBounds(200,40,530,40);
                add(lblwelcome);

                lblCardNumber=new JLabel("Enter Card No:");
                lblCardNumber.setFont(new Font("Tahoma",Font.BOLD,25));
                lblCardNumber.setBounds(120,150,400,30);
                add(lblCardNumber);

                tfCardNumber= new JTextField (20);
                tfCardNumber.setBounds(350,150,230,30);
                tfCardNumber.setFont(new Font("Tahoma",Font.BOLD,15));
                add(tfCardNumber);

                lblPinNumber=new JLabel("Enter PIN No:");
                lblPinNumber.setFont(new Font("Tahoma",Font.BOLD,25));
                lblPinNumber.setBounds(120,250,400,30);
                add(lblPinNumber);

                pfPinNumber= new JPasswordField (20);
                pfPinNumber.setBounds(350,250,230,30);
                pfPinNumber.setFont(new Font("Tahoma",Font.BOLD,15));
                add(pfPinNumber);

                 btnLgin=new JButton("Login");
                 btnLgin.setBackground(Color.black);
                 btnLgin.setForeground(Color.black);
```

```
                btnClear=new JButton("Clear");
                btnClear.setBackground(Color.black);
                btnClear.setForeground(Color.black);
                btnClear.setBackground(Color.black);
                btnClear.setForeground(Color.black);

                btnsignup=new JButton("Sign Up.");
                btnsignup.setBackground(Color.black);
                btnsignup.setForeground(Color.black);

                btnLgin.setFont(new Font("Tahoma",Font.BOLD,15));
                btnLgin.setBounds(300,300,100,40);
               add( btnLgin);

               btnClear.setFont(new Font("Tahoma",Font.BOLD,15));
               btnClear.setBounds(400,300,100,40);
               add(btnClear);

               btnsignup.setFont(new Font("Tahoma",Font.BOLD,15));
               btnsignup.setBounds(500,300,100,40);
               add(btnsignup);

                btnLgin.addActionListener(this);
                btnClear.addActionListener(this);
                btnsignup.addActionListener(this);

               getContentPane().setBackground(Color.white);
               setVisible(true);
               setSize(800,500);
               setLocation(400,200);
        }
        public static void main(String[] args)
                  { // creating login class object
                   Login obj=new Login();

        }
        @Override

        public void actionPerformed(ActionEvent e) {
           try {
              if (e.getSource() == btnLgin) {
                 connectionFactory cf = new connectionFactory();
                 String CardNum = tfCardNumber.getText();
                 String pin = pfPinNumber.getText();
                 String query = "SELECT * FROM Login WHERE cardnumber='" + CardNum + "' AND pin='" +
pin + "'";
                 ResultSet rs = cf.stmt.executeQuery(query);
                 if (rs.next()) {
                    setVisible(false);
                    new
                 Transactions(pin).setVisible(true); } else
                 {
```

```
                JOptionPane.showMessageDialog(null, "Either CardNum or Pin Num is wrong.");
            }
            rs.close();
        cf.stmt.close();
        cf.con.close();
            }
        } catch (Exception e1) {
            e1.printStackTrace();
        }
        }

}
```

LOGIN PAGE

1.2 Signup.java

Signup.java

```
package bank;
import java.awt.Color;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.util.Random;
import javax.swing.*;
import com.toedter.calendar.JDateChooser;


public class Signup  extends JFrame implements ActionListener{
	private static final long serialVersionUID =
	1L; // instance variable
	JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11,l12,l13,l14,l15;
	JTextField tfName, tfFatherName, tfEmail, tfAddress, tfCity, tfPioncode, tfState;
	JButton btnNext;

	JDateChooser dateChooser;

	Random r=new Random();
	long randNum=r.nextLong()%9000+1000;
	String number=""+Math.abs(randNum);
	private javax.swing.JRadioButton rbnMale;
	private javax.swing.JRadioButton rbnFemale;
	private javax.swing.JRadioButton rbnMarried;
	private javax.swing.JRadioButton rbnunmarried;
	private Icon Next;
	private Font f;
	private JLabel tfPin;

	public Signup() {
		setTitle("New Account Application From");
		setLayout(null);

		l1=new JLabel("Application From "+number);
		l1.setFont(new Font("Raleway",Font.BOLD,40));
		l1.setBounds(150,20,600,40);
		add(l1);


		l2=new JLabel("Personal Details of Customer");
		l2.setFont(new Font("Arial",Font.BOLD,25));
		l2.setBounds(200,80,600,30);
		add(l2);


		l3=new JLabel("Customer Name:");
		l3.setFont(new Font("Arial",Font.BOLD,22));
		l3.setBounds(100,130,200,30);
		add(l3);
		tfName= new JTextField (15);
		tfName.setBounds(300,130,300,30);
		tfName.setFont(new Font("Arial",Font.BOLD,15));
		add(tfName);
```

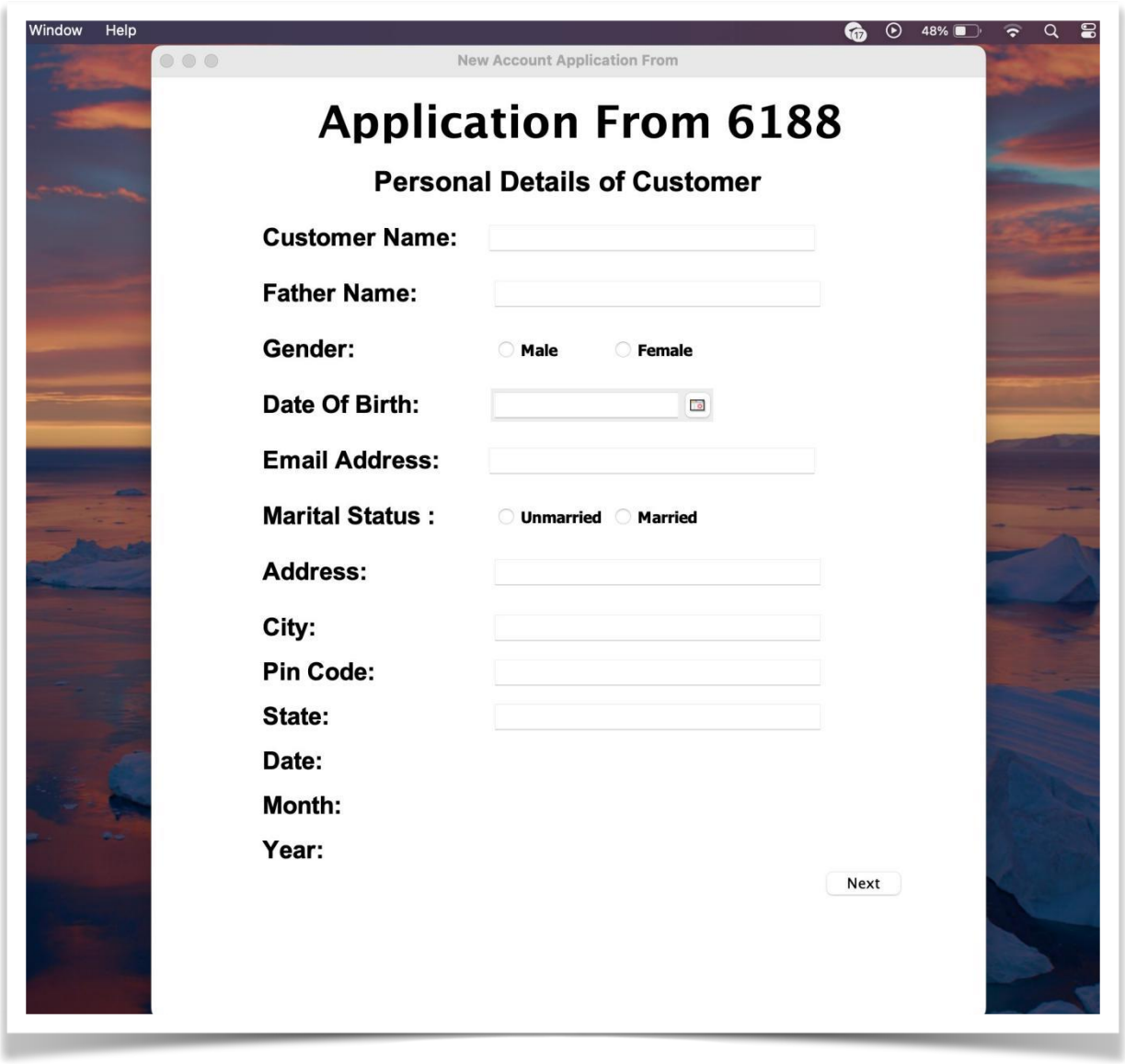
```
l4=new JLabel("Father Name:");
l4.setFont(new Font("Arial",Font.BOLD,22));
l4.setBounds(100,180,200,30);
add(l4);

tfFatherName= new JTextField (15);
tfFatherName.setBounds(305,180,300,30);
tfFatherName.setFont(new Font("Arial",Font.BOLD,15));
add(tfFatherName);


l5=new JLabel("Gender:");
l5.setFont(new Font("Arial",Font.BOLD,22));
l5.setBounds(100,230,200,30);
add(l5);

rbnMale=new JRadioButton("Male");
rbnMale.setFont(new Font("Tahoma",Font.BOLD,14));
rbnMale.setBackground(Color.white);
rbnMale.setBounds(305,230,100,30);
add(rbnMale);

rbnFemale=new JRadioButton("Female");
rbnFemale.setFont(new Font("Tahoma",Font.BOLD,14));
rbnFemale.setBackground(Color.white);
rbnFemale.setBounds(410,230,100,30);
add(rbnFemale);
ButtonGroup bgGender=new ButtonGroup();
bgGender.add(rbnMale);
bgGender.add(rbnFemale);

l6=new JLabel("Date Of Birth:");
l6.setFont(new Font("Arial",Font.BOLD,22));
l6.setBounds(100,280,200,30);
add(l6);

dateChooser=new JDateChooser();
dateChooser.setForeground(new Color(200,0,0));
dateChooser.setBounds(305,280,200,30);
add(dateChooser);

l7=new JLabel("Email Address:");
l7.setFont(new Font("Arial",Font.BOLD,22));
l7.setBounds(100,330,200,30);
add(l7);

tfEmail= new JTextField (15);
tfEmail.setBounds(300,330,300,30);
tfEmail.setFont(new Font("Arial",Font.BOLD,15));
add(tfEmail);

l8=new JLabel("Marital Status :");
l8.setFont(new Font("Arial",Font.BOLD,22));
l8.setBounds(100,380,200,30);
add(l8);


rbnMarried=new JRadioButton("Unmarried");
rbnMarried.setFont(new Font("Tahoma",Font.BOLD,14));
rbnMarried.setBackground(Color.white);
```

```
    rbnMarried.setBounds(305,380,200,30);
    add(rbnMarried);
      rbnunmarried = new JRadioButton("Married");
rbnunmarried.setFont(new Font("Tahoma", Font.BOLD, 14));
rbnunmarried.setBackground(Color.white);
rbnunmarried.setBounds(410, 380, 200, 30);
add(rbnunmarried);
    ButtonGroup bgStatus=new ButtonGroup();
    bgStatus.add(rbnMarried);
    bgStatus.add(rbnunmarried);


    l9=new JLabel("Address:");
    l9.setFont(new Font("Arial",Font.BOLD,22));
    l9.setBounds(100,430,200,30);
    add(l9);

    tfAddress= new JTextField (15);
    tfAddress.setBounds(305,430,300,30);
    tfAddress.setFont(new Font("Arial",Font.BOLD,15));
    add(tfAddress);

    l10=new JLabel("City:");
    l10.setFont(new Font("Arial",Font.BOLD,22));

    l10.setBounds(100,480,200,30);
    add(l10);

    tfCity= new JTextField (15);
    tfCity.setBounds(305,480,300,30);
    tfCity.setFont(new Font("Arial",Font.BOLD,15));
    add(tfCity);

    l11=new JLabel("Pin Code:");
    l11.setFont(new Font("Arial",Font.BOLD,22));
    l11.setBounds(100,520,200,30);
    add(l11);

    tfPioncode= new JTextField (15);
    tfPioncode.setBounds(305,520,300,30);
    tfPioncode.setFont(new Font("Arial",Font.BOLD,15));
    add(tfPioncode);

    l12=new JLabel("State:");
    l12.setFont(new Font("Arial",Font.BOLD,22));
    l12.setBounds(100,560,200,30);
    add(l12);


    tfState= new JTextField (15);
    tfState.setBounds(305,560,300,30);
    tfState.setFont(new Font("Arial",Font.BOLD,15));
    add(tfState);



    l13=new JLabel("Date:");
    l13.setFont(new Font("Arial",Font.BOLD,22));
    l13.setBounds(100,600,200,30);
    add(l13);
```

```
        l14=new JLabel("Month:");
        l14.setFont(new Font("Arial",Font.BOLD,22));
        l14.setBounds(100,640,200,30);
        add(l14);

        l15=new JLabel("Year:");
        l15.setFont(new Font("Arial",Font.BOLD,22));
        l15.setBounds(100,680,200,30);
        add(l15);

        btnNext=new JButton("Next");
        btnNext.setFont(f);
        btnNext.setBackground(Color.white);
        btnNext.setForeground(Color.black);
        btnNext.setBounds(600,710,80,30);
        add(btnNext);
        btnNext.addActionListener(this);

        getContentPane().setBackground(Color.white);
        setVisible(true);
        setSize(750,900);
        setLocation(400,200);

        }
@Override
  public void actionPerformed(ActionEvent e) {
      String formNum=number;
      String pincode = tfPioncode.getText();
      String fname = tfFatherName.getText();
      String dob = ((JTextField) dateChooser.getDateEditor().getUiComponent()).getText();
      String gender = ""; // Initialize gender variable

      if (rbnMale.isSelected()) {
         gender = "Male";
      } else if (rbnFemale.isSelected()) {
         gender = "Female";
      }
      String email = tfEmail.getText();
      String maritalStatus = ""; // Initialize maritalStatus variable

      if (rbnMarried.isSelected()) {
         maritalStatus = "Married";
      } else if (rbnunmarried.isSelected()) {
         maritalStatus = "Unmarried";
      }


      String address = tfAddress.getText();
      String city = tfCity.getText();
      String Pincode = tfPioncode.getText();
      String state = tfState.getText();
      try {
         if (tfName.getText().equals("")) {
            JOptionPane.showMessageDialog(null, "Please enter your Name");
         } else {
          connectionFactory cf=new connectionFactory();
          String query = "insert into signup values('" + formNum + "','" + tfName.getText() + "','" + fname
```

```
+ "','" + dob + "','" + gender + "','" + email + "','" + maritalStatus + "','" + address + "','" + city + "','" + pincode +
"','" + state + "')";
            cf.stmt.executeUpdate(query);
            //JOptionPane.showMessageDialog(null, "Congratulations! Data inserted successfully.");
                setVisible(false);
                new SignupTwo(formNum).setVisible(true);
                }
            } catch (Exception ex) {
                ex.printStackTrace();
            }
        }
     public static void main(String[] args) {
            Signup obj = new Signup();
        }
    public Icon getNext() {
                return Next;
    }
    public void setNext(Icon next) {
                Next = next;
    }
    public JLabel getTfPin() {
                return tfPin;
    }
    public void setTfPin(JLabel tfPin) {
                this.tfPin = tfPin;
    }
    }
```

SIGNUP PAGE


Window Help
48%
New Account Application From
Application From 6188
Personal Details of Customer
Customer Name:
Father Name:
Gender:
Male
Female
Date Of Birth:
Email Address:
Marital Status :
Unmarried
Married
Address:
City:
Pin Code:
State:
Date:
Month:
Year:
Next

1.3 SignupTwo.java

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

public class Signupthree 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;
    Signupthree(String formno){
        this.formno = formno;
        setTitle("NEW ACCOUNT APPLICATION FORM - PAGE 3");

        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));
```

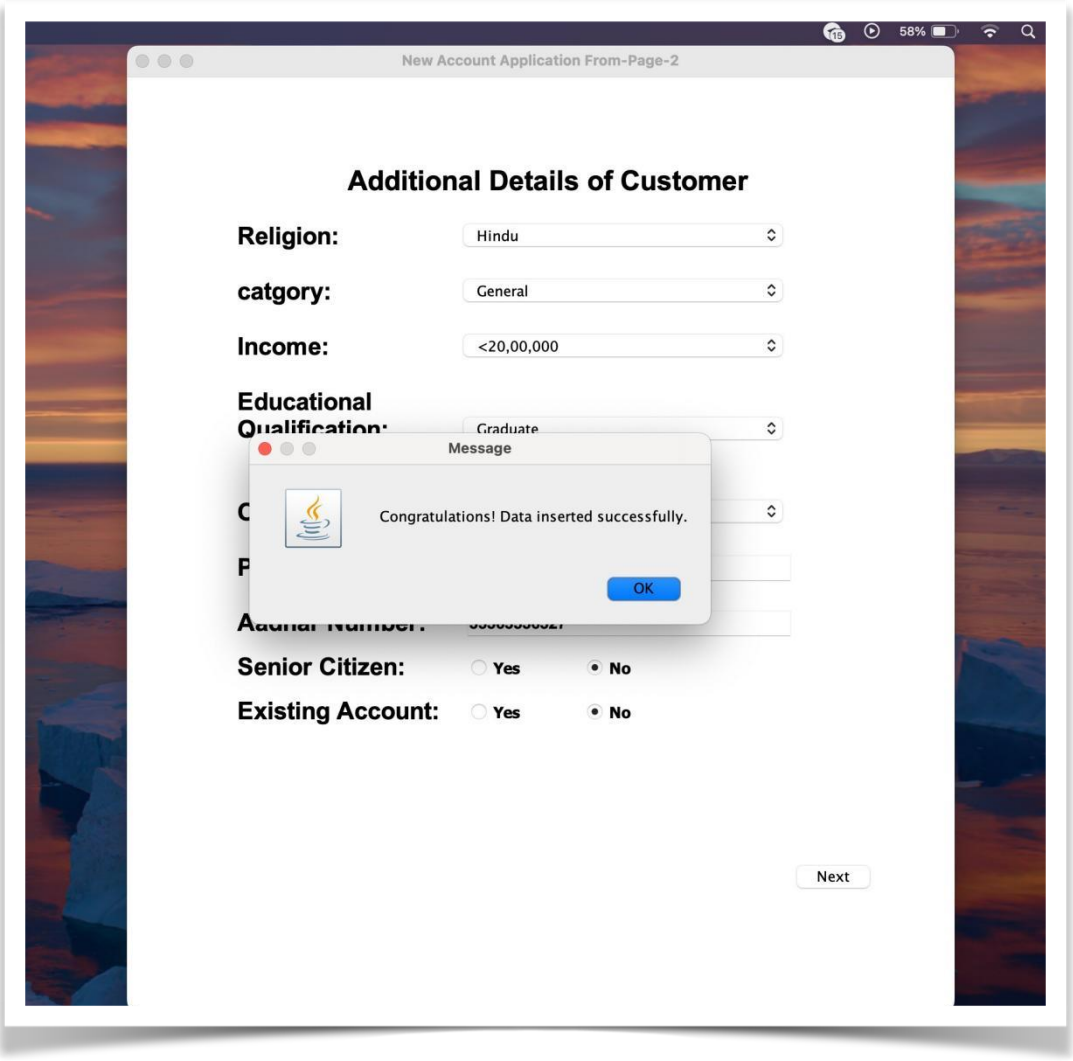
```
        l12 = new JLabel(formno);
        l12.setFont(new Font("Raleway", Font.BOLD, 14));

        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{
                        connectionFactory cf=new connectionFactory();
                    String q1 = "insert into signupthree
values('"+formno+"','"+atype+"','"+cardno+"','"+pin+"','"+facility+"')";
                    String q2 = "insert into Login values('"+formno+"','"+cardno+"','"+pin+"')";
                    cf.stmt.executeUpdate(q1);
                    cf.stmt.executeUpdate(q2);

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


                }

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

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

    }

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

SIGNUP TWOPAGE



1.4 Signup3.java

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

public class Signupthree 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;
    Signupthree(String formno){
        this.formno = formno;
        setTitle("NEW ACCOUNT APPLICATION FORM - PAGE 3");



        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(100,550,2
    00,30); 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{
                        connectionFactory cf=new connectionFactory();
                 String q1 = "insert into signupthree
values('"+formno+"','"+atype+"','"+cardno+"','"+pin+"','"+facility+"')";
                 String q2 = "insert into Login values('"+formno+"','"+cardno+"','"+pin+"')";
                 cf.stmt.executeUpdate(q1);
                 cf.stmt.executeUpdate(q2);

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


              }

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

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

     }

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

}
```

2.1 Connection Factory.sql

```
package bank;
import java.sql.*;

public class connectionFactory
   { // Instance Variables
   Connection con;
   Statement stmt;

   public connectionFactory() {
      try {
         // Loading The Driver
         Class.forName("com.mysql.cj.jdbc.Driver");
         con = DriverManager.getConnection("Jdbc:mysql:///bankmanagement","root","NIVESHTYAGI");
         stmt = con.createStatement();
      } catch (Exception e) {
         e.printStackTrace();
      }
   }

          public static Connection getConnection() {
                    // TODO Auto-generated method stub
                    return null;
```

Class and Package:
The class connectionFactory is part of the bank package, indicating it is likely used within a banking application.

Instance Variables:
Connection con: This variable is used to hold the database connection.
Statement stmt: This variable is used to facilitate executing SQL statements through the established database connection.

Constructor (connectionFactory):
1. Inside the constructor, the JDBC driver for MySQL (com.mysql.cj.jdbc.Driver) is loaded using Class.forName(). This is necessary to ensure that the MySQL driver is registered, and your application can use it to connect to a MySQL database.
2. The DriverManager.getConnection() method is called with parameters to establish a connection to the MySQL database located at the URL Jdbc:mysql:///bankmanagement with username root and password NIVESHTYAGI. This URL suggests that the database is hosted on the default MySQL port on localhost.
3. A Statement object is created using con.createStatement(), which can be used later to execute SQL queries.
4. If an error occurs during any of these operations (e.g., class not found, SQL exception), the error details are printed using e.printStackTrace().

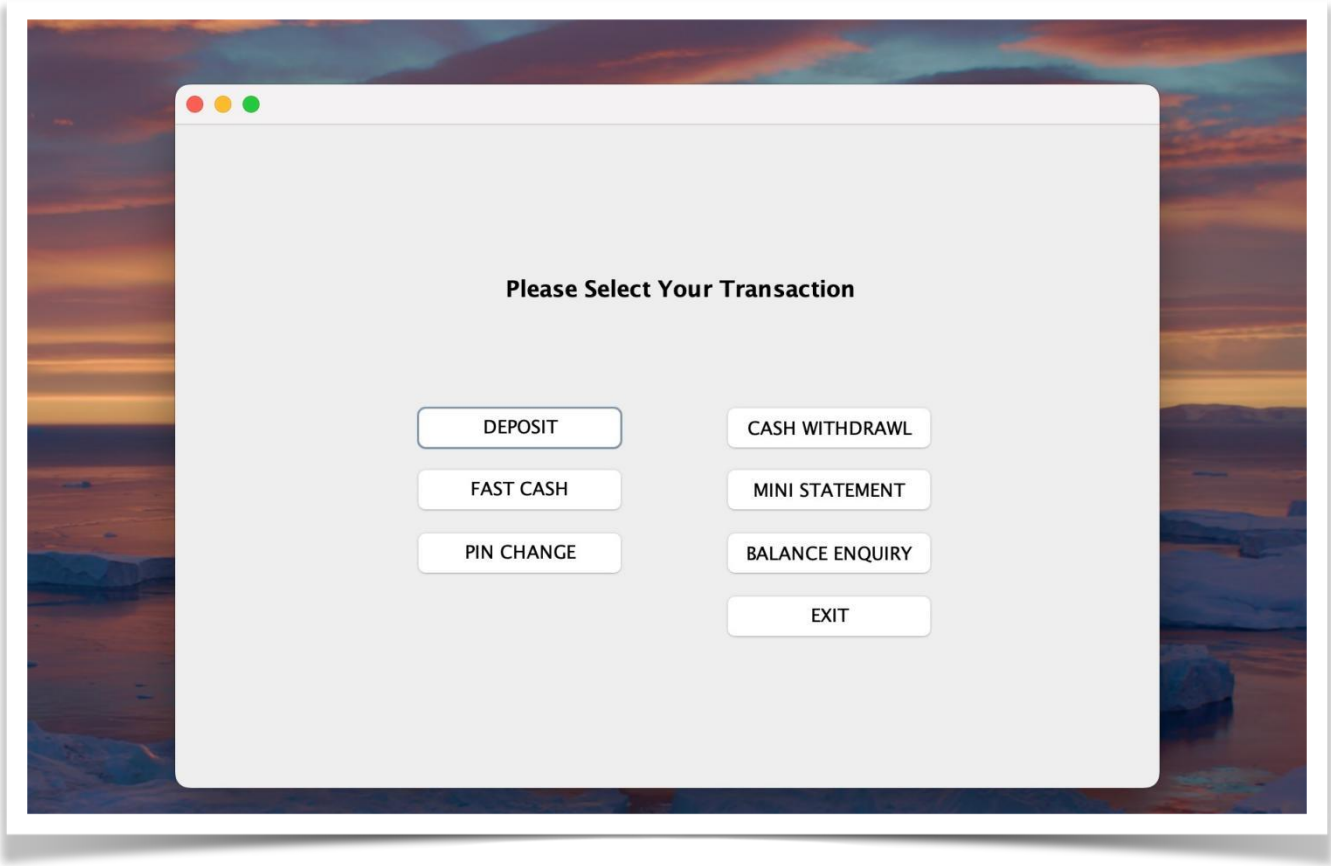
Static Method getConnection():
This method is intended to return a Connection object. However, it is not implemented correctly as it always returns null. Ideally, this method should return the Connection object con initialized in the constructor.

Transaction.java

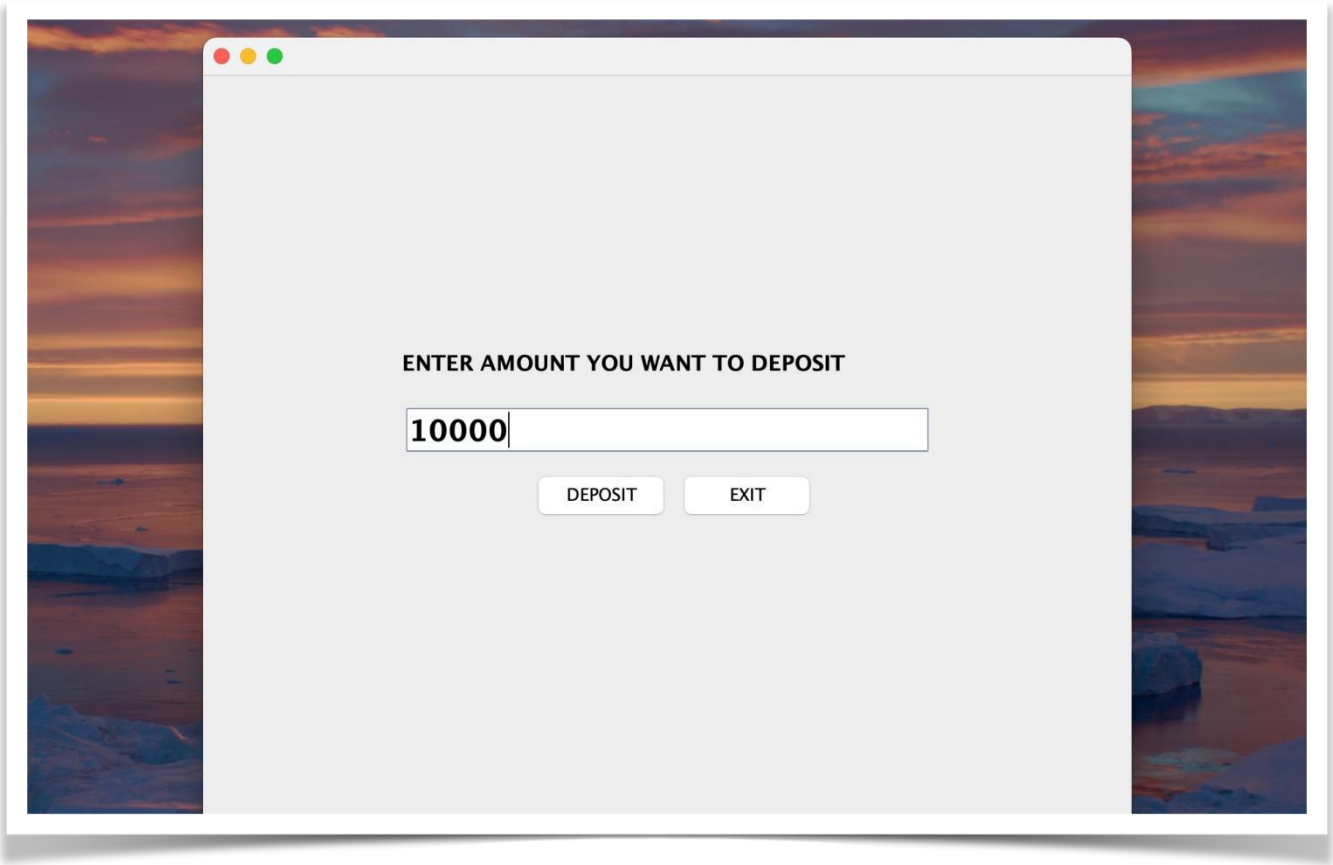
```
package bank;

import java.awt.Color; import
java.awt.Font;
import java.awt.event.ActionEvent; import
java.awt.event.ActionListener; import
javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;

public class Transactions extends JFrame implements ActionListener { JLabel
    l1;
    JButton   b1;
    JButton   b2;
    JButton   b3;
    JButton   b4;
    JButton   b5;
    JButton   b6;
    JButton   b7;
    String pin;

    Transactions(String pin) {
        this.pin = pin;
        this.l1 = new JLabel("Please Select Your Transaction");
        this.l1.setForeground(Color.BLACK); this.l1.setFont(new
        Font("System", Font.BOLD, 16)); this.b1 = new
        JButton("DEPOSIT");
        this.b2 = new JButton("CASH WITHDRAWL"); this.b3
        = new JButton("FAST CASH");
        this.b4 = new JButton("MINI STATEMENT");
        this.b5 = new JButton("PIN CHANGE");  this.b6 =
        new JButton("BALANCE ENQUIRY"); this.b7 =
        new JButton("EXIT"); this.setLayout(null);
        this.l1.setBounds(235, 100, 700, 35);
        this.add(this.l1); this.b1.setBounds(170,
        199, 150, 35); this.add(this.b1);
        this.b2.setBounds(390, 199, 150, 35);
        this.add(this.b2); this.b3.setBounds(170,
        243, 150, 35); this.add(this.b3);
        this.b4.setBounds(390, 243, 150, 35);
        this.add(this.b4); this.b5.setBounds(170,
        288, 150, 35); this.add(this.b5);
        this.b6.setBounds(390, 288, 150, 35);
        this.add(this.b6); this.b7.setBounds(390,
        333, 150, 35); this.add(this.b7);
        this.b1.addActionListener(this);
        this.b2.addActionListener(this);
        this.b3.addActionListener(this);
        this.b4.addActionListener(this);
        this.b5.addActionListener(this);
        this.b6.addActionListener(this);
```

```
        this.b7.addActionListener(this);
        this.setSize(700, 500);
        this.setLocationRelativeTo(null);
        this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE); this.setVisible(true);
    }

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

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

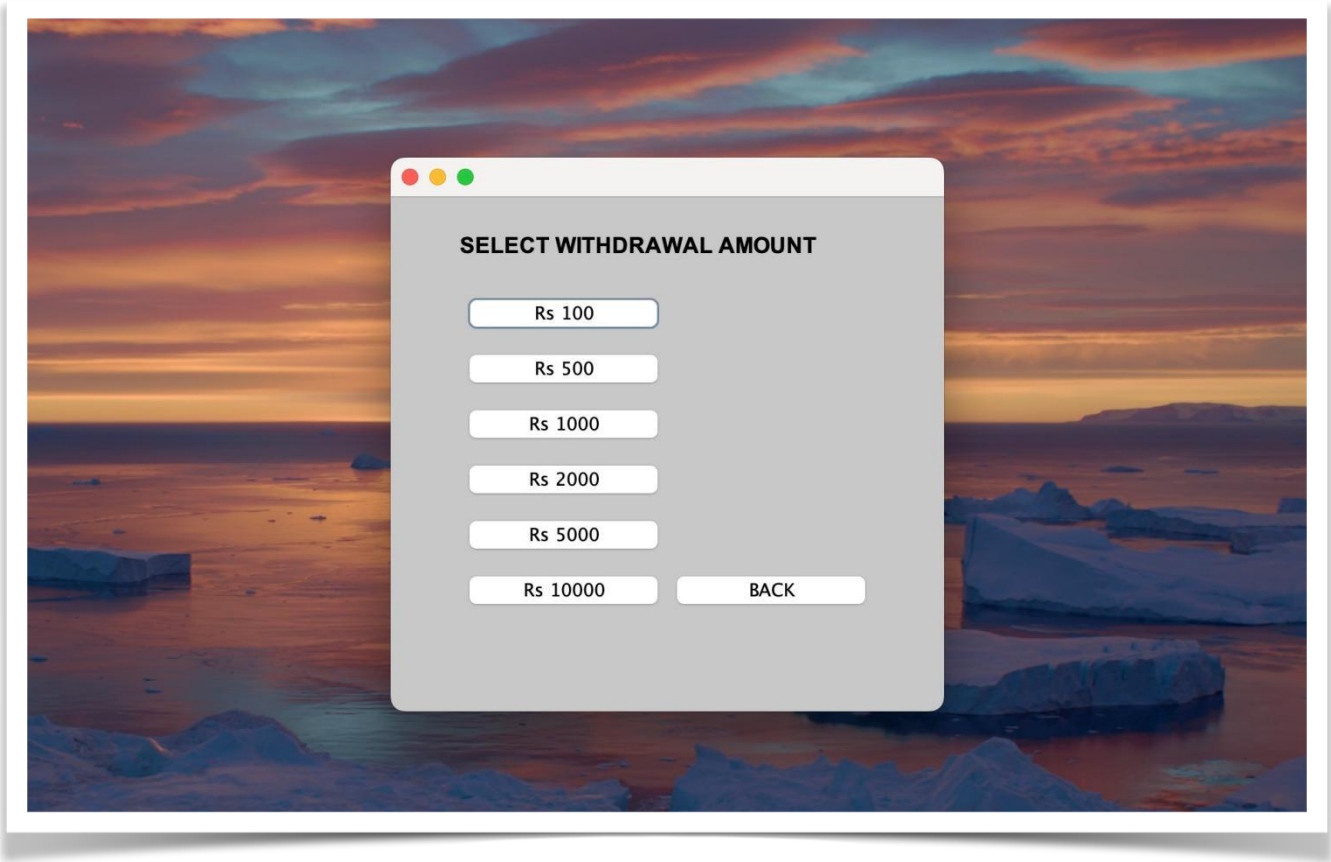
TransactionFrame



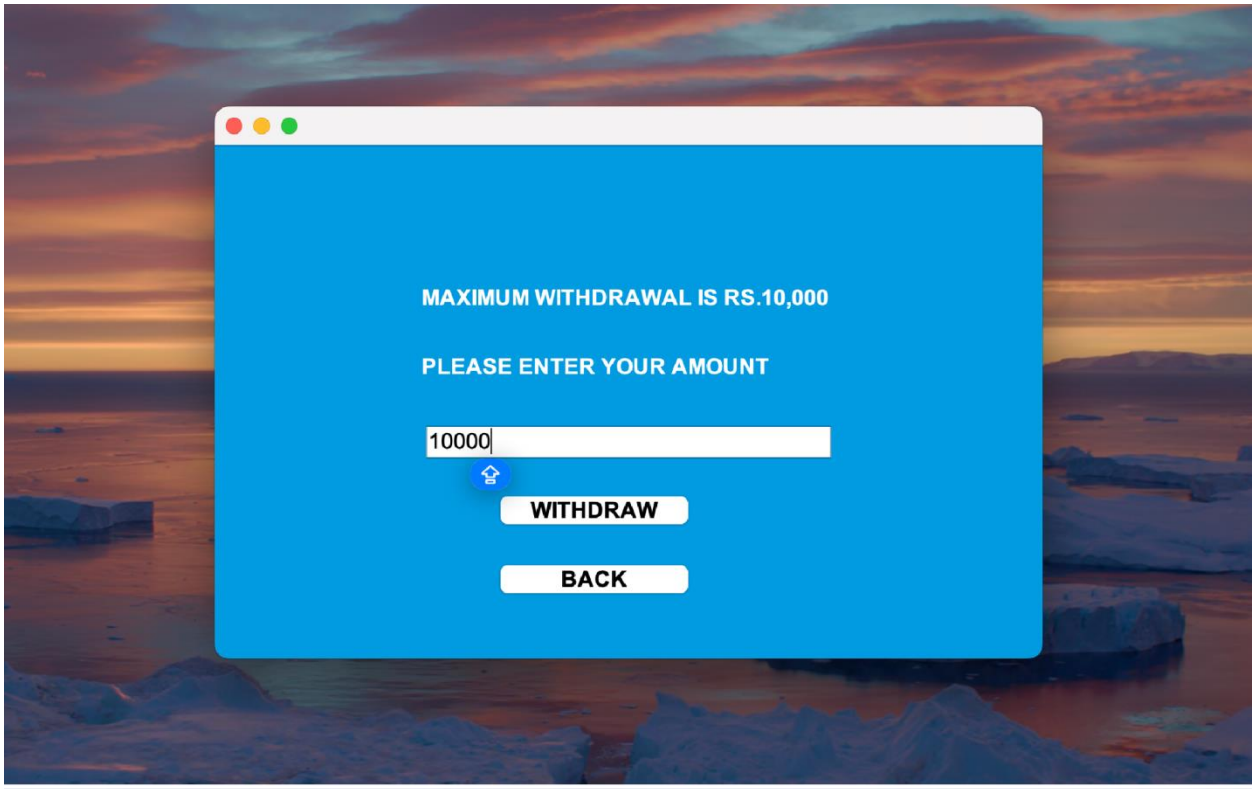
Deposite Frame



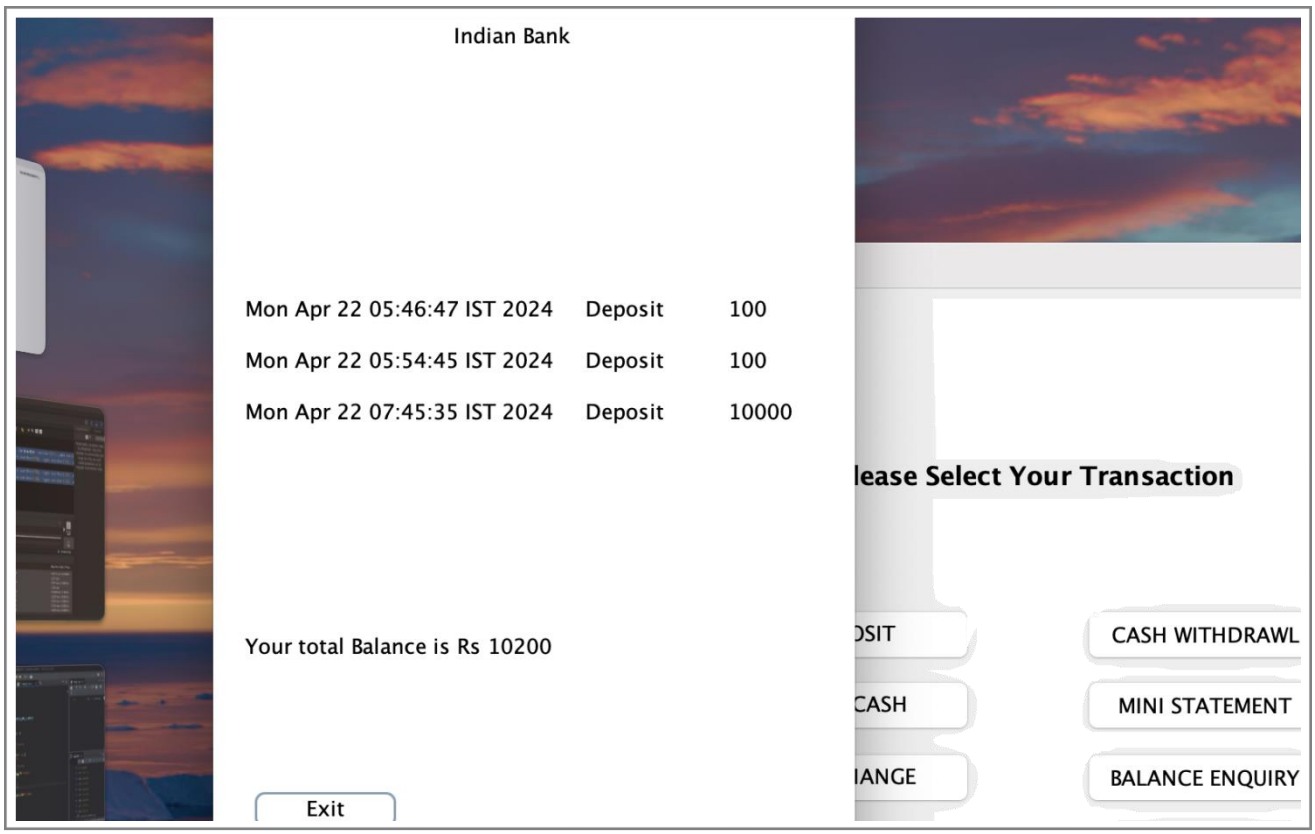
FAST CASH Frame



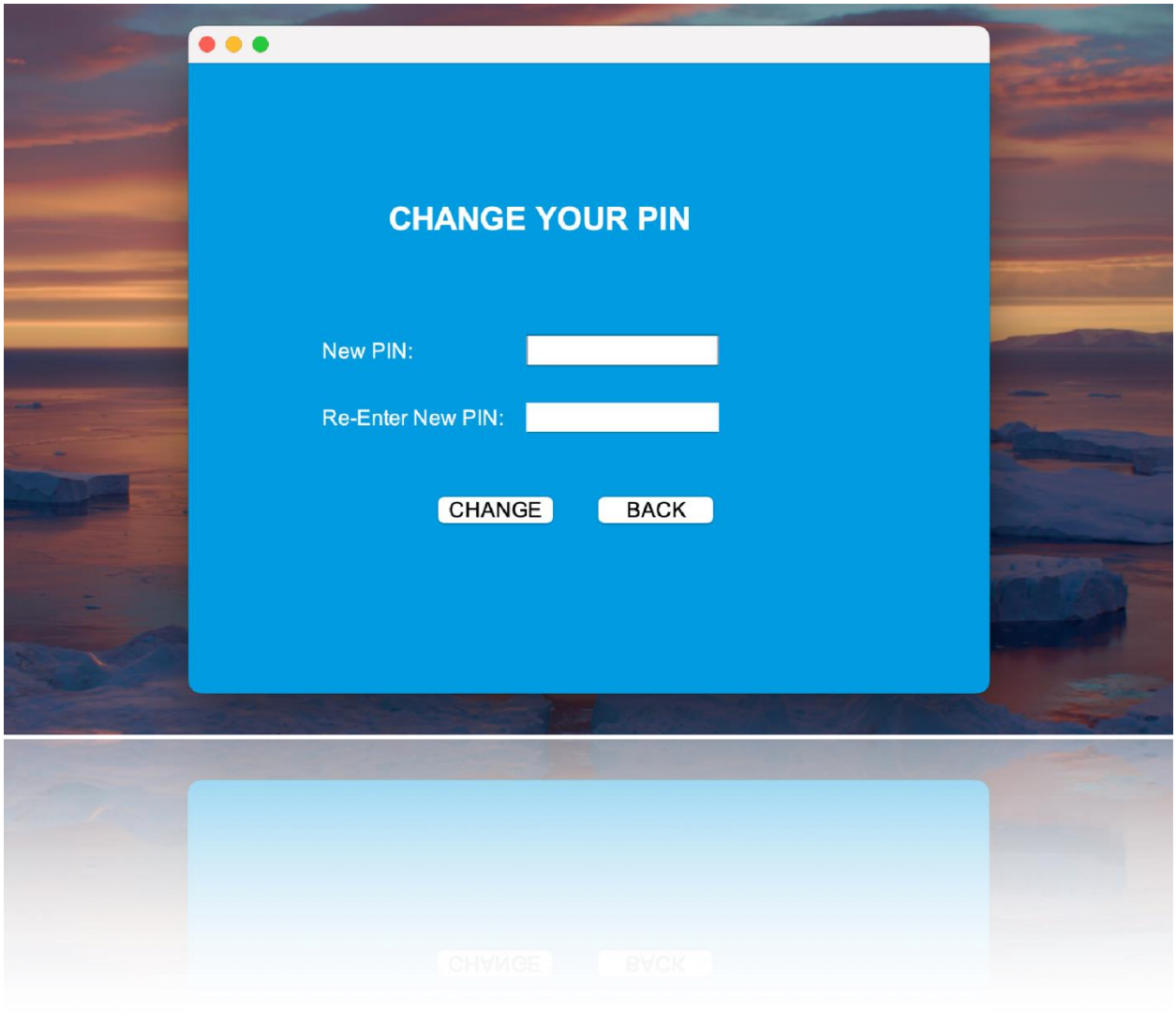
Cash Withdrawal Frame



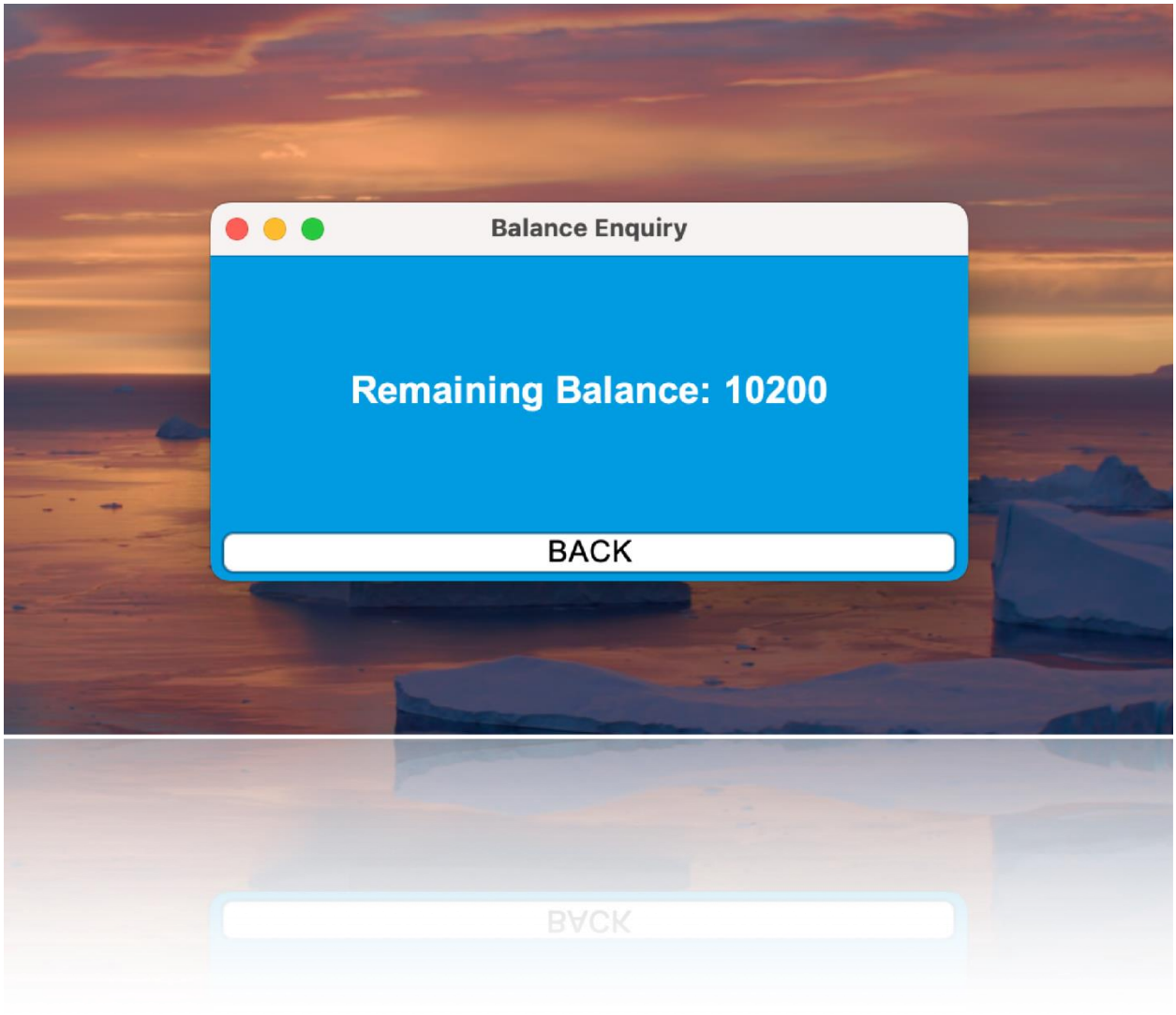
Mini Statement Frame



PIN Frame



Balance Enquiry Frame



CHAPTER-8 : SQL Queries

SIGNUP

```
CREATE TABLE signup (
    formno VARCHAR(20),
    name VARCHAR(100),
    fname VARCHAR(100),
    dob varchar(20),
    gender VARCHAR(10),
    email VARCHAR(100),
    marital_status VARCHAR(20),
    address VARCHAR(200),
    city VARCHAR(100),
    pincode VARCHAR(20),
    state VARCHAR(100)
);
```

Signup Table

form-no	father_nam	dob	gende	eail	marital_statu	address	city	pincod	state
6571	Vikash Tyagi	14-Jan-200	Male	nivty1@gmail.com	Married	Shastri Nagar	Meerut	250002	UP
2341	Sanjeev Tya	15-May-200	Male	vanty01@gmail.co	Married	Barla Muzaffarna	Muzaffarnag	251307	UP
8292	Sanjeev Tya	08-Feb-200	Male	vanity01@gmail.co	Married	Barla Muzaffarna	Muzaffarnag	251307	UP
1353	Vikram	06-Apr-2013	Male	avbhi1@gmail.co	Married	agra	agra	324521	UP
1221	shyam	06-Apr-2024	Male	ak1@gmail.com	Married	modi nagar	modi nagar	250001	up
2922	SHYAM	04-Jan-200	Male	ak1@gmail.com	Married	Modi nagar	Modi nagar	201204	UP
8728	vibhor	02-Apr-2004	Male	sam1@gmail.com	Married	32	meerut	250002	up

SIGNUPTWO

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));

Signuptwo Table

formno	religion	category	income	education	occupation	pan	aadhar	seniorcitizen	existingaccoun
6571	Hindu	General	Upto 10,00,00	Graduate	Salaried	FDDVD123	53535356253	Yes	No
2341	Hindu	General	Upto 10,0000	Post-Graduat	Salaried	CGy25228	12334347444	Yes	No
1353	Hindu	General	Upto 10,0000	Student	Salaried	GVDGGD36	24367281819	Yes	No
2922	Hindu	General	Null	Post-Graduat	Salaried	RGEDY231	1426783617`	No	No

SIGNUPTHREE

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

SIGNUP THREE TABLE

formno	accountType	cardnumber	pin	facility
6571	Saving Account	5040936079106483	1770	ATM Card
2341	Saving Account	5040936020704494	6202	ATM Card
1351	Saving Account	5040936020704494	6210	ATM Card
2922	Saving Account	5040935976448325	6880	ATM Card Internet Banking
1844	Saving Account	5040936076020921	7000	ATM Card Internet Banking

LOGIN

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

LOGIN TABLE

formno	cardnumber	pin
6571		
2341	5040936079106483	7275
1351	5040936020704494	4910
2922	5040935976448325	2790
1844	5040936076020921	6270

BANK

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

Bank Table

pin	date	type	amount
7275	Mon Apr 22 00:12:41 IST 2024	Deposit	3999
4910	Mon Apr 22 00:46:16 IST 2024	Deposit	4444
2790	Mon Apr 22 04:56:21 IST 2024	Deposit	4444
6270	Mon Apr 22 05:19:43 IST 2024	Withdrawl	222

CHAPTER-5 : 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.