**Submission for Lab2**

Q1)

**Login.class:**

import DataAcccess.DataAccess;

import javax.swing.JOptionPane;

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

/\*\*

\*

\* @author student

\*/

public class Login extends javax.swing.JFrame {

/\*\*

\* Creates new form Login

\*/

public Login() {

initComponents();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

un = new javax.swing.JTextField();

pa = new javax.swing.JPasswordField();

btnLogin = new javax.swing.JButton();

jButton1 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setText("Username");

jLabel2.setText("Password");

btnLogin.setText("Login");

btnLogin.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btnLoginActionPerformed(evt);

}

});

jButton1.setText("SignUP");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(54, 54, 54)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel2)

.addGap(18, 18, 18)

.addComponent(pa, javax.swing.GroupLayout.PREFERRED\_SIZE, 93, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel1)

.addGap(18, 18, 18)

.addComponent(un)))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(46, 46, 46)

.addComponent(btnLogin)

.addContainerGap(20, Short.MAX\_VALUE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1)

.addContainerGap())))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(45, 45, 45)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel1)

.addComponent(un, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(layout.createSequentialGroup()

.addGap(59, 59, 59)

.addComponent(btnLogin)))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2)

.addComponent(pa, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(24, Short.MAX\_VALUE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1)

.addContainerGap())))

);

pack();

}// </editor-fold>

private void btnLoginActionPerformed(java.awt.event.ActionEvent evt) {

DataAccess da = new DataAccess();

String uname = un.getText();

String pass = pa.getText();

int uid = da.login(uname, pass);

if (uid == 0) {

JOptionPane.showMessageDialog(null, "Invalid Credentials!");

} else {

JOptionPane.showMessageDialog(null, "Login Successful!");

this.setVisible(false);

Peers p = new Peers(uid);

p.setVisible(true);

}

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

this.setVisible(false);

SignUp su = new SignUp();

su.setVisible(true);

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Login().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton btnLogin;

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JPasswordField pa;

private javax.swing.JTextField un;

// End of variables declaration

}

**SignUP Class:**

import DataAcccess.DataAccess;

import javax.swing.JOptionPane;

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

/\*\*

\*

\* @author student

\*/

public class SignUp extends javax.swing.JFrame {

/\*\*

\* Creates new form SignUp

\*/

public SignUp() {

initComponents();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

uname = new javax.swing.JTextField();

urole = new javax.swing.JTextField();

upass = new javax.swing.JPasswordField();

btn\_signup = new javax.swing.JButton();

jButton1 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setText("User Name:");

jLabel2.setText("Password:");

jLabel3.setText("Role:");

btn\_signup.setText("SignUp");

btn\_signup.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_signupActionPerformed(evt);

}

});

jButton1.setText("Login");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(32, 32, 32)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addComponent(jLabel1)

.addGap(42, 42, 42))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel2)

.addGap(48, 48, 48)))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel3)

.addGap(73, 73, 73)))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(urole, javax.swing.GroupLayout.PREFERRED\_SIZE, 103, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(uname)

.addComponent(upass, javax.swing.GroupLayout.DEFAULT\_SIZE, 203, Short.MAX\_VALUE))))

.addGroup(layout.createSequentialGroup()

.addGap(142, 142, 142)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton1)

.addComponent(btn\_signup))))

.addContainerGap(52, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel1)

.addComponent(uname, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel2)

.addComponent(upass, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel3)

.addComponent(urole, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(37, 37, 37)

.addComponent(btn\_signup)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jButton1)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void btn\_signupActionPerformed(java.awt.event.ActionEvent evt) {

String name = uname.getText();

String pass = upass.getText();

String role = urole.getText();

if (name.isEmpty() || pass.isEmpty() || role.isEmpty()) {

JOptionPane.showMessageDialog(null, "Please fill all the fields");

} else {

DataAccess da = new DataAccess();

int stat = da.signUp(name, pass, role);

if (stat == -1) {

JOptionPane.showMessageDialog(null, "UserName already exists...Please choose a new one!");

} else if (stat > 0) {

JOptionPane.showMessageDialog(null, "Successfull SignUP!");

this.setVisible(false);

Login log = new Login();

log.setVisible(true);

} else {

JOptionPane.showMessageDialog(null, "Something went wrong...Please Try Again");

}

}

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

this.setVisible(false);

Login su = new Login();

su.setVisible(true);

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(SignUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(SignUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(SignUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(SignUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new SignUp().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton btn\_signup;

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JTextField uname;

private javax.swing.JPasswordField upass;

private javax.swing.JTextField urole;

// End of variables declaration

}

**Peers.class:**

import DataAcccess.DataAccess;

import java.sql.ResultSet;

import javax.swing.DefaultListModel;

/\*\*

\*

\* @author Abhishek Karan

\*/

public class Peers extends javax.swing.JFrame {

/\*\*

\* Creates new form Peers

\*/

int uid;

public Peers(int uid) {

initComponents();

this.uid = uid;

}

public Peers() {

initComponents();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jScrollPane1 = new javax.swing.JScrollPane();

peer\_list = new javax.swing.JList();

jButton1 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

addWindowListener(new java.awt.event.WindowAdapter() {

public void windowActivated(java.awt.event.WindowEvent evt) {

formWindowActivated(evt);

}

});

jLabel1.setText("Support Peers");

peer\_list.setModel(new javax.swing.AbstractListModel() {

String[] strings = { "Item 1", "Item 2", "Item 3", "Item 4", "Item 5" };

public int getSize() { return strings.length; }

public Object getElementAt(int i) { return strings[i]; }

});

jScrollPane1.setViewportView(peer\_list);

jButton1.setText("Logout");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(50, 50, 50)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 229, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(131, 131, 131)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(120, 120, 120)

.addComponent(jButton1)))

.addContainerGap(72, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(42, 42, 42)

.addComponent(jLabel1)

.addGap(38, 38, 38)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 30, Short.MAX\_VALUE)

.addComponent(jButton1)

.addGap(23, 23, 23))

);

pack();

}// </editor-fold>

private void formWindowActivated(java.awt.event.WindowEvent evt) {

DefaultListModel model = new DefaultListModel();

DataAccess da = new DataAccess();

ResultSet rs = null;

rs = da.getRole(uid);

try {

while (rs.next()) {

model.addElement(rs.getString(1));

}

} catch (Exception ex) {

ex.getMessage();

}

peer\_list.setModel(model);

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

this.setVisible(false);

Login log = new Login();

log.setVisible(true);

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Peers.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Peers.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Peers.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Peers.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Peers().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JList peer\_list;

// End of variables declaration

}

**DataAccess.class**

package DataAcccess;

import com.mysql.jdbc.\*;

import java.sql.DriverManager;

import java.sql.ResultSet;

/\*\*

\*

\* @author Abhishek Karan

\*/

public class DataAccess {

static final String JDBC\_DRIVER = "com.mysql.jdbc.Driver";

static final String DB\_URL = "jdbc:mysql://localhost/abhi";

static final String USER = "root";

static final String PASS = "student";

Connection con = null;

ResultSet rs = null;

PreparedStatement pstmt = null;

private Connection getConnection() {

try {

Class.forName(JDBC\_DRIVER);

con = (Connection) DriverManager.getConnection(DB\_URL, USER, PASS);

} catch (Exception e) {

System.out.println(e.getMessage());

}

return con;

}//getConnection()

private int checkUname(String uname) {

con = getConnection();

try {

String query = "select uid from user\_master where uname=? ";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setString(1, uname);

rs = pstmt.executeQuery();

if (!rs.next()) {

return 1;

}

} catch (Exception e) {

System.out.println(e.getMessage());

}

return 0;

}//checkUname()

public int signUp(String name, String pass, String role) {

con = getConnection();

int x = 0;

try {

if (checkUname(name) == 0) {

return -1;

}

String query = "insert into user\_master(uname,upass,urole) values(?,?,?)";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setString(1, name);

pstmt.setString(2, pass);

pstmt.setString(3, role);

x = pstmt.executeUpdate();

} catch (Exception e) {

System.out.println(e.getMessage());

}

return x;

}//signUp()

public int login(String name, String pass) {

con = getConnection();

int uid = 0;

try {

String query = "select uid from user\_master where uname=? and upass=? ";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setString(1, name);

pstmt.setString(2, pass);

rs = pstmt.executeQuery();

while (rs.next()) {

uid = rs.getInt(1);

}

} catch (Exception e) {

System.out.println(e.getMessage());

}

return uid;

}//login()

public ResultSet getRole(int uid) {

con = getConnection();

String role = null;

try {

String query = "select urole from user\_master where uid=? ";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setInt(1, uid);

rs = pstmt.executeQuery();

while (rs.next()) {

role = rs.getString(1);

}

query = "select uname from user\_master where urole=? ";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setString(1, role);

rs = pstmt.executeQuery();

} catch (Exception e) {

System.out.println(e.getMessage());

}

return rs;

}//getRole()

}//DataAccess

Q2)

**Login.class**

package Bank;

import Bank.DataAccess.DataAccess;

import javax.swing.JOptionPane;

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

/\*\*

\*

\* @author student

\*/

public class Login extends javax.swing.JFrame {

/\*\*

\* Creates new form Login

\*/

public Login() {

initComponents();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

un = new javax.swing.JTextField();

pa = new javax.swing.JPasswordField();

btnLogin = new javax.swing.JButton();

jButton1 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setText("Username");

jLabel2.setText("Password");

btnLogin.setText("Login");

btnLogin.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btnLoginActionPerformed(evt);

}

});

jButton1.setText("SignUP");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(54, 54, 54)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel2)

.addGap(18, 18, 18)

.addComponent(pa, javax.swing.GroupLayout.PREFERRED\_SIZE, 93, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel1)

.addGap(18, 18, 18)

.addComponent(un)))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(46, 46, 46)

.addComponent(btnLogin)

.addContainerGap(20, Short.MAX\_VALUE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1)

.addContainerGap())))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(45, 45, 45)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel1)

.addComponent(un, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(layout.createSequentialGroup()

.addGap(59, 59, 59)

.addComponent(btnLogin)))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2)

.addComponent(pa, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(24, Short.MAX\_VALUE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1)

.addContainerGap())))

);

pack();

}// </editor-fold>

private void btnLoginActionPerformed(java.awt.event.ActionEvent evt) {

DataAccess da = new DataAccess();

String uname = un.getText();

String pass = pa.getText();

if (uname.equals("admin") && pass.equals("admin")) {

this.setVisible(false);

new AdminMaster().setVisible(true);

} else {

int uid = da.login(uname, pass);

if (uid == 0) {

JOptionPane.showMessageDialog(null, "Invalid Credentials! OR Admin has blocked You!");

} else {

JOptionPane.showMessageDialog(null, "Login Successful!");

this.setVisible(false);

Dashboard db = new Dashboard(uid);

db.setVisible(true);

}

}

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

this.setVisible(false);

SignUp su = new SignUp();

su.setVisible(true);

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Login().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton btnLogin;

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JPasswordField pa;

private javax.swing.JTextField un;

// End of variables declaration

}

**SignUP.class**

package Bank;

import Bank.DataAccess.DataAccess;

import javax.swing.JOptionPane;

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

/\*\*

\*

\* @author student

\*/

public class SignUp extends javax.swing.JFrame {

/\*\*

\* Creates new form SignUp

\*/

public SignUp() {

initComponents();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

uname = new javax.swing.JTextField();

accNo = new javax.swing.JTextField();

upass = new javax.swing.JPasswordField();

btn\_signup = new javax.swing.JButton();

jButton1 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setText("User Name:");

jLabel2.setText("Password:");

jLabel3.setText("Account Number:");

btn\_signup.setText("SignUp");

btn\_signup.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

btn\_signupActionPerformed(evt);

}

});

jButton1.setText("Login");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(32, 32, 32)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel3)

.addComponent(jLabel2)

.addComponent(jLabel1))

.addGap(73, 73, 73)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(uname)

.addComponent(upass, javax.swing.GroupLayout.DEFAULT\_SIZE, 203, Short.MAX\_VALUE)

.addComponent(accNo, javax.swing.GroupLayout.PREFERRED\_SIZE, 163, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(layout.createSequentialGroup()

.addGap(142, 142, 142)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton1)

.addComponent(btn\_signup))))

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel1)

.addComponent(uname, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(upass, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel2))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel3)

.addComponent(accNo, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addComponent(btn\_signup)

.addGap(30, 30, 30)

.addComponent(jButton1)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void btn\_signupActionPerformed(java.awt.event.ActionEvent evt) {

String name = uname.getText();

String pass = upass.getText();

String accno = accNo.getText();

if (name.isEmpty() || pass.isEmpty() || accno.isEmpty()) {

JOptionPane.showMessageDialog(null, "Please fill all the fields");

} else if (accno.length() != 4) {

JOptionPane.showMessageDialog(null, "Account Number can only 4 Digits");

} else {

DataAccess da = new DataAccess();

int stat = da.signUp(name, pass, accno);

if (stat == -1) {

JOptionPane.showMessageDialog(null, "UserName already exists...Please choose a new one!");

} else if (stat == -2) {

JOptionPane.showMessageDialog(null, "Account Number Already Exists");

} else if (stat > 0) {

JOptionPane.showMessageDialog(null, "Successfull SignUP!");

this.setVisible(false);

Login log = new Login();

log.setVisible(true);

} else {

JOptionPane.showMessageDialog(null, "Something went wrong...Please Try Again");

}

}

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

this.setVisible(false);

Login su = new Login();

su.setVisible(true);

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(SignUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(SignUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(SignUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(SignUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new SignUp().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField accNo;

private javax.swing.JButton btn\_signup;

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JTextField uname;

private javax.swing.JPasswordField upass;

// End of variables declaration

}

**Dashboard.class**

package Bank;

import Bank.DataAccess.DataAccess;

import java.sql.ResultSet;

import javax.swing.DefaultListModel;

import javax.swing.JOptionPane;

/\*\*

\*

\* @author Abhishek Karan

\*/

public class Dashboard extends javax.swing.JFrame {

/\*\*

\* Creates new form Dashboard

\*/

int uid;

double bal = 0.0;

String nm = "", accn = "";

public Dashboard(int uid) {

initComponents();

this.uid = uid;

}

public Dashboard() {

initComponents();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

name = new javax.swing.JTextField();

acc = new javax.swing.JTextField();

balance = new javax.swing.JTextField();

jLabel4 = new javax.swing.JLabel();

jScrollPane1 = new javax.swing.JScrollPane();

trans = new javax.swing.JList();

jLabel5 = new javax.swing.JLabel();

amount = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

acntno = new javax.swing.JTextField();

jLabel6 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

addWindowListener(new java.awt.event.WindowAdapter() {

public void windowActivated(java.awt.event.WindowEvent evt) {

formWindowActivated(evt);

}

});

jLabel1.setText("Name:");

jLabel2.setText("Account Number:");

jLabel3.setText("Balance:");

name.setEditable(false);

acc.setEditable(false);

balance.setEditable(false);

jLabel4.setText("History of Transactions:");

trans.setModel(new javax.swing.AbstractListModel() {

String[] strings = { "Item 1", "Item 2", "Item 3", "Item 4", "Item 5" };

public int getSize() { return strings.length; }

public Object getElementAt(int i) { return strings[i]; }

});

jScrollPane1.setViewportView(trans);

jLabel5.setText("Pay To (Account Number):");

jButton1.setText("Transfer Funds");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jLabel6.setText("Amount:");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel4)

.addGap(82, 82, 82))

.addGroup(layout.createSequentialGroup()

.addGap(45, 45, 45)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jButton1)

.addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup()

.addComponent(jLabel5)

.addGap(18, 18, 18)

.addComponent(acntno, javax.swing.GroupLayout.PREFERRED\_SIZE, 132, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(28, 28, 28)

.addComponent(jLabel6)))

.addGap(18, 18, 18)

.addComponent(amount, javax.swing.GroupLayout.PREFERRED\_SIZE, 132, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel1)

.addComponent(jLabel2)

.addComponent(jLabel3))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(balance, javax.swing.GroupLayout.PREFERRED\_SIZE, 129, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(acc, javax.swing.GroupLayout.PREFERRED\_SIZE, 129, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(name, javax.swing.GroupLayout.PREFERRED\_SIZE, 129, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT\_SIZE, 327, Short.MAX\_VALUE)))

.addContainerGap())

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel4)

.addGap(5, 5, 5)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel1)

.addComponent(name, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel2)

.addComponent(acc, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel3)

.addComponent(balance, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 82, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(30, 30, 30)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel5)

.addComponent(acntno, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel6)

.addComponent(amount, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addComponent(jButton1)

.addContainerGap(97, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void formWindowActivated(java.awt.event.WindowEvent evt) {

DataAccess da = new DataAccess();

ResultSet rs = null;

try {

rs = da.fetchData(uid);

rs.next();

nm = rs.getString(1);

accn = rs.getString(2);

bal = rs.getDouble(3);

name.setText(nm);

acc.setText(accn);

balance.setText("" + bal);

DefaultListModel model = new DefaultListModel();

rs = da.fetchpayeeTrans(uid);

while (rs.next()) {

model.addElement("You Payed " + rs.getDouble(1) + " to " + rs.getString(2) + " on " + rs.getString(3) + " ");

}

rs = da.fetchpayerTrans(uid);

while (rs.next()) {

model.addElement("You received " + rs.getDouble(1) + " from " + rs.getString(2) + " on " + rs.getString(3) + " ");

}

trans.setModel(model);

} catch (Exception e) {

System.out.println(e.getMessage());

}

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

Double amt = Double.parseDouble(amount.getText());

String acno = acntno.getText();

DataAccess da = new DataAccess();

if (acno.isEmpty() || amt <= 0.0 || amt > bal) {

JOptionPane.showMessageDialog(null, "Please give valid details");

} else {

if (da.checkAccNo(acno) == 1) {

JOptionPane.showMessageDialog(null, "Invalid Account Number.");

} else {

int x = da.updateAmount(acno, amt, uid);

if (x == 0) {

JOptionPane.showMessageDialog(null, "Something went wrong!!");

} else if (x == 1) {

JOptionPane.showMessageDialog(null, "Updated....");

da.updateBankTrans(uid, acno, amt);

}

}

}

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Dashboard.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Dashboard.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Dashboard.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Dashboard.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Dashboard().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField acc;

private javax.swing.JTextField acntno;

private javax.swing.JTextField amount;

private javax.swing.JTextField balance;

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTextField name;

private javax.swing.JList trans;

// End of variables declaration

}

**AdminMaster.class**

package Bank;

import Bank.DataAccess.DataAccess;

import javax.swing.JOptionPane;

/\*\*

\*

\* @author Abhishek Karan

\*/

public class AdminMaster extends javax.swing.JFrame {

/\*\*

\* Creates new form AdminMaster

\*/

public AdminMaster() {

initComponents();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

acnt = new javax.swing.JTextField();

jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setText("Enter Account Number:");

jButton1.setText("Grant");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Freeze");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(37, 37, 37)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jButton1)

.addComponent(jLabel1))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(18, 18, 18)

.addComponent(acnt, javax.swing.GroupLayout.PREFERRED\_SIZE, 208, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(41, 41, 41)

.addComponent(jButton2)))

.addContainerGap(25, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel1)

.addComponent(acnt, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1)

.addComponent(jButton2))

.addContainerGap(26, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

DataAccess da = new DataAccess();

String ac = acnt.getText();

int x = da.updateAdmin(ac,'G');

if (x == 1) {

JOptionPane.showMessageDialog(null, "Updation Successfull...");

} else if (x == 0) {

JOptionPane.showMessageDialog(null, "Invalid Account No or Something went wrong!");

}

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

DataAccess da = new DataAccess();

String ac = acnt.getText();

int x = da.updateAdmin(ac,'F');

if (x == 1) {

JOptionPane.showMessageDialog(null, "Updation Successfull...");

} else if (x == 0) {

JOptionPane.showMessageDialog(null, "Invalid Account No or Something went wrong!");

}

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(AdminMaster.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(AdminMaster.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(AdminMaster.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(AdminMaster.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new AdminMaster().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField acnt;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}

**DataAccess.class**

package Bank.DataAccess;

import com.mysql.jdbc.\*;

import java.sql.DriverManager;

import java.sql.ResultSet;

/\*\*

\*

\* @author Abhishek Karan

\*/

public class DataAccess {

static final String JDBC\_DRIVER = "com.mysql.jdbc.Driver";

static final String DB\_URL = "jdbc:mysql://localhost/abhi";

static final String USER = "root";

static final String PASS = "student";

Connection con = null;

ResultSet rs = null;

PreparedStatement pstmt = null;

private Connection getConnection() {

try {

Class.forName(JDBC\_DRIVER);

con = (Connection) DriverManager.getConnection(DB\_URL, USER, PASS);

} catch (Exception e) {

System.out.println(e.getMessage());

}

return con;

}//getConnection()

private int checkUname(String uname) {

con = getConnection();

try {

String query = "select uid from bank\_user where uname=? ";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setString(1, uname);

rs = pstmt.executeQuery();

if (!rs.next()) {

return 1;

}

} catch (Exception e) {

System.out.println(e.getMessage());

}

return 0;

}//checkUname()

public int signUp(String name, String pass, String acc) {

con = getConnection();

int x = 0;

try {

if (checkAccNo(acc) == 0) {

return -2;

}

if (checkUname(name) == 0) {

return -1;

}

String query = "insert into bank\_user(uname,upass,account\_no) values(?,?,?)";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setString(1, name);

pstmt.setString(2, pass);

pstmt.setString(3, acc);

x = pstmt.executeUpdate();

} catch (Exception e) {

System.out.println(e.getMessage());

}

return x;

}//signUp()

public int login(String name, String pass) {

con = getConnection();

int uid = 0;

try {

String query = "select uid from bank\_user where uname=? and upass=? and status=?";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setString(1, name);

pstmt.setString(2, pass);

pstmt.setInt(3, 1);

rs = pstmt.executeQuery();

while (rs.next()) {

uid = rs.getInt(1);

}

} catch (Exception e) {

System.out.println(e.getMessage());

}

return uid;

}//login()

public ResultSet getRole(int uid) {

con = getConnection();

String role = null;

try {

String query = "select urole from user\_master where uid=? ";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setInt(1, uid);

rs = pstmt.executeQuery();

while (rs.next()) {

role = rs.getString(1);

}

query = "select uname from user\_master where urole=? ";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setString(1, role);

rs = pstmt.executeQuery();

} catch (Exception e) {

System.out.println(e.getMessage());

}

return rs;

}//getRole()

public int checkAccNo(String acc) {

con = getConnection();

try {

String query = "select uid from bank\_user where account\_no=? ";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setString(1, acc);

rs = pstmt.executeQuery();

if (!rs.next()) {

return 1;

}

} catch (Exception e) {

System.out.println(e.getMessage());

}

return 0;

}//checkUname()

public ResultSet fetchData(int uid) {

con = getConnection();

try {

String query = "select uname,account\_no,balance from bank\_user where uid=? ";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setInt(1, uid);

rs = pstmt.executeQuery();

} catch (Exception e) {

System.out.println(e.getMessage());

}

return rs;

}//fetchData()

public ResultSet fetchpayeeTrans(int payee) {

con = getConnection();

try {

String query = "select bt.amount,bu.uname,bt.timestamp from bank\_trans bt,bank\_user bu "

+ " where bt.payer=bu.uid and payee=? ";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setInt(1, payee);

rs = pstmt.executeQuery();

} catch (Exception e) {

System.out.println(e.getMessage());

}

return rs;

}//fetchPayeeTrans()

public ResultSet fetchpayerTrans(int payer) {

con = getConnection();

try {

String query = "select bt.amount,bu.uname,bt.timestamp from bank\_trans bt,bank\_user bu "

+ " where bt.payer=bu.uid and payer=? ";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setInt(1, payer);

rs = pstmt.executeQuery();

} catch (Exception e) {

System.out.println(e.getMessage());

}

return rs;

}//fetchPayeeTrans()

public int updateAmount(String acc, double amt, int uid) {

con = getConnection();

try {

String query = "update bank\_user set balance=balance+? where account\_no=?";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setDouble(1, amt);

pstmt.setString(2, acc);

if (pstmt.executeUpdate() == 0) {

return 0;

} else {

query = "update bank\_user set balance=balance-? where uid=?";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setDouble(1, amt);

pstmt.setInt(2, uid);

if (pstmt.executeUpdate() == 0) {

return 0;

} else {

return 1;

}

}

} catch (Exception e) {

System.out.println(e.getMessage());

}

return 0;

}//updateAmt()

public int updateBankTrans(int payee, String accno, double amt) {

con = getConnection();

try {

String query = "select uid from bank\_user where account\_no=?";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setString(1, accno);

rs = pstmt.executeQuery();

rs.next();

int payer = rs.getInt("uid");

query = "insert into bank\_trans(payee,payer,amount) values(?,?,?)";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setInt(1, payee);

pstmt.setInt(2, payer);

pstmt.setDouble(3, amt);

if (pstmt.executeUpdate() == 0) {

return 0;

}

} catch (Exception e) {

System.out.println(e.getMessage());

}

return 1;

}//updatetrans()

public int updateAdmin(String acnt,char stat) {

con = getConnection();

try {

String query = "update bank\_user set status=? where account\_no=?";

pstmt = (PreparedStatement) con.prepareStatement(query);

pstmt.setString(2, acnt);

if(stat=='G'){

pstmt.setInt(1, 1);

}else if(stat=='F'){

pstmt.setInt(1, 0);

}

if (pstmt.executeUpdate() == 0) {

return 0;

}

} catch (Exception e) {

System.out.println(e.getMessage());

}

return 1;

}

}//DataAccess

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