



**globsyn**   
*Taking People To The Next Level*

# Banking System Using Java8

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# Acknowledgement

We take this opportunity to express our profound gratitude and deep regards to our faculty Munmun Purkayastha for her exemplary guidance, monitoring and constant encouragement throughout the course of this project. The blessing, help and guidance given by her time to time shall carry us a long way in the journey of life on which we about to embark.

We are obliged to all of us for providing valuable information by each of us in our respective fields as a project team member. We are also grateful to us for cooperation during the period of our assignment.

We are also grateful to Globsyn for giving us such a platform to show our talents.

Indranil Mukherjee

Shambo Samanta

Tamal Saha

Neha Parween

Anamika Maji

# Objectives

The objectives of this project are

1. To maintain the accounts like saving account, Current Account.
2. Maintaining operations like withdrawing, depositing money and applying loan to the user.
3. Providing account number to the Customer for dealing transactions in the bank.
4. Reducing Manual work in terms of Banking.
5. Giving accuracy in Data and calculations.
6. Making the Software user friendly.
7. Providing multiple applications at a time.
8. Increasing security, speed, storing and accuracy.
9. To speed up the operation.
10. Managing and maintaining data in an easier way.
11. Providing convenience to users and Accountants
12. Our Main Objective is to design a software which integrates all the facilities available in "Banking System".

# Scopes

## The scopes of this project are

### **User**

- i) A new user can register himself using the registration procedure by his own and will get auto generated User ID.
- ii) User Can Apply For Loan
- iii) User can see his Account Details, All accounts in this bank, Transfer money to another account, See Transaction Details, and edit his details

### **Accountant**

- iv) Accountant can create account for any Registered user
- v) Watch all accounts or any particular account details
- vi) Deposit or Withdraw or Transfer from any account
- vii) See Transaction Details of any Account
- viii) Edit or Delete any particular account

# Requirement Specification

## € Hardware /Software Requirements

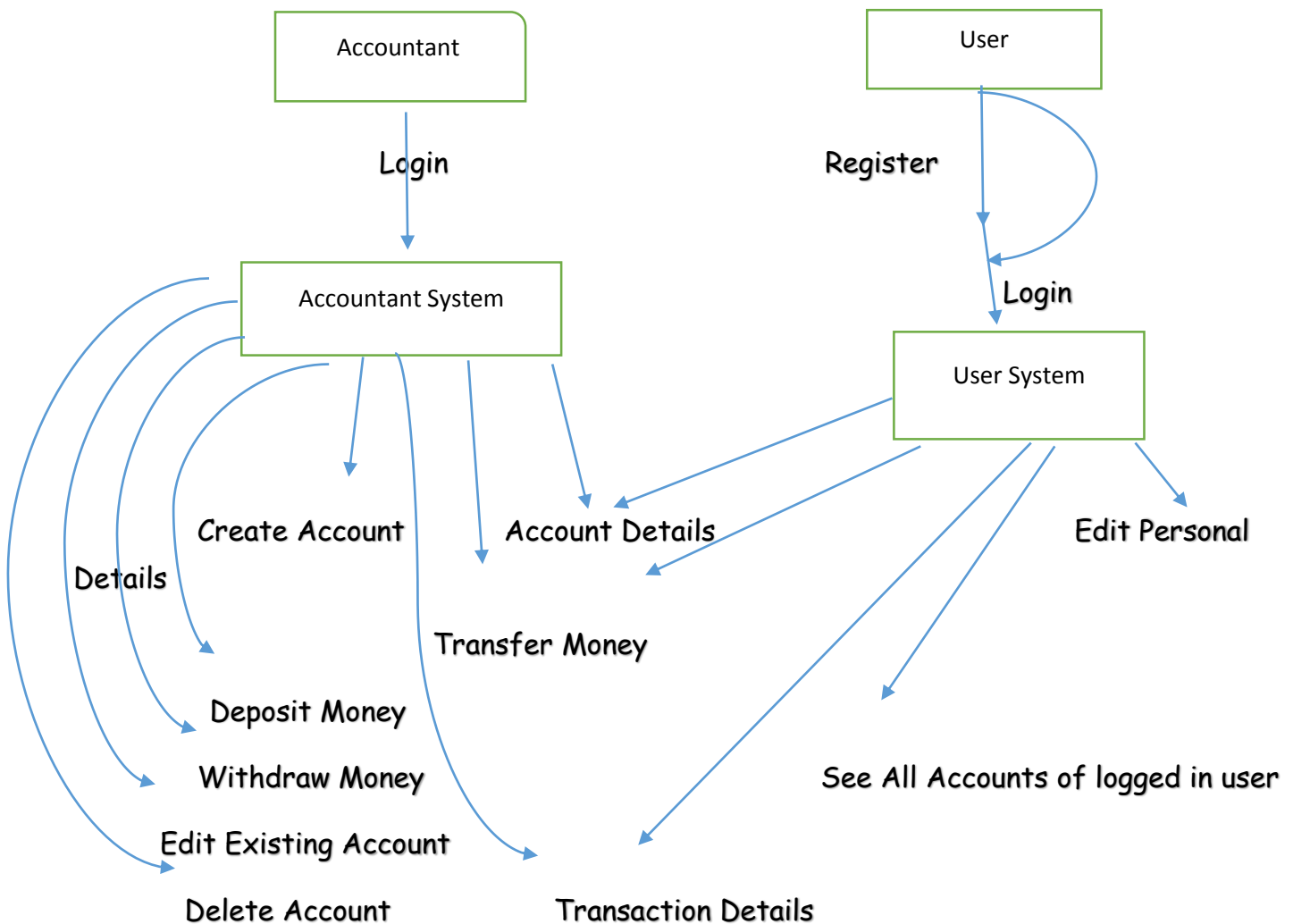
### ○ Hardware Requirements

- Minimum Pentium Dual Core Processor
- 1GB Ram
- 50 MB free Hard Disk Space

### ○ Software Requirements

- JDK 1.8 (while compiling)
- Java Runtime Environment(JRE) to run the program
- It can be runned on any Operating System After Compilation

## Application Work Flow





## Screenshots





iBanking

-----Accountant Log In-----



Enter Your ID:-

Enter Your Password:-

 Log In  Cancel





# iBanking

[See All Accounts](#)  [Log Out.](#)

 [Create Account](#)

 [Account Details](#)

 [Deposit Money](#)

 [Withdraw Money](#)

 [Transfer Money](#)

 [Transaction Details](#)

 [Edit Existing Account](#)

 [Delete an Account](#)

Enter The Account No:-



Account Type:- **Savings Account**

Account Holder's UID:- **56109**

Account Holder's Name:- **Shambo Samanta**

Available Balance:- **85000.0**





# iBanking

 See All Accounts  Log Out.

 Create Account

 Account Details

 Deposit Money

 Withdraw Money

 Transfer Money

 Transaction Details

 Edit Existing Account

 Delete an Account

Error Message

 Insufficient Balance in Sender's Account

OK

-----:Balance Transfer:-----

Enter Sender's Bank Account No:-

Enter Receiver's Bank Account No:-

Enter Amount:-

 Transfer

 **iBanking**

 See All Accounts  Log Out.

Create Account

 Account Details

 Deposit Money

 Withdraw Money

 Transfer Money

 Transaction Details

 Edit Existing Account

 Delete an Account

Enter The Account No:-

 Search

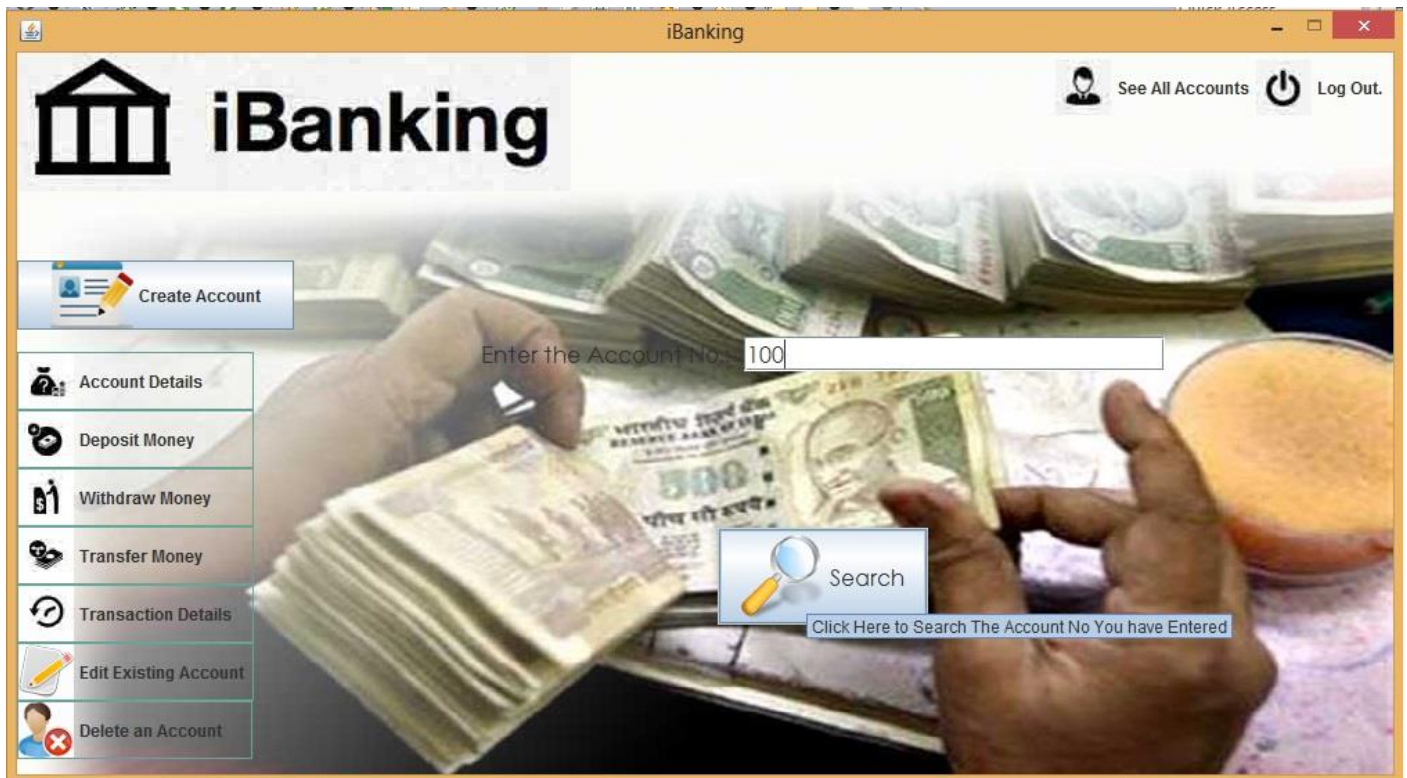
Information

 Now Available Balance :-27000.0

OK

Enter the Amount To Be Deposited:-

 Deposit





 **iBanking**

 See All Accounts  Log Out.

Create Account

 Account Details

 Deposit Money

 Withdraw Money

 Transfer Money

 Transaction Details

 Edit Existing Account

 Delete an Account

Showing Transaction Details of Savings Account:-100

Type of Transactions	Date	Time	Amount Dep./WtDrw.	Available Balance
iBanking Welcomes You	7 Jul, 2014	2:37:47 PM	0.0	40000.0
Cash Deposit	7 Jul, 2014	2:37:47 PM	45000.0	85000.0



# iBanking

[See All Accounts](#)  [Log Out](#)

[Create Account](#)

[Account Details](#)

[Deposit Money](#)

[Withdraw Money](#)

[Transfer Money](#)

[Transaction Details](#)

[Edit Existing Account](#)

[Delete an Account](#)

Enter The Account No:-



Error Message

 Insufficient Balance

Enter the Amount to be Withdrawn:-



**iBanking**

See All Accounts Log Out.

Create Account

Showing All The Accounts of This Bank

	AccountNo	AccountHolder's UID	AccountHolder's Name	Account Type	Balance
Account Details	100	sh100	Shambo Samanta	Savings Account	85000.0
	1002	ay102	Avush Samanta	Current Account	20000.0
Deposit Money	707143	sh100	Shambo Samanta	Savings Account	27000.0
	707144	sh100	Shambo Samanta	Savings Account	4977.0
Withdraw Money	707145	sh100	Shambo Samanta	Current Account	98701.0
	807146	ln05ru71	Indranil Mukherjee	Savings Account	1000.0
Transfer Money					
Transaction Details					
Edit Existing Account					
Delete an Account					





# iBanking

 See All Accounts  Log Out

 Create Account

 Account Details

 Deposit Money

 Withdraw Money

 Transfer Money

 Transaction Details

 Edit Existing Account

 Delete an Account

Account No: 0907147

Enter the Unit: sh100

The Holder's Name is: Shambo Samanta

Select The Account Type:- Current Account

Enter the Opening Amount Balance:-

Enter The Overdraft Limit of this Account

 Create



iBanking

 **iBanking**

Enter the User ID and Password to Login

UId:-

Password:-



 **Log In**

Still Not Have Any Account ??

 **Create**


 Log Out.

**Apply For Loan**


 Account Details [See All Account](#) Transfer Money


Transaction Details


 **Change Password** [Edit Your Details](#)





# iBanking

 Log Out

 Apply For Loan


 Account Details

 See All Account

 Transfer Money

 Transaction Details

 Change Password

 Edit Your Details

Select The Account No:

The Account Holder's Uid is:- **sh100**

The Account Holder's Name is:- **Shambo Samanta**

The Account Type is:- **Savings Account**

The Account's Available Balance is:- **27000.0**

The Account's Minimum Balance is:- **0.0**





# iBanking

 Log Out.

 Apply For Loan

 Account Details

 See All Account

 Transfer Money

 Transaction Details


 Change Password


 Edit Your Details

Enter Your Old Password:-


Enter Your New Password:-


Confirm Your New Password:-








# iBanking


 Log Out.


 Apply For Loan


 Account Details

 See All Account

 Transfer Money

 Transaction Details

 Change Password

 Edit Your Details

Id:- sh100

Edit Your Name:- Shambo Samanta

Edit Your Address:- 77/1 Banerjee Bagan Lane Salkia Howrah


Edit Your Pin Code:- 711106

Edit Your Email:- shambo.samanta01@gmail.com

Edit your Date:- 30-09-1994

Gender:- Male

Edit Your Phone:- 8013912420

 Done



# iBanking

iBanking



Log Out.



### Apply For Loan



### Account Details

[See All Account](#)

### Transfer Money



### Transaction Details



### Change Password

[Edit Your Details](#)


Select Account No 100



## Get Transactions


 **iBanking**


Log Out.

 Apply For Loan

 Account Details

 See All Account

 Transfer Money

 Transaction Details

 Change Password

 Edit Your Details

Showing Transaction Details of Savings Account:-100

Type of Transactions	Date	Time	Amount Dep./WdDrw.	Available Balance
iBanking Welcomes You	7 Jul, 2014	2:37:47 PM	40000.0	40000.0
Cash Deposit	7 Jul, 2014	2:37:47 PM	85000.0	85000.0



iBanking

 **iBanking**

 Log Out.

 Apply For Loan

 Account Details

 See All Account

 Transfer Money

 Transaction Details

 Change Password

 Edit Your Details

Select The Sender's Account No.

Select The Reciever's Account No.

Enter The Amount:-

 Transfer



shambo

# iBanking

## Customer Registration Area

Enter Your Name:-

Enter Your Address:-

Enter Your Pin No.:-

Enter Your Email ID:-

Select Your Gender:- ☐ Male ☐ Female

Select Your Date Of Birth(dd-mm-yyyy):-

Enter Your Ph No.:-

---

Your User ID:-

Enter The Password:-

ReEnter The Password:-

## Future Scope of Improvements

- ✚ Photo of an Account Holder can be uploaded  
this type of changes can be made in future
- ✚ Signature verification of an Account Holder  
can be implemented in future
- ✚ Apply for loan can be implemented in future
- ✚ In future by improving this software using JEE  
it can be run on Internet
- ✚ Passbook printing can be implemented in  
future

# Coding

## From package bank.view

```
package bank.view;

import javax.swing.*;

import java.awt.*;

public class AccntantLogIn extends JFrame{
    private JTextField tfID;
    private JLabel lblID, lblPass, lblHead, lblpic;
    private JPasswordField ps;
    private JPanel pnl, pnl1, pnl2, pnl3, pnl4, pnl5;
    private JButton btnlogin, btncncl;
    public AccntantLogIn(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        Bckgrndtrnslogin con=new Bckgrndtrnslogin();
        Container con2=getContentPane();
        pnl=new JPanel();
        pnl.setLayout(new BoxLayout(pnl, BoxLayout.Y_AXIS));
        pnl1=new JPanel();
        pnl1.setBackground(new Color(140, 175, 222));
        ImageIcon ic=new ImageIcon("image\\aud.png");
        lblpic=new JLabel(ic);
        pnl1.add(lblpic);
        pnl2=new JPanel(new FlowLayout(FlowLayout.LEFT));
        lblID=new JLabel("Enter Your ID:-");
        lblID.setFont(new Font("Century Gothic", Font.BOLD, 15));
        tfID=new JTextField(15);
        tfID.setFont(new Font("Century Gothic", Font.BOLD, 15));
        pnl2.setBackground(new Color(140, 175, 222));
        pnl2.add(lblID);
        pnl2.add(tfID);
        pnl3=new JPanel(new FlowLayout(FlowLayout.LEFT));
        lblPass=new JLabel("Enter Your Password:-");
        lblPass.setFont(new Font("Century Gothic", Font.BOLD, 15));
        ps=new JPasswordField(15);
        ps.setFont(new Font("Century Gothic", Font.BOLD, 15));
        pnl3.setBackground(new Color(140, 175, 222));
        pnl3.add(lblPass);
        pnl3.add(ps);
        pnl4=new JPanel();
```



```

        ImageIcon ic1=new ImageIcon("image\\aclgin.png");
        btnlogin=new JButton("Log In",ic1);
        ImageIcon ic2=new ImageIcon("image\\cnc1.png");
        btncnc1=new JButton("Cancel",ic2);
        pnl4.add(btnlogin);
        pnl4.add(btncnc1);
        pnl5=new JPanel();
        pnl5.setBackground(new Color(140, 175, 222));
        lblHead=new JLabel("-----Accountant Log In-----");
        lblHead.setFont(new Font("Century Gothic", Font.BOLD, 24));
        pnl5.add(lblHead);
        pnl.add(pnl5);
        pnl.add(pnl1);
        pnl.add(pnl2);
        pnl.add(pnl3);
        pnl.add(pnl4);
        pnl.setOpaque(false);
        pnl1.setOpaque(false);
        pnl2.setOpaque(false);
        pnl3.setOpaque(false);
        pnl4.setOpaque(false);
        pnl5.setOpaque(false);
        con.add(pnl);
        con2.add(con);
        setVisible(true);
        setSize(400, 440);
        setResizable(false);
    }
    public JTextField getTfID() {
        return tfID;
    }
    public JPasswordField getPs() {
        return ps;
    }
    public JButton getBtnlogin() {
        return btnlogin;
    }
    public JButton getBtncnc1() {
        return btncnc1;
    }
}
class Bckgrndtrnslogin extends JPanel
{
    public Bckgrndtrnslogin() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\dwn.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```

```

package bank.view;

import java.awt.*;

import javax.swing.*;
import javax.swing.border.LineBorder;
public class AccntDetails extends JFrame
{
    private JPanel pnl,pnl1,pnl2,pnl3,pnl4,pnl5,pnl6;
    private JTextField tfAccId;
    private JButton btnSrch;
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    private JLabel
lblAccId2,lblUid2,lblUid,lblHldrNm2,lblHldrNm,lblBal2,lblBal,lblMinBl2,lblMinBl,lbltype2,lbltyp
e;

    public AccntDetails(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        Bckgrndad con=new Bckgrndad();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here To View Account Details Of Any Account");
        ImageIcon ic2=new ImageIcon("image\\2.jpg");
        l2=new JLabel("Deposit Money", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here To Deposit Money To Any Account");
        ImageIcon ic3=new ImageIcon("image\\3.jpg");
        l3=new JLabel("Withdraw Money", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Withdraw Money From Any Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here To Transfer Money From An Account To Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here To View The Transaction Details");
        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Existing Account", ic9, JLabel.LEFT);
        l9.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l9);
        l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l9.setToolTipText("Click Here To Edit Existing Account Details");
    }
}

```

```

ImageIcon ic10=new ImageIcon("image\\d1.jpg");
l10=new JLabel("Delete an Account", ic10, JLabel.LEFT);
l10.setBorder(new LineBorder(new Color(103, 165, 152)));
spn.add(l10);
l10.setCursor(new Cursor(Cursor.HAND_CURSOR));
l10.setToolTipText("Click Here to Delete An Existing Account");
spn.setSize(400,50);
spn.setVisible(true);
p1=new JPanel();
ImageIcon ic5=new ImageIcon("image\\6.jpg");
l5=new JLabel("See All Accounts", ic5, JLabel.LEFT);
l5.setToolTipText("Click Here To See All The Accounts");
l5.setCursor(new Cursor(Cursor.HAND_CURSOR));
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here To Logout");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l5);
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\ca.png");
b1=new JButton("Create Account", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Create A New Account");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
b11=new JLabel("");
b12=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(b11);
p4.add(b12);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3, BorderLayout.WEST);
p1.add(p2, BorderLayout.EAST);
con.add(p1, BorderLayout.NORTH);
con.add(spn, BorderLayout.WEST);
pn1=new JPanel();
pn1.setLayout(new BoxLayout(pn1, BoxLayout.Y_AXIS));
pn11=new JPanel();
lblAccId2=new JLabel("Enter The Account No:-");
lblAccId2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
tfAccId=new JTextField(16);
tfAccId.setFont(new Font("Century Gothic", Font.PLAIN, 16));
ImageIcon pic=new ImageIcon("image\\sr.png");
btnSrch=new JButton("Search",pic);
btnSrch.setToolTipText("Click to Find the Details of the Account No Entered");
btnSrch.setCursor(new Cursor(Cursor.HAND_CURSOR));
btnSrch.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pn11.add(lblAccId2);
pn11.add(tfAccId);
pn11.add(btnSrch);
lblUId2=new JLabel();
lblUId2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblUId=new JLabel();

```

```

lblUid.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn12=new JPanel();
pn12.add(lblUid2);
pn12.add(lblUid);
pn13=new JPanel();
lblHldrNm2=new JLabel();
lblHldrNm2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblHldrNm=new JLabel();
lblHldrNm.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn13.add(lblHldrNm2);
pn13.add(lblHldrNm);
lblBal2=new JLabel();
lblBal2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblBal=new JLabel();
lblBal.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn14=new JPanel();
pn14.add(lblBal2);
pn14.add(lblBal);
lbltype2=new JLabel();
lbltype2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lbltype=new JLabel();
lbltype.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn16=new JPanel();
pn16.add(lbltype2);
pn16.add(lbltype);
lblMinB12=new JLabel();
lblMinB12.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblMinB1=new JLabel();
lblMinB1.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn15=new JPanel();
pn15.add(lblMinB12);
pn15.add(lblMinB1);
pn1.add(pn11);
pn1.add(pn16);
pn1.add(pn12);
pn1.add(pn13);
pn1.add(pn14);
pn1.add(pn15);
lblAccId2.setForeground(new Color(83, 72, 11));
lblUid2.setForeground(new Color(83, 72, 11));
lblUid.setForeground(new Color(83, 72, 11));
lblHldrNm2.setForeground(new Color(83, 72, 11));
lblHldrNm.setForeground(new Color(83, 72, 11));
lblBal2.setForeground(new Color(83, 72, 11));
lblBal.setForeground(new Color(83, 72, 11));
lblMinB12.setForeground(new Color(83, 72, 11));
lblMinB1.setForeground(new Color(83, 72, 11));
lbltype2.setForeground(new Color(83, 72, 11));
lbltype.setForeground(new Color(83, 72, 11));
pn1.setOpaque(false);
pn11.setOpaque(false);
pn12.setOpaque(false);
pn13.setOpaque(false);
pn14.setOpaque(false);
pn15.setOpaque(false);
pn16.setOpaque(false);
con.add(pn1, BorderLayout.CENTER);
con2.add(con);
setVisible(true);
setSize(1000, 550);
setResizable(false);
}
public JLabel getL1() {
    return l1;
}

```

```

public JLabel getL2() {
    return l2;
}
public JLabel getL3() {
    return l3;
}
public JLabel getL4() {
    return l4;
}
public JLabel getL5() {
    return l5;
}
public JLabel getL6() {
    return l6;
}
public JLabel getL7() {
    return l7;
}
public JLabel getL9() {
    return l9;
}
public JLabel getL10() {
    return l10;
}
public JButton getB1() {
    return b1;
}
public JPanel getPnl() {
    return pnl;
}
public JTextField getTfAccId() {
    return tfAccId;
}
public JButton getBtnSrch() {
    return btnSrch;
}
public JLabel getLblUid() {
    return lblUid;
}
public JLabel getLblHldrNm() {
    return lblHldrNm;
}
public JLabel getLblBal() {
    return lblBal;
}
public JLabel getLblMinB1() {
    return lblMinB1;
}
public JLabel getLbltype() {
    return lbltype;
}
public JLabel getLblMinB12() {
    return lblMinB12;
}
public JLabel getLblAccId2() {
    return lblAccId2;
}
public JLabel getLblUid2() {
    return lblUid2;
}
public JLabel getLblHldrNm2() {
    return lblHldrNm2;
}
public JLabel getLblBal2() {
    return lblBal2;
}

```

```

    }
    public JLabel getLbltype2() {
        return lbltype2;
    }
}
class Bckgrndad extends JPanel
{

    public Bckgrndad() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\achm.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```

```

package bank.view;

import java.awt.*;

import javafx.scene.layout.Border;

import javax.swing.*;
import javax.swing.border.BevelBorder;
import javax.swing.border.LineBorder;
public class AccntEdit extends JFrame
{
    private JPanel pnl,pnl1,pnl2,pnl3,pnl4,pnl5,pnl6,pnl7;
    private JTextField tfAccId,tfMinBl;
    private JButton btnSrch,btnDn;
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    private JComboBox<String> jcmType;
    private String a[]={ "Savings Account", "Current Account"};
    private JLabel
lblAccId2,lblUid,lblUid2,lblHldrNm2,lblHldrNm,lblBal2,lblBal,lblMinBl2,lbltype2;
    public AccntEdit(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        Bckgrnded con=new Bckgrnded();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here To View Account Details Of Any Account");
        ImageIcon ic2=new ImageIcon("image\\2.jpg");
        l2=new JLabel("Deposit Money", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here To Deposit Money To Any Account");
        ImageIcon ic3=new ImageIcon("image\\3.jpg");
        l3=new JLabel("Withdraw Money", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Withdraw Money From Any Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here To Transfer Money From An Account To Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here To View The Transaction Details");
        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Existing Account", ic9, JLabel.LEFT);

```

```

19.setBorder(new LineBorder(new Color(103, 165, 152)));
spn.add(l9);
19.setCursor(new Cursor(Cursor.HAND_CURSOR));
19.setToolTipText("Click Here To Edit Existing Account Details");
ImageIcon ic10=new ImageIcon("image\\d1.jpg");
l10=new JLabel("Delete an Account", ic10, JLabel.LEFT);
l10.setBorder(new LineBorder(new Color(103, 165, 152)));
spn.add(l10);
l10.setCursor(new Cursor(Cursor.HAND_CURSOR));
l10.setToolTipText("Click Here to Delete An Existing Account");
spn.setSize(400,50);
spn.setVisible(true);
p1=new JPanel();
ImageIcon ic5=new ImageIcon("image\\6.jpg");
l5=new JLabel("See All Accounts", ic5, JLabel.LEFT);
l5.setToolTipText("Click Here To See All The Accounts");
l5.setCursor(new Cursor(Cursor.HAND_CURSOR));
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here To Logout");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l5);
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\ca.png");
b1=new JButton("Create Account", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Create A New Account");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
b11=new JLabel("");
b12=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(b11);
p4.add(b12);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3, BorderLayout.WEST);
p1.add(p2, BorderLayout.EAST);
con.add(p1, BorderLayout.NORTH);
con.add(spn, BorderLayout.WEST);
pnl=new JPanel();
pnl.setLayout(new BoxLayout(pnl, BoxLayout.Y_AXIS));
pnl1=new JPanel();
lblAccId2=new JLabel("Account No:-");
lblAccId2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
tfAccId=new JTextField(16);
tfAccId.setFont(new Font("Century Gothic", Font.PLAIN, 16));
ImageIcon pic=new ImageIcon("image\\sr.png");
btnSrch=new JButton("Search",pic);
btnSrch.setToolTipText("Click to Find the Details of the Account No Entered");
btnSrch.setCursor(new Cursor(Cursor.HAND_CURSOR));
btnSrch.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pnl1.add(lblAccId2);
pnl1.add(tfAccId);

```



```

pn11.add(btnSrch);
lblUid2=new JLabel("Acoount Holder's Uid:-");
lblUid2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblUid=new JLabel();
lblUid.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn12=new JPanel();
pn12.add(lblUid2);
pn12.add(lblUid);
pn13=new JPanel();
lblHldrNm2=new JLabel("Account Holder's Name:--");
lblHldrNm2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblHldrNm=new JLabel();
lblHldrNm.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn13.add(lblHldrNm2);
pn13.add(lblHldrNm);
lblBal2=new JLabel("Account Balance:--");
lblBal2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblBal=new JLabel();
lblBal.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn14=new JPanel();
pn14.add(lblBal2);
pn14.add(lblBal);
lblMinBl2=new JLabel("Account Should Have Minimum Balance:-");
lblMinBl2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
tfMinBl=new JTextField(10);
tfMinBl.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn15=new JPanel();
pn15.add(lblMinBl2);
pn15.add(tfMinBl);
lbltype2=new JLabel("Type of The Account:--");
lbltype2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
jcmType=new JComboBox<String>(a);
jcmType.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn16=new JPanel();
pn16.add(lbltype2);
pn16.add(jcmType);
ImageIcon pic1=new ImageIcon("image\\reg.png");
btnDn=new JButton("Done",pic1);
btnDn.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn17=new JPanel();
pn17.add(btnDn);
pn1.add(pn11);
pn1.add(pn16);
pn1.add(pn12);
pn1.add(pn13);
pn1.add(pn14);
pn1.add(pn15);
pn1.add(pn17);
lblAccId2.setForeground(Color.ORANGE);
lblUid.setForeground(new Color(8, 106, 17));
lblUid2.setForeground(Color.ORANGE);
lblHldrNm2.setForeground(Color.ORANGE);
lblHldrNm.setForeground(new Color(8, 106, 17));
lblBal2.setForeground(Color.ORANGE);
lblBal.setForeground(new Color(8, 106, 17));
lblMinBl2.setForeground(Color.ORANGE);
lbltype2.setForeground(Color.ORANGE);
pn1.setOpaque(false);
pn11.setOpaque(false);
pn12.setOpaque(false);
pn13.setOpaque(false);
pn14.setOpaque(false);
pn15.setOpaque(false);
pn16.setOpaque(false);
pn17.setOpaque(false);

```

```

        con.add(pnl, BorderLayout.CENTER);
        con2.add(con);
        setVisible(true);
        setSize(1000, 550);
        setResizable(false);
    }
    public JLabel getL1() {
        return l1;
    }
    public JLabel getL2() {
        return l2;
    }
    public JLabel getL3() {
        return l3;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL5() {
        return l5;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JLabel getL10() {
        return l10;
    }
    public JButton getB1() {
        return b1;
    }
    public JPanel getPnl() {
        return pnl;
    }
    public JLabel getLblUid() {
        return lblUid;
    }
    public JComboBox<String> getJcmType() {
        return jcmType;
    }
    public JTextField getTfAccId() {
        return tfAccId;
    }
    public JButton getBtnSrch() {
        return btnSrch;
    }
    public JTextField getTfMinBl() {
        return tfMinBl;
    }
    public JButton getBtnDn() {
        return btnDn;
    }
    public JLabel getLblHldrNm() {
        return lblHldrNm;
    }
    public JLabel getLblBal() {
        return lblBal;
    }
    public JLabel getLblMinBl2() {

```

```

        return lblMinB12;
    }
}
class Bckgrnded extends JPanel
{
    public Bckgrnded() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\delete.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```

```

package bank.view;

import java.awt.*;

import javax.swing.*;
import javax.swing.border.LineBorder;
public class AccntTrans extends JFrame
{
    private JLabel lbl1;
    private JTextField tf;
    private JPanel pnlw1,pnlw2,pnlw3;
    private JButton btnSrch;
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    public AccntTrans(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        Bckgrndtrn con=new Bckgrndtrn();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here To View Account Details Of Any Account");
        ImageIcon ic2=new ImageIcon("image\\2.jpg");
        l2=new JLabel("Deposit Money", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here To Deposit Money To Any Account");
        ImageIcon ic3=new ImageIcon("image\\3.jpg");
        l3=new JLabel("Withdraw Money", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Withdraw Money From Any Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here To Transfer Money From An Account To Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here To View The Transaction Details");
        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Existing Account", ic9, JLabel.LEFT);
        l9.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l9);
        l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l9.setToolTipText("Click Here To Edit Existing Account Details");
        ImageIcon ic10=new ImageIcon("image\\d1.jpg");
        l10=new JLabel("Delete an Account", ic10, JLabel.LEFT);
        l10.setBorder(new LineBorder(new Color(103, 165, 152)));
    }
}

```

```

spn.add(l10);
l10.setCursor(new Cursor(Cursor.HAND_CURSOR));
l10.setToolTipText("Click Here to Delete An Existing Account");
spn.setSize(400,50);
spn.setVisible(true);
p1=new JPanel();
ImageIcon ic5=new ImageIcon("image\\6.jpg");
l5=new JLabel("See All Accounts", ic5, JLabel.LEFT);
l5.setToolTipText("Click Here To See All The Accounts");
l5.setCursor(new Cursor(Cursor.HAND_CURSOR));
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here To LogOut");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l5);
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\ca.png");
b1=new JButton("Create Account", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Create A New Account");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
b11=new JLabel("");
b12=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(b11);
p4.add(b12);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3, BorderLayout.WEST);
p1.add(p2, BorderLayout.EAST);
con.add(p1, BorderLayout.NORTH);
con.add(spn, BorderLayout.WEST);
pnlw1=new JPanel();
pnlw1.setLayout(new BoxLayout(pnlw1, BoxLayout.Y_AXIS));
pnlw2=new JPanel();
tf=new JTextField(20);
tf.setToolTipText("Enter Account No Here");
tf.setFont(new Font("Century Gothic", Font.PLAIN, 16));
l11=new JLabel("Enter the Account No.:-");
l11.setFont(new Font("Century Gothic", Font.PLAIN, 16));
ImageIcon pic=new ImageIcon("image\\srch.png");
btnSrch=new JButton("Search", pic);
btnSrch.setToolTipText("Click Here to Search The Account No You have Entered");
btnSrch.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pnlw2.add(l11);
pnlw2.add(tf);
pnlw3=new JPanel();
pnlw3.add(btnSrch);
pnlw1.add(pnlw2);
pnlw1.add(pnlw3);
pnlw1.setOpaque(false);
pnlw2.setOpaque(false);
pnlw3.setOpaque(false);

```

```

        con.add(pnlw1, BorderLayout.CENTER);
        con2.add(con);
        setVisible(true);
        setSize(1000, 550);
        setResizable(false);
    }
    public JLabel getL1() {
        return l1;
    }
    public JLabel getL2() {
        return l2;
    }
    public JLabel getL3() {
        return l3;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL5() {
        return l5;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JLabel getL10() {
        return l10;
    }
    public JButton getB1() {
        return b1;
    }
    public JTextField getTf() {
        return tf;
    }
    public JButton getBtnSrch() {
        return btnSrch;
    }
}
class Bckgrndtrn extends JPanel
{
    public Bckgrndtrn() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\transctn.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```



```

package bank.view;
import javax.swing.*;
import javax.swing.border.LineBorder;

import java.awt.*;
public class AccntTableVew extends JFrame{
    private JTable tble;
    private JScrollPane spn1;
    private JLabel lbl;
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    private JPanel pnl,pn1;
    public AccntTableVew(String arg0, JTable tbl) throws HeadlessException {
        super(arg0);
        this.tble = tbl;
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        Bckgrndtb con=new Bckgrndtb();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here To View Account Details Of Any Account");
        ImageIcon ic2=new ImageIcon("image\\2.jpg");
        l2=new JLabel("Deposit Money", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here To Deposit Money To Any Account");
        ImageIcon ic3=new ImageIcon("image\\3.jpg");
        l3=new JLabel("Withdraw Money", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Withdraw Money From Any Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here To Transfer Money From An Account To Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here To View The Transaction Details");
        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Existing Account", ic9, JLabel.LEFT);
        l9.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l9);
        l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l9.setToolTipText("Click Here To Edit Existing Account Details");
        ImageIcon ic10=new ImageIcon("image\\d1.jpg");
        l10=new JLabel("Delete an Account", ic10, JLabel.LEFT);
        l10.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l10);
        l10.setCursor(new Cursor(Cursor.HAND_CURSOR));

```

```

l10.setToolTipText("Click Here to Delete An Existing Account");
spn.setSize(400,50);
spn.setVisible(true);
p1=new JPanel();
ImageIcon ic5=new ImageIcon("image\\6.jpg");
l5=new JLabel("See All Accounts", ic5, JLabel.LEFT);
l5.setToolTipText("Click Here To See All The Accounts");
l5.setCursor(new Cursor(Cursor.HAND_CURSOR));
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here To LogOut");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l5);
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\ca.png");
b1=new JButton("Create Account", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Create A New Account");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
b11=new JLabel("");
b12=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(b11);
p4.add(b12);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3,BorderLayout.WEST);
p1.add(p2,BorderLayout.EAST);
con.add(p1,BorderLayout.NORTH);
con.add(spn,BorderLayout.WEST);
lbl=new JLabel();
lbl.setFont(new Font("Century Gothic", Font.PLAIN, 16));
tble.setFont(new Font("Century Gothic", Font.PLAIN, 16));
tble.setBorder(new LineBorder(new Color(60, 155, 136)));
spn1=new JScrollPane(tble);
pnl=new JPanel();
pnl.setLayout(new BoxLayout(pnl, BoxLayout.Y_AXIS));
pnl1=new JPanel();
pnl1.add(lbl);
pnl1.add(pnl1);
tble.setOpaque(false);
spn1.setOpaque(false);
pnl.add(spn1);
pnl.setOpaque(false);

pnl1.setOpaque(false);
con.add(pnl,BorderLayout.CENTER);
con2.add(con);
setVisible(true);
setSize(1000, 550);
setResizable(false);
}

```

```

    public JLabel getLb1() {
        return lb1;
    }
    public JLabel getL1() {
        return l1;
    }
    public JLabel getL2() {
        return l2;
    }
    public JLabel getL3() {
        return l3;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL5() {
        return l5;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JLabel getL10() {
        return l10;
    }
    public JButton getB1() {
        return b1;
    }
}
class Bckgrndtb extends JPanel
{

    public Bckgrndtb() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\frtb.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```

```

package bank.view;
import javax.swing.*;
import javax.swing.border.BevelBorder;
import javax.swing.border.LineBorder;

import java.awt.*;
public class AccountantHome extends JFrame
{
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    public AccountantHome(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        Bckgrnd con=new Bckgrnd();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here To View Account Details Of Any Account");
        ImageIcon ic2=new ImageIcon("image\\2.jpg");
        l2=new JLabel("Deposit Money", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here To Deposit Money To Any Account");
        ImageIcon ic3=new ImageIcon("image\\3.jpg");
        l3=new JLabel("Withdraw Money", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Withdraw Money From Any Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here To Transfer Money From An Account To Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here To View The Transaction Details");
        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Existing Account", ic9, JLabel.LEFT);
        l9.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l9);
        l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l9.setToolTipText("Click Here To Edit Existing Account Details");
        ImageIcon ic10=new ImageIcon("image\\d1.jpg");
        l10=new JLabel("Delete an Account", ic10, JLabel.LEFT);
        l10.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l10);
        l10.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l10.setToolTipText("Click Here to Delete An Existing Account");
        spn.setSize(400,50);
    }
}

```

```

        spn.setVisible(true);
        p1=new JPanel();
        ImageIcon ic5=new ImageIcon("image\\6.jpg");
        l5=new JLabel("See All Accounts", ic5, JLabel.LEFT);
        l5.setToolTipText("Click Here To See All The Accounts");
        l5.setCursor(new Cursor(Cursor.HAND_CURSOR));
        ImageIcon ic6=new ImageIcon("image\\7.jpg");
        l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
        l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l6.setToolTipText("Click Here To Logout");
        p1.setLayout(new BorderLayout());
        p2=new JPanel();
        p2.add(l5);
        p2.add(l6);
        p3=new JPanel();
        ImageIcon ic11=new ImageIcon("image\\ca.png");
        b1=new JButton("Create Account", ic11);
        b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        b1.setToolTipText("Click Here To Create A New Account");
        b1.setPreferredSize(new Dimension(150,20));
        p3.setLayout(new GridLayout(2, 2));
        ImageIcon ic8=new ImageIcon("image\\8.jpg");
        l8=new JLabel(ic8);
        b11=new JLabel("");
        b12=new JLabel("");
        p4=new JPanel(new GridLayout(2, 2));
        p4.add(b11);
        p4.add(b12);
        p4.add(b1);
        p3.add(l8);
        p3.add(p4);
        spn.setOpaque(false);
        p1.setOpaque(false);
        p2.setOpaque(false);
        p3.setOpaque(false);
        p4.setOpaque(false);
        p1.add(p3,BorderLayout.WEST);
        p1.add(p2,BorderLayout.EAST);
        con.add(p1,BorderLayout.NORTH);
        con.add(spn,BorderLayout.WEST);
        con2.add(con);
        setVisible(true);
        setSize(1000, 550);
        setResizable(false);
    }
    public JLabel getL1() {
        return l1;
    }
    public JLabel getL2() {
        return l2;
    }
    public JLabel getL3() {
        return l3;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL5() {
        return l5;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }

```

```

    }
    public JLabel getL9() {
        return l9;
    }
    public JLabel getL10() {
        return l10;
    }
    public JButton getB1() {
        return b1;
    }
}
class Bckgrnd extends JPanel
{
    public Bckgrnd() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\achmf.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```



```

package bank.view;
import java.awt.*;
import javax.swing.*;
public class AccountDeposit extends AccntDetails
{
    private JPanel pnl7,pnl8;
    private JTextField tfDepAmt;
    private JLabel l11;
    private JButton btnDeps;
    public AccountDeposit(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        pnl7=new JPanel();
        pnl8=new JPanel();
        tfDepAmt=new JTextField(10);
        tfDepAmt.setFont(new Font("Century Gothic", Font.BOLD, 16));
        tfDepAmt.setToolTipText("Enter The Deposit Amount Here");
        l11=new JLabel("Enter the Amount To Be Deposited:-");
        l11.setFont(new Font("Century Gothic", Font.BOLD, 16));
        pnl7.add(l11);
        pnl7.add(tfDepAmt);
        pnl8=new JPanel();
        ImageIcon pic1=new ImageIcon("image\\dep.png");
        btnDeps=new JButton("Deposit",pic1);
        btnDeps.setFont(new Font("Century Gothic", Font.BOLD, 16));
        pnl8.add(btnDeps);
        pnl7.setOpaque(false);
        pnl8.setOpaque(false);
        super.getPnl().add(pnl7);
        super.getPnl().add(pnl8);
    }
    public JTextField getTfDepAmt() {
        return tfDepAmt;
    }
    public JButton getBtnDeps() {
        return btnDeps;
    }
}

```

```

package bank.view;
import java.awt.*;

import javax.swing.*;
public class AccountWithdraw extends AccntDetails
{
    private JPanel pnl7,pnl8;
    private JTextField tfWithdAmt;
    private JLabel l11;
    private JButton btnWithdraw;
    public AccountWithdraw(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        pnl7=new JPanel();
        pnl8=new JPanel();
        tfWithdAmt=new JTextField(10);
        tfWithdAmt.setFont(new Font("Century Gothic", Font.BOLD, 16));
        tfWithdAmt.setToolTipText("Enter The Amount Here");
        l11=new JLabel("Enter the Amount to be Withdrawn:-");
        l11.setFont(new Font("Century Gothic", Font.BOLD, 16));
        pnl7.add(l11);
        pnl7.add(tfWithdAmt);
        pnl8=new JPanel();
        ImageIcon pic1=new ImageIcon("image\\wtldr.png");
        btnWithdraw=new JButton("Withdraw",pic1);
        btnWithdraw.setFont(new Font("Century Gothic", Font.BOLD, 16));
        pnl8.add(btnWithdraw);
        pnl7.setOpaque(false);
        pnl8.setOpaque(false);
        super.getPnl().add(pnl7);
        super.getPnl().add(pnl8);
    }
    public JTextField getTfWithdAmt() {
        return tfWithdAmt;
    }
    public JButton getBtnWithdraw() {
        return btnWithdraw;
    }
}

```

```

package bank.view;
import java.awt.HeadlessException;
import javax.swing.*.*;
public class DeleteAccount extends AccntDetails
{
    private JPanel pnl7;
    private JButton btnDelete;
    public DeleteAccount(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        pnl7=new JPanel();
        ImageIcon ic=new ImageIcon("image\\d.png");
        btnDelete=new JButton("Delete",ic);
        pnl7.add(btnDelete);
        pnl7.setOpaque(false);
        super.getPnl().add(pnl7);
    }
    public JButton getBtnDelete() {
        return btnDelete;
    }
}

```

```

package bank.view;

import java.awt.*;

import javax.swing.*;
import javax.swing.border.LineBorder;

public class AccTransferMoney extends JFrame
{
    private JLabel lbl1, lbl2, lbl3, lbl4;
    private JPanel pnl, pnl1, pnl2, pnl3, pnl4, pnl5;
    private JTextField tf1, tf2, tf3;
    private JButton btnTrans;
    private JPanel spn, p1, p2, p3, p4;
    private JLabel l1, l2, l3, l4, l5, l6, l7, l8, l11, l12, l13, l19, l110;
    private JButton b1;
    public AccTransferMoney(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        Bckgrndtnsf con=new Bckgrndtnsf();
        Container con2=getContentPane();
        b1=new JLabel(" ");
        spn.add(b1);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here To View Account Details Of Any Account");
        ImageIcon ic2=new ImageIcon("image\\2.jpg");
        l2=new JLabel("Deposit Money", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here To Deposit Money To Any Account");
        ImageIcon ic3=new ImageIcon("image\\3.jpg");
        l3=new JLabel("Withdraw Money", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Withdraw Money From Any Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here To Transfer Money From An Account To Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here To View The Transaction Details");
        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Existing Account", ic9, JLabel.LEFT);
        l9.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l9);
        l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l9.setToolTipText("Click Here To Edit Existing Account Details");
        ImageIcon ic10=new ImageIcon("image\\d1.jpg");
        l10=new JLabel("Delete an Account", ic10, JLabel.LEFT);
    }
}

```

```

l10.setBorder(new LineBorder(new Color(103, 165, 152)));
spn.add(l10);
l10.setCursor(new Cursor(Cursor.HAND_CURSOR));
l10.setToolTipText("Click Here to Delete An Existing Account");
spn.setSize(400,50);
spn.setVisible(true);
p1=new JPanel();
ImageIcon ic5=new ImageIcon("image\\6.jpg");
l5=new JLabel("See All Accounts", ic5, JLabel.LEFT);
l5.setToolTipText("Click Here To See All The Accounts");
l5.setCursor(new Cursor(Cursor.HAND_CURSOR));
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here To LogOut");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l5);
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\ca.png");
b1=new JButton("Create Account", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Create A New Account");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
b11=new JLabel("");
b12=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(b11);
p4.add(b12);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3, BorderLayout.WEST);
p1.add(p2, BorderLayout.EAST);
con.add(p1, BorderLayout.NORTH);
con.add(spn, BorderLayout.WEST);

pnl=new JPanel();
pnl.setLayout(new BoxLayout(pnl, BoxLayout.Y_AXIS));
pnl1=new JPanel();
l11=new JLabel("-----:Balance Transfer:-----");
l11.setFont(new Font("Century Gothic", Font.PLAIN, 36));
pnl1.add(l11);
pnl2=new JPanel();
l12=new JLabel("Enter Sender's Bank Account No:-");
l12.setFont(new Font("Century Gothic", Font.PLAIN, 16));
tf1=new JTextField(20);
tf1.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pnl2.add(l12);
pnl2.add(tf1);
pnl3=new JPanel();
l13=new JLabel("Enter Receiver's Bank Account No:-");
l13.setFont(new Font("Century Gothic", Font.PLAIN, 16));
tf2=new JTextField(20);
tf2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pnl3.add(l13);

```

```

        pnl3.add(tf2);
        pnl4=new JPanel();
        ImageIcon ic=new ImageIcon("image\\mntrnsf.png");
        btnTrans=new JButton("Transfer",ic);
        btnTrans.setFont(new Font("Century Gothic", Font.PLAIN, 16));
        pnl4.add(btnTrans);
        pnl5=new JPanel();
        lbl4=new JLabel("Enter Amount:-");
        lbl4.setFont(new Font("Century Gothic", Font.PLAIN, 16));
        tf3=new JTextField(20);
        tf3.setFont(new Font("Century Gothic", Font.PLAIN, 16));
        pnl5.add(lbl4);
        pnl5.add(tf3);
        pnl.add(pnl1);
        pnl.add(pnl2);
        pnl.add(pnl3);
        pnl.add(pnl5);
        pnl.add(pnl4);
        pnl.setOpaque(false);
        pnl1.setOpaque(false);
        pnl2.setOpaque(false);
        pnl3.setOpaque(false);
        pnl4.setOpaque(false);
        pnl5.setOpaque(false);
        con.add(pnl, BorderLayout.CENTER);
        con2.add(con);
        setVisible(true);
        setSize(1000, 550);
        setResizable(false);
    }
    public JLabel getL1() {
        return l1;
    }
    public JLabel getL2() {
        return l2;
    }
    public JLabel getL3() {
        return l3;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL5() {
        return l5;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JLabel getL10() {
        return l10;
    }
    public JButton getB1() {
        return b1;
    }
    public JTextField getTf1() {
        return tf1;
    }
    public JTextField getTf2() {
        return tf2;
    }

```



```

    }
    public JButton getBtnTrans() {
        return btnTrans;
    }
    public JTextField getTf3() {
        return tf3;
    }
}
class Bckgrndtnsf extends JPanel
{

    public Bckgrndtnsf() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\acctnf.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```

```

package bank.view;

import java.awt.*;

import javax.swing.*;
import javax.swing.border.LineBorder;

public class CreatAcnt extends JFrame
{
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    private JPanel pnl,pn1,pn2;
    private JButton btnSaving,btnCurrent;
    public CreatAcnt(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        Bckgrndcr con=new Bckgrndcr();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here To View Account Details Of Any Account");
        ImageIcon ic2=new ImageIcon("image\\2.jpg");
        l2=new JLabel("Deposit Money", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here To Deposit Money To Any Account");
        ImageIcon ic3=new ImageIcon("image\\3.jpg");
        l3=new JLabel("Withdraw Money", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Withdraw Money From Any Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here To Transfer Money From An Account To Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here To View The Transaction Details");
        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Existing Account", ic9, JLabel.LEFT);
        l9.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l9);
        l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l9.setToolTipText("Click Here To Edit Existing Account Details");
        ImageIcon ic10=new ImageIcon("image\\d1.jpg");
        l10=new JLabel("Delete an Account", ic10, JLabel.LEFT);
        l10.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l10);
        l10.setCursor(new Cursor(Cursor.HAND_CURSOR));
    }
}

```

```

l10.setToolTipText("Click Here to Delete An Existing Account");
spn.setSize(400,50);
spn.setVisible(true);
p1=new JPanel();
ImageIcon ic5=new ImageIcon("image\\6.jpg");
l5=new JLabel("See All Accounts", ic5, JLabel.LEFT);
l5.setToolTipText("Click Here To See All The Accounts");
l5.setCursor(new Cursor(Cursor.HAND_CURSOR));
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here To LogOut");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l5);
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\ca.png");
b1=new JButton("Create Account", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Create A New Account");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
b11=new JLabel("");
b12=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(b11);
p4.add(b12);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3,BorderLayout.WEST);
p1.add(p2,BorderLayout.EAST);
con.add(p1,BorderLayout.NORTH);
con.add(spn,BorderLayout.WEST);

pnl=new JPanel();
pnl.setLayout(new BoxLayout(pnl, BoxLayout.X_AXIS));
pnl1=new JPanel();
ImageIcon pc1=new ImageIcon("image\\sa.png");
btnSaving=new JButton("\nSavings Account",pc1);
btnSaving.setToolTipText("Click Here to Create an Savings Bank Account");
btnSaving.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pnl1.add(btnSaving);
pnl.add(pnl1);
pnl2=new JPanel();
ImageIcon pc2=new ImageIcon("image\\caa.png");
btnCurrent=new JButton("\nCurrent Account",pc2);
btnCurrent.setToolTipText("Click Here to Create an Current Bank Account");
btnCurrent.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pnl2.add(btnCurrent);
pnl.add(pnl2);
pnl.setOpaque(false);
pnl1.setOpaque(false);
pnl2.setOpaque(false);
con.add(pnl,BorderLayout.CENTER);
con2.add(con);

```

```

        setVisible(true);
        setSize(1000, 550);
        setResizable(false);
    }
    public JLabel getL1() {
        return l1;
    }
    public JLabel getL2() {
        return l2;
    }
    public JLabel getL3() {
        return l3;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL5() {
        return l5;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JLabel getL10() {
        return l10;
    }
    public JButton getB1() {
        return b1;
    }
    public JButton getBtnSaving() {
        return btnSaving;
    }
    public JButton getBtnCurrent() {
        return btnCurrent;
    }
}
class Bckgrndcr extends JPanel
{
    public Bckgrndcr() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\cra.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```

```

package bank.view;

import java.awt.*;
import java.text.SimpleDateFormat;
import java.util.Date;

import javax.swing.*;
import javax.swing.border.LineBorder;

public class CreatAccntM extends JFrame
{
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    private JComboBox<String> jcb;
    private JComboBox<String> uid;
    private String [] acd={"Savings Account","Current Account"};
    private String [] uidar;
    private JTextField tfUid,tfAmt,tfMinA;
    private JLabel lbUid2,lbAmt2,lbMin2,lbHold,lbHold2,lb1Accn,lb1Accn2,lb1Type;
    private JPanel pnl,pn1,pn2,pn3,pn4,pn5,pn6,pn7;
    private JButton btnCreate;
    public CreatAccntM(String arg0,String [] uidr) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        Bckgrndcm con=new Bckgrndcm();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here To View Account Details Of Any Account");
        ImageIcon ic2=new ImageIcon("image\\2.jpg");
        l2=new JLabel("Deposit Money", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here To Deposit Money To Any Account");
        ImageIcon ic3=new ImageIcon("image\\3.jpg");
        l3=new JLabel("Withdraw Money", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Withdraw Money From Any Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here To Transfer Money From An Account To Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here To View The Transaction Details");
        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Existing Account", ic9, JLabel.LEFT);
    }
}

```

```

19.setBorder(new LineBorder(new Color(103, 165, 152)));
spn.add(l9);
19.setCursor(new Cursor(Cursor.HAND_CURSOR));
19.setToolTipText("Click Here To Edit Existing Account Details");
ImageIcon ic10=new ImageIcon("image\\d1.jpg");
l10=new JLabel("Delete an Account", ic10, JLabel.LEFT);
l10.setBorder(new LineBorder(new Color(103, 165, 152)));
spn.add(l10);
l10.setCursor(new Cursor(Cursor.HAND_CURSOR));
l10.setToolTipText("Click Here to Delete An Existing Account");
spn.setSize(400,50);
spn.setVisible(true);
p1=new JPanel();
ImageIcon ic5=new ImageIcon("image\\6.jpg");
l5=new JLabel("See All Accounts", ic5, JLabel.LEFT);
l5.setToolTipText("Click Here To See All The Accounts");
l5.setCursor(new Cursor(Cursor.HAND_CURSOR));
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here To Logout");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l5);
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\ca.png");
b1=new JButton("Create Account", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Create A New Account");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
b11=new JLabel("");
b12=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(b11);
p4.add(b12);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3, BorderLayout.WEST);
p1.add(p2, BorderLayout.EAST);
con.add(p1, BorderLayout.NORTH);
con.add(spn, BorderLayout.WEST);

uidar=uidr;
pnl=new JPanel();
pnl.setLayout(new BoxLayout(pnl, BoxLayout.Y_AXIS));
lblAccn2=new JLabel("Account No:-");
lblAccn2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblAccn=new JLabel("sh");
lblAccn.setForeground(Color.BLUE);
lblAccn.setFont(new Font("Century Gothic", Font.BOLD, 16));
pnl1=new JPanel();
pnl1.add(lblAccn2);
pnl1.add(lblAccn);
pnl2=new JPanel();
lblUid2=new JLabel("Enter the Uid:-");

```



```

lbUid2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
uid=new JComboBox<String>(uidar);
pn12.add(lbUid2);
pn12.add(uid);
lbHold2=new JLabel("The Holder's Name is:-");
lbHold2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lbHold=new JLabel();
lbHold.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pn13=new JPanel();
pn13.add(lbHold2);
pn13.add(lbHold);
lb1Type=new JLabel("Select The Account Type:-");
lb1Type.setFont(new Font("Century Gothic", Font.PLAIN, 16));
jcb=new JComboBox<String>(acd);
jcb.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pn14=new JPanel();
pn14.add(lb1Type);
pn14.add(jcb);
lbAmt2=new JLabel("Enter The Opening Amount Balance:-");
lbAmt2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
tfAmt=new JTextField(10);
pn15=new JPanel();
pn15.add(lbAmt2);
pn15.add(tfAmt);
lbMin2=new JLabel("Shambo");
lbMin2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
tfMinA=new JTextField(10);
pn16=new JPanel();
pn16.add(lbMin2);
pn16.add(tfMinA);
pn17=new JPanel();
ImageIcon pic=new ImageIcon("image\\caa.png");
btnCreate=new JButton("Create",pic);
btnCreate.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pn17.add(btnCreate);
pn1.add(pn11);
pn1.add(pn12);
pn1.add(pn13);
pn1.add(pn14);
pn1.add(pn15);
pn1.add(pn16);
pn1.add(pn17);
pn1.setOpaque(false);
pn11.setOpaque(false);
pn12.setOpaque(false);
pn13.setOpaque(false);
pn14.setOpaque(false);
pn15.setOpaque(false);
pn16.setOpaque(false);
pn17.setOpaque(false);
con.add(pn1, BorderLayout.CENTER);
con2.add(con);
setVisible(true);
setSize(1000, 550);
setResizable(false);
}

public JLabel getL1() {
    return l1;
}
public JLabel getL2() {
    return l2;
}
public JLabel getL3() {
    return l3;
}

```

```

    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL5() {
        return l5;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JLabel getL10() {
        return l10;
    }
    public JButton getB1() {
        return b1;
    }
    public JComboBox<String> getJcb() {
        return jcb;
    }
    public JComboBox<String> getUId() {
        return uid;
    }
    public String[] getAcd() {
        return acd;
    }
    public String[] getUIdar() {
        return uidar;
    }
    public JTextField getTfUId() {
        return tfUId;
    }
    public JTextField getTfAmnt() {
        return tfAmnt;
    }
    public JTextField getTfMinA() {
        return tfMinA;
    }
    public JLabel getLbHold() {
        return lbHold;
    }
    public JLabel getLblAccn() {
        return lblAccn;
    }
    public JButton getBtnCreate() {
        return btnCreate;
    }
    public JLabel getLbMin2() {
        return lbMin2;
    }
}
class Bckgrndcm extends JPanel
{
    public Bckgrndcm() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)

```

```
{  
    Image a=Toolkit.getDefaultToolkit().getImage("image\\crm.jpg");  
    g.drawImage(a, 0, 0, getSize().width,getSize().height,this);  
    super.paint(g);  
}  
}
```

```
package bank.view;

import javax.swing.JOptionPane;

public class ErrMsg {
    private String ab;
    public ErrMsg(String ab) {
        JOptionPane.showMessageDialog(null, ab, "Error Message",
JOptionPane.ERROR_MESSAGE);
    }
}
```

```
package bank.view;

import javax.swing.JOptionPane;

public class WarMsg {
    private String a;

    public WarMsg(String a) {
        JOptionPane.showMessageDialog(null, a, "Warning Message",
JOptionPane.WARNING_MESSAGE);
    }
}
```

```

package bank.view;

import java.awt.*;

import javax.swing.*;
import javax.swing.border.LineBorder;

public class UstrTransctnDetls extends JFrame{
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    private String [] data;
    private JComboBox<String> jcmacc;
    private JPanel pnl,pn1,pn2;
    private JLabel lbl1;
    private JButton btnTransctn;
    public UstrTransctnDetls(String arg0, String[] data)throws HeadlessException {
        super(arg0);
        this.data = data;
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        UBckgrndtrns con=new UBckgrndtrns();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here to View Account Details of any Account");
        ImageIcon ic2=new ImageIcon("image\\6.jpg");
        l2=new JLabel("See All Account", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here to See All Your Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here to Transfer Money from an Account to Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here to view the Transaction Details");
        ImageIcon ic3=new ImageIcon("image\\cp.png");
        l3=new JLabel("Change Password", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Change Password");
        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Your Details", ic9, JLabel.LEFT);
        l9.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l9);
        l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l9.setToolTipText("Click Here to Edit Your Personal Details");
        spn.setSize(400,50);
        spn.setVisible(true);
    }
}

```



```

p1=new JPanel();
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here to Logout");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\loan.png");
b1=new JButton("Apply For Loan", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Apply For Loan");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
bl1=new JLabel("");
bl2=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(bl1);
p4.add(bl2);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3,BorderLayout.WEST);
p1.add(p2,BorderLayout.EAST);
con.add(p1,BorderLayout.NORTH);
con.add(spn,BorderLayout.WEST);

jcmacc=new JComboBox<String>(data);
pn1=new JPanel();
pn1.setLayout(new BoxLayout(pn1, BoxLayout.Y_AXIS));
pn11=new JPanel();
lbl1=new JLabel("Select Account No");
lbl1.setFont(new Font("Century Gothic", Font.PLAIN, 26));
jcmacc=new JComboBox<String>(data);
jcmacc.setFont(new Font("Century Gothic", Font.PLAIN, 26));
pn11.add(lbl1);
pn11.add(jcmacc);
pn12=new JPanel();
ImageIcon ui=new ImageIcon("image\\trans.png");
btnTransctn=new JButton("Get Transactions",ui);
pn12.add(btnTransctn);
btnTransctn.setFont(new Font("Century Gothic", Font.PLAIN, 26));
pn1.add(pn11);
pn1.add(pn12);
pn1.setOpaque(false);
pn11.setOpaque(false);
pn12.setOpaque(false);
con.add(pn1,BorderLayout.CENTER);
con2.add(con);
setVisible(true);
setSize(1000, 550);
setResizable(false);
}
public JLabel getL3() {
    return l3;
}

```

```

    public JLabel getL1() {
        return l1;
    }
    public JLabel getL2() {
        return l2;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JButton getB1() {
        return b1;
    }
    public JComboBox<String> getJcmacc() {
        return jcmacc;
    }
    public JButton getBtnTransctn() {
        return btnTransctn;
    }
}
class UBckgrndtrns extends JPanel
{
    public UBckgrndtrns() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\u8.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```

```

package bank.view;

import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.Container;
import java.awt.Cursor;
import java.awt.Dimension;
import java.awt.Font;
import java.awt.Graphics;
import java.awt.GridLayout;
import java.awt.HeadlessException;
import java.awt.Image;
import java.awt.Toolkit;

import javax.swing.*;
import javax.swing.border.LineBorder;

public class UsrAcntData extends JFrame{
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    private String [] data;
    private JComboBox<String> jcmb;
    private JLabel
lblAcNo2,lblHolderNm,lblHolderNm2,lblHolUid,lblHolUid2,lblBal,lblBal2,lblType,lblType2,lblMinBa
l,lblMinBal2;
    private JPanel pnl,pn1,pn2,pn3,pn4,pn5,pn6;
    public UsrAcntData(String arg0, String[] data) throws HeadlessException {
        super(arg0);
        this.data = data;
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        UBckgrndad con=new UBckgrndad();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here to View Account Details of any Account");
        ImageIcon ic2=new ImageIcon("image\\6.jpg");
        l2=new JLabel("See All Account", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here to See All Your Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here to Transfer Money from an Account to Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here to view the Transaction Details");
        ImageIcon ic3=new ImageIcon("image\\cp.png");
        l3=new JLabel("Change Password", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
    }
}

```

```

spn.add(l3);
l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
l3.setToolTipText("Click Here To Change Password");

ImageIcon ic9=new ImageIcon("image\\e1.jpg");
l9=new JLabel("Edit Your Details ", ic9, JLabel.LEFT);
l9.setBorder(new LineBorder(new Color(103, 165, 152)));
spn.add(l9);
l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
l9.setToolTipText("Click Here to Edit Your Personal Details");
spn.setSize(400,50);
spn.setVisible(true);
p1=new JPanel();
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here to Logout");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\loan.png");
b1=new JButton("Apply For Loan", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Apply For Loan");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
b11=new JLabel("");
b12=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(b11);
p4.add(b12);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3, BorderLayout.WEST);
p1.add(p2, BorderLayout.EAST);
con.add(p1, BorderLayout.NORTH);
con.add(spn, BorderLayout.WEST);

pnl=new JPanel();
pnl.setLayout(new BoxLayout(pnl, BoxLayout.Y_AXIS));
jcmb=new JComboBox<String>(data);
jcmb.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblAcNo2=new JLabel("Select The Account No:-");
lblAcNo2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pnl1=new JPanel();
pnl1.add(lblAcNo2);
pnl1.add(jcmb);
pnl2=new JPanel();
lblHolUId2=new JLabel("The Account Holder's Uid is:-");
lblHolUId2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblHolUId=new JLabel();
lblHolUId.setFont(new Font("Century Gothic", Font.BOLD, 16));
pnl2.add(lblHolUId2);
pnl2.add(lblHolUId);
pnl3=new JPanel();

```

```

lblHolderNm2=new JLabel("The Account Holder's Name is:-");
lblHolderNm2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblHolderNm=new JLabel();
lblHolderNm.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn13.add(lblHolderNm2);
pn13.add(lblHolderNm);
pn14=new JPanel();
lblType2=new JLabel("The Account Type is:-");
lblType2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblType=new JLabel();
lblType.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn14.add(lblType2);
pn14.add(lblType);
pn15=new JPanel();
lblBal2=new JLabel("The Account's Available Balance is:-");
lblBal2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblBal=new JLabel();
lblBal.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn15.add(lblBal2);
pn15.add(lblBal);
pn16=new JPanel();
lblMinBal2=new JLabel("The Account's Minimum Balance is:-");
lblMinBal2.setFont(new Font("Century Gothic", Font.PLAIN, 16));
lblMinBal=new JLabel();
lblMinBal.setFont(new Font("Century Gothic", Font.BOLD, 16));
pn16.add(lblMinBal2);
pn16.add(lblMinBal);
pn1.add(pn11);
pn1.add(pn12);
pn1.add(pn13);
pn1.add(pn14);
pn1.add(pn15);
pn1.add(pn16);
lblAcNo2.setForeground(Color.RED);
lblHolderNm.setForeground(Color.RED);
lblHolderNm2.setForeground(Color.RED);
lblHolUId.setForeground(Color.RED);
lblHolUId2.setForeground(Color.RED);
lblBal.setForeground(Color.RED);
lblBal2.setForeground(Color.RED);
lblType.setForeground(Color.RED);
lblType2.setForeground(Color.RED);
lblMinBal.setForeground(Color.RED);
lblMinBal2.setForeground(Color.RED);
pn1.setOpaque(false);
pn11.setOpaque(false);
pn12.setOpaque(false);
pn13.setOpaque(false);
pn14.setOpaque(false);
pn15.setOpaque(false);
pn16.setOpaque(false);
con.add(pn1, BorderLayout.CENTER);
con2.add(con);
setVisible(true);
setSize(1000, 550);
setResizable(false);
}
public JLabel getL3() {
    return l3;
}
public JLabel getL1() {
    return l1;
}
public JLabel getL2() {

```

```

        return l2;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JButton getB1() {
        return b1;
    }
    public JComboBox<String> getJcmb() {
        return jcmb;
    }
    public JLabel getLblHolderNm() {
        return lblHolderNm;
    }
    public JLabel getLblHolUId() {
        return lblHolUId;
    }
    public JLabel getLblBal() {
        return lblBal;
    }
    public JLabel getLblType() {
        return lblType;
    }
    public JLabel getLblMinBal() {
        return lblMinBal;
    }
}
class UBckgrndad extends JPanel
{
    public UBckgrndad() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\u6.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```



```

package bank.view;

import java.awt.*;

import javax.swing.*;
import javax.swing.border.LineBorder;

public class UserTransferMn extends JFrame
{
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    private JComboBox<String> jcb;
    private JLabel lb11,lb12,lb13,lb4;
    private JTextField tf1,tf3;
    private String [] a;
    private JButton btnTransf;
    private JPanel pnl,pnl1,pnl2,pnl3,pnl4,pnl5;
    public UserTransferMn(String arg0,String [] a) throws HeadlessException {
        super(arg0);
        this.a=a;
        // TODO Auto-generated constructor stub
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        UBckgrndtm con=new UBckgrndtm();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here to View Account Details of any Account");
        ImageIcon ic2=new ImageIcon("image\\6.jpg");
        l2=new JLabel("See All Account", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here to See All Your Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here to Transfer Money from an Account to Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here to view the Transaction Details");
        ImageIcon ic3=new ImageIcon("image\\cp.png");
        l3=new JLabel("Change Password", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Change Password");

        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Your Details", ic9, JLabel.LEFT);
        l9.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l9);
    }
}

```

```

19.setCursor(new Cursor(Cursor.HAND_CURSOR));
19.setToolTipText("Click Here to Edit Your Personal Details");
spn.setSize(400,50);
spn.setVisible(true);
p1=new JPanel();
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here to Logout");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\loan.png");
b1=new JButton("Apply For Loan", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Apply For Loan");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
bl1=new JLabel("");
bl2=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(bl1);
p4.add(bl2);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3,BorderLayout.WEST);
p1.add(p2,BorderLayout.EAST);
con.add(p1,BorderLayout.NORTH);
con.add(spn,BorderLayout.WEST);

pnl=new JPanel();
pnl.setLayout(new BoxLayout(pnl, BoxLayout.Y_AXIS));
pnl4=new JPanel();
lb13=new JLabel("Transferring Amount from one Account to Another");
lb13.setFont(new Font("Century Gothic", Font.PLAIN, 24));
pnl1=new JPanel();
lb11=new JLabel("Select The Sender's Account No.");
lb11.setFont(new Font("Century Gothic", Font.PLAIN, 16));
jcb=new JComboBox<String>(a);
jcb.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pnl1.add(lb11);
pnl1.add(jcb);
pnl2=new JPanel();
lb12=new JLabel("Select The Reciever's Account No.");
lb12.setFont(new Font("Century Gothic", Font.PLAIN, 16));
tf1=new JTextField(20);
tf1.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pnl2.add(lb12);
pnl2.add(tf1);
pnl3=new JPanel();
ImageIcon ic=new ImageIcon("image\\mntnrsf.png");
btnTransf=new JButton("Transfer",ic);
btnTransf.setFont(new Font("Century Gothic", Font.PLAIN, 16));
pnl3.add(btnTransf);
pnl5=new JPanel();
lb4=new JLabel("Enter The Amount:-");

```

```

        lb4.setFont(new Font("Century Gothic", Font.PLAIN, 16));
        tf3=new JTextField(10);
        tf3.setFont(new Font("Century Gothic", Font.PLAIN, 16));
        pnl5.add(lb4);
        pnl5.add(tf3);
        pnl.add(pnl1);
        pnl.add(pnl2);
        pnl.add(pnl5);
        pnl.add(pnl3);
        pnl.add(pnl4);
        pnl.setOpaque(false);
        pnl1.setOpaque(false);
        pnl2.setOpaque(false);
        pnl3.setOpaque(false);
        pnl4.setOpaque(false);
        pnl5.setOpaque(false);
        con.add(pnl, BorderLayout.CENTER);
        con2.add(con);
        setVisible(true);
        setSize(1000, 550);
        setResizable(false);

    }
    public JLabel getL3() {
        return l3;
    }
    public JLabel getL1() {
        return l1;
    }
    public JLabel getL2() {
        return l2;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JButton getB1() {
        return b1;
    }
    public JComboBox<String> getJcb() {
        return jcb;
    }
    public JTextField getTf1() {
        return tf1;
    }
    public JButton getBtnTransf() {
        return btnTransf;
    }
    public JTextField getTf3() {
        return tf3;
    }
}

class UBckgrndtm extends JPanel
{
    public UBckgrndtm() {
        setOpaque(false);
    }

```

```
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\u7.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}
```

```

package bank.view;

import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.Container;
import java.awt.Cursor;
import java.awt.Dimension;
import java.awt.Font;
import java.awt.Graphics;
import java.awt.GridLayout;
import java.awt.HeadlessException;
import java.awt.Image;
import java.awt.Toolkit;

import javax.swing.*;
import javax.swing.border.LineBorder;

public class UserTabl extends JFrame{
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    private JTable tble;
    private JLabel lbl;
    private JScrollPane spn1;
    private JPanel pnl,pnl1;
    public UserTabl(String arg0, JTable jtbl) throws HeadlessException {
        super(arg0);
        this.tble = jtbl;
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        UBckgrndtb con=new UBckgrndtb();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here to View Account Details of any Account");
        ImageIcon ic2=new ImageIcon("image\\6.jpg");
        l2=new JLabel("See All Account", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here to See All Your Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here to Transfer Money from an Account to Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here to view the Transaction Details");
        ImageIcon ic3=new ImageIcon("image\\cp.png");
        l3=new JLabel("Change Password", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
    }
}

```

```

13.setToolTipText("Click Here To Change Password");
ImageIcon ic9=new ImageIcon("image\\e1.jpg");
l9=new JLabel("Edit Your Details", ic9, JLabel.LEFT);
l9.setBorder(new LineBorder(new Color(103, 165, 152)));
spn.add(l9);
l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
l9.setToolTipText("Click Here to Edit Your Personal Details");
spn.setSize(400,50);
spn.setVisible(true);
p1=new JPanel();
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out.", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here to LogOut");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\loan.png");
b1=new JButton("Apply For Loan", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Apply For Loan");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
b11=new JLabel("");
b12=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(b11);
p4.add(b12);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3,BorderLayout.WEST);
p1.add(p2,BorderLayout.EAST);
con.add(p1,BorderLayout.NORTH);
con.add(spn,BorderLayout.WEST);

lbl=new JLabel();
lbl.setFont(new Font("Century Gothic", Font.PLAIN, 24));
tbl.setFont(new Font("Century Gothic", Font.PLAIN, 16));
tbl.setBorder(new LineBorder(new Color(60, 155, 136)));
spn1=new JScrollPane(tbl);
pnl=new JPanel();
pnl.setLayout(new BoxLayout(pnl, BoxLayout.Y_AXIS));
pnl1=new JPanel();
pnl1.add(lbl);
pnl1.add(pnl1);
pnl1.add(spn1);
pnl1.setOpaque(false);
pnl1.setOpaque(false);
con.add(pnl,BorderLayout.CENTER);
con2.add(con);
setVisible(true);
setSize(1000, 550);
setResizable(false);
}
public JLabel getL3() {

```



```

        return l3;
    }
    public JLabel getL1() {
        return l1;
    }
    public JLabel getL2() {
        return l2;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JButton getB1() {
        return b1;
    }
    public JLabel getLb1() {
        return lbl;
    }
}
class UBckgrndtb extends JPanel
{
    public UBckgrndtb() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\ftrtb.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```

```

package bank.view;

import java.awt.*;

import javax.swing.*;
import javax.swing.border.LineBorder;

public class UserReg extends JFrame{
    private JPanel
    pnl,pnl1,pnl2,pnl3,pnl4,pnl5,pnl6,pnl7,pnl8,pnl9,pnl10,pnl11,pnl12,pnl13,pnl14,pnl15;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,lblpas,lblrepas,lbluid,lbluid2,lblul;
    private JTextField tf1,tf2,tf3,tf4;
    private JTextArea ta1;
    private String [] dd=new String[31];
    private String [] mm=new String[12];
    private String [] yyyy=new String[115];
    private JComboBox<String> jdt;
    private JComboBox<String> jmn;
    private JComboBox<String> jyr;
    private JPasswordField pswrd,cnfpswrd;
    private JRadioButton male,female;
    private ButtonGroup bgrp;
    private JButton btnPrs,btnRefs,btnBack,btnRegister,btnBack2;
    public UserReg(String arg0) throws HeadlessException {
        super(arg0);
        UrBckgrnd con=new UrBckgrnd();
        // TODO Auto-generated constructor stub
        for(int i=0;i<31;i++)
        {
            dd[i]=Integer.toString(i+1);
        }
        for(int i=0;i<12;i++)
        {
            mm[i]=Integer.toString(i+1);
        }
        for(int i=0;i<115;i++)
        {
            yyyy[i]=Integer.toString(i+1900);
        }
        pnl=new JPanel();
        pnl.setLayout(new BorderLayout(pnl, BorderLayout.Y_AXIS));
        pnl1=new JPanel(new FlowLayout(FlowLayout.LEFT));
        l1=new JLabel("Enter Your Name:- ");
        l1.setFont(new Font("Century Gothic", Font.BOLD, 13));
        tf1=new JTextField(30);
        tf1.setFont(new Font("Century Gothic", Font.BOLD, 13));
        tf1.setBorder(new LineBorder(Color.black));
        pnl1.add(l1);
        pnl1.add(tf1);
        pnl2=new JPanel(new FlowLayout(FlowLayout.LEFT));
        l2=new JLabel("Enter Your Address:- ");
        l2.setFont(new Font("Century Gothic", Font.BOLD, 13));
        ta1=new JTextArea(2,30);
        ta1.setFont(new Font("Century Gothic", Font.BOLD, 13));
        ta1.setBorder(new LineBorder(Color.black));
        ta1.setPreferredSize(new Dimension(100, 35));
        pnl2.add(l2);
        pnl2.add(ta1);
        pnl3=new JPanel(new FlowLayout(FlowLayout.LEFT));
        l3=new JLabel("Enter Your Pin No.:- ");
        l3.setFont(new Font("Century Gothic", Font.BOLD, 13));
        tf2=new JTextField(30);
        tf2.setFont(new Font("Century Gothic", Font.BOLD, 13));
        tf2.setBorder(new LineBorder(Color.black));
        pnl3.add(l3);

```

```

pn13.add(tf2);
pn14=new JPanel(new FlowLayout(FlowLayout.LEFT));
l4=new JLabel("Enter Your Email ID:- ");
l4.setFont(new Font("Century Gothic", Font.BOLD, 13));
tf3=new JTextField(30);
tf3.setFont(new Font("Century Gothic", Font.BOLD, 13));
tf3.setBorder(new LineBorder(Color.black));
pn14.add(l4);
pn14.add(tf3);
pn15=new JPanel(new FlowLayout(FlowLayout.LEFT));
l5=new JLabel("Enter Your Ph No.:- ");
l5.setFont(new Font("Century Gothic", Font.BOLD, 13));
tf4=new JTextField(30);
tf4.setFont(new Font("Century Gothic", Font.BOLD, 13));
tf4.setBorder(new LineBorder(Color.black));
pn15.add(l5);
pn15.add(tf4);
pn16=new JPanel(new FlowLayout(FlowLayout.LEFT));
l6=new JLabel("Select Your Gender:- ",JLabel.LEFT);
l6.setFont(new Font("Century Gothic", Font.BOLD, 13));
male=new JRadioButton("Male ");
male.setActionCommand("Male");
male.setFont(new Font("Century Gothic", Font.PLAIN, 20));
female=new JRadioButton("Female");
female.setActionCommand("Female");
female.setFont(new Font("Century Gothic", Font.PLAIN, 20));
pn16.add(l6);
bgrp=new ButtonGroup();
bgrp.add(male);
bgrp.add(female);
pn16.add(male);
pn16.add(female);
pn17=new JPanel(new FlowLayout(FlowLayout.LEFT));
l7=new JLabel("Select Your Date Of Birth(dd-mm-yyyy):- ");
l7.setFont(new Font("Century Gothic", Font.BOLD, 13));
jdt=new JComboBox<String>(dd);
jdt.setFont(new Font("Century Gothic", Font.BOLD, 13));
jmn=new JComboBox<String>(mm);
jmn.setFont(new Font("Century Gothic", Font.BOLD, 13));
jyr=new JComboBox<String>(yyyy);
jyr.setFont(new Font("Century Gothic", Font.BOLD, 13));
pn17.add(l7);
pn17.add(jdt);
pn17.add(jmn);
pn17.add(jyr);
pn18=new JPanel();
ImageIcon ic1=new ImageIcon("image\\dn.png");
ImageIcon ic2=new ImageIcon("image\\left.png");
ImageIcon ic3=new ImageIcon("image\\re.png");
btnBack=new JButton("Back ",ic2);
btnPrs=new JButton("Procced",ic1);
btnPrs.setFont(new Font("Century Gothic", Font.BOLD, 13));
btnBack.setFont(new Font("Century Gothic", Font.BOLD, 13));
btnRefrs=new JButton("Refressed",ic3);
btnRefrs.setFont(new Font("Century Gothic", Font.BOLD, 13));
pn18.add(btnBack);
pn18.add(btnPrs);
pn18.add(btnRefrs);
pn19=new JPanel(new FlowLayout(FlowLayout.LEFT));
ImageIcon ic=new ImageIcon("image\\logo.jpg");
l8=new JLabel(ic);
pn19.add(l8);
pn110=new JPanel(new FlowLayout(FlowLayout.CENTER));
l9=new JLabel("-----Customer Registration Area-----");
l9.setFont(new Font("Century Gothic", Font.BOLD, 21));

```

```

pn110.add(l9);
pn111=new JPanel();
lblul=new JLabel("____");
lblul.setFont(new Font("Century Gothic", Font.BOLD, 21));
pn111.add(lblul);
pn112=new JPanel(new FlowLayout(FlowLayout.LEFT));
lbluid2=new JLabel("Your User ID:-");
lbluid2.setFont(new Font("Century Gothic", Font.BOLD, 13));
lbluid=new JLabel();
lbluid.setFont(new Font("Century Gothic", Font.BOLD, 13));
pn112.add(lbluid2);
pn112.add(lbluid);
pn113=new JPanel(new FlowLayout(FlowLayout.LEFT));
lblpas=new JLabel("Enter The Password:-");
lblpas.setFont(new Font("Century Gothic", Font.BOLD, 13));
pswrd=new JPasswordField(20);
pswrd.setFont(new Font("Century Gothic", Font.BOLD, 13));
pswrd.setToolTipText("The Password Should Contains One Small And One Capital
Letter And One Digit And A Special Charecter");
pswrd.setEditable(false);
pn113.add(lblpas);
pn113.add(pswrd);
pn114=new JPanel(new FlowLayout(FlowLayout.LEFT));
lblrepas=new JLabel("ReEnter The Password:-");
lblrepas.setFont(new Font("Century Gothic", Font.BOLD, 13));
cnfpswrd=new JPasswordField(20);
cnfpswrd.setToolTipText("The Password Should Contains One Small And One Capital
Letter And One Digit And A Special Charecter");
cnfpswrd.setFont(new Font("Century Gothic", Font.BOLD, 13));
cnfpswrd.setEditable(false);
pn114.add(lblrepas);
pn114.add(cnfpswrd);
pn115=new JPanel();
ImageIcon pic=new ImageIcon("image\\regtr.png");
btnRegister=new JButton("Register",pic);
btnBack2=new JButton("Back",ic2);
btnBack2.setFont(new Font("Century Gothic", Font.BOLD, 13));
btnRegister.setFont(new Font("Century Gothic", Font.BOLD, 13));
btnRegister.setEnabled(false);
btnBack2.setEnabled(false);
pn115.add(btnBack2);
pn115.add(btnRegister);
11.setForeground(new Color(14,72,91));
12.setForeground(new Color(14,72,91));
13.setForeground(new Color(14,72,91));
14.setForeground(new Color(14,72,91));
15.setForeground(new Color(14,72,91));
16.setForeground(new Color(14,72,91));
17.setForeground(new Color(14,72,91));
18.setForeground(new Color(14,72,91));
19.setForeground(new Color(14,72,91));
lblpas.setForeground(new Color(14,72,91));
lblrepas.setForeground(new Color(14,72,91));
lbluid.setForeground(new Color(14,72,91));
lbluid2.setForeground(new Color(14,72,91));
lblul.setForeground(new Color(14,72,91));
pn1.add(pn19);
pn1.add(pn110);
pn1.add(pn111);
pn1.add(pn112);
pn1.add(pn113);
pn1.add(pn114);
pn1.add(pn16);
pn1.add(pn17);
pn1.add(pn15);

```

```

        pnl.add(pnl8);
        pnl.add(pnl11);
        pnl.add(pnl12);
        pnl.add(pnl13);
        pnl.add(pnl14);
        pnl.add(pnl15);
        pnl.setOpaque(false);
        pnl1.setOpaque(false);
        pnl2.setOpaque(false);
        pnl3.setOpaque(false);
        pnl4.setOpaque(false);
        pnl5.setOpaque(false);
        pnl6.setOpaque(false);
        pnl7.setOpaque(false);
        pnl8.setOpaque(false);
        pnl9.setOpaque(false);
        pnl10.setOpaque(false);
        pnl11.setOpaque(false);
        pnl12.setOpaque(false);
        pnl13.setOpaque(false);
        pnl14.setOpaque(false);
        pnl15.setOpaque(false);
        male.setOpaque(false);
        female.setOpaque(false);
        Container con2=getContentPane();
        con.add(pnl, BorderLayout.WEST);
        con2.add(con);
        setSize(540, 620);
        setResizable(false);
        setVisible(true);
    }
    public JButton getBtnBack2() {
        return btnBack2;
    }
    public JTextField getTf1() {
        return tf1;
    }
    public JTextField getTf2() {
        return tf2;
    }
    public JTextField getTf3() {
        return tf3;
    }
    public JTextField getTf4() {
        return tf4;
    }
    public JTextArea getTa1() {
        return ta1;
    }
    public JPasswordField getPswrd() {
        return pswrd;
    }
    public JPasswordField getCnfpwrd() {
        return cnfpwrd;
    }
    public JRadioButton getMale() {
        return male;
    }
    public JRadioButton getFemale() {
        return female;
    }
    public ButtonGroup getBgrp() {
        return bgrp;
    }
    public JButton getBtnPrs() {

```

```

        return btnPrs;
    }
    public JButton getBtnRefs() {
        return btnRefs;
    }
    public JButton getBtnBack() {
        return btnBack;
    }
    public JLabel getLbluid() {
        return lbluid;
    }
    public JButton getBtnRegister() {
        return btnRegister;
    }
    public JComboBox<String> getJdt() {
        return jdt;
    }
    public JComboBox<String> getJmn() {
        return jmn;
    }
    public JComboBox<String> getJyr() {
        return jyr;
    }
}
class UrBckgrnd extends JPanel
{
    public UrBckgrnd() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\reg.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```



```

package bank.view;

import javafx.scene.control.PasswordField;

import javax.swing.*;
import javax.swing.border.BevelBorder;

import java.awt.*;
public class UserLogin extends JFrame
{
    private JButton btnLogin,btnCreate;
    private JPanel pnl,pnl1,pnl2,pnl3,pnl4,pnl5,pnl6,pnl7,pnl8,pnl9,pnl10,pnlbg;
    private JLabel lbl1,lbl2,lbl3,lbl4,lbl5;
    private JTextField tf1;
    private JPasswordField ps;
    public UserLogin(String arg0) throws HeadlessException {
        super(arg0);
        UlogBckgrnd con=new UlogBckgrnd();
        // TODO Auto-generated constructor stub
        Container con2=getContentPane();
        pnl=new JPanel();
        pnl.setBorder(new BevelBorder(BevelBorder.RAISED));
        pnl.setLayout(new BoxLayout(pnl, BoxLayout.Y_AXIS));
        pnl1=new JPanel();
        lbl1=new JLabel("Enter the User ID and Password to Login");
        lbl1.setFont(new Font("Century Gothic", Font.BOLD, 15));
        pnl1.add(lbl1);
        pnl2=new JPanel();
        lbl2=new JLabel("Uid:- ");
        lbl2.setFont(new Font("Century Gothic", Font.BOLD, 12));
        tf1=new JTextField(15);
        tf1.setFont(new Font("Century Gothic", Font.PLAIN, 12));
        pnl2.add(lbl2);
        pnl2.add(tf1);
        pnl3=new JPanel();
        lbl3=new JLabel("Password:- ");
        lbl3.setFont(new Font("Century Gothic", Font.BOLD, 12));
        ps=new JPasswordField(15);
        ps.setFont(new Font("Century Gothic", Font.PLAIN, 12));
        pnl3.add(lbl3);
        pnl3.add(ps);
        pnl4=new JPanel();
        pnl4.setAlignmentY(200);
        ImageIcon ic1=new ImageIcon("image\\cuslogin.png");
        btnLogin=new JButton("Log In",ic1);
        btnLogin.setFont(new Font("Century Gothic", Font.BOLD, 12));
        pnl4.add(btnLogin);
        pnl5=new JPanel();
        pnl5.setLayout(new BorderLayout());
        pnl6=new JPanel();
        ImageIcon icm=new ImageIcon("image\\logo.jpg");
        lbl4=new JLabel(icm);
        pnl6.add(lbl4);
        pnl5.add(pnl6,BorderLayout.WEST);
        pnl.add(pnl1);
        pnl.add(pnl2);
        pnl.add(pnl3);
        pnl.add(pnl4);
        pnl7=new JPanel();
        pnl7.setLayout(new BoxLayout(pnl7, BoxLayout.Y_AXIS));
        lbl5=new JLabel("Still Not Have Any Account ??");
        lbl5.setFont(new Font("Century Gothic", Font.BOLD, 18));
        pnl8=new JPanel();
        pnl8.add(lbl5);
        pnl9=new JPanel();
    }
}

```

```

        pnl9.setLayout(new BorderLayout());
        ImageIcon nc=new ImageIcon("image\\newreg.png");
        btnCreate=new JButton("Create",nc);
        pnl10=new JPanel();
        pnl10.add(btnCreate);
        pnl9.add(pnl10,BorderLayout.CENTER);
        pnl7.add(pnl8);
        pnl7.add(pnl9);
        pnlbg=new JPanel();
        pnlbg.setLayout(new BorderLayout());
        pnlbg.add(pnl,BorderLayout.WEST);
        pnlbg.add(pnl5,BorderLayout.NORTH);
        pnlbg.add(pnl7,BorderLayout.CENTER);
        lbl1.setForeground(new Color(153, 125, 14));
        lbl2.setForeground(new Color(153, 125, 14));
        lbl3.setForeground(new Color(153, 125, 14));
        lbl5.setForeground(new Color(153, 125, 14));
        pnl.setOpaque(false);
        pnl1.setOpaque(false);
        pnl2.setOpaque(false);
        pnl3.setOpaque(false);
        pnl4.setOpaque(false);
        pnl5.setOpaque(false);
        pnl6.setOpaque(false);
        pnl7.setOpaque(false);
        pnl8.setOpaque(false);
        pnl9.setOpaque(false);
        pnl10.setOpaque(false);
        pnlbg.setOpaque(false);

        con.add(pnlbg);
        con2.add(con);
        setVisible(true);
        setBackground(Color.BLACK);
        setSize(600,300);
        setResizable(false);
    }
    public JButton getBtnLogin() {
        return btnLogin;
    }
    public JButton getBtnCreate() {
        return btnCreate;
    }
    public JTextField getTf1() {
        return tf1;
    }
    public JPasswordField getPs() {
        return ps;
    }
}
class UlogBckgrnd extends JPanel
{
    public UlogBckgrnd() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\ulog.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```



```

package bank.view;
import javax.swing.*;
import javax.swing.border.BevelBorder;
import javax.swing.border.LineBorder;

import java.awt.*;
public class UserHome extends JFrame
{
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    public UserHome(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub

        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        UBckgrnd con=new UBckgrnd();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here to View Account Details of any Account");
        ImageIcon ic2=new ImageIcon("image\\6.jpg");
        l2=new JLabel("See All Account", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here to See All Your Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here to Transfer Money from an Account to Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here to view the Transaction Details");
        ImageIcon ic3=new ImageIcon("image\\cp.png");
        l3=new JLabel("Change Password", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Change Password");

        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Your Details", ic9, JLabel.LEFT);
        l9.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l9);
        l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l9.setToolTipText("Click Here to Edit Your Personal Details");
        spn.setSize(400,50);
        spn.setVisible(true);
        p1=new JPanel();
        ImageIcon ic6=new ImageIcon("image\\7.jpg");
        l6=new JLabel("Log Out.", ic6, JLabel.LEFT);

```

```

        l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l6.setToolTipText("Click Here to LogOut");
        p1.setLayout(new BorderLayout());
        p2=new JPanel();
        p2.add(l6);
        p3=new JPanel();
        ImageIcon ic11=new ImageIcon("image\\loan.png");
        b1=new JButton("Apply For Loan", ic11);
        b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        b1.setToolTipText("Click Here To Apply For Loan");
        b1.setPreferredSize(new Dimension(150,20));
        p3.setLayout(new GridLayout(2, 2));
        ImageIcon ic8=new ImageIcon("image\\8.jpg");
        l8=new JLabel(ic8);
        b11=new JLabel("");
        b12=new JLabel("");
        p4=new JPanel(new GridLayout(2, 2));
        p4.add(b11);
        p4.add(b12);
        p4.add(b1);
        p3.add(l8);
        p3.add(p4);
        spn.setOpaque(false);
        p1.setOpaque(false);
        p2.setOpaque(false);
        p3.setOpaque(false);
        p4.setOpaque(false);
        p1.add(p3, BorderLayout.WEST);
        p1.add(p2, BorderLayout.EAST);
        con.add(p1, BorderLayout.NORTH);
        con.add(spn, BorderLayout.WEST);
        con2.add(con);
        setVisible(true);
        setSize(1000, 550);
        setResizable(false);
    }

    public JLabel getL3() {
        return l3;
    }

    public JLabel getL1() {
        return l1;
    }
    public JLabel getL2() {
        return l2;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JButton getB1() {
        return b1;
    }
}
class UBckgrnd extends JPanel
{

```

```
public UBckgrnd() {
    setOpaque(false);
    setLayout(new BorderLayout());
    // TODO Auto-generated constructor stub
}
public void paint(Graphics g)
{
    Image a=Toolkit.getDefaultToolkit().getImage("image\\u1.jpg");
    g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
    super.paint(g);
}
}
```

```

package bank.view;

import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.Container;
import java.awt.Cursor;
import java.awt.Dimension;
import java.awt.Font;
import java.awt.Graphics;
import java.awt.GridLayout;
import java.awt.HeadlessException;
import java.awt.Image;
import java.awt.Toolkit;

import javax.swing.*;
import javax.swing.GroupLayout.Alignment;
import javax.swing.border.LineBorder;

public class UserEditDetails extends JFrame
{
    private JPanel spn,p1,p2,p3,p4;
    private JLabel l1,l2,l3,l4,l5,l6,l7,l8,b11,b12,b13,l9,l10;
    private JButton b1;
    private JLabel
lblUid,lblUid2,lblName,lblPhno,lblEmail,lblAdrs,lblPin,lblDob,lblGender,lblGender2;
    private JTextField tfName,tfPhno,tfEmail,tfAdres,tfPin,tfDob;
    private JPanel pnl,pn1,pn2,pn3,pn4,pn5,pn6,pn7,pn8,pn9,pn10;
    private JButton btnDone;
    public UserEditDetails(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub
        spn=new JPanel();
        spn.setLayout(new BoxLayout(spn,BoxLayout.Y_AXIS));
        UBckgrnded con=new UBckgrnded();
        Container con2=getContentPane();
        b13=new JLabel(" ");
        spn.add(b13);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here to View Account Details of any Account");
        ImageIcon ic2=new ImageIcon("image\\6.jpg");
        l2=new JLabel("See All Account", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here to See All Your Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here to Transfer Money from an Account to Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here to view the Transaction Details");
        ImageIcon ic3=new ImageIcon("image\\cp.png");
        l3=new JLabel("Change Password", ic3, JLabel.LEFT);

```



```

l3.setBorder(new LineBorder(new Color(103, 165, 152)));
spn.add(l3);
l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
l3.setToolTipText("Click Here To Change Password");
ImageIcon ic9=new ImageIcon("image\\e1.jpg");
l9=new JLabel("Edit Your Details", ic9, JLabel.LEFT);
l9.setBorder(new LineBorder(new Color(103, 165, 152)));
spn.add(l9);
l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
l9.setToolTipText("Click Here to Edit Your Personal Details");
spn.setSize(400,50);
spn.setVisible(true);
p1=new JPanel();
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out.", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here to LogOut");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\loan.png");
b1=new JButton("Apply For Loan", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Apply For Loan");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
b11=new JLabel("");
b12=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(b11);
p4.add(b12);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3, BorderLayout.WEST);
p1.add(p2, BorderLayout.EAST);
con.add(p1, BorderLayout.NORTH);
con.add(spn, BorderLayout.WEST);
pnl=new JPanel();
pnl.setLayout(new BoxLayout(pnl, BoxLayout.Y_AXIS));
pnl1=new JPanel();
lblUId2=new JLabel("UId:- ");
lblUId=new JLabel();
pnl1.add(lblUId2);
pnl1.add(lblUId);
pnl2=new JPanel();
lblName=new JLabel("Edit Your Name:-");
tfName=new JTextField(15);
pnl2.add(lblName);
pnl2.add(tfName);
pnl3=new JPanel();
lblAddrs=new JLabel("Edit Your Address:-");
tfAddres=new JTextField(40);
pnl3.add(lblAddrs);
pnl3.add(tfAddres);
pnl4=new JPanel();
lblEmail=new JLabel("Edit Your Email:-");

```

```

tfEmail=new JTextField(25);
pn14.add(lblEmail);
pn14.add(tfEmail);
pn15=new JPanel();
lblDob=new JLabel("Edit your Date of Birth:-");
tfDob=new JTextField(10);
pn15.add(lblDob);
pn15.add(tfDob);
pn16=new JPanel();
lblGender2=new JLabel("Your Gender:-");
lblGender=new JLabel();
pn16.add(lblGender2);
pn16.add(lblGender);
pn17=new JPanel();
lblPhno=new JLabel("Edit Your Ph No:-");
tfPhno=new JTextField(15);
pn17.add(lblPhno);
pn17.add(tfPhno);
pn18=new JPanel();
lblPin=new JLabel("Edit Your Pin Code");
tfPin=new JTextField(10);
pn18.add(lblPin);
pn18.add(tfPin);
pn19=new JPanel();
ImageIcon ic=new ImageIcon("image\\dn.png");
btnDone=new JButton("Done",ic);
pn19.add(btnDone);
//pn110=new JPanel();
//pn110.setLayout(new BorderLayout());
pn1.setOpaque(false);
pn11.setOpaque(false);
pn12.setOpaque(false);
pn13.setOpaque(false);
pn14.setOpaque(false);
pn15.setOpaque(false);
pn16.setOpaque(false);
pn17.setOpaque(false);
pn18.setOpaque(false);
pn19.setOpaque(false);
pn1.add(pn11);
pn1.add(pn12);
pn1.add(pn13);
pn1.add(pn18);
pn1.add(pn14);
pn1.add(pn15);
pn1.add(pn16);
pn1.add(pn17);
pn1.add(pn19);
//pn110.add(pn1,BorderLayout.WEST);
con.add(pn1,BorderLayout.CENTER);
con2.add(con);
setVisible(true);
setSize(1000, 550);
setResizable(false);
}
public JLabel getL1() {
    return l1;
}
public JLabel getL2() {
    return l2;
}
public JLabel getL4() {
    return l4;
}
public JLabel getL6() {

```

```

        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JButton getB1() {
        return b1;
    }
    public JLabel getL3() {
        return l3;
    }
    public JLabel getLblUid() {
        return lblUid;
    }
    public JLabel getLblGender() {
        return lblGender;
    }
    public JTextField getTfName() {
        return tfName;
    }
    public JTextField getTfPhno() {
        return tfPhno;
    }
    public JTextField getTfEmail() {
        return tfEmail;
    }
    public JTextField getTfAddres() {
        return tfAddres;
    }
    public JTextField getTfPin() {
        return tfPin;
    }
    public JTextField getTfDob() {
        return tfDob;
    }
    public JButton getBtnDone() {
        return btnDone;
    }
}
class UBckgrnded extends JPanel
{
    public UBckgrnded() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\u4.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }
}

```

```

package bank.view;

import java.awt.*;

import javax.swing.*;
import javax.swing.border.LineBorder;

public class UserChangePasswr extends JFrame{
    private JLabel lblold, lblnew, lblcfm;
    private JPasswordField psold, psnew, pscfm;
    private JButton btnOK;
    private JPanel pnl, pnl1, pnl2, pnl3, pnl4;
    private JPanel spn, p1, p2, p3, p4;
    private JLabel l1, l2, l3, l4, l5, l6, l7, l8, bl1, bl2, bl3, l9, l10;
    private JButton b1;
    public UserChangePasswr(String arg0) throws HeadlessException {
        super(arg0);
        // TODO Auto-generated constructor stub

        spn=new JPanel();
        spn.setLayout(new BorderLayout(spn, BorderLayout.Y_AXIS));
        UBckgrndcp con=new UBckgrndcp();
        Container con2=getContentPane();
        bl3=new JLabel(" ");
        spn.add(bl3);
        ImageIcon ic1=new ImageIcon("image\\Untitled-1.jpg");
        l1=new JLabel("Account Details", ic1, JLabel.LEFT);
        l1.setBorder(new LineBorder(new Color(103, 165, 152)));
        l1.setSize(50,10);
        spn.add(l1);
        l1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l1.setToolTipText("Click Here to View Account Details of any Account");
        ImageIcon ic2=new ImageIcon("image\\6.jpg");
        l2=new JLabel("See All Account", ic2, JLabel.LEFT);
        l2.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l2);
        l2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l2.setToolTipText("Click Here to See All Your Account");
        ImageIcon ic4=new ImageIcon("image\\4.jpg");
        l4=new JLabel("Transfer Money", ic4, JLabel.LEFT);
        l4.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l4);
        l4.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l4.setToolTipText("Click Here to Transfer Money from an Account to Another
Account");
        ImageIcon ic7=new ImageIcon("image\\5.jpg");
        l7=new JLabel("Transaction Details", ic7, JLabel.LEFT);
        l7.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l7);
        l7.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l7.setToolTipText("Click Here to view the Transaction Details");
        ImageIcon ic3=new ImageIcon("image\\cp.png");
        l3=new JLabel("Change Password", ic3, JLabel.LEFT);
        l3.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l3);
        l3.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l3.setToolTipText("Click Here To Change Password");

        ImageIcon ic9=new ImageIcon("image\\e1.jpg");
        l9=new JLabel("Edit Your Details", ic9, JLabel.LEFT);
        l9.setBorder(new LineBorder(new Color(103, 165, 152)));
        spn.add(l9);
        l9.setCursor(new Cursor(Cursor.HAND_CURSOR));
        l9.setToolTipText("Click Here to Edit Your Personal Details");
        spn.setSize(400,50);

```

```

spn.setVisible(true);
p1=new JPanel();
ImageIcon ic6=new ImageIcon("image\\7.jpg");
l6=new JLabel("Log Out. ", ic6, JLabel.LEFT);
l6.setCursor(new Cursor(Cursor.HAND_CURSOR));
l6.setToolTipText("Click Here to Logout");
p1.setLayout(new BorderLayout());
p2=new JPanel();
p2.add(l6);
p3=new JPanel();
ImageIcon ic11=new ImageIcon("image\\loan.png");
b1=new JButton("Apply For Loan", ic11);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.setToolTipText("Click Here To Apply For Loan");
b1.setPreferredSize(new Dimension(150,20));
p3.setLayout(new GridLayout(2, 2));
ImageIcon ic8=new ImageIcon("image\\8.jpg");
l8=new JLabel(ic8);
bl1=new JLabel("");
bl2=new JLabel("");
p4=new JPanel(new GridLayout(2, 2));
p4.add(bl1);
p4.add(bl2);
p4.add(b1);
p3.add(l8);
p3.add(p4);
spn.setOpaque(false);
p1.setOpaque(false);
p2.setOpaque(false);
p3.setOpaque(false);
p4.setOpaque(false);
p1.add(p3,BorderLayout.WEST);
p1.add(p2,BorderLayout.EAST);
con.add(p1,BorderLayout.NORTH);
con.add(spn,BorderLayout.WEST);
pnl=new JPanel();
pnl.setLayout(new BoxLayout(pnl, BoxLayout.Y_AXIS));
pnl1=new JPanel(new FlowLayout(FlowLayout.LEFT));
pnl2=new JPanel(new FlowLayout(FlowLayout.LEFT));
pnl3=new JPanel(new FlowLayout(FlowLayout.LEFT));
pnl4=new JPanel();
lblold=new JLabel("Enter Your Old Password:-");
lblnew=new JLabel("Enter Your New Password:-");
lblcfm=new JLabel("Confirm Your New Password:-");
psold=new JPasswordField(20);
psnew=new JPasswordField(20);
pscfm=new JPasswordField(20);
lblold.setFont(new Font("Century Gothic",Font.BOLD ,16));
lblnew.setFont(new Font("Century Gothic",Font.BOLD ,16));
lblcfm.setFont(new Font("Century Gothic",Font.BOLD ,16));
psold.setFont(new Font("Century Gothic",Font.BOLD ,16));
psnew.setFont(new Font("Century Gothic",Font.BOLD ,16));
pscfm.setFont(new Font("Century Gothic",Font.BOLD ,16));

pnl1.add(lblold);
pnl1.add(psold);
pnl2.add(lblnew);
pnl2.add(psnew);
pnl3.add(lblcfm);
pnl3.add(pscfm);
ImageIcon ic=new ImageIcon("image\\dn.png");
btnOK=new JButton("OK",ic);
btnOK.setFont(new Font("Century Gothic",Font.BOLD ,26));
pnl4.add(btnOK);
");

```

```

        pnl.setOpaque(false);
        pnl1.setOpaque(false);
        pnl2.setOpaque(false);
        pnl3.setOpaque(false);
        pnl4.setOpaque(false);
        pnl.add(pnl1);
        pnl.add(pnl2);
        pnl.add(pnl3);
        pnl.add(pnl4);
        con.add(pnl, BorderLayout.CENTER);
        con2.add(con);
        setVisible(true);
        setSize(1000, 550);
        setResizable(false);
    }
    public JLabel getL3() {
        return l3;
    }
    public JLabel getL1() {
        return l1;
    }
    public JLabel getL2() {
        return l2;
    }
    public JLabel getL4() {
        return l4;
    }
    public JLabel getL6() {
        return l6;
    }
    public JLabel getL7() {
        return l7;
    }
    public JLabel getL9() {
        return l9;
    }
    public JButton getB1() {
        return b1;
    }
    public JPasswordField getPsold() {
        return psold;
    }
    public JPasswordField getPsnew() {
        return psnew;
    }
    public JPasswordField getPscfm() {
        return pscfm;
    }
    public JButton getBtnOK() {
        return btnOK;
    }
}
class UBckgrndcp extends JPanel
{
    public UBckgrndcp() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\u5.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
    }
}

```

```
        super.paint(g);  
    }  
}
```



```

package bank.view;

import java.awt.*;

import javax.swing.*;

public class SecndPage extends JFrame
{
    private JButton bAdmin,bUser,btnHelp;

    private JPanel pnl,pnl1;
    private JLabel l1,l2,l5;
    public SecndPage(String arg0) throws HeadlessException {
        super(arg0);
        ScBckgrnd con=new ScBckgrnd();
        // TODO Auto-generated constructor stub
        l1=new JLabel(" ");
        l2=new JLabel(" ");
        l5=new JLabel("Welcome and Please Choose A Option",JLabel.CENTER);
        l5.setFont(new Font("Century Gothic", Font.BOLD, 20));
        l5.setForeground(Color.cyan);
        ImageIcon ic1=new ImageIcon("image\\acc.png");
        bAdmin=new JButton("Accountant", ic1);
        ImageIcon ic2=new ImageIcon("image\\usr.png");
        bUser=new JButton("User",ic2);
        Container con2=getContentPane();
        pnl=new JPanel(new GridLayout(3, 4, 20, 20));
        pnl.setOpaque(false);
        pnl.add(l1);
        pnl.add(l2);
        //pnl.add(l3);
        //pnl.add(l4);
        //pnl.add(l5);
        pnl.add(bAdmin);
        pnl.add(bUser);
        ImageIcon ic3=new ImageIcon("image\\hlp.png");
        btnHelp=new JButton("Help",ic3);
        pnl1=new JPanel();
        pnl1.add(btnHelp);
        pnl1.setOpaque(false);
        con.add(l5,BorderLayout.NORTH);
        con.add(pnl,BorderLayout.CENTER);
        con.add(pnl1,BorderLayout.SOUTH);
        con2.add(con);
        setVisible(true);
        setSize(400, 350);
        setResizable(false);
    }
    public JButton getbAdmin() {
        return bAdmin;
    }
    public JButton getbUser() {
        return bUser;
    }
    public JButton getBtnHelp() {
        return btnHelp;
    }
}

class ScBckgrnd extends JPanel
{
    public ScBckgrnd() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }
}

```

```
}  
public void paint(Graphics g)  
{  
    Image a=Toolkit.getDefaultToolkit().getImage("image\\12.jpg");  
    g.drawImage(a, 0, 0, getSize().width,getSize().height,this);  
    super.paint(g);  
}  
}
```

```
package bank.view;

import javax.swing.JOptionPane;

public class InfMsg {
    private String a;

    public InfMsg(String a) {
        super();
        this.a = a;
        JOptionPane.showMessageDialog(null, a,
        "Information",JOptionPane.INFORMATION_MESSAGE);
    }
}
```

```

package bank.view;
import javax.swing.*.*;

import bank.controller.SndPgController;

import java.awt.*.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class Front extends JFrame{
    private static final long serialVersionUID = 1L;
    private JLabel lb1,l;
    private JProgressBar pr;
    private Timer tt;
    int i=0;
    public Front(String arg0) throws HeadlessException {
        super(arg0);
        FrBckgrnd con=new FrBckgrnd();
        // TODO Auto-generated constructor stub
        ImageIcon icn1=new ImageIcon("C:\\Users\\SHAMBO\\Downloads\\8.jpg");
        lb1=new JLabel(icn1,JLabel.RIGHT);
        lb1.setLocation(0, 100);
        lb1.setSize(400,40);
        Container con2=getContentPane();
        con.add(lb1,BorderLayout.NORTH);
        EventQueue.invokeLater(new Runnable() {
            @Override
            public void run(){
                String s = "Welcome To iBanking";
                MarqueePanel mp = new MarqueePanel(s, 60);
                con.add(mp,BorderLayout.CENTER);
                mp.start();
            }
        });
        l=new JLabel("Welcome to our Bank",JLabel.CENTER);
        l.setSize(new Dimension(900, 100));
        l.setFont(new Font(null,Font.BOLD, 50));
        pr=new JProgressBar();
        //pr.setSize(900,200);
        pr.setStringPainted(true);
        pr.setPreferredSize(new Dimension(900, 27));
        pr.setValue(0);
        ActionListener ac=new ActionListener() {

            @Override
            public void actionPerformed(ActionEvent arg0) {
                // TODO Auto-generated method stub
                i++;
                pr.setValue(i);
                if(i==100)
                {
                    SecndPage sndpg=new SecndPage("iBanking");
                    new SndPgController(sndpg).control();
                    dispose();
                }
            }
        };
        tt=new Timer(100, ac);
        tt.start();
        con.add(pr,BorderLayout.SOUTH);
        con2.add(con);
        setResizable(false);
        setSize(640, 411);
        setVisible(true);
    }
}

```

```

}

//Class For Marquee Text
class MarqueePanel extends JPanel implements ActionListener {

    private static final int RATE = 13;
    private final Timer timer = new Timer(1000 / RATE, this);
    private final JLabel label = new JLabel();
    private final String s;
    private final int n;
    private int index;

    public MarqueePanel(String s, int n) {
        if (s == null || n < 1) {
            throw new IllegalArgumentException("Null string or n < 1");
        }
        StringBuilder sb = new StringBuilder(n);
        for (int i = 0; i < n; i++) {
            sb.append(' ');
        }
        this.s = sb + s + sb;
        this.n = n;
        label.setFont(new Font("Comic Sans MS", Font.ITALIC, 46));
        label.setText(sb.toString());
        label.setForeground(Color.RED);
        this.add(label);
        setOpaque(false);
    }

    public void start() {
        timer.start();
    }

    public void stop() {
        timer.stop();
    }

    @Override
    public void actionPerformed(ActionEvent e) {
        index++;
        if (index > s.length() - n) {
            index = 0;
        }
        label.setText(s.substring(index, index + n));
    }
}

class FrBckgrnd extends JPanel
{

    public FrBckgrnd() {
        setOpaque(false);
        setLayout(new BorderLayout());
        // TODO Auto-generated constructor stub
    }

    public void paint(Graphics g)
    {
        Image a=Toolkit.getDefaultToolkit().getImage("image\\bf.jpg");
        g.drawImage(a, 0, 0, getSize().width,getSize().height,this);
        super.paint(g);
    }

}

```

# From package bank.controller

```
package bank.controller;

import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Date;

import javax.swing.JTable;

import prj.*;
import bank.model.*;
import bank.view.*;

public class AccntCreatCntrl
{
    private JTable jtbl;
    private String [] head2={"AccountNo","AccountHolder's UID","AccountHolder's
Name","Account Type","Balance"};
    private String [][] data2;
    private int sha,ka;
    private AccntDetails ad;
    private ArrayList<Savings_Account> dat;

    private CreatAccnt cacc;
    private Date dt=new Date();
    private String abc,acno;
    private ArrayList<Savings_Account> sacc=new ArrayList<Savings_Account>();
    private ArrayList<Customer> cust=new ArrayList<Customer>();
    private int ht;
    private String [] uida;
    public AccntCreatCntrl( CreatAccnt cacc) {
        this.cacc = cacc;
        try {
            sacc=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in its Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error ocured while Reading The Account Details");
        }
        try {
            cust=CustomerReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in its Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error ocured while Reading The Customer Details");
        }
        int j=cust.size();
        uida=new String[j];
        for(int i=0;i<j;i++)
        {
            uida[i]=cust.get(i).getUid();
        }
        ht=sacc.size()+1;
        abc=new SimpleDateFormat("ddMMyy").format(dt);
        acno=abc+Integer.toString(ht);
    }
}
```

```

try {
    dat=AccountReaderWriter.read();
} catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    new ErrMsg("File Not Found in Location");
} catch (IOException e) {
    // TODO Auto-generated catch block
    new ErrMsg("Error Occured While Reading Account Details");
}
sha=dat.size();
data2=new String [sha][5];
}
public void control()
{
    cacc.getB1().addActionListener((a)->{
        CreatAcnt cracc=new CreatAcnt("iBanking");
        new AcntCreatCntrl(cracc).control();
        cacc.dispose();
    });
    cacc.getL1().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            AcntDetails ad=new AcntDetails("iBanking");
            new AcntDetailsCntrl(ad).control();
            cacc.dispose();
            //account details
        }
    });
    cacc.getL2().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //deposit money
            AccountDeposit acdep=new AccountDeposit("iBanking");
            new AcntDepositCntrl(acdep, acdep).control();
            cacc.dispose();
        }
    });
    cacc.getL3().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //withdraw money
            AccountWithdraw acwt=new AccountWithdraw("iBanking");
            new AcntWithdrawCntrl(acwt, acwt).control();
            cacc.dispose();
        }
    });
    cacc.getL4().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //transfer money
            AccTransferMoney actfm=new AccTransferMoney("iBanking");
            new AcntTransferCntrl(actfm).control();
            cacc.dispose();
        }
    });
    cacc.getL5().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //see all account
            if(sha>0)
            {
                for(ka=0;ka<sha;ka++)
                {
                    data2[ka][0]=Long.toString(dat.get(ka).getAccountid());
                }
            }
        }
    });
}

```



```

        data2[ka][1]=dat.get(ka).getUid();
        data2[ka][2]=dat.get(ka).getHoldername();
        data2[ka][3]=dat.get(ka).getType();
        data2[ka][4]=Double.toString(dat.get(ka).getBalance());
    }
    jtbl=new JTable(data2,head2);
    AccntTableVew atbv=new AccntTableVew("iBanking", jtbl);
    new AccntTableViewCntrl(atbv).control();
    atbv.getLbl().setText("Showing All The Accounts of This
Bank");

    cacc.dispose();
}
else
{
    new ErrMsg("Sorry There is No Account in This Bank");
}
}
});
cacc.getL6().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //log out
        SecndPage snd=new SecndPage("iBanking");
        new SndPgController(snd).control();
        cacc.dispose();
    }
});
cacc.getL7().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0)
    {
        //transction details
        AccntTrans act=new AccntTrans("iBanking");
        new AccTransCntrl(act).control();
        cacc.dispose();
    }
});
cacc.getL9().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //edit account
        AccntEdit aced=new AccntEdit("iBanking");
        new AccntEditCntrl(aced).control();
        cacc.dispose();
    }
});
cacc.getL10().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //delete account
        DeleteAccount del=new DeleteAccount("iBanking");
        new DelAccntCntrl(del, del).control();
        cacc.dispose();
    }
});

cacc.getBtnSaving().addActionListener((a)->{
    CreatAccntM cam=new CreatAccntM("iBanking",uida);
    new CreatAccntMnCntrl(cam).control();
    cam.getJcb().setSelectedItem("Savings Account");
});

```

```

        cam.getLblAccn().setText(acno);
        cam.getLbMin2().setText("Enter The Minimum Balance");
        cacc.dispose();
    });
    cacc.getBtnCurrent().addActionListener((a)->{
        CreatAccntM cam=new CreatAccntM("iBanking",uida);
        new CreatAccntMnCntrl(cam).control();
        cam.getJcb().setSelectedItem("Current Account");
        cam.getLblAccn().setText(acno);
        cam.getLbMin2().setText("Enter The Overdraft Limit of this Account");
        cacc.dispose();
    });
}
}

```

```

package bank.controller;

import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;
import java.util.ArrayList;
import javax.swing.JOptionPane;
import prj.AccountReaderWriter;
import bank.model.*;
import bank.view.*;

public class AccntDepositCntrl extends AccntDetailsCntrl
{
    private AccountDeposit acdp;
    private int sh=0,i;
    private ArrayList<Savings_Account> acc;
    public AccntDepositCntrl(AccntDetails acdt,
        AccountDeposit acdp) {
        super(acdt);
        this.acdp = acdp;
        try {
            acc=(ArrayList<Savings_Account>)AccountReaderWriter.read();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("There is a Problem While Reading from File");
        }
    }
    public void control()
    {
        super.control();
        acdp.getBtnDeps().addActionListener((a)->{
            if(acdp.getTfAccId().getText().trim().length()==0)
            {
                new ErrMsg("Please Enter The Account No");
            }
            else if(acdp.getTfDepAmt().getText().trim().length()==0)
            {
                new ErrMsg("Please Enter The Amount");
            }
            else
            {
                long accno=Long.parseLong(acdp.getTfAccId().getText().trim());
                for(i=0;i<acc.size();i++)
                {
                    if(acc.get(i).getAccountid()==accno)
                    {
                        if(acc.get(i).getType().equals("Savings Account"))
                        {
                            acc.get(i).deposit(Double.parseDouble(acdp.getTfDepAmt().getText().trim()));
                            new InfMsg("Now Available Balance :-
"+Double.toString(acc.get(i).getBalance()));
                        }
                        else if(acc.get(i).getType().equals("Current Account"))
                        {
                            acc.get(i).deposit(Double.parseDouble(acdp.getTfDepAmt().getText().trim()));
                            new InfMsg("Now Available Balance :-
"+Double.toString(acc.get(i).getBalance()));
                        }
                        super.clear();
                        sh++;
                    }
                }
                if(sh==0)
                {

```

```

        new ErrMsg("There is No Such Account");
    }
}
try {
    AccountReaderWriter.writer(acc);
} catch (Exception e) {
    // TODO Auto-generated catch block
    new ErrMsg("There are Some error Occured While Depositing The
Balance");
    });
acdp.getTfDepAmt().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(KeyEvent a) {
        // TODO Auto-generated method stub
        char key=a.getKeyChar();

        if(!(Character.isDigit(key))|| (key==KeyEvent.VK_BACK_SPACE)|| (key==KeyEvent.VK_DELETE))
        {
            a.consume();
        }
    }
});
}
}

```

```

package bank.controller;
import bank.view.*;
import bank.model.*;
import prj.*;

import javax.swing.*;

import com.sun.glass.events.KeyEvent;

import java.awt.*;
import java.awt.event.KeyAdapter;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;
public class AccntDetailsContrl
{
    private AccntDetails acdt;
    private int sh=0,i;
    private JTable jtbl;
    private String [] head2={"AccountNo","AccountHolder's UID","AccountHolder's
Name","Account Type","Balance"};
    private String [][] data2;
    private int sha,ka;
    private ArrayList<Savings_Account> dat;
    private ArrayList<Savings_Account> acc;
    public AccntDetailsContrl(AccntDetails acdt) {
        this.acdt = acdt;
        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Account Details");
        }
        sha=dat.size();
        data2=new String [sha][5];
    }
    public void control()
    {
        acdt.getB1().addActionListener((a)->{
            CreatAccnt cracc=new CreatAccnt("iBanking");
            new AccntCreatCntrl(cracc).control();
            acdt.dispose();
        });
        acdt.getL1().addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent arg0) {
                AccntDetails ad=new AccntDetails("iBanking");
                new AccntDetailsContrl(ad).control();
                acdt.dispose();
                //account details
            }
        });
        acdt.getL2().addMouseListener(new MouseAdapter() {

```

```

@Override
public void mouseClicked(MouseEvent arg0) {
    //deposit money
    AccountDeposit acdep=new AccountDeposit("iBanking");
    new AccntDepositCntrl(acdep, acdep).control();
    acdt.dispose();
}
});
acdt.getL3().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
    //withdraw money
    AccountWithdraw acwt=new AccountWithdraw("iBanking");
    new AccntWithdrawCntrl(acwt, acwt).control();
    acdt.dispose();
}
});
acdt.getL4().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
    //transfer money
    AccTransferMoney actfm=new AccTransferMoney("iBanking");
    new AccntTransferCntrl(actfm).control();
    acdt.dispose();
}
});
acdt.getL5().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
    //see all account
    if(sha>0)
    {
        for(ka=0;ka<sha;ka++)
        {
            data2[ka][0]=Long.toString(dat.get(ka).getAccountid());
            data2[ka][1]=dat.get(ka).getUid();
            data2[ka][2]=dat.get(ka).getHoldername();
            data2[ka][3]=dat.get(ka).getType();
            data2[ka][4]=Double.toString(dat.get(ka).getBalance());
        }
        jtbl=new JTable(data2,head2);
        AccntTableView atbv=new AccntTableView("iBanking", jtbl);
        new AccntTableViewCntrl(atbv).control();
        atbv.getLbl1().setText("Showing All The Accounts of This
Bank");
        acdt.dispose();
    }
    else
    {
        new ErrMsg("Sorry There is No Account in This Bank");
    }
}
});
acdt.getL6().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
    //log out
    SecndPage snd=new SecndPage("iBanking");
    new SndPgController(snd).control();
    acdt.dispose();
}
});
acdt.getL7().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0)

```

```

        {
            //transction details
            AccntTrans act=new AccntTrans("iBanking");
            new AccTransCntrl(act).control();
            acdt.dispose();
        }
    });
    acdt.getL9().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //edit account
            AccntEdit aced=new AccntEdit("iBanking");
            new AccntEditCntrl(aced).control();
            acdt.dispose();
        }
    });
    acdt.getL10().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //delete account
            DeleteAccount del=new DeleteAccount("iBanking");
            new DelAccntCntrl(del, del).control();
            acdt.dispose();
        }
    });
});

```

```

acdt.getBtnSrch().addActionListener((a)->{
    if(acdt.getTfAccId().getText().trim().length()==0)
    {
        new ErrMsg("Please Enter The Account No");
    }
    else
    {
        long accno=Long.parseLong(acdt.getTfAccId().getText().trim());

        try {
            acc=(ArrayList<Savings_Account>)AccountReaderWriter.read();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("There is a Problem While Reading from File");
        }
        for(i=0;i<acc.size();i++)
        {
            if(acc.get(i).getAccountid()==accno)
            {
                view();
                acdt.getLblUid().setText(acc.get(i).getUid());
                acdt.getLblHldrNm().setText(acc.get(i).getHoldername());
                acdt.getLbltype().setText(acc.get(i).getType());

                acdt.getLblBal().setText(Double.toString(acc.get(i).getBalance()));
                if(acc.get(i).getType().equals("Current Account"))
                {
                    if(acc.get(i).getBalance()<0)
                    {
                        JOptionPane.showMessageDialog(null, "The Balance
Shows in Negitive Fig. that amount is already OverDrafted",
"Information",JOptionPane.INFORMATION_MESSAGE);
                    }
                }
            }
        }
    }
});

```



```

                sh++;
                break;
            }
        }
        if(sh==0)
        {
            new ErrMsg("There is No Such Account");
        }
    });
    acdt.getTfAccId().addKeyListener(new KeyAdapter() {
        @Override
        public void keyTyped(java.awt.event.KeyEvent a) {
            // TODO Auto-generated method stub
            char key=a.getKeyChar();

            if(!(Character.isDigit(key))|| (key==KeyEvent.VK_BACKSPACE)|| (key==KeyEvent.VK_DELETE))
            {
                a.consume();
            }
        }
    });
}
public int getI() {
    return i;
}
public Savings_Account getAcc()
{
    return acc.get(i);
}
public void view()
{
    acdt.getLblBal2().setText("Available Balance:-");
    acdt.getLblHldrNm2().setText("Account Holder's Name:-");
    acdt.getLbltype2().setText("Account Type:-");
    acdt.getLblUid2().setText("Account Holder's UID:-");
}
public void clear()
{
    acdt.getTfAccId().setText("");
    acdt.getLblBal().setText("");
    acdt.getLblBal2().setText("");
    acdt.getLblHldrNm().setText("");
    acdt.getLblHldrNm2().setText("");
    acdt.getLblMinB1().setText("");
    acdt.getLblMinB12().setText("");
    acdt.getLbltype().setText("");
    acdt.getLbltype2().setText("");
}
}
}

```

```

package bank.controller;

import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import javax.swing.JOptionPane;

import javax.swing.JTable;

import prj.AccountReaderWriter;
import bank.model.*;
import bank.view.*;

public class AccntTransferCntrl
{
    private AccTransferMoney actnfm;

    private JTable jtbl;
    private String [] head2={"AccountNo","AccountHolder's UID","AccountHolder's
Name","Account Type","Balance"};
    private String [][] data2;
    private int sha,ka;
    private AccntDetails ad;
    private ArrayList<Savings_Account> dat;

    private ArrayList<Savings_Account> accs;
    private int cnt=0,cnt1=0;
    public AccntTransferCntrl(AccTransferMoney actnfm) {
        this.actnfm = actnfm;
        try {
            accs=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("The File not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("There are some problem with the Reading of the File");
        }
        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block

```

```

        new ErrMsg("File Not Found in Location");
    } catch (IOException e) {
        // TODO Auto-generated catch block
        new ErrMsg("Error Occured While Reading Account Details");
    }
    sha=dat.size();
    data2=new String [sha][5];
}

public void control()
{
    actnfm.getB1().addActionListener((a)->{
        CreatAcct cracc=new CreatAcct("iBanking");
        new AcctCreatCntrl(cracc).control();
        actnfm.dispose();
    });
    actnfm.getL1().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            AcctDetails ad=new AcctDetails("iBanking");
            new AcctDetailsCntrl(ad).control();
            actnfm.dispose();
            //account details
        }
    });
    actnfm.getL2().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //deposit money
            AccountDeposit acdep=new AccountDeposit("iBanking");
            new AcctDepositCntrl(acdep, acdep).control();
            actnfm.dispose();
        }
    });
    actnfm.getL3().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //withdraw money
            AccountWithdraw acwt=new AccountWithdraw("iBanking");
            new AcctWithdrawCntrl(acwt, acwt).control();
            actnfm.dispose();
        }
    });
    actnfm.getL4().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //transfer money
            AccTransferMoney actfm=new AccTransferMoney("iBanking");
            new AcctTransferCntrl(actfm).control();
            actnfm.dispose();
        }
    });
    actnfm.getL5().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //see all account
            if(sha>0)
            {
                for(ka=0;ka<sha;ka++)
                {
                    data2[ka][0]=Long.toString(dat.get(ka).getAccountid());
                    data2[ka][1]=dat.get(ka).getUid();
                    data2[ka][2]=dat.get(ka).getHoldername();
                    data2[ka][3]=dat.get(ka).getType();
                    data2[ka][4]=Double.toString(dat.get(ka).getBalance());
                }
            }
        }
    });
}

```

```

        }
        jtbl=new JTable(data2,head2);
        AccntTableVew atbv=new AccntTableVew("iBanking", jtbl);
        new AccntTableViewCntrl(atbv).control();
        atbv.getLbl().setText("Showing All The Accounts of This
Bank");

        actnfm.dispose();
    }
    else
    {
        new ErrMsg("Sorry There is No Account in This Bank");
    }
}

});
actnfm.getL6().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //log out
        SecndPage snd=new SecndPage("iBanking");
        new SndPgController(snd).control();
        actnfm.dispose();
    }
});
actnfm.getL7().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0)
    {
        //transction details
        AccntTrans act=new AccntTrans("iBanking");
        new AccTransCntrl(act).control();
        actnfm.dispose();
    }
});
actnfm.getL9().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //edit account
        AccntEdit aced=new AccntEdit("iBanking");
        new AccntEditCntrl(aced).control();
        actnfm.dispose();
    }
});
actnfm.getL10().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //delete account
        DeleteAccount del=new DeleteAccount("iBanking");
        new DelAccntCntrl(del, del).control();
        actnfm.dispose();
    }
});

actnfm.getTf1().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(KeyEvent a) {
        // TODO Auto-generated method stub
        char key=a.getKeyChar();

        if(!(Character.isDigit(key))|| (key==KeyEvent.VK_BACK_SPACE)|| (key==KeyEvent.VK_DELETE))
        {
            a.consume();

```

```

    }
}
});
actnfm.getTf2().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(KeyEvent a) {
        // TODO Auto-generated method stub
        char key=a.getKeyChar();

        if(!(Character.isDigit(key))|| (key==KeyEvent.VK_BACK_SPACE)|| (key==KeyEvent.VK_DELETE))
        {
            a.consume();
        }
    }
});
actnfm.getBtnTrans().addActionListener((a)->{
    if(actnfm.getTf1().getText().trim().length()==0)
    {
        new WarMsg("Please Enter The Sender's Account No:-");
    }
    else if(actnfm.getTf2().getText().trim().length()==0)
    {
        new WarMsg("Please Enter The Receiver's Account No:-");
    }
    else if(actnfm.getTf3().getText().trim().length()==0)
    {
        new WarMsg("Please Enter The Amount");
    }
    else
    {
        long ano1=Long.parseLong(actnfm.getTf2().getText().trim());
        for(int i=0;i<accs.size();i++)
        {
            if(accs.get(i).getAccountid()==ano1)
            {
                cnt1++;
                long
ano=Long.parseLong(actnfm.getTf1().getText().trim());
                for(int j=0;j<accs.size();j++)
                {
                    if(accs.get(j).getAccountid()==ano)
                    {
                        double
amt=Double.parseDouble(actnfm.getTf3().getText().trim());
                        if(accs.get(j).getType().equals("Savings
Account"))
                        {
                            try {

                                accs.get(j).acctrnsfer(accs.get(i), amt);

                                JOptionPane.showMessageDialog(null, "Balance Successfully Transferred",
                                "Information",JOptionPane.INFORMATION_MESSAGE);

                                new InfMsg("Sender's New
                                clear();
                                } catch (Exception e) {
                                    // TODO Auto-generated catch
                                    new ErrMsg("Insufficient
                                }
                                }
                                else
                                if(accs.get(j).getType().equals("Current Account"))

```

```

        {
            try {

                accs.get(j).curAcctrnsfer(accs.get(i), amt);

                JOptionPane.showMessageDialog(null, "The Balance Successfully Transferred",
                "Information", JOptionPane.INFORMATION_MESSAGE);

                new InfMsg("Sender's New

                clear();
            } catch (Exception e) {
                // TODO Auto-generated catch

                new ErrMsg("Insufficient

                }
            }
            cnt++;
        }
    }
    if(cnt==0)
    {
        new ErrMsg("The Sender's Account No. Is Not

        Valid");
    }
}
}
if(cnt1==0)
{
    new ErrMsg("The Receiver's Account No. Is Not Valid");
}
try {
    AccountReaderWriter.writer(accs);
} catch (Exception e) {
    // TODO Auto-generated catch block
    new ErrMsg("Can't Transfer The Money");
}
}
});
}
public void clear()
{
    actnfm.getTf1().setText("");
    actnfm.getTf2().setText("");
    actnfm.getTf3().setText("");
}
}
}

```

```

package bank.controller;

import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import javax.swing.JTable;

import prj.AccountReaderWriter;
import bank.model.Savings_Account;
import bank.view.*;

public class AccntTableViewCntrl
{
    private AccntTableVew actb;
    private JTable jtbl;
    private String [] head2={"AccountNo","AccountHolder's UID","AccountHolder's
Name","Account Type","Balance"};
    private String [][] data2;
    private int sha,ka;
    private AccntDetails ad;
    private ArrayList<Savings_Account> dat;
    public AccntTableViewCntrl(AccntTableVew actb) {

        this.actb = actb;
        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Account Details");
        }
        sha=dat.size();
        data2=new String [sha][5];
    }
    public void control()
    {
        actb.getB1().addActionListener((a)->{
            CreatAccnt cracc=new CreatAccnt("iBanking");
            new AccntCreatCntrl(cracc).control();
            actb.dispose();
        });
        actb.getL1().addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent arg0) {
                AccntDetails ad=new AccntDetails("iBanking");
                new AccntDetailsCntrl(ad).control();
                actb.dispose();
                //account details
            }
        });
        actb.getL2().addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent arg0) {
                //deposit money
                AccountDeposit acdep=new AccountDeposit("iBanking");
                new AccntDepositCntrl(acdep, acdep).control();
                actb.dispose();
            }
        });
        actb.getL3().addMouseListener(new MouseAdapter() {

```

```

@Override
public void mouseClicked(MouseEvent arg0) {
    //withdraw money
    AccountWithdraw acwt=new AccountWithdraw("iBanking");
    new AccntWithdrawCntrl(acwt,acwt).control();
    actb.dispose();
}
});
actb.getL4().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
    //transfer money
    AccTransferMoney actfm=new AccTransferMoney("iBanking");
    new AccntTransferCntrl(actfm).control();
    actb.dispose();
}
});
actb.getL5().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
    //see all account
    if(sha>0)
    {
        for(ka=0;ka<sha;ka++)
        {
            data2[ka][0]=Long.toString(dat.get(ka).getAccountid());
            data2[ka][1]=dat.get(ka).getUid();
            data2[ka][2]=dat.get(ka).getHoldername();
            data2[ka][3]=dat.get(ka).getType();
            data2[ka][4]=Double.toString(dat.get(ka).getBalance());
        }
        jtbl=new JTable(data2,head2);
        AccntTableView atbv=new AccntTableView("iBanking", jtbl);
        new AccntTableViewCntrl(atbv).control();
        atbv.getLbl().setText("Showing All The Accounts of This
Bank");
        actb.dispose();
    }
    else
    {
        new ErrMsg("Sorry There is No Account in This Bank");
    }
}
});
actb.getL6().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
    //log out
    SecndPage snd=new SecndPage("iBanking");
    new SndPgController(snd).control();
    actb.dispose();
}
});
actb.getL7().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0)
{
    //transction details
    AccntTrans act=new AccntTrans("iBanking");
    new AccTransCntrl(act).control();
    actb.dispose();
}
});
actb.getL9().addMouseListener(new MouseAdapter() {
@Override

```



```

        public void mouseClicked(MouseEvent arg0) {
                                //edit account
            AccntEdit aced=new AccntEdit("iBanking");
            new AccntEditCntrl(aced).control();
            actb.dispose();
        }
    });
    actb.getL10().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
                                //delete account
            DeleteAccount del=new DeleteAccount("iBanking");
            new DelAccntCntrl(del, del).control();
            actb.dispose();
        }
    });
}
}
}

```

```

package bank.controller;

import bank.view.*;

public class AccntLoginCntrl {
    private AccntantLogIn acli;

    public AccntLoginCntrl(AccntantLogIn acli) {
        super();
        this.acli = acli;
    }

    public void control()
    {
        acli.getBtnCncl().addActionListener((a)->{
            SecndPage sp=new SecndPage("iBanking");
            new SndPgController(sp).control();
        });
        acli.getBtnlogin().addActionListener((a)->{
            if(acli.getTfID().getText().trim().length()==0)
            {
                new WarMsg("Enter Your User ID");
            }
            else if(new String(acli.getPs().getPassword()).trim().length()==0)
            {
                new WarMsg("Enter Your Password");
            }
            else
            {
                String uid=acli.getTfID().getText().trim();
                String pass=new String(acli.getPs().getPassword()).trim();
                if(uid.equals("Shambo") && pass.equals("Indranil"))
                {
                    AccountantHome achm=new AccountantHome("iBanking");
                    new AccountantHomeController(achm).control();
                    acli.dispose();
                }
                else
                {
                    new ErrMsg("Sorry You Have Entered Wrong Id and Password");
                }
            }
        });
    }
}

```

```

package bank.controller;
import bank.view.*;
import bank.model.*;
import prj.*;

import javax.swing.*;

import com.sun.glass.events.KeyEvent;

import java.awt.*;
import java.awt.event.KeyAdapter;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;
public class AccntEditCntrl {
    private AccntEdit acdt;

    private JTable jtbl;
    private String [] head2={"AccountNo","AccountHolder's UID","AccountHolder's
Name","Account Type","Balance"};
    private String [][] data2;
    private int sha,ka;
    private AccntDetails ad;
    private ArrayList<Savings_Account> dat;

    private int sh=0,i,k;
    private ArrayList<Savings_Account> acc;
    private ArrayList<Customer> cus=new ArrayList<Customer>();
    public AccntEditCntrl( AccntEdit acdt) {
        this.acdt = acdt;
        try {
            acc=(ArrayList<Savings_Account>)AccountReaderWriter.read();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("There is a Problem While Reading from File");
        }
        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Account Details");
        }
        sha=dat.size();
        data2=new String [sha][5];

    }
    public void control()
    {
        acdt.getB1().addActionListener((a)->{
            CreatAccnt cracc=new CreatAccnt("iBanking");
            new AccntCreatCntrl(cracc).control();
            acdt.dispose();
        });
        acdt.getL1().addMouseListener(new MouseAdapter() {

```

```

        @Override
        public void mouseClicked(MouseEvent arg0) {
            AccntDetails ad=new AccntDetails("iBanking");
            new AccntDetailsContrl(ad).control();
            acdt.dispose();
            //account details
        }
    });
    acdt.getL2().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //deposit money
            AccountDeposit acdep=new AccountDeposit("iBanking");
            new AccntDepositCntrl(acdep, acdep).control();
            acdt.dispose();
        }
    });
    acdt.getL3().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //withdraw money
            AccountWithdraw acwt=new AccountWithdraw("iBanking");
            new AccntWithdrawCntrl(acwt,acwt).control();
            acdt.dispose();
        }
    });
    acdt.getL4().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //transfer money
            AccTransferMoney actfm=new AccTransferMoney("iBanking");
            new AccntTransferCntrl(actfm).control();
            acdt.dispose();
        }
    });
    acdt.getL5().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //see all account
            if(sha>0)
            {
                for(ka=0;ka<sha;ka++)
                {
                    data2[ka][0]=Long.toString(dat.get(ka).getAccountid());
                    data2[ka][1]=dat.get(ka).getUid();
                    data2[ka][2]=dat.get(ka).getHoldername();
                    data2[ka][3]=dat.get(ka).getType();
                    data2[ka][4]=Double.toString(dat.get(ka).getBalance());
                }
                jtbl=new JTable(data2,head2);
                AccntTableVew atbv=new AccntTableVew("iBanking", jtbl);
                new AccntTableViewCntrl(atbv).control();
                atbv.getLbl().setText("Showing All The Accounts of This
Bank");
                acdt.dispose();
            }
            else
            {
                new ErrMsg("Sorry There is No Account in This Bank");
            }
        }
    });
    acdt.getL6().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {

```

```

//log out
SecndPage snd=new SecndPage("iBanking");
new SndPgController(snd).control();
acdt.dispose();
}
});
acdt.getL7().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0)
{
//transction details
AccntTrans act=new AccntTrans("iBanking");
new AccTransCntrl(act).control();
acdt.dispose();
}
});
acdt.getL9().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
//edit account
AccntEdit aced=new AccntEdit("iBanking");
new AccntEditCntrl(aced).control();
acdt.dispose();
}
});
acdt.getL10().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
//delete account
DeleteAccount del=new DeleteAccount("iBanking");
new DelAccntCntrl(del, del).control();
acdt.dispose();
}
});
});

```

```

acdt.getBtnSrch().addActionListener((a)->{
if(acdt.getTfAccId().getText().trim().length()==0)
{
new ErrMsg("Please Enter The Account No");
}
else
{
long accno=Long.parseLong(acdt.getTfAccId().getText().trim());
for(i=0;i<acc.size();i++)
{
if(acc.get(i).getAccountid()==accno)
{
acdt.getLblUid().setText(acc.get(i).getUid());
acdt.getLblHldrNm().setText(acc.get(i).getHoldername());
acdt.getJcmType().setSelectedItem(acc.get(i).getType());

acdt.getLblBal().setText(Double.toString(acc.get(i).getBalance()));
if(acc.get(i).getType().equals("Savings Account"))
{
acdt.getLblMinBl2().setText("Minimum Balance The
Account Should Have:-");
}
acdt.getTfMinBl().setText(Double.toString(acc.get(i).getMinimum_amount()));
}
else if(acc.get(i).getType().equals("Current Account"))

```

```

        {
            acdt.getLblMinBl2().setText("The Over Draft Limit of
The account is:-");

            acdt.getTfMinBl().setText(Double.toString(acc.get(i).getMinimum_amount()));
            if(acc.get(i).getBalance()<0)
            {
                JOptionPane.showMessageDialog(null, "The Balance
Shows in Negetive Fig. that amount is already OverDrafted",
"Information",JOptionPane.INFORMATION_MESSAGE);
            }
        }
        sh++;
        break;
    }
}
if(sh==0)
{
    new ErrMsg("There is No Such Account");
}
try {
    AccountReaderWriter.writer(acc);
} catch (Exception e) {
    // TODO Auto-generated catch block
    new ErrMsg("Can't Edit The Account Details");
}
});
acdt.getTfAccId().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(java.awt.event.KeyEvent a) {
        // TODO Auto-generated method stub
        char key=a.getKeyChar();

        if(!(Character.isDigit(key))||(key==KeyEvent.VK_BACKSPACE)||(key==KeyEvent.VK_DELETE))
        {
            a.consume();
        }
    }
});
acdt.getTfMinBl().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(java.awt.event.KeyEvent a) {
        // TODO Auto-generated method stub
        char key=a.getKeyChar();

        if(!(Character.isDigit(key))||(key==KeyEvent.VK_BACKSPACE)||(key==KeyEvent.VK_DELETE))
        {
            a.consume();
        }
    }
});
acdt.getBtnDn().addActionListener((a)->{
    if(acdt.getTfAccId().getText().trim().length()==0)
    {
        new ErrMsg("Please Enter The Account No");
    }
    else
    {
        long accno=Long.parseLong(acdt.getTfAccId().getText().trim());

        try {
            acc=(ArrayList<Savings_Account>)AccountReaderWriter.read();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("There is a Problem While Reading from File");
        }
    }
}

```

```

    }
    for(i=0;i<acc.size();i++)
    {
        if(acc.get(i).getAccountid()==accno)
        {
acc.get(i).setType(acdt.getJcmType().getSelectedItem().toString());
acc.get(i).setMinimum_amount(Double.parseDouble(acdt.getTfMinBl().getText().trim()));
            sh++;
            break;
        }
    }
    if(sh==0)
    {
        new ErrMsg("There is No Such Account");
    }
    try {
        AccountReaderWriter.writter(acc);
    } catch (Exception e) {
        // TODO Auto-generated catch block
        new ErrMsg("There some Error Occured");
    }
}
});
}
}
}

```

```
package bank.controller;

public class InsufficientBalanceException extends Exception
{
    private static final long serialVersionUID = 1L; //Not mandatory

    public InsufficientBalanceException(String arg0) {
        super(arg0);
        // TODO Auto-generated constructor stub
    }
}
```



```

package bank.controller;

import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import prj.*;
import bank.model.*;
import bank.view.*;

public class DelAcctnCntrl extends AcctnDetailsCntrl
{
    private DeleteAccount da;
    private ArrayList<Savings_Account> svacc=new ArrayList<Savings_Account>();
    private int Count=0;
    public DelAcctnCntrl(AcctnDetails acdt,
        DeleteAccount da) {
        super(acdt);
        this.da = da;
        try {
            svacc=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("There is some error occured while reading from ");
        }
    }

    public void control()
    {
        super.control();
        da.getBtnDelete().addActionListener((a)->{
            if(da.getTfAccId().getText().trim().length()==0)
            {
                new WarMsg("Please Enter ");
            }
            else
            {
                long acctno=Long.parseLong(da.getTfAccId().getText());
                for(int i=0;i<svacc.size();i++)
                {
                    if(svacc.get(i).getAccountid()==acctno)
                    {
                        svacc.remove(i);
                        Count++;
                        try {
                            AccountReaderWriter.writer(svacc);
                            new InfMsg("Account Successfully Deleted");
                            AccountantHome ahm=new
AccountantHome("iBanking");

                            new AccountantHomeController(ahm).control();
                        } catch (Exception e) {
                            // TODO Auto-generated catch block
                            new ErrMsg("Unable Delete The Account");
                        }
                    }
                }
            }
        });
    }
}

```

```
        if(Count==0)
        {
            new ErrMsg("Sorry There is No Such Account No");
        }
    }
});
}
```

```

package bank.controller;

import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import javax.swing.JTable;

import bank.model.*;
import bank.view.*;
import prj.*;
public class CreatAccntMnCtr1
{
    private CreatAccntM crm;

    private JTable jtbl;
    private String [] head2={"AccountNo","AccountHolder's UID","AccountHolder's
Name","Account Type","Balance"};
    private String [][] data2;
    private int sha,ka;
    private AccntDetails ad;
    private ArrayList<Savings_Account> dat;

    private ArrayList<Savings_Account> cre;
    private ArrayList<Customer> cus;
    private int cnt1,cnt2;
    public CreatAccntMnCtr1(CreatAccntM crm) {
        this.crm = crm;
        try {
            cre=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Respective File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("There is some Error Occurred while reading from file");
        }
        try {
            cus=CustomerReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Respective File Not Found in Location");
        } catch (IOException e)

```

```

{
    // TODO Auto-generated catch block
    new ErrMsg("There is some Error Occurred while reading from file");
}
try {
    dat=AccountReaderWriter.read();
} catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    new ErrMsg("File Not Found in Location");
} catch (IOException e) {
    // TODO Auto-generated catch block
    new ErrMsg("Error Occured While Reading Account Details");
}
sha=dat.size();
data2=new String [sha][5];
}
public void control()
{

    crm.getB1().addActionListener((a)->{
        CreatAcct cracc=new CreatAcct("iBanking");
        new AcctCreatCntrl(cracc).control();
        crm.dispose();
    });
    crm.getL1().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            AcctDetails ad=new AcctDetails("iBanking");
            new AcctDetailsCntrl(ad).control();
            crm.dispose();
            //account details
        }
    });
    crm.getL2().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //deposit money
            AccountDeposit acdep=new AccountDeposit("iBanking");
            new AcctDepositCntrl(acdep, acdep).control();
            crm.dispose();
        }
    });
    crm.getL3().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //withdraw money
            AccountWithdraw acwt=new AccountWithdraw("iBanking");
            new AcctWithdrawCntrl(acwt, acwt).control();
            crm.dispose();
        }
    });
    crm.getL4().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //transfer money
            AccTransferMoney actfm=new AccTransferMoney("iBanking");
            new AcctTransferCntrl(actfm).control();
            crm.dispose();
        }
    });
    crm.getL5().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            //see all account
            if (sha>0)

```

```

        {
            for(ka=0;ka<sha;ka++)
            {
                data2[ka][0]=Long.toString(dat.get(ka).getAccountid());
                data2[ka][1]=dat.get(ka).getUid();
                data2[ka][2]=dat.get(ka).getHoldername();
                data2[ka][3]=dat.get(ka).getType();
                data2[ka][4]=Double.toString(dat.get(ka).getBalance());
            }
            jtbl=new JTable(data2,head2);
            AccntTableVew atbv=new AccntTableVew("iBanking", jtbl);
            new AccntTableViewCntrl(atbv).control();
            atbv.getLbl1().setText("Showing All The Accounts of This
Bank");

            crm.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in This Bank");
        }
    }
});
crm.getL6().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //log out
        SecndPage snd=new SecndPage("iBanking");
        new SndPgController(snd).control();
        crm.dispose();
    }
});
crm.getL7().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0)
    {
        //transction details
        AccntTrans act=new AccntTrans("iBanking");
        new AccTransCntrl(act).control();
        crm.dispose();
    }
});
crm.getL9().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //edit account
        AccntEdit aced=new AccntEdit("iBanking");
        new AccntEditCntrl(aced).control();
        crm.dispose();
    }
});
crm.getL10().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //delete account
        DeleteAccount del=new DeleteAccount("iBanking");
        new DelAccntCntrl(del, del).control();
        crm.dispose();
    }
});

crm.getTfAmnt().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(KeyEvent a) {
        // TODO Auto-generated method stub

```

```

        char key=a.getKeyChar();

        if(!(Character.isDigit(key))||(key==KeyEvent.VK_BACK_SPACE)||(key==KeyEvent.VK_DELETE))
        {
            a.consume();
        }
    });
    crm.getTfMinA().addKeyListener(new KeyAdapter() {
        @Override
        public void keyPressed(KeyEvent a) {
            // TODO Auto-generated method stub
            char key=a.getKeyChar();

            if(!(Character.isDigit(key))||(key==KeyEvent.VK_BACK_SPACE)||(key==KeyEvent.VK_DELETE))
            {
                a.consume();
            }
        }
    });
    crm.getUId().addActionListener((a)->{
        String uid=crm.getUId().getSelectedItem().toString();
        for(int h=0;h<cus.size();h++)
        {
            if(uid.equals(cus.get(h).getUId()))
            {
                crm.getLbHold().setText(cus.get(h).getName());
                cnt1++;
            }
        }
        if(cnt1==0)
        {
            new ErrMsg("User ID Not Found");
        }
    });
    crm.getJcb().addActionListener((a)->{
        crm.getTfAmnt().setText("");
        crm.getTfMinA().setText("");
    });
    crm.getJcb().addActionListener((a)->{
        String actype=crm.getJcb().getSelectedItem().toString();
        if(actype.equals("Savings Account"))
        {
            crm.getLbMin2().setText("Enter The Minimum Balance");
        }
        else if(actype.equals("Current Account"))
        {
            crm.getLbMin2().setText("Enter The Overdraft Limit of this
Account");
        }
    });
    crm.getBtnCreate().addActionListener((a)->{

        if(crm.getTfAmnt().getText().trim().length()==0 ||
        crm.getTfMinA().getText().trim().length()==0)
        {
            new WarMsg("Please Enter Amount And Minimum Balance");
        }
        else if(crm.getLbHold().getText().trim().length()==0)
        {
            new WarMsg("Please Select A UID");
        }
        else
        {
            long acid=Long.parseLong(crm.getLb1Accn().getText());

```

```

String hnm=crm.getLbHold().getText();
double bal=Double.parseDouble(crm.getTfAmnt().getText().trim());
String uid=crm.getUid().getSelectedItem().toString();
String type=crm.getJcb().getSelectedItem().toString();
double min=Double.parseDouble(crm.getTfMinA().getText().trim());
cre.add(new Savings_Account(acid, hnm, uid, bal, type, min));
try {
    AccountReaderWriter.writter(cre);
    new InfMsg("Account Successfully Created");
    AccountantHome ahm=new AccountantHome("iBanking");
    new AccountantHomeController(ahm).control();
} catch (Exception e) {
    // TODO Auto-generated catch block
    new ErrMsg("Can't Create the Account Some error Occured");
}
}
});
}
}
}

```

```

package bank.controller;

import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import javax.swing.*;

import java.awt.*;

import prj.*;
import bank.model.*;
import bank.view.*;
public class AccTransCntrl
{
    private JTable jtbl;
    private String [] head2={"AccountNo","AccountHolder's UID","AccountHolder's
Name","Account Type","Balance"};
    private String [][] data2;
    private int sha,ka;
    private AccntDetails ad;
    private ArrayList<Savings_Account> dat;

    private AccntTrans actrns;
    private int sh=0;
    public AccTransCntrl( AccntTrans actrns) {
        this.actrns = actrns;

        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Account Details");
        }
        sha=dat.size();
        data2=new String [sha][5];
    }
    public void control()
    {

        actrns.getB1().addActionListener((a)->{
            CreatAccnt cracc=new CreatAccnt("iBanking");
            new AccntCreatCntrl(cracc).control();
            actrns.dispose();
        });
        actrns.getL1().addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent arg0) {
                AccntDetails ad=new AccntDetails("iBanking");
                new AccntDetailsCntrl(ad).control();
                actrns.dispose();
            }
        });
    }
}

```



```

        //account details
    }
});
actrns.getL2().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //deposit money
        AccountDeposit acdep=new AccountDeposit("iBanking");
        new AccntDepositCntrl(acdep, acdep).control();
        actrns.dispose();
    }
});
actrns.getL3().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //withdraw money
        AccountWithdraw acwt=new AccountWithdraw("iBanking");
        new AccntWithdrawCntrl(acwt, acwt).control();
        actrns.dispose();
    }
});
actrns.getL4().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //transfer money
        AccTransferMoney actfm=new AccTransferMoney("iBanking");
        new AccntTransferCntrl(actfm).control();
        actrns.dispose();
    }
});
actrns.getL5().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //see all account
        if(sha>0)
        {
            for(ka=0;ka<sha;ka++)
            {
                data2[ka][0]=Long.toString(dat.get(ka).getAccountid());
                data2[ka][1]=dat.get(ka).getUid();
                data2[ka][2]=dat.get(ka).getHoldername();
                data2[ka][3]=dat.get(ka).getType();
                data2[ka][4]=Double.toString(dat.get(ka).getBalance());
            }
            jtbl=new JTable(data2,head2);
            AccntTableView atbv=new AccntTableView("iBanking", jtbl);
            new AccntTableViewCntrl(atbv).control();
            atbv.getLbl().setText("Showing All The Accounts of This
Bank");
            actrns.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in This Bank");
        }
    }
});
actrns.getL6().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //log out
        SecndPage snd=new SecndPage("iBanking");
        new SndPgController(snd).control();
        actrns.dispose();
    }
}

```

```

});
actrns.getL7().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0)
    {
        //transction details
        AccntTrans act=new AccntTrans("iBanking");
        new AccTransCntrl(act).control();
        actrns.dispose();
    }
});
actrns.getL9().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //edit account
        AccntEdit aced=new AccntEdit("iBanking");
        new AccntEditCntrl(aced).control();
        actrns.dispose();
    }
});
actrns.getL10().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //delete account
        DeleteAccount del=new DeleteAccount("iBanking");
        new DelAccntCntrl(del, del).control();
        actrns.dispose();
    }
});

actrns.getBtnSrch().addActionListener((a)->{
    if(actrns.getTf().getText().trim().length()==0)
    {
        new ErrMsg("Please Enter Account No");
    }
    else
    {
        long accno=Long.parseLong(actrns.getTf().getText().trim());
        ArrayList<Savings_Account> acc=new ArrayList<Savings_Account>();
        try {
            acc=(ArrayList<Savings_Account>)AccountReaderWriter.read();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("There is a Problem While Reading from File");
        }
        for(int i=0;i<acc.size();i++)
        {
            if(acc.get(i).getAccountid()==accno)
            {
                ArrayList<Trans> trns=new ArrayList<Trans>();
                trns=acc.get(i).getTrn();
                int j=trns.size();
                String [][] data=new String[j][5];
                String [] head={"Type of
Transactions","Date","Time","Amount Dep./WtDrw.","Available Balance"};
                for(int k=0;k<j;k++)
                {
                    data[k][0]=trns.get(k).getType();
                    data[k][1]=trns.get(k).getDt();
                    data[k][2]=trns.get(k).getTi();
                    data[k][3]=Double.toString(trns.get(k).getAmt());
                    data[k][4]=Double.toString(trns.get(k).getBal());
                }
                JTable jt=new JTable(data,head);
            }
        }
    }
});

```

```

jt.getColumnModel().getColumn(0).setPreferredWidth(200);
    AccntTableView atv=new AccntTableView("iBanking", jt);
    new AccntTableViewCntrl(atv).control();
    actrns.dispose();
    atv.setVisible(true);
    if(acc.get(i).getType().equals("Savings Account"))
    {
        atv.getLbl().setText("Showing Transaction Details
of Savings Account:-"+acc.get(i).getAccountid());
    }
    else
    {
        atv.getLbl().setText("Showing Transaction Details
of Current Account:-"+acc.get(i).getAccountid());
        if(acc.get(i).getBalance()<0)
        {
            JOptionPane.showMessageDialog(null, "The
Balance Shows in Negative Fig. that amount is already OverDrafted",
"Information",JOptionPane.INFORMATION_MESSAGE);
        }
    }
    sh++;
    break;
}
}
if(sh==0)
{
    new ErrMsg("No Such Record Found");
}
});
actrns.getTf().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(KeyEvent a) {
        // TODO Auto-generated method stub
        char key=a.getKeyChar();

        if(!(Character.isDigit(key))||(key==KeyEvent.VK_BACK_SPACE)||(key==KeyEvent.VK_DELETE))
        {
            a.consume();
        }
    }
});
}
}
}

```

```

package bank.controller;
import java.awt.event.*;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import javax.swing.*.*;

import bank.view.*;
import bank.model.*;
import prj.*;
public class AccountantHomeContrl {
    private AccountantHome acthm;
    private JTable jtbl;
    private String [] head2={"AccountNo","AccountHolder's UID","AccountHolder's
Name","Account Type","Balance"};
    private String [][] data2;
    private int sha,ka;
    private AccntDetails ad;
    private ArrayList<Savings_Account> dat;
    public AccountantHomeContrl(AccountantHome acthm) {
        this.acthm = acthm;
        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Account Details");
        }
        sha=dat.size();
        data2=new String [sha][5];
    }
    public void control()
    {
        acthm.getB1().addActionListener((a)->{
            CreatAccnt cracc=new CreatAccnt("iBanking");
            new AccntCreatCntrl(cracc).control();
            acthm.dispose();
        });
        acthm.getL1().addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent arg0) {
                AccntDetails ad=new AccntDetails("iBanking");
                new AccntDetailsCntrl(ad).control();
                acthm.dispose();
                //account details
            }
        });
        acthm.getL2().addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent arg0) {
                //deposit money
                AccountDeposit acdep=new AccountDeposit("iBanking");
                new AccntDepositCntrl(acdep, acdep).control();
                acthm.dispose();
            }
        });
        acthm.getL3().addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent arg0) {
                //withdraw money
                AccountWithdraw acwt=new AccountWithdraw("iBanking");
                new AccntWithdrawCntrl(acwt,acwt).control();
            }
        });
    }
}

```

```

        acthm.dispose();
    }
});
acthm.getL4().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //transfer money
        AccTransferMoney actfm=new AccTransferMoney("iBanking");
        new AccntTransferCntrl(actfm).control();
        acthm.dispose();
    }
});
acthm.getL5().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //see all account
        if(sha>0)
        {
            for(ka=0;ka<sha;ka++)
            {
                data2[ka][0]=Long.toString(dat.get(ka).getAccountid());
                data2[ka][1]=dat.get(ka).getUid();
                data2[ka][2]=dat.get(ka).getHoldername();
                data2[ka][3]=dat.get(ka).getType();
                data2[ka][4]=Double.toString(dat.get(ka).getBalance());
            }
            jtbl=new JTable(data2,head2);
            AccntTableView atbv=new AccntTableView("iBanking", jtbl);
            new AccntTableViewCntrl(atbv).control();
            atbv.getLbl().setText("Showing All The Accounts of This
Bank");
            acthm.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in This Bank");
        }
    }
});
acthm.getL6().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //log out
        SecndPage snd=new SecndPage("iBanking");
        new SndPgController(snd).control();
        acthm.dispose();
    }
});
acthm.getL7().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0)
    {
        //transction details
        AccntTrans act=new AccntTrans("iBanking");
        new AccTransCntrl(act).control();
        acthm.dispose();
    }
});
acthm.getL9().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //edit account
        AccntEdit aced=new AccntEdit("iBanking");
        new AccntEditCntrl(aced).control();
        acthm.dispose();
    }
});

```

```

    }
});
acthm.getL10().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        //delete account
        DeleteAccount del=new DeleteAccount("iBanking");
        new DelAcntCntrl(del, del).control();
        acthm.dispose();
    }
});
}
}
}

```

```

package bank.controller;

import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;
import java.util.ArrayList;


import javax.swing.JOptionPane;


import prj.AccountReaderWriter;
import bank.model.*;
import bank.view.*;

public class AccntWithdrawCntrl extends AccntDetailsCntrl
{
    private AccountWithdraw acdp;
    private int sh=0,i;
    private ArrayList<Savings_Account> acc;
    public AccntWithdrawCntrl(AccntDetails acdt,
        AccountWithdraw acdp) {
        super(acdt);
        this.acdp = acdp;
        try {
            acc=(ArrayList<Savings_Account>)AccountReaderWriter.read();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("There is a Problem While Reading from File");
        }
    }
    public void control()
    {
        super.control();
        acdp.getBtnWithdraw().addActionListener((a)->{
            if(acdp.getTfAccId().getText().trim().length()==0)
            {
                new ErrMsg("Please Enter The Account No");
            }
            else if(acdp.getTfWithdAmt().getText().trim().length()==0)
            {
                new ErrMsg("Please Enter The Amount");
            }
            else
            {
                long accno=Long.parseLong(acdp.getTfAccId().getText().trim());

```





```

package bank.controller;

import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import javax.swing.JOptionPane;

import javax.swing.JTable;

import prj.AccountReaderWriter;
import prj.CustomerReaderWriter;
import prj.TempReaderWriter;
import bank.model.Customer;
import bank.model.Savings_Account;
import bank.view.*;

public class UstrTransfrMnyCntrl {
    private UserTransferMn utfm;

    private JTable jtb;
    private String matchUid;
    private String [] head2={"AccountNo","Account Holder's UID","Account Holder's
Name","Account Type","Balance"};
    private String [][] data2;
    private String [] data;
    private int sha=0,ka,cntfr1=0,cntfr2=0;
    private ArrayList<Savings_Account> dat;
    private ArrayList<Customer> cus;

    private ArrayList<Savings_Account> accs=new ArrayList<Savings_Account>();
    private int cnt=0,cnt1=0;
    public UstrTransfrMnyCntrl(UserTransferMn utfm) {
        this.utfm = utfm;

        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Account Details");
        }
        try {
            matchUid=TempReaderWriter.read();
            matchUid=matchUid.trim();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Customer Details");
        }
        for(int h=0;h<dat.size();h++)
        {
            if(dat.get(h).getUid().equals(matchUid))
            {

```

```

        sha++;
    }
}
data=new String[sha];
for(int h=0;h<dat.size();h++)
{
    if(dat.get(h).getUid().equals(matchUid))
    {
        data[cntfr1]=Long.toString(dat.get(h).getAccountid());
        cntfr1++;
    }
}
data2=new String[sha][5];
try {
    cus=CustomerReaderWriter.read();
} catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    new ErrMsg("File Not Found in Location");
} catch (IOException e) {
    // TODO Auto-generated catch block
    new ErrMsg("Error Occured While Reading Customer Details");
}

try {
    accs=AccountReaderWriter.read();
} catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    new ErrMsg("The File not Found in Location");
} catch (IOException e) {
    // TODO Auto-generated catch block
    new ErrMsg("There are some problem with the Reading of the File");
}
}
public void control()
{
    utfm.getB1().addActionListener((a)->{
        });
    utfm.getL1().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub
            //Account Data
            if(sha>0)
            {
                UsrcntData uad=new UsrcntData("iBanking", data);
                new UsrcntDataCntrl(uad).control();
                utfm.dispose();
            }
            else
            {
                new ErrMsg("Sorry There is No Account in Opened for this
User");
            }
        }
    });
    utfm.getL3().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub
            UserChangePasswrdrd ucp=new UserChangePasswrdrd("iBanking");
            new UserChangePassCntrl(ucp).control();
            utfm.dispose();
        }
    });
}

```

```

    }
});
utfm.getL2().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //See All Account
        if(sha>0)
        {
            for(ka=0;ka<dat.size();ka++)
            {
                if(dat.get(ka).getUid().equals(matchUid))
                {

data2[cntfr2][0]=Long.toString(dat.get(ka).getAccountid());
                data2[cntfr2][1]=dat.get(ka).getUid();
                data2[cntfr2][2]=dat.get(ka).getHoldername();
                data2[cntfr2][3]=dat.get(ka).getType();

data2[cntfr2][4]=Double.toString(dat.get(ka).getBalance());
                cntfr2++;
            }
        }
        jtb=new JTable(data2,head2);
        UserTabl atbv=new UserTabl("iBanking", jtb);
        new UserTableCntrl(atbv).control();
        atbv.getLbl().setText("Showing All The Accounts of This
User");
        utfm.dispose();
    }
    else
    {
        new ErrMsg("Sorry There is No Account in Opened for this
User");
    }
}
});
utfm.getL4().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Transfer Money
        if(sha>0)
        {
            UserTransferMn utfm=new UserTransferMn("iBanking", data);
            new UstrTransfrMnyCntrl(utfm).control();
            utfm.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
}
});
utfm.getL7().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Transaction Details
        if(sha>0)
        {
            UstrTransctnDetls utsd=new UstrTransctnDetls("iBanking", data);
            new UstrTransctnCntrl(utsd).control();
            utfm.dispose();
        }
    }
}
});

```

```

        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});
utfm.getL9().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Edit Your Details
        UserEditDetails usedd=new UserEditDetails("iBanking");
        new UsrEditCntrl(usedd).control();
        for(int u=0;u<cus.size();u++)
        {
            if(cus.get(u).getUid().equals(matchUid))
            {
                usedd.getLblUid().setText(cus.get(u).getUid());
                usedd.getLblGender().setText(cus.get(u).getGender());
                usedd.getTfAddres().setText(cus.get(u).getAddress());
                usedd.getTfDob().setText(cus.get(u).getDob());
                usedd.getTfEmail().setText(cus.get(u).getEmailid());
                usedd.getTfName().setText(cus.get(u).getName());
                usedd.getTfPhno().setText(cus.get(u).getPhno());
                usedd.getTfPin().setText(cus.get(u).getPinno());
            }
        }
        utfm.dispose();
    }
});
utfm.getL6().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Log Out
        SecndPage snd=new SecndPage("iBanking");
        new SndPgController(snd).control();
        utfm.dispose();
    }
});

utfm.getTf1().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(KeyEvent a) {
        // TODO Auto-generated method stub
        char key=a.getKeyChar();

        if(!(Character.isDigit(key))|| (key==KeyEvent.VK_BACK_SPACE)|| (key==KeyEvent.VK_DELETE))
        {
            a.consume();
        }
    }
});
utfm.getBtnTransf().addActionListener((a)->{
    if(utfm.getTf1().getText().trim().length()==0)
    {
        new WarMsg("Please Enter The Reciever's Account No:-");
    }
    else
    {
        long ano1=Long.parseLong(utfm.getTf1().getText().trim());
        for(int i=0;i<accs.size();i++)

```

```

        {
            if(accs.get(i).getAccountid()==ano1)
            {
                cnt1++;
                long
ano=Long.parseLong(utfm.getJcb().getSelectedItem().toString().trim());
                for(int j=0;j<accs.size();j++)
                {
                    if(accs.get(j).getAccountid()==ano)
                    {
                        double
amt=Double.parseDouble(utfm.getTf3().getText().trim());
                        if(accs.get(j).getType().equals("Savings
Account"))
                        {
                            try {

                                accs.get(j).acctrnsfer(accs.get(i), amt);

                                JOptionPane.showMessageDialog(null, "The Balance Successfully Transferred",
                                "Information",JOptionPane.INFORMATION_MESSAGE);
                                } catch (Exception e) {
                                    // TODO Auto-generated catch
                                    new ErrMsg("Insufficient
                                    Balance in Your's Account");
                                }
                            }
                            else
                            {
                                try {

                                    accs.get(j).curAcctrnsfer(accs.get(i), amt);

                                    JOptionPane.showMessageDialog(null, "The Balance Successfully Transferred",
                                    "Information",JOptionPane.INFORMATION_MESSAGE);
                                    } catch (Exception e) {
                                        // TODO Auto-generated catch
                                        new ErrMsg("Insufficient
                                        Balance in Sender's Account");
                                    }
                                }
                                cnt++;
                            }
                        }
                    }
                    if(cnt==0)
                    {
                        new ErrMsg("The Sender's Account No is not
Valid");
                    }
                }
            }
            if(cnt1==0)
            {
                new ErrMsg("The Reciever's Account No is not Valid");
            }
            try {
                AccountReaderWriter.writer(accs);
            } catch (Exception e) {
                // TODO Auto-generated catch block
                new ErrMsg("Can't Transfer The Amount");
            }
        }
    }

```

});

}

}

```

package bank.controller;

import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import javax.swing.JOptionPane;
import javax.swing.JTable;

import prj.AccountReaderWriter;
import prj.CustomerReaderWriter;
import prj.TempReaderWriter;
import bank.model.Customer;
import bank.model.Savings_Account;
import bank.model.Trans;
import bank.view.AccntTableView;
import bank.view.ErrMsg;
import bank.view.SecndPage;
import bank.view.UserChangePasswr;
import bank.view.UserEditDetails;
import bank.view.UserHome;
import bank.view.UserTabl;
import bank.view.UserTransferMn;
import bank.view.UsrAccntData;
import bank.view.UsrTransctnDetls;

public class UsrTransctnCntrl{
    private UsrTransctnDetls ustd;

    private JTable jtb;
    private String matchUid;
    private String [] head2={"AccountNo","Account Holder's UID","Account Holder's
Name","Account Type","Balance"};
    private String [][] data2;
    private String [] data;
    private int sha=0,ka,cntfr1=0,cntfr2=0;
    private ArrayList<Savings_Account> dat;
    private ArrayList<Customer> cus;

    private int sh=0;
    public UsrTransctnCntrl(UsrTransctnDetls ustd) {

        this.ustsd = ustd;

        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Account Details");
        }
        try {
            matchUid=TempReaderWriter.read();
            matchUid=matchUid.trim();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Customer Details");
        }
        for(int h=0;h<dat.size();h++)

```

```

{
    if(dat.get(h).getUid().equals(matchUid))
    {
        sha++;
    }
}
data=new String[sha];
for(int h=0;h<dat.size();h++)
{
    if(dat.get(h).getUid().equals(matchUid))
    {
        data[cntfr1]=Long.toString(dat.get(h).getAccountid());
        cntfr1++;
    }
}
data2=new String[sha][5];
try {
    cus=CustomerReaderWriter.read();
} catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    new ErrMsg("File Not Found in Location");
} catch (IOException e) {
    // TODO Auto-generated catch block
    new ErrMsg("Error Occured While Reading Customer Details");
}
}
public void control()
{

```

```

ustsd.getB1().addActionListener((a)->{

```

```

});
ustsd.getL1().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Account Data
        if(sha>0)
        {
            UsrcntData uad=new UsrcntData("iBanking", data);
            new UsrcntDataCntrl(uad).control();
            ustsd.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});
ustsd.getL3().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        UserChangePasswr ucp=new UserChangePasswr("iBanking");
        new UserChangePassCntrl(ucp).control();
        ustsd.dispose();
    }
});
ustsd.getL2().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub

```



```

        //See All Account
        if (sha > 0)
        {
            for (ka = 0; ka < dat.size(); ka++)
            {
                if (dat.get(ka).getUid().equals(matchUid))
                {
                    data2[cntfr2][0] = Long.toString(dat.get(ka).getAccountid());
                    data2[cntfr2][1] = dat.get(ka).getUid();
                    data2[cntfr2][2] = dat.get(ka).getHoldername();
                    data2[cntfr2][3] = dat.get(ka).getType();

                    data2[cntfr2][4] = Double.toString(dat.get(ka).getBalance());
                    cntfr2++;
                }
            }
            jtb = new JTable(data2, head2);
            UserTabl atbv = new UserTabl("iBanking", jtb);
            new UserTableCntrl(atbv).control();
            atbv.getLabel().setText("Showing All The Accounts of This
User");

            ustsd.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});
ustsd.getL4().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Transfer Money
        if (sha > 0)
        {
            UserTransferMn utfm = new UserTransferMn("iBanking", data);
            new UserTransfrMnyCntrl(utfm).control();
            ustsd.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});
ustsd.getL7().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Transaction Details
        if (sha > 0)
        {
            UserTransctnDetls utsd = new UserTransctnDetls("iBanking", data);
            new UserTransctnCntrl(ustd).control();
            ustsd.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});

```

```

    }
});
ustsd.getL9().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Edit Your Details
        UserEditDetails usedd=new UserEditDetails("iBanking");
        new UsrEditCntrl(usedd).control();
        for(int u=0;u<cus.size();u++)
        {
            if(cus.get(u).getUid().equals(matchUid))
            {
                usedd.getLblUid().setText(cus.get(u).getUid());
                usedd.getLblGender().setText(cus.get(u).getGender());
                usedd.getTfAddres().setText(cus.get(u).getAddress());
                usedd.getTfDob().setText(cus.get(u).getDob());
                usedd.getTfEmail().setText(cus.get(u).getEmailid());
                usedd.getTfName().setText(cus.get(u).getName());
                usedd.getTfPhno().setText(cus.get(u).getPhno());
                usedd.getTfPin().setText(cus.get(u).getPinno());
            }
        }
        ustd.dispose();
    }
});
ustsd.getL6().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Log Out
        SecndPage snd=new SecndPage("iBanking");
        new SndPgController(snd).control();
        ustd.dispose();
    }
});

ustsd.getBtnTransctn().addActionListener((a)->{
    if(ustsd.getJcmacc().getSelectedItem().toString().trim().length()==0)
    {
        new ErrMsg("Please Enter Account No");
    }
    else
    {
        long
accno=Long.parseLong(ustsd.getJcmacc().getSelectedItem().toString().trim());
        ArrayList<Savings_Account> acc=new ArrayList<Savings_Account>();
        try {
            acc=(ArrayList<Savings_Account>)AccountReaderWriter.read();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("There is a Problem While Reading from File");
        }
        for(int i=0;i<acc.size();i++)
        {
            if(acc.get(i).getAccountid()==accno)
            {
                ArrayList<Trans> trns=new ArrayList<Trans>();
                trns=acc.get(i).getTrn();
                int j=trns.size();
                String [][] data=new String[j][5];
                String [] head={"Type of
Transactions","Date","Time","Amount Dep./WtDrw.","Available Balance"};
                for(int k=0;k<j;k++)

```

```

        {
            data[k][0]=trns.get(k).getType();
            data[k][1]=trns.get(k).getDt();
            data[k][2]=trns.get(k).getTi();
            data[k][3]=Double.toString(trns.get(k).getBal());
            data[k][4]=Double.toString(trns.get(k).getBal());
        }
        JTable jt=new JTable(data,head);

        jt.getColumnModel().getColumn(0).setPreferredWidth(200);
        UserTabl atv=new UserTabl("iBanking", jt);
        new UserTableCntrl(atv).control();
        ustd.dispose();
        atv.setVisible(true);
        if(acc.get(i).getType().equals("Savings Account"))
        {
            atv.getLbl().setText("Showing Transaction Details
of Savings Account:-"+acc.get(i).getAccountid());
        }
        else
        {
            atv.getLbl().setText("Showing Transaction Details
of Current Account:-"+acc.get(i).getAccountid());
            if(acc.get(i).getBalance()<0)
            {
                JOptionPane.showMessageDialog(null, "The
Balance Shows in Negetive Fig. that amount is already OverDrafted",
"Information",JOptionPane.INFORMATION_MESSAGE);
            }
        }
        sh++;
        break;
    }
}
if(sh==0)
{
    new ErrMsg("No Such Record Found");
}
}
});
}
}

```

```

package bank.controller;

import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import javax.swing.JTable;

import prj.*;
import bank.model.*;
import bank.view.*;

public class UsrEditCntrl {
    private UserEditDetails usedd;

    private JTable jtb;
    private String matchUid;
    private String [] head2={"AccountNo","Account Holder's UID","Account Holder's
Name","Account Type","Balance"};
    private String [][] data2;
    private String [] data;
    private int sha=0,ka,cntfr1=0,cntfr2=0;
    private ArrayList<Savings_Account> dat;
    private ArrayList<Customer> cus2;

    private ArrayList<Customer> cus;
    private String mthuid;
    public UsrEditCntrl( UserEditDetails usedd) {

        this.usedd = usedd;

        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Account Details");
        }
        try {
            matchUid=TempReaderWriter.read();
            matchUid=matchUid.trim();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Customer Details");
        }
        for(int h=0;h<dat.size();h++)
        {
            if(dat.get(h).getUid().equals(matchUid))
            {
                sha++;
            }
        }
    }
}

```

```

    }
}
data=new String[sha];
for(int h=0;h<dat.size();h++)
{
    if(dat.get(h).getUid().equals(matchUid))
    {
        data[cntfr1]=Long.toString(dat.get(h).getAccountid());
        cntfr1++;
    }
}
data2=new String[sha][5];
try {
    cus=CustomerReaderWriter.read();
} catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    new ErrMsg("File Not Found in Location");
} catch (IOException e) {
    // TODO Auto-generated catch block
    new ErrMsg("Error Occured While Reading Customer Details");
}

try {
    cus2=CustomerReaderWriter.read();
} catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    new ErrMsg("File Not Found in Location");
} catch (IOException e) {
    // TODO Auto-generated catch block
    new ErrMsg("There Some Error Ouccred while Reading from File");
}

try {
    mthuid=TempReaderWriter.read();
} catch (Exception e) {
    // TODO Auto-generated catch block
    new ErrMsg("There Some Error Ouccred while Reading from File");
}
}
public void control()
{
    usedd.getTfName().addKeyListener(new KeyAdapter() {
        @Override
        public void keyTyped(KeyEvent a) {
            // TODO Auto-generated method stub
            char key=a.getKeyChar();

            if(!(Character.isLetter(key))||(key==KeyEvent.VK_BACK_SPACE)||(key==KeyEvent.VK_SPACE)||
            a.getKeyCode()==KeyEvent.VK_SPACE))
            {
                a.consume();
            }
        }
    });
    usedd.getB1().addActionListener((a)->{

    });
    usedd.getL1().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub
            //Account Data
            if(sha>0)
            {
                UsrcAcntData uad=new UsrcAcntData("iBanking", data);
            }
        }
    });
}

```

```

        new UstrAcntDataCntrl(uad).control();
        usedd.dispose();
    }
    else
    {
        new ErrMsg("Sorry There is No Account in Opened for this
User");
    }
}
});
usedd.getL3().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
// TODO Auto-generated method stub
UserChangePasswrld ucp=new UserChangePasswrld("iBanking");
new UserChangePassCntrl(ucp).control();
usedd.dispose();
}
});
usedd.getL2().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
// TODO Auto-generated method stub
//See All Account
if(sha>0)
{
    for(ka=0;ka<dat.size();ka++)
    {
        if(dat.get(ka).getUid().equals(matchUid))
        {
            data2[cntfr2][0]=Long.toString(dat.get(ka).getAccountid());
            data2[cntfr2][1]=dat.get(ka).getUid();
            data2[cntfr2][2]=dat.get(ka).getHoldername();
            data2[cntfr2][3]=dat.get(ka).getType();

            data2[cntfr2][4]=Double.toString(dat.get(ka).getBalance());
            cntfr2++;
        }
    }
    jtb=new JTable(data2,head2);
    UserTabl atbv=new UserTabl("iBanking", jtb);
    new UserTableCntrl(atbv).control();
    atbv.getLbl().setText("Showing All The Accounts of This
User");
    usedd.dispose();
}
else
{
    new ErrMsg("Sorry There is No Account in Opened for this
User");
}
}
});
usedd.getL4().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
// TODO Auto-generated method stub
//Transfer Money
if(sha>0)
{
    UserTransferMn utfm=new UserTransferMn("iBanking", data);
    new UstrTransfrMnyCntrl(utfm).control();
    usedd.dispose();
}
}
});

```

```

        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});
usedd.getL7().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Transaction Details
        if(sha>0)
        {
            UsrTransctnDetls utsd=new UsrTransctnDetls("iBanking", data);
            new UsrTransctnCntrl(utsd).control();
            usedd.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});
usedd.getL9().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Edit Your Details
        UserEditDetails usedd=new UserEditDetails("iBanking");
        new UsrEditCntrl(usedd).control();
        for(int u=0;u<cus.size();u++)
        {
            if(cus.get(u).getUid().equals(matchUid))
            {
                usedd.getLblUid().setText(cus.get(u).getUid());
                usedd.getLblGender().setText(cus.get(u).getGender());
                usedd.getTfAddres().setText(cus.get(u).getAddress());
                usedd.getTfDob().setText(cus.get(u).getDob());
                usedd.getTfEmail().setText(cus.get(u).getEmailid());
                usedd.getTfName().setText(cus.get(u).getName());
                usedd.getTfPhno().setText(cus.get(u).getPhno());
                usedd.getTfPin().setText(cus.get(u).getPinno());
            }
        }
        usedd.dispose();
    }
});
usedd.getL6().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Log Out
        SecndPage snd=new SecndPage("iBanking");
        new SndPgController(snd).control();
        usedd.dispose();
    }
});

usedd.getTfPhno().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(KeyEvent a) {

```

```

        // TODO Auto-generated method stub
        char key=a.getKeyChar();

        if(!(Character.isDigit(key))||(key==KeyEvent.VK_BACK_SPACE)||(key==KeyEvent.VK_DELETE))
        {
            a.consume();
        }
    }
});
usedd.getTfPin().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(KeyEvent a) {
        // TODO Auto-generated method stub
        char key=a.getKeyChar();

        if(!(Character.isDigit(key))||(key==KeyEvent.VK_BACK_SPACE)||(key==KeyEvent.VK_DELETE))
        {
            a.consume();
        }
    }
});
usedd.getBtnDone().addActionListener((a)->{
    for(int u=0;u<cus2.size();u++)
    {
        if(cus2.get(u).getUid().equals(mthuid))
        {
            cus2.get(u).setAddress(usedd.getTfAddres().getText().trim());
            cus2.get(u).setDob(usedd.getTfDob().getText().trim());
            cus2.get(u).setEmailid(usedd.getTfEmail().getText().trim());
            cus2.get(u).setName(usedd.getTfName().getText().trim());
            cus2.get(u).setPhno(usedd.getTfPhno().getText().trim());
            cus2.get(u).setPinno(usedd.getTfPin().getText().trim());
        }
    }
    try {
        CustomerReaderWriter.write(cus2);
    } catch (Exception e) {
        // TODO Auto-generated catch block
        new ErrMsg("Some Error Occured While Updating your Details");
    }
});
}
}
}

```



```

package bank.controller;

import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import javax.swing.JTable;

import prj.*;
import bank.model.*;
import bank.view.*;

public class UsrAcntDataCntrl
{
    private UsrAcntData uad;

    private JTable jtb;
    private String matchUid;
    private String [] head2={"AccountNo","Account Holder's UID","Account Holder's
Name","Account Type","Balance"};
    private String [][] data2;
    private String [] data;
    private int sha=0,ka,cntfr1=0,cntfr2=0;
    private ArrayList<Savings_Account> dat;
    private ArrayList<Customer> cus;

    private ArrayList<Savings_Account> sav=new ArrayList<Savings_Account>();
    private long ac;
    private int cnt=0;
    public UsrAcntDataCntrl(UsrAcntData uad) {
        this.uad = uad;

        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Account Details");
        }
        try {
            matchUid=TempReaderWriter.read();
            matchUid=matchUid.trim();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Customer Details");
        }
        for(int h=0;h<dat.size();h++)
        {
            if(dat.get(h).getUid().equals(matchUid))
            {
                sha++;
            }
        }
        data=new String[sha];
        for(int h=0;h<dat.size();h++)
        {

```

```

        if(dat.get(h).getUid().equals(matchUid))
        {
            data[cntfr1]=Long.toString(dat.get(h).getAccountid());
            cntfr1++;
        }
    }
    data2=new String[sha][5];
    try {
        cus=CustomerReaderWriter.read();
    } catch (FileNotFoundException e) {
        // TODO Auto-generated catch block
        new ErrMsg("File Not Found in Location");
    } catch (IOException e) {
        // TODO Auto-generated catch block
        new ErrMsg("Error Occured While Reading Customer Details");
    }

    try {
        sav=AccountReaderWriter.read();
    } catch (FileNotFoundException e) {
        // TODO Auto-generated catch block
        new ErrMsg("The File is Not Present in Location");
    } catch (IOException e) {
        // TODO Auto-generated catch block
        new ErrMsg("There is some Problem Occured while Reading data from File");
    }
}
public void control()
{
    uad.getB1().addActionListener((a)->{

    });
    uad.getL3().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub
            UserChangePasswrld ucp=new UserChangePasswrld("iBanking");
            new UserChangePassCntrl(ucp).control();
            uad.dispose();
        }
    });

    uad.getL1().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub
            //Account Data
            if(sha>0)
            {
                UsrcntData uad=new UsrcntData("iBanking", data);
                new UsrcntDataCntrl(uad).control();
                uad.dispose();
            }
            else
            {
                new ErrMsg("Sorry There is No Account in Opened for this
User");
            }
        }
    });
    uad.getL2().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub

```

```

        //See All Account
        if (sha > 0)
        {
            for (ka = 0; ka < dat.size(); ka++)
            {
                if (dat.get(ka).getUid().equals(matchUid))
                {
                    data2[cntfr2][0] = Long.toString(dat.get(ka).getAccountid());
                    data2[cntfr2][1] = dat.get(ka).getUid();
                    data2[cntfr2][2] = dat.get(ka).getHoldername();
                    data2[cntfr2][3] = dat.get(ka).getType();

                    data2[cntfr2][4] = Double.toString(dat.get(ka).getBalance());
                    cntfr2++;
                }
            }
            jtb = new JTable(data2, head2);
            UserTabl atbv = new UserTabl("iBanking", jtb);
            new UserTableCntrl(atbv).control();
            atbv.getLabel().setText("Showing All The Accounts of This
User");

            uad.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});
uad.getL4().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Transfer Money
        if (sha > 0)
        {
            UserTransferMn utfm = new UserTransferMn("iBanking", data);
            new UserTransfrMnyCntrl(utfm).control();
            uad.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});
uad.getL7().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Transaction Details
        if (sha > 0)
        {
            UserTransctnDetls utsd = new UserTransctnDetls("iBanking", data);
            new UserTransctnCntrl(utsd).control();
            uad.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});

```

```

    }
});
uad.getL9().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Edit Your Details
        UserEditDetails usedd=new UserEditDetails("iBanking");
        new UsrEditCntrl(usedd).control();
        for(int u=0;u<cus.size();u++)
        {
            if(cus.get(u).getUid().equals(matchUid))
            {
                usedd.getLblUid().setText(cus.get(u).getUid());
                usedd.getLblGender().setText(cus.get(u).getGender());
                usedd.getTfAddres().setText(cus.get(u).getAddress());
                usedd.getTfDob().setText(cus.get(u).getDob());
                usedd.getTfEmail().setText(cus.get(u).getEmailid());
                usedd.getTfName().setText(cus.get(u).getName());
                usedd.getTfPhno().setText(cus.get(u).getPhno());
                usedd.getTfPin().setText(cus.get(u).getPinno());
            }
        }
        uad.dispose();
    }
});
uad.getL6().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Log Out
        SecndPage snd=new SecndPage("iBanking");
        new SndPgController(snd).control();
        uad.dispose();
    }
});

uad.getJcmb().addActionListener((a)->{
    ac=Long.parseLong(uad.getJcmb().getSelectedItem().toString());
    for(int i=0;i<sav.size();i++)
    {
        if(sav.get(i).getAccountid()==ac)
        {
            uad.getLblHolUid().setText(sav.get(i).getUid());
            uad.getLblHolderNm().setText(sav.get(i).getHoldername());
            uad.getLblType().setText(sav.get(i).getType());

            uad.getLblBal().setText(Double.toString(sav.get(i).getBalance()));

            uad.getLblMinBal().setText(Double.toString(sav.get(i).getMinimum_amount()));
            cnt++;
        }
    }
    if(cnt==0)
    {
        new ErrMsg("There is No Such Account");
    }
});
}
}

```

```

package bank.controller;

import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import javax.swing.JTable;

import prj.AccountReaderWriter;
import prj.CustomerReaderWriter;
import prj.TempReaderWriter;
import bank.model.Customer;
import bank.model.Savings_Account;
import bank.view.*;

public class UserTableCntrl
{
    private UserTabl utb;

    private JTable jtb;
    private String matchUid;
    private String [] head2={"AccountNo","Account Holder's UID","Account Holder's
Name","Account Type","Balance"};
    private String [][] data2;
    private String [] data;
    private int sha=0,ka,cntfr1=0,cntfr2=0;
    private ArrayList<Savings_Account> dat;
    private ArrayList<Customer> cus;

    public UserTableCntrl(UserTabl utb) {
        this.utb = utb;

        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Account Details");
        }
        try {
            matchUid=TempReaderWriter.read();
            matchUid=matchUid.trim();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Customer Details");
        }
        for(int h=0;h<dat.size();h++)
        {
            if(dat.get(h).getUid().equals(matchUid))
            {
                sha++;
            }
        }
        data=new String[sha];
        for(int h=0;h<dat.size();h++)
        {
            if(dat.get(h).getUid().equals(matchUid))
            {
                data[cntfr1]=Long.toString(dat.get(h).getAccountid());
                cntfr1++;
            }
        }
    }
}

```

```

    }
    data2=new String[sha][5];
    try {
        cus=CustomerReaderWriter.read();
    } catch (FileNotFoundException e) {
        // TODO Auto-generated catch block
        new ErrMsg("File Not Found in Location");
    } catch (IOException e) {
        // TODO Auto-generated catch block
        new ErrMsg("Error Occured While Reading Customer Details");
    }
}

}

public void control()
{

    utb.getB1().addActionListener((a)->{

    });
    utb.getL3().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub
            UserChangePasswrđ ucp=new UserChangePasswrđ("iBanking");
            new UserChangePassCntrl(ucp).control();
            utb.dispose();
        }
    });
    utb.getL1().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub
            //Account Data
            if(sha>0)
            {
                UstrAcntData uad=new UstrAcntData("iBanking", data);
                new UstrAcntDataCntrl(uad).control();
                utb.dispose();
            }
            else
            {
                new ErrMsg("Sorry There is No Account in Opened for this
User");
            }
        }
    });
    utb.getL2().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub
            //See All Account
            if(sha>0)
            {
                for(ka=0;ka<dat.size();ka++)
                {
                    if(dat.get(ka).getUId().equals(matchUId))
                    {

data2[cntfr2][0]=Long.toString(dat.get(ka).getAccountid());
                        data2[cntfr2][1]=dat.get(ka).getUId();
                        data2[cntfr2][2]=dat.get(ka).getHoldername();
                        data2[cntfr2][3]=dat.get(ka).getType();

data2[cntfr2][4]=Double.toString(dat.get(ka).getBalance());
                        cntfr2++;
                    }
                }
            }
        }
    });
}

```

```

        }
    }
    jtb=new JTable(data2,head2);
    UserTabl atbv=new UserTabl("iBanking", jtb);
    new UserTableCntrl(atbv).control();
    atbv.getLbl().setText("Showing All The Accounts of This
User");

    utb.dispose();
}
else
{
    new ErrMsg("Sorry There is No Account in Opened for this
User");
}
}
});
utb.getL4().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
// TODO Auto-generated method stub
//Transfer Money
if(sha>0)
{
    UserTransferMn utfm=new UserTransferMn("iBanking", data);
    new UstrTransfrMnyCntrl(utfm).control();
    utb.dispose();
}
else
{
    new ErrMsg("Sorry There is No Account in Opened for this
User");
}
}
});
utb.getL7().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
// TODO Auto-generated method stub
//Transaction Details
if(sha>0)
{
    UstrTransctnDetls utsd=new UstrTransctnDetls("iBanking", data);
    new UstrTransctnCntrl(utsd).control();
    utb.dispose();
}
else
{
    new ErrMsg("Sorry There is No Account in Opened for this
User");
}
}
});
utb.getL9().addMouseListener(new MouseAdapter() {
@Override
public void mouseClicked(MouseEvent arg0) {
// TODO Auto-generated method stub
//Edit Your Details
UserEditDetails usedd=new UserEditDetails("iBanking");
new UstrEditCntrl(usedd).control();
for(int u=0;u<cus.size();u++)
{
    if(cus.get(u).getUid().equals(matchUid))
    {
        usedd.getLblUid().setText(cus.get(u).getUid());
        usedd.getLblGender().setText(cus.get(u).getGender());
    }
}
}
});

```

```

        usedd.getTfAddres().setText(cus.get(u).getAddress());
        usedd.getTfDob().setText(cus.get(u).getDob());
        usedd.getTfEmail().setText(cus.get(u).getEmailid());
        usedd.getTfName().setText(cus.get(u).getName());
        usedd.getTfPhno().setText(cus.get(u).getPhno());
        usedd.getTfPin().setText(cus.get(u).getPinno());
    }
}
utb.dispose();
}
});
utb.getL6().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Log Out
        SecndPage snd=new SecndPage("iBanking");
        new SndPgController(snd).control();
        utb.dispose();
    }
});
}
}
}

```



```
package bank.controller;
```

```
import java.awt.BorderLayout;  
import java.awt.Graphics;  
import java.awt.Image;  
import java.awt.SecondaryLoop;
```

```
import java.awt.Toolkit;  
import java.awt.event.KeyAdapter;  
import java.awt.event.KeyEvent;  
import java.io.FileNotFoundException;  
import java.io.IOException;  
import java.util.ArrayList;
```

```
import javax.swing.ButtonModel;
```

```
import javax.swing.JPanel;
```

```
import prj.CustomerReaderWriter;
```

```

import bank.model.Customer;
import bank.view.*;

public class UserRegCntrl{
    private UserReg ur;
    private ArrayList<Customer> cus;
    public UserRegCntrl(UserReg ur) {
        this.ur = ur;
        try {
            cus=CustomerReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found In Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Some Error Occured While Reading From File");
        }
    }
    public void control()
    {
        ur.getBtnBack().addActionListener((a)->{
            SecndPage scn=new SecndPage("iBanking");
            new SndPgController(scn).control();
            ur.dispose();
        });
        ur.getBtnBack2().addActionListener((a)->{
            SecndPage scn=new SecndPage("iBanking");
            new SndPgController(scn).control();
            ur.dispose();
        });
        ur.getBtnRefs().addActionListener((a)->{
            clear();
        });
        ur.getBtnPrs().addActionListener((a)->{
            if(ur.getTf1().getText().trim().length()==0)
            {
                new WarMsg("Please Enter Your Name");
            }
            else if(ur.getTa1().getText().trim().length()==0)
            {
                new WarMsg("Please Enter Your Address");
            }
            else if(ur.getTf2().getText().trim().length()==0)
            {
                new WarMsg("Please Enter Your Pin No");
            }
            else if(ur.getTf3().getText().trim().length()==0)
            {
                new WarMsg("Please Enter Your Email Address");
            }
            else if(ur.getTf4().getText().trim().length()==0)
            {
                new WarMsg("Please Enter Your Phone No.");
            }

            else if(ur.getTf3().getText().trim().matches("[a-zA-Z0-9][\\w.]*@\\w+\\. [a-z]+\\.?[a-z]{2,}?"))
            {
                ur.getBtnRegister().setEnabled(true);
                ur.getBtnBack2().setEnabled(true);
                ur.getPswrd().setEditable(true);
                ur.getCnfpswrd().setEditable(true);
                ur.getTa1().setEditable(false);
                ur.getTf1().setEditable(false);
                ur.getTf2().setEditable(false);
            }
        });
    }
}

```

```

        ur.getTf3().setEditable(false);
        ur.getTf4().setEditable(false);
        ur.getBtnBack().setEnabled(false);
        ur.getBtnPrs().setEnabled(false);
        ur.getBtnRefrs().setEnabled(false);
        String name=ur.getTf1().getText().trim();
        String phno=ur.getTf4().getText().trim();
        String email=ur.getTf3().getText().trim();
        String pin=ur.getTf2().getText().trim();
        int r=phno.length();
        String UID=name.substring(0, 2)+phno.substring(r-
2,r)+email.substring(0,2)+pin.substring(0, 2);
        ur.getLbluid().setText(UID);
    }
    else
    {
        new ErrMsg("Your Email Id Is Not Valid");
    }
});
ur.getBtnRegister().addActionListener((a)->{

    if(new String(ur.getPswrd().getPassword()).trim().length()==0)
    {
        new WarMsg("Please Enter PassWord");
    }
    else if(new String(ur.getCnfpswrd().getPassword()).trim().length()==0)
    {
        new WarMsg("Please Confirm Your Password");
    }
    else if(new String(ur.getPswrd().getPassword()).trim().equals(new
String(ur.getCnfpswrd().getPassword()).trim())==false)
    {
        new WarMsg("You Have Entered Different Password in Cofirm
Password");
    }
    else if(new
String(ur.getPswrd().getPassword()).trim().matches("((?=.*\\d)(?=.*[a-z])(?=.*[A-
Z])(?=.*[@#$%&!])?.{6,20})")==true)
    {
        String name=ur.getTf1().getText().trim();
        String address=ur.getTa1().getText().trim();
        String pin=ur.getTf2().getText().trim();
        String email=ur.getTf3().getText().trim();
        String phno=ur.getTf4().getText().trim();
        String dob=ur.getJdt().getSelectedItem().toString()+"-
"+ur.getJmn().getSelectedItem().toString()+"-"+ur.getJyr().getSelectedItem().toString();
        String gen=ur.getBgrp().getSelection().getActionCommand();
        String UID=ur.getLbluid().getText().trim();
        String Pass=new String(ur.getPswrd().getPassword()).trim();
        cus.add(new Customer(UID, name, email, Pass, dob, phno, address,
gen, pin));

        try {
            CustomerReaderWriter.write(cus);
            UserLogin ul=new UserLogin("iBanking");
            new UserLoginControl(ul).control();
            ur.dispose();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("Unable to Create The User Account");
        }
    }
    else
    {
        new ErrMsg("You Have Enter Password in Wrong Format");
    }
}

```

```

    }
});
ur.getTf2().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(KeyEvent a) {
        // TODO Auto-generated method stub
        char key=a.getKeyChar();

        if(!(Character.isDigit(key))||(key==KeyEvent.VK_BACK_SPACE)||(key==KeyEvent.VK_DELETE))
        {
            a.consume();
        }
    }
});
ur.getTf4().addKeyListener(new KeyAdapter() {
    @Override
    public void keyTyped(KeyEvent a) {
        // TODO Auto-generated method stub
        char key=a.getKeyChar();

        if(!(Character.isDigit(key))||(key==KeyEvent.VK_BACK_SPACE)||(key==KeyEvent.VK_DELETE))
        {
            a.consume();
        }
    }
});
}
public void clear()
{
    ur.getTa1().setText("");
    ur.getTf1().setText("");
    ur.getTf2().setText("");
    ur.getTf3().setText("");
    ur.getTf4().setText("");
}
}

```

```

package bank.controller;

import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import prj.CustomerReaderWriter;
import prj.TempReaderWriter;
import bank.model.*;
import bank.view.*;
public class UserLoginControl
{
    private UserLogin usl;
    private ArrayList<Customer> cus=new ArrayList<Customer>();
    private int cnt=0,k;
    public UserLoginControl(UserLogin usl) {
        super();
        this.usl = usl;
        try {
            cus=CustomerReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Can't Find The File in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("There is some Error Occured While Reading From File");
        }
        k=cus.size();
    }
    public void control()
    {
        usl.getBtnCreate().addActionListener((a)->{
            UserReg ur=new UserReg("shambo");
            new UserRegCntrl(ur).control();
            usl.dispose();
        });
        usl.getBtnLogin().addActionListener((a)->{

            if(usl.getTf1().getText().trim().length()==0)
            {
                new WarMsg("You Can Not Log In without Entering User ID");
            }
            else if(new String(usl.getPs().getPassword()).length()==0)
            {
                new WarMsg("You Can Not Log In without Entering Password");
            }
            else
            {
                String uid=usl.getTf1().getText().trim();
                String pass=new String(usl.getPs().getPassword());
                for(int i=0;i<k;i++)
                {
                    if(cus.get(i).getUid().equals(uid) &&
cus.get(i).getPassword().equals(pass))
                    {
                        new WarMsg("");
                        String ab=cus.get(i).getUid();
                        try {

```

```

        TempReaderWriter.write(ab);
        UserHome uhm=new UserHome("iBanking");
        new UserHomeCntrl(uhm).control();
        usl.dispose();
    } catch (Exception e) {
        // TODO Auto-generated catch block
        new ErrMsg("Some Error Occured While Logging In");
    }
    cnt++;
}
}
if(cnt==0)
{
    new ErrMsg("You Have Entered Wrong User Id or Password");
}
});
}
}
}

```

```

package bank.controller;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;

import javax.swing.*.*;

import prj.*;

import java.awt.*.*;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import bank.model.*;
import bank.view.*;

public class UserHomeCntrl {
    private UserHome uhm;
    private JTable jtb;
    private String matchUid;
    private String [] head2={"AccountNo","Account Holder's UID","Account Holder's
Name","Account Type","Balance"};
    private String [][] data2;
    private String [] data;
    private int sha=0,ka,cntfr1=0,cntfr2=0;
    private ArrayList<Savings_Account> dat;
    private ArrayList<Customer> cus;
    public UserHomeCntrl(UserHome uhm) {
        this.uhm = uhm;
        try {
            dat=AccountReaderWriter.read();
        } catch (FileNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("File Not Found in Location");
        } catch (IOException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Account Details");
        }
        try {
            matchUid=TempReaderWriter.read();
            matchUid=matchUid.trim();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            new ErrMsg("Error Occured While Reading Customer Details");
        }
        for(int h=0;h<dat.size();h++)
        {
            if(dat.get(h).getUid().equals(matchUid))
            {
                sha++;
            }
        }
        data=new String[sha];
        for(int h=0;h<dat.size();h++)
        {
            if(dat.get(h).getUid().equals(matchUid))
            {
                data[cntfr1]=Long.toString(dat.get(h).getAccountid());
                cntfr1++;
            }
        }
        data2=new String[sha][5];
        try {
            cus=CustomerReaderWriter.read();
        } catch (FileNotFoundException e) {

```

```

        // TODO Auto-generated catch block
        new ErrMsg("File Not Found in Location");
    } catch (IOException e) {
        // TODO Auto-generated catch block
        new ErrMsg("Error Occured While Reading Customer Details");
    }
}
public void control()
{
    uhm.getB1().addActionListener((a)->{

    });
    uhm.getL1().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub
            //Account Data
            if(sha>0)
            {
                UsrAcntData uad=new UsrAcntData("iBanking", data);
                new UsrAcntDataCntrl(uad).control();
                uhm.dispose();
            }
            else
            {
                new ErrMsg("Sorry There is No Account in Opened for this
User");
            }
        }
    });
    uhm.getL2().addMouseListener(new MouseAdapter() {
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub
            //See All Account
            if(sha>0)
            {
                for(ka=0;ka<dat.size();ka++)
                {
                    if(dat.get(ka).getUid().equals(matchUid))
                    {
                        data2[cntfr2][0]=Long.toString(dat.get(ka).getAccountid());
                        data2[cntfr2][1]=dat.get(ka).getUid();
                        data2[cntfr2][2]=dat.get(ka).getHoldername();
                        data2[cntfr2][3]=dat.get(ka).getType();

                        data2[cntfr2][4]=Double.toString(dat.get(ka).getBalance());
                        cntfr2++;
                    }
                }
                jtb=new JTable(data2,head2);
                UserTabl atbv=new UserTabl("iBanking", jtb);
                new UserTableCntrl(atbv).control();
                atbv.getLbl().setText("Showing All The Accounts of This
User");
                uhm.dispose();
            }
            else
            {
                new ErrMsg("Sorry There is No Account in Opened for this
User");
            }
        }
    });
});

```



```

uhm.getL4().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Transfer Money
        if(sha>0)
        {
            UserTransferMn utfm=new UserTransferMn("iBanking", data);
            new UstrTransfrMnyCntrl(utfm).control();
            uhm.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});
uhm.getL7().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Transaction Details
        if(sha>0)
        {
            UstrTransctnDetls utsd=new UstrTransctnDetls("iBanking", data);
            new UstrTransctnCntrl(utsd).control();
            uhm.dispose();
        }
        else
        {
            new ErrMsg("Sorry There is No Account in Opened for this
User");
        }
    }
});
uhm.getL9().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Edit Your Details
        UserEditDetails usedd=new UserEditDetails("iBanking");
        new UstrEditCntrl(usedd).control();
        for(int u=0;u<cus.size();u++)
        {
            if(cus.get(u).getUid().equals(matchUid))
            {
                usedd.getLblUid().setText(cus.get(u).getUid());
                usedd.getLblGender().setText(cus.get(u).getGender());
                usedd.getTfAddres().setText(cus.get(u).getAddress());
                usedd.getTfDob().setText(cus.get(u).getDob());
                usedd.getTfEmail().setText(cus.get(u).getEmailid());
                usedd.getTfName().setText(cus.get(u).getName());
                usedd.getTfPhno().setText(cus.get(u).getPhno());
                usedd.getTfPin().setText(cus.get(u).getPinno());
            }
        }
        uhm.dispose();
    }
});
uhm.getL6().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        //Log Out

```

```

        SecndPage snd=new SecndPage("iBanking");
        new SndPgController(snd).control();
        uhm.dispose();
    }
});

uhm.getL3().addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
        UserChangePasswrđ ucp=new UserChangePasswrđ("iBanking");
        new UserChangePassCntrl(ucp).control();
        uhm.dispose();
    }
});
}
}
}

```

```

package bank.controller;

import bank.view.*;
public class SndPgController
{
    private SecndPage sndpg;

    public SndPgController(SecndPage sndpg) {
        this.sndpg = sndpg;
    }
    public void control()
    {
        sndpg.getbAdmin().addActionListener((a)->{
            AccntantLogIn alc=new AccntantLogIn("iBanking");
            new AccntLoginCntrl(alc).control();
            sndpg.dispose();
        });
        sndpg.getbUser().addActionListener((a)->{
            UserLogin ul=new UserLogin("iBanking");
            new UserLoginControl(ul).control();
            sndpg.dispose();
        });
    }
}

```

# From package bank.model

```
package bank.model;  
public interface Bank{  
}
```

```

package bank.model;
import java.io.Serializable;
import java.text.DateFormat;
import java.util.ArrayList;
import java.util.Date;

import bank.controller.InsufficientBalanceException;
public class Savings_Account implements Serializable, Bank
{
    private long accountid;
    private String holdername;
    private String uid;
    private double balance;
    private String type;
    ArrayList<Trans> trn=new ArrayList<Trans>();
    private double minimum_amount;
    Date dt=new Date();
    public Savings_Account(long accountid, String holdername, String uid, double balance,
String type, double minimum_amount) {
        this.accountid = accountid;
        this.holdername = holdername;
        this.uid = uid;
        this.balance = balance;
        this.type = type;
        this.minimum_amount = minimum_amount;
        DateFormat sh=DateFormat.getDateInstance(DateFormat.MEDIUM);
        DateFormat ti=DateFormat.getTimeInstance(DateFormat.MEDIUM);
        trn.add(new Trans("iBanking Welcomes
You",0.0,balance,sh.format(dt),ti.format(dt)));
    }
    public void withdraw(double amt) throws Exception {
        // TODO Auto-generated method stub
        if(this.getBalance()-amt>=minimum_amount)
        {
            this.setBalance(this.getBalance()-amt);
            DateFormat sh=DateFormat.getDateInstance(DateFormat.MEDIUM);
            DateFormat ti=DateFormat.getTimeInstance(DateFormat.MEDIUM);
            this.trn.add(new Trans("Cash
Withdraw",amt,this.getBalance(),sh.format(dt),ti.format(dt)));
        }
        else
        {
            throw new InsufficientBalanceException("Sorry Insufficient Balance");
        }
    }
    public void deposit(double amt) {
        this.setBalance(this.getBalance()+amt);
        DateFormat sh=DateFormat.getDateInstance(DateFormat.MEDIUM);
        DateFormat ti=DateFormat.getTimeInstance(DateFormat.MEDIUM);
        this.trn.add(new Trans("Cash
Deposit",amt,this.getBalance(),sh.format(dt),ti.format(dt)));
    }
    public void acctransfer(Savings_Account acc, double amt) throws Exception
    {
        if(this.getBalance()-amt>=minimum_amount)
        {
            this.setBalance(this.getBalance()-amt);
            acc.setBalance(acc.getBalance()+amt);
            DateFormat sh=DateFormat.getDateInstance(DateFormat.MEDIUM);
            DateFormat ti=DateFormat.getTimeInstance(DateFormat.MEDIUM);
            this.trn.add(new Trans("Money Transfer to--
>" + acc.getAccountid(), amt, this.getBalance(), sh.format(dt), ti.format(dt)));
            acc.trn.add(new Trans("Money Transfer form--
>" + this.getAccountid(), amt, acc.getBalance(), sh.format(dt), ti.format(dt)));
        }
    }
}

```

```

        else
        {
            throw new InsufficientBalanceException("Sorry Insufficient Balance");
        }
    }
    public double getMinimum_amount()
    {
        return minimum_amount;
    }
    public void curWithdraw(double amt) throws Exception {
        // TODO Auto-generated method stub
        if(minimum_amount>=amt-this.getBalance())
        {
            this.setBalance(this.getBalance()-amt);
            DateFormat sh=DateFormat.getDateInstance(DateFormat.MEDIUM);
            DateFormat ti=DateFormat.getTimeInstance(DateFormat.MEDIUM);
            this.trn.add(new Trans("Cash
Withdraw",amt,this.getBalance(),sh.format(dt),ti.format(dt)));
        }
        else
        {
            throw new InsufficientBalanceException("Sorry Insufficient Balance");
        }
    }
    public void curAcctrnsfer(Savings_Account acc, double amt) throws Exception {
        // TODO Auto-generated method stub
        if(minimum_amount>=amt-this.getBalance())
        {
            this.setBalance(this.getBalance()-amt);
            acc.setBalance(acc.getBalance()+amt);
            DateFormat sh=DateFormat.getDateInstance(DateFormat.MEDIUM);
            DateFormat ti=DateFormat.getTimeInstance(DateFormat.MEDIUM);
            this.trn.add(new Trans("Money Transfer to--
>" +acc.getAccountid(),amt,this.getBalance(),sh.format(dt),ti.format(dt)));
            acc.trn.add(new Trans("Money Transfer form--
>" +this.getAccountid(),amt,acc.getBalance(),sh.format(dt),ti.format(dt)));
        }
        else
        {
            throw new InsufficientBalanceException("Sorry Insufficient Balance");
        }
    }
    public void setMinimum_amount(double minimum_amount) {
        this.minimum_amount = minimum_amount;
    }
    public String getType() {
        return type;
    }
    public void setType(String type) {
        this.type = type;
    }
    public double getBalance() {
        return balance;
    }
    public void setBalance(double balance) {
        this.balance = balance;
    }
    public long getAccountid() {
        return accountid;
    }
    public String getHoldername() {
        return holdername;
    }
    public String getUid() {
        return uid;
    }

```

```
    }  
    public ArrayList<Trans> getTrn() {  
        return trn;  
    }  
}
```

```

package bank.model;

import java.io.Serializable;
import java.sql.Date;

public class Customer implements Serializable{
    private String uid;
    private String name;
    private String emailid;
    private String password;
    private String dob;
    private String phno;
    private String address;
    private String gender;
    private String pinno;
    public Customer(String uid, String name, String emailid, String password,
        String dob, String phno, String address, String gender, String pinno) {
        super();
        this.uid = uid;
        this.name = name;
        this.emailid = emailid;
        this.password = password;
        this.dob = dob;
        this.phno = phno;
        this.address = address;
        this.gender = gender;
        this.pinno = pinno;
    }
    public String getUid() {
        return uid;
    }
    public void setUid(String uid) {
        this.uid = uid;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public String getEmailid() {
        return emailid;
    }
    public void setEmailid(String emailid) {
        this.emailid = emailid;
    }
    public String getPassword() {
        return password;
    }
    public void setPassword(String password) {
        this.password = password;
    }
    public String getDob() {
        return dob;
    }
    public void setDob(String dob) {
        this.dob = dob;
    }
    public String getPhno() {
        return phno;
    }
    public void setPhno(String phno) {
        this.phno = phno;
    }
    public String getAddress() {

```



```
        return address;
    }
    public void setAddress(String address) {
        this.address = address;
    }
    public String getGender() {
        return gender;
    }
    public void setGender(String gender) {
        this.gender = gender;
    }
    public String getPinno() {
        return pinno;
    }
    public void setPinno(String pinno) {
        this.pinno = pinno;
    }
}
```

```

package bank.model;

import java.io.Serializable;

public class Trans implements Serializable
{
    private String type;
    private double amt;
    private double bal;
    private String dt,ti;
    public Trans(String type, double amt2, double d, String dt, String ti) {
        super();
        this.type = type;
        this.amt = amt2;
        this.bal = d;
        this.dt = dt;
        this.ti = ti;
    }
    public String getType() {
        return type;
    }
    public double getAmt() {
        return amt;
    }
    public double getBal() {
        return bal;
    }
    public String getDt() {
        return dt;
    }
    public String getTi() {
        return ti;
    }
    public String Details()
    {
        return type+"\t"+amt+"\t"+bal+"\t"+dt+"\t"+ti;
    }
}

```

```
package bank.model;  
  
import java.io.Serializable;  
  
public class Loan implements Serializable{  
  
}
```

# From package prj

```
package prj;
import java.io.*;
import java.util.ArrayList;

import bank.model.*;
import bank.view.*;
public class AccountReaderWriter {
    public static void writer(ArrayList<Savings_Account> accd) throws
FileNotFoundException, IOException
    {
        ObjectOutputStream obj=new ObjectOutputStream(new
FileOutputStream("Account.dat"));
        obj.writeObject(accd);
        obj.close();
    }
    @SuppressWarnings({ "unchecked", "finally" })
    public static ArrayList<Savings_Account> read() throws FileNotFoundException,
IOException
    {
        ObjectInputStream objinp=new ObjectInputStream(new
FileInputStream("Account.dat"));
        ArrayList<Savings_Account> acc=new ArrayList<Savings_Account>();
        try {
            acc=(ArrayList<Savings_Account>)objinp.readObject();
        } catch (ClassNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Class Not Found");
        }
        finally
        {
            objinp.close();
            return acc;
        }
    }
}
```

```
package prj;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;

import bank.controller.*;
import bank.model.*;
import bank.view.*;
public class BankMain {
    public static void main(String[] args) {
        new Front("iBanking");
    }
}
```

```

package prj;

import java.util.ArrayList;
import java.io.*;

import bank.model.*;
import bank.view.*;
public class CustomerReaderWriter {
    public static void write(ArrayList<Customer> cst) throws FileNotFoundException,
IOException
    {
        ObjectOutputStream objout=new ObjectOutputStream(new
FileOutputStream("Bank.dat"));
        objout.writeObject(cst);
        objout.close();
    }
    @SuppressWarnings({ "unchecked", "finally" })
    public static ArrayList<Customer> read() throws FileNotFoundException, IOException
    {
        ObjectInputStream objinp=new ObjectInputStream(new FileInputStream("Bank.dat"));
        ArrayList<Customer> cus=new ArrayList<Customer>();
        try {
            cus=(ArrayList<Customer>)objinp.readObject();
        } catch (ClassNotFoundException e) {
            // TODO Auto-generated catch block
            new ErrMsg("Class Not Found");
        }
        finally
        {
            objinp.close();
            return cus;
        }
    }
}

```

```
package prj;

import java.io.*;

public class TempReaderWriter
{
    public static void write(String a) throws IOException
    {
        BufferedWriter shambo=new BufferedWriter(new FileWriter("Shambo.dat"));
        shambo.write(a);
        shambo.close();
    }
    public static String read() throws Exception
    {
        BufferedReader samanta=new BufferedReader(new FileReader("Shambo.dat"));
        String a;
        a=samanta.readLine();
        samanta.close();
        return a;
    }
}
```

# Certificate

This is to certify that Mr. Indranil Mukherjee, Mr. Shambo Samanta, Mr. Tamal Saha, Ms. Neha Parween, and Ms. Anamika Maji all of Government College Of Engineering And Textile Technology, Serampore with Registration no. 121100110042, 121100110052,...,121100110046,...respectively has successfully completed a project on Banking System Using JAVA 8 under the guidance of Mrs Munmun Purkayastha

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**Munmun Purkayastha**

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