PAT Technical Document

George Marais



**InfoSave**

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# Persistent Storage

## Logging in

Logging in takes the user to main screen if they already have an account. This is the first screen that the user will see.

try {

ps = con.prepareStatement("SELECT UserName, Password, Photo, ID FROM SignUp WHERE Username = ? AND Password = ?");

ps.setString(1,Username.getText());

ps.setString(2,String.valueOf(Password.getPassword()));

rs = ps.executeQuery();

if(rs.next()){

InfoSave.currentUserID = rs.getInt("ID");

//closes the Login window and opens the Sign up window

InfoSave is = new InfoSave();

is.setVisible(true);

is.pack();

is.setLocationRelativeTo(null);

is.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

//shows profile picture

is.lblUserPic.setIcon(new functions().resizePicture(null, rs.getBytes(3), is.lblUserPic.getWidth(), is.lblUserPic.getHeight()));

//shows username

is.lblUsername.setText(rs.getString(1));

this.dispose();

}

else{

JOptionPane.showMessageDialog(null, "Failed to Login");

}

} catch (SQLException ex) {

Logger.getLogger(loginForm.class.getName()).log(Level.SEVERE, null, ex);

}

}

## Sign Up

This code creates a new account, but checks that the username isn’t taken and that all fields are filled in.

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

if(inputValid()){

Connection con = myConnection.getConnection();

PreparedStatement ps;

Statement stmt = null;

try {

ps = con.prepareStatement("INSERT INTO SignUp(Username, Password, FirstName, LastName, Photo) VALUES(?, ?, ?, ?, ?)");

ps.setString(1,Username.getText());

ps.setString(2,String.valueOf(Password.getPassword()));

ps.setString(3,FirstName.getText());

ps.setString(4,LastName.getText());

InputStream img = new FileInputStream(new File(imagePath));

ps.setBlob(5, img);

stmt = con.createStatement();

if(existingUser(Username.getText())){

JOptionPane.showMessageDialog(null,"Username Taken");

}

else{

if(ps.executeUpdate() != 0){

JOptionPane.showMessageDialog(null,"Account Created");

}

else{

JOptionPane.showMessageDialog(null,"Account Could Not Be Created");

}

}

} catch (Exception ex) {

Logger.getLogger(signupForm.class.getName()).log(Level.SEVERE, null, ex);

}

}

loginForm lf = new loginForm();

lf.setVisible(true);

lf.pack();

lf.setLocationRelativeTo(null);

lf.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

this.dispose();

}

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

// TODO add your handling code here:

}

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

helpSignUp hs = new helpSignUp();

hs.setVisible(true);

hs.pack();

hs.setLocationRelativeTo(null);

hs.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

this.dispose();

}

## InfoSave

This code is the code for the main screen, to Add, Delete, Update, Clear, Refresh and logout.

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

String FirstName = txtFirstName.getText();

String LastName = txtLastName.getText();

String IDNum = txtIDNum.getText();

String PassportNum = txtPassportNum.getText();

String PhoneNum = txtPhoneNum.getText();

String Email = txtEmail.getText();

String Address = txtAddress.getText();

int CID = InfoSave.currentUserID;

info i = new info(0,FirstName,LastName,IDNum,PassportNum,PhoneNum,Email,Address,CID);

infoQuery iq = new infoQuery();

iq.insert(i);

}

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

String FirstName = txtFirstName.getText();

String LastName = txtLastName.getText();

String IDNum = txtIDNum.getText();

String PassportNum = txtPassportNum.getText();

String PhoneNum = txtPhoneNum.getText();

String Email = txtEmail.getText();

String Address = txtAddress.getText();

int ID = Integer.valueOf(txtID.getText());

info i = new info(ID,FirstName,LastName,IDNum,PassportNum,PhoneNum,Email,Address,0);

infoQuery iq = new infoQuery();

iq.update(i);

}

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

int ID = Integer.valueOf(txtID.getText());

infoQuery iq = new infoQuery();

iq.delete(ID);

txtFirstName.setText("");

txtLastName.setText("");

txtIDNum.setText("");

txtPassportNum.setText("");

txtPhoneNum.setText("");

txtEmail.setText("");

txtAddress.setText("");

txtID.setText("");

}

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

inputTable();

}

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

loginForm lf = new loginForm();

lf.setVisible(true);

lf.pack();

lf.setLocationRelativeTo(null);

lf.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

this.dispose();

}

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

txtFirstName.setText("");

txtLastName.setText("");

txtIDNum.setText("");

txtPassportNum.setText("");

txtPhoneNum.setText("");

txtEmail.setText("");

txtAddress.setText("");

txtID.setText("");

}

## function

This code creates a way to browse for a profile picture from a file on your computer and resizes the picture to fit the labels.

public ImageIcon resizePicture(String path, byte[] blob, int width, int height){

ImageIcon image;

if(path != null){

image = new ImageIcon(path);

}

else{

image = new ImageIcon(blob);

}

Image img = image.getImage().getScaledInstance(width, height, Image.SCALE\_SMOOTH);

ImageIcon pic = new ImageIcon(img);

return pic;

}

public String browse(JLabel lbl){

String path = "";

JFileChooser filec = new JFileChooser();

filec.setCurrentDirectory(new File(System.getProperty("user.home")));

//File Extension

FileNameExtensionFilter imgFilter = new FileNameExtensionFilter("\*.Images","jpg","png");

filec.addChoosableFileFilter(imgFilter);

int fileState = filec.showSaveDialog(null);

//if a file is chosen

if(fileState == JFileChooser.APPROVE\_OPTION){

File imgSelect = filec.getSelectedFile();

path = imgSelect.getAbsolutePath();

lbl.setIcon(resizePicture(path, null, lbl.getWidth(), lbl.getHeight()));

}

//if selection cancelled

else if(fileState == JFileChooser.CANCEL\_OPTION){

System.out.println("No Image Selected");

}

return path;

}

## infoQuery

This code creates the statements that change the database tables.

public void insert(info i){

Connection con = myConnection.getConnection();

PreparedStatement ps;

try {

ps = con.prepareStatement("INSERT INTO Info(FirstName, LastName, IDNum, PassportNum, PhoneNum, Email, Address, CID) VALUES(?, ?, ?, ?, ?, ?, ?, ?)");

ps.setString(1,i.getFirstName());

ps.setString(2,i.getLastName());

ps.setString(3,i.getIDNum());

ps.setString(4,i.getPassportNum());

ps.setString(5,i.getPhoneNum());

ps.setString(6,i.getEmail());

ps.setString(7,i.getAddress());

ps.setInt(8,i.getCID());

if(ps.executeUpdate() != 0){

JOptionPane.showMessageDialog(null,"Member Added");

}

else{

JOptionPane.showMessageDialog(null,"Member Could Not Be Added");

}

} catch (SQLException ex) {

Logger.getLogger(infoQuery.class.getName()).log(Level.SEVERE, null, ex);

}

}

public void update(info i){

Connection con = myConnection.getConnection();

PreparedStatement ps;

try {

ps = con.prepareStatement("UPDATE Info SET FirstName = ?, LastName = ?, IDNum = ?, PassportNum = ?, PhoneNum = ?, Email = ?, Address = ? WHERE ID = ?");

ps.setString(1,i.getFirstName());

ps.setString(2,i.getLastName());

ps.setString(3,i.getIDNum());

ps.setString(4,i.getPassportNum());

ps.setString(5,i.getPhoneNum());

ps.setString(6,i.getEmail());

ps.setString(7,i.getAddress());

ps.setInt(8, i.getID());

if(ps.executeUpdate() != 0){

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

}

else{

JOptionPane.showMessageDialog(null,"Member Info Could Not Be Updated");

}

} catch (SQLException ex) {

Logger.getLogger(infoQuery.class.getName()).log(Level.SEVERE, null, ex);

}

}

public void delete(int ID){

Connection con = myConnection.getConnection();

PreparedStatement ps;

try {

ps = con.prepareStatement("DELETE FROM Info WHERE ID = ?");

ps.setInt(1, ID);

if(ps.executeUpdate() != 0){

JOptionPane.showMessageDialog(null,"Member Deleted");

}

else{

JOptionPane.showMessageDialog(null,"Member Could Not Be Deleted");

}

} catch (SQLException ex) {

Logger.getLogger(infoQuery.class.getName()).log(Level.SEVERE, null, ex);

}

}

//creates a list of members for the account

public ArrayList<info> infoList(int userID){

ArrayList<info> iList = new ArrayList<>();

Connection con = myConnection.getConnection();

Statement stmt;

ResultSet rs;

try {

stmt = con.createStatement();

rs = stmt.executeQuery("SELECT ID, FirstName, LastName, IDNum, PassportNum, PhoneNum, Email, Address, CID FROM Info WHERE CID = " + userID);

info in;

while(rs.next()){

in = new info(rs.getInt("ID"), rs.getString("FirstName"), rs.getString("LastName"), rs.getString("IDNum"), rs.getString("PassportNum"), rs.getString("PhoneNum"), rs.getString("Email"), rs.getString("Address"), rs.getInt("CID"));

iList.add(in);

}

} catch (SQLException ex) {

Logger.getLogger(infoQuery.class.getName()).log(Level.SEVERE, null, ex);

}

return iList;

}

## info

This code constructs the variables used in the program so that information can be added to the database tables.

private Integer ID;

private String FirstName;

private String LastName;

private String IDNum;

private String PassportNum;

private String PhoneNum;

private String Email;

private String Address;

private Integer CID;

public info() {}

public info(Integer ID, String FirstName, String LastName, String IDNum, String PassportNum, String PhoneNum, String Email, String Address, Integer CID) {

this.ID = ID;

this.FirstName = FirstName;

this.LastName = LastName;

this.IDNum = IDNum;

this.PassportNum = PassportNum;

this.PhoneNum = PhoneNum;

this.Email = Email;

this.Address = Address;

this.CID = CID;

}

## myConnection

This code creates the connection between the program and the database.

public class myConnection {

private static File file = new File("InfoSave.accdb");

public static Connection getConnection(){

Connection con = null;

try {

Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");

con = DriverManager.getConnection("jdbc:ucanaccess://" + file.getAbsolutePath().replaceAll("\\\\","\\\\\\\\"));

} catch (ClassNotFoundException | SQLException ex) {

Logger.getLogger(loginForm.class.getName()).log(Level.SEVERE, null, ex);

}

return con;

}

}

## tableModel

This code is used to generate a custom table based on the headers and information in the database Info table.

private String[] columns;

private Object[][] rows;

public tableModel() {}

public tableModel(Object[][] data, String[] columnsName) {

this.columns = columnsName;

this.rows = data;

}

public Class getColumn(int col){

//the table has 9 columns

if(col == 8){

return Icon.class;

}

else{

return getValueAt(0, col).getClass();

}

}

@Override

public int getRowCount() {

return this.rows.length;

}

@Override

public int getColumnCount() {

return this.columns.length;

}

@Override

public Object getValueAt(int rowIndex, int columnIndex) {

return this.rows[rowIndex][columnIndex];

}

@Override

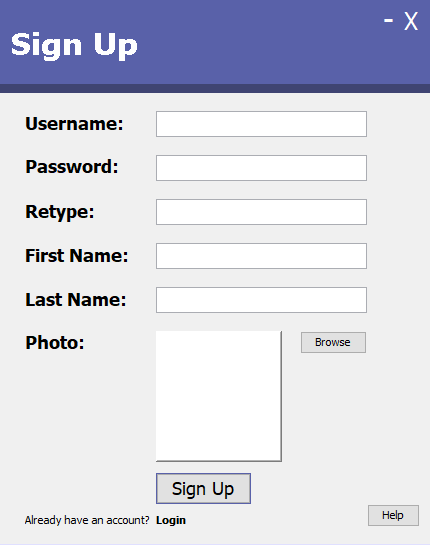
public String getColumnName(int col){

return this.columns[col];

}

# Defensive Programming

## Sign Up



In order for the user to click Sign Up, all fields must be filled in, an image must be selected, the retyped password must be the same as the password and the username must not be taken which the program will check for by searching through the database table for the inputted username.

public boolean inputValid(){

//username, password, retyped password, first name and last name field filled validation

if(Username.getText().equals("") || String.valueOf(Password.getPassword()).equals("") || String.valueOf(Retype.getPassword()).equals("") || FirstName.getText().equals("") || LastName.getText().equals("")){

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

return false;

}

//Password = retyped password validation

else if(!String.valueOf(Password.getPassword()).equals(String.valueOf(Retype.getPassword()))){

JOptionPane.showMessageDialog(null, "The passwords do not match");

return false;

}

//image section contains image validation

else if(imagePath == null){

JOptionPane.showMessageDialog(null, "Please select an image");

return false;

}

else{

return true;

}

}

public boolean existingUser(String s){

boolean exist = false;

Connection con = myConnection.getConnection();

PreparedStatement ps;

ResultSet rs;

try {

ps = con.prepareStatement("SELECT \* FROM SignUp WHERE Username = ?");

ps.setString(1,Username.getText());

rs = ps.executeQuery();

if(rs.next()){

exist = true;

}

} catch (SQLException ex) {

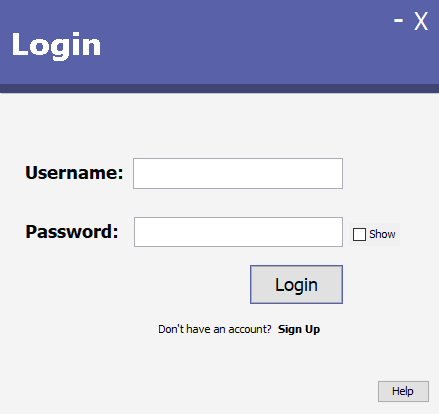
Logger.getLogger(loginForm.class.getName()).log(Level.SEVERE, null, ex);

}

return exist;

}

## Login



The user cannot login without signing up and the code checks username and password that are in the database:

ps = con.prepareStatement("SELECT UserName, Password, Photo, ID FROM SignUp WHERE Username = ? AND Password = ?");

ps.setString(1,Username.getText());

ps.setString(2,String.valueOf(Password.getPassword()));

rs = ps.executeQuery();

# Externally sourced code

* <https://stackoverflow.com/questions/20595657/making-custom-close-and-minimize-button>
* <https://stackoverflow.com/questions/19755259/hide-show-password-in-a-jtextfield-java-swing>
* <https://stackoverflow.com/questions/16343098/resize-a-picture-to-fit-a-jlabel>
* <https://alvinalexander.com/java/edu/pj/jdbc/jdbc0002>
* <https://coderanch.com/t/299414/databases/insert-data-MS-Access-JAVA>
* <https://stackoverflow.com/questions/5505627/how-to-give-drag-functionaly-to-a-jfame-with-no-titlebar>
* <https://stackoverflow.com/questions/10896151/java-sql-sqlexception-parameter-index-out-of-range-1-number-of-parameters-wh>
* <https://stackoverflow.com/questions/29345792/java-jtable-getting-the-data-of-the-selected-row/38981623>
* <https://stackoverflow.com/questions/14300580/java-jtable-not-showing-gridlines>
* <https://docs.oracle.com/javase/tutorial/uiswing/components/filechooser.html>

# Explanation of Critical Algorithms

## Constructor of info

This is a critical algorithm to because if there were no variables, the inputted information could not be used.

public info(Integer ID, String FirstName, String LastName, String IDNum, String PassportNum, String PhoneNum, String Email, String Address, Integer CID) {

this.ID = ID;

this.FirstName = FirstName;

this.LastName = LastName;

this.IDNum = IDNum;

this.PassportNum = PassportNum;

this.PhoneNum = PhoneNum;

this.Email = Email;

this.Address = Address;

this.CID = CID;

}

## Array constructor

This is a critical algorithm because the values would not be able to be put into the database without it.

public ArrayList<info> infoList(int userID){

ArrayList<info> iList = new ArrayList<>(); //creates new array list using info

Connection con = myConnection.getConnection();

Statement stmt;

ResultSet rs;

try {

stmt = con.createStatement();

rs = stmt.executeQuery("SELECT ID, FirstName, LastName, IDNum, PassportNum, PhoneNum, Email, Address, CID FROM Info WHERE CID = " + userID);

info in;

while(rs.next()){

in = new info(rs.getInt("ID"), rs.getString("FirstName"), rs.getString("LastName"), rs.getString("IDNum"), rs.getString("PassportNum"), rs.getString("PhoneNum"), rs.getString("Email"), rs.getString("Address"), rs.getInt("CID"));

iList.add(in);

}

} catch (SQLException ex) {

Logger.getLogger(infoQuery.class.getName()).log(Level.SEVERE, null, ex);

}

return iList;

}

## myConnection

This is a critical algorithm because without it, there would be no connection to the database.

public class myConnection {

private static File file = new File("InfoSave.accdb");

public static Connection getConnection(){

Connection con = null;

try {

Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");

con = DriverManager.getConnection("jdbc:ucanaccess://" + file.getAbsolutePath().replaceAll("\\\\","\\\\\\\\"));

} catch (ClassNotFoundException | SQLException ex) {

Logger.getLogger(loginForm.class.getName()).log(Level.SEVERE, null, ex);

}

return con;

}

}

# Explanation of advanced techniques

* **Show Password:** this isn’t a commonly used action in school level IT but was definitely necessary.

**if(Show.isSelected()){**

**Password.setEchoChar((char)0);**

**}**

**else{**

**Password.setEchoChar('\*');**

**}**

* **Check for existing user:** this code takes the username put into the field and scans through the whole database table comparing it to the other usernames to make sure the username isn’t already taken.

**public boolean existingUser(String s){**

**boolean exist = false;**

**Connection con = myConnection.getConnection();**

**PreparedStatement ps;**

**ResultSet rs;**

**try {**

**ps = con.prepareStatement("SELECT \* FROM SignUp WHERE Username = ?");**

**ps.setString(1,Username.getText());**

**rs = ps.executeQuery();**

**if(rs.next()){**

**exist = true;**

**}**

**} catch (SQLException ex) {**

**Logger.getLogger(loginForm.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**return exist;**

**}**

* **File Chooser:** this code is used to open a file explorer that can help you select a profile picture from anywhere on your computer for your profile picture using a few different extensions.

**public String browse(JLabel lbl){**

**String path = "";**

**JFileChooser filec = new JFileChooser();**

**filec.setCurrentDirectory(new File(System.getProperty("user.home")));**

**//File Extension**

**FileNameExtensionFilter imgFilter = new FileNameExtensionFilter("\*.Images","jpg","png");**

**filec.addChoosableFileFilter(imgFilter);**

**int fileState = filec.showSaveDialog(null);**

**//if a file is chosen**

**if(fileState == JFileChooser.APPROVE\_OPTION){**

**File imgSelect = filec.getSelectedFile();**

**path = imgSelect.getAbsolutePath();**

**lbl.setIcon(resizePicture(path, null, lbl.getWidth(), lbl.getHeight()));**

**}**

**//if selection cancelled**

**else if(fileState == JFileChooser.CANCEL\_OPTION){**

**System.out.println("No Image Selected");**

**}**

**return path;**

**}**

* **Selecting a member:** this code is used so when you click on a member record in the table it will input the information into the corresponding fields.

**int rowIndex = jTable1.getSelectedRow();**

**txtID.setText(jTable1.getValueAt(rowIndex, 0).toString());**

**txtFirstName.setText(jTable1.getValueAt(rowIndex, 1).toString());**

**txtLastName.setText(jTable1.getValueAt(rowIndex, 2).toString());**

**txtIDNum.setText(jTable1.getValueAt(rowIndex, 3).toString());**

**txtPassportNum.setText(jTable1.getValueAt(rowIndex, 4).toString());**

**txtPhoneNum.setText(jTable1.getValueAt(rowIndex, 5).toString());**

**txtEmail.setText(jTable1.getValueAt(rowIndex, 6).toString());**

**txtAddress.setText(jTable1.getValueAt(rowIndex, 7).toString());**

* **Table model:** this code is used to generate a custom table in the table areabased on the information from the database.

**public class tableModel extends AbstractTableModel{**

**private String[] columns;**

**private Object[][] rows;**

**public tableModel() {}**

**public tableModel(Object[][] data, String[] columnsName) {**

**this.columns = columnsName;**

**this.rows = data;**

**}**

**public Class getColumn(int col){**

**//the table has 9 columns**

**if(col == 8){**

**return Icon.class;**

**}**

**else{**

**return getValueAt(0, col).getClass();**

**}**

**}**

**@Override**

**public int getRowCount() {**

**return this.rows.length;**

**}**

**@Override**

**public int getColumnCount() {**

**return this.columns.length;**

**}**

**@Override**

**public Object getValueAt(int rowIndex, int columnIndex) {**

**return this.rows[rowIndex][columnIndex];**

**}**

**@Override**

**public String getColumnName(int col){**

**return this.columns[col];**

**}**

**}**

# 

# Testing Table

Tester: Helen Marais

Date: 2019/08/10

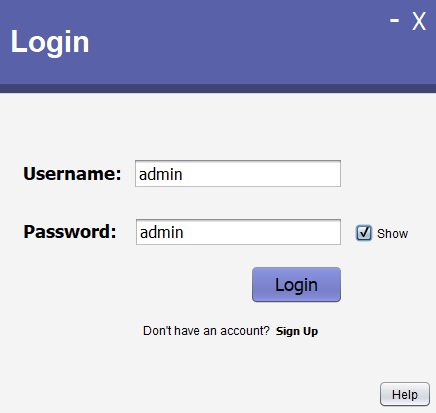
|  |  |
| --- | --- |
| **Functions** | **Yes or No** |
| **Login Screen** |  |
| A login screen is displayed when the program is run | Yes |
| The login screen contains text fields for the user to enter a username and password | Yes |
| The screen contains buttons to login or sign up | Yes |
| The details entered are checked against the database when the login button is clicked | Yes |
| If the details are incorrect then an error message is displayed | Yes |
| The screen contains text fields for the user to enter a username and password | Yes |
| **Main Screen** |  |
| A main screen is displayed once the user has logged in | Yes |
| The screen contains all fields to input new information and buttons to add, delete, update the table | Yes |
| **Help Screen** |  |
| The help screen is displayed when the help button is clicked | Yes |
| Relevant details are displayed | Yes |

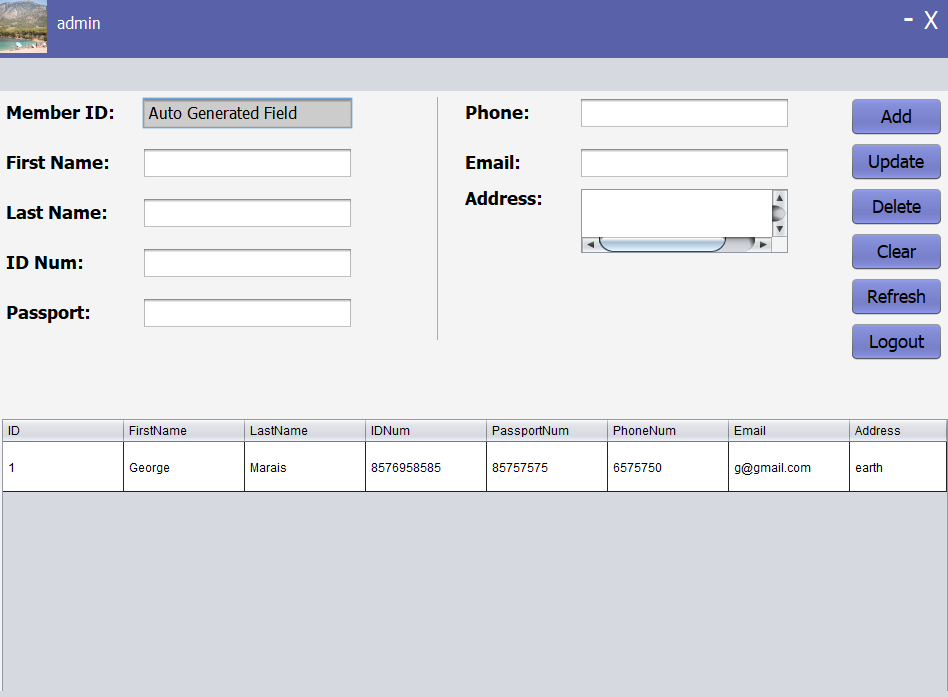
# Test Plan

The password field will be tested using standard, extreme and abnormal values to check if your account is secure.

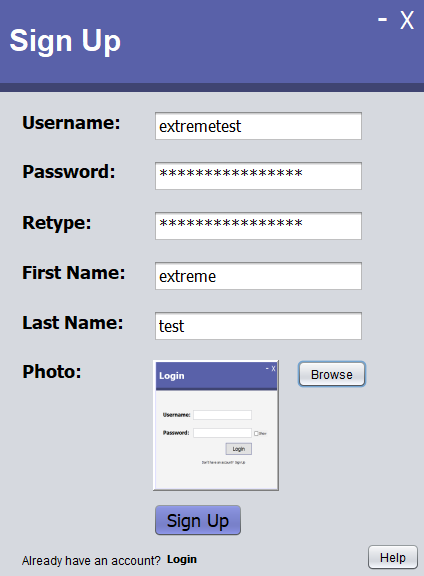
|  |  |  |  |
| --- | --- | --- | --- |
| Type | Password Entered | Expected Outcome | Actual Outcome |
| Standard | “admin” | Creates account | Creates account |
| Extreme | “3h4kgv8dje8dkei3” | Creates account | Creates account |
| Abnormal | “” | Password required | Password required |

### Standard Test

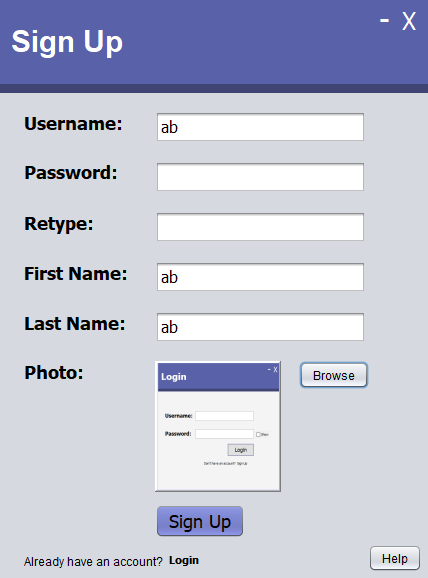
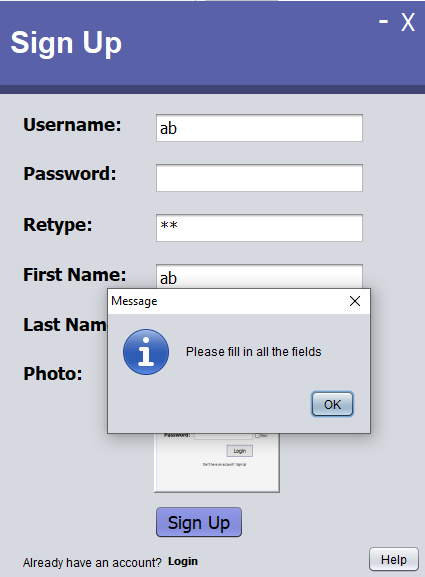




### Extreme Test



### Abnormal Test



# Code

## loginForm

//George Marais Gr12 IT PAT - Infosave

import java.awt.Cursor;

import javax.swing.JFrame;

import java.sql.\*;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JOptionPane;

public class loginForm extends javax.swing.JFrame {

@SuppressWarnings("OverridableMethodCallInConstructor")

//creates loginForm

public loginForm() {

initComponents();

//centers the window

this.setLocationRelativeTo(null);

}

//creates connection to the database

Connection conn;

PreparedStatement pat;

/\*\*

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

\*/

@SuppressWarnings("unchecked")

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

private void initComponents() {

jPanel1 = new javax.swing.JPanel();

Login = new java.awt.Label();

Exit = new javax.swing.JLabel();

Minimize = new javax.swing.JLabel();

jPanel2 = new javax.swing.JPanel();

jPanel3 = new javax.swing.JPanel();

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

Username = new javax.swing.JTextField();

Password = new javax.swing.JPasswordField();

Show = new javax.swing.JCheckBox();

LoginButton = new javax.swing.JButton();

jLabel3 = new javax.swing.JLabel();

SignUp = new javax.swing.JLabel();

help = new javax.swing.JButton();

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

setUndecorated(true);

jPanel1.setBackground(new java.awt.Color(89, 97, 169));

jPanel1.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Login.setFont(new java.awt.Font("Verdana", 1, 30)); // NOI18N

Login.setForeground(new java.awt.Color(254, 254, 254));

Login.setText("Login");

Exit.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N

Exit.setForeground(new java.awt.Color(254, 254, 254));

Exit.setText("X");

Exit.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Exit.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

ExitMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

ExitMouseEntered(evt);

}

});

Minimize.setFont(new java.awt.Font("Tahoma", 0, 30)); // NOI18N

Minimize.setForeground(new java.awt.Color(254, 254, 254));

Minimize.setText("-");

Minimize.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Minimize.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

MinimizeMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

MinimizeMouseEntered(evt);

}

});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

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

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

.addComponent(Minimize)

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

.addComponent(Exit)

.addGap(12, 12, 12))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

.addComponent(Login, javax.swing.GroupLayout.DEFAULT\_SIZE, 64, Short.MAX\_VALUE)

.addContainerGap())

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(Minimize)

.addComponent(Exit))

.addGap(0, 0, Short.MAX\_VALUE))

);

jPanel2.setBackground(new java.awt.Color(63, 68, 114));

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 0, Short.MAX\_VALUE)

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 9, Short.MAX\_VALUE)

);

jPanel3.setBackground(new java.awt.Color(244, 244, 244));

jPanel3.setMinimumSize(new java.awt.Dimension(436, 260));

jPanel3.setName(""); // NOI18N

jPanel3.setPreferredSize(new java.awt.Dimension(436, 320));

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel1.setText("Password: ");

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel2.setText("Username: ");

Username.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

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

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

UsernameActionPerformed(evt);

}

});

Password.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

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

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

PasswordActionPerformed(evt);

}

});

Show.setText("Show");

Show.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseEntered(java.awt.event.MouseEvent evt) {

ShowMouseEntered(evt);

}

});

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

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

ShowActionPerformed(evt);

}

});

LoginButton.setBackground(new java.awt.Color(89, 97, 169));

LoginButton.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

LoginButton.setText("Login");

LoginButton.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseEntered(java.awt.event.MouseEvent evt) {

LoginButtonMouseEntered(evt);

}

});

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

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

LoginButtonActionPerformed(evt);

}

});

jLabel3.setText("Don't have an account?");

SignUp.setFont(new java.awt.Font("Tahoma", 1, 11)); // NOI18N

SignUp.setText("Sign Up");

SignUp.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

SignUpMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

SignUpMouseEntered(evt);

}

});

help.setText("Help");

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

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

helpActionPerformed(evt);

}

});

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);

jPanel3.setLayout(jPanel3Layout);

jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGap(25, 25, 25)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addComponent(jLabel2)

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

.addComponent(Username, javax.swing.GroupLayout.PREFERRED\_SIZE, 210, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel3Layout.createSequentialGroup()

.addComponent(jLabel1)

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

.addComponent(Password, javax.swing.GroupLayout.PREFERRED\_SIZE, 209, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

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

.addComponent(Show)

.addContainerGap(40, Short.MAX\_VALUE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel3Layout.createSequentialGroup()

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel3Layout.createSequentialGroup()

.addComponent(jLabel3)

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

.addComponent(SignUp)

.addGap(120, 120, 120))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel3Layout.createSequentialGroup()

.addComponent(help)

.addContainerGap())))

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGap(64, 64, 64)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2)

.addComponent(Username, javax.swing.GroupLayout.PREFERRED\_SIZE, 31, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(28, 28, 28)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel1)

.addComponent(Password, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Show))

.addGap(18, 18, 18)

.addComponent(LoginButton, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel3)

.addComponent(SignUp))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 44, Short.MAX\_VALUE)

.addComponent(help)

.addContainerGap())

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 440, javax.swing.GroupLayout.PREFERRED\_SIZE)

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(0, 0, 0)

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(1, 1, 1)

.addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

);

pack();

}// </editor-fold>

private void MinimizeMouseClicked(java.awt.event.MouseEvent evt) {

//sets - when clicked to minimize the window

this.setState(JFrame.ICONIFIED);

}

private void ExitMouseClicked(java.awt.event.MouseEvent evt) {

//closes the window

System.exit(0);

}

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

// TODO add your handling code here:

}

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

// TODO add your handling code here:

}

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

//used to show an hide the password

if(Show.isSelected()){

Password.setEchoChar((char)0);

}

else{

Password.setEchoChar('\*');

}

}

private void SignUpMouseClicked(java.awt.event.MouseEvent evt) {

//closes the Login window and opens the Sign up window

signupForm sf = new signupForm();

sf.setVisible(true);

sf.pack();

sf.setLocationRelativeTo(null);

sf.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

this.dispose();

}

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

//creates connection

Connection con = myConnection.getConnection();

PreparedStatement ps;

ResultSet rs;

try {

ps = con.prepareStatement("SELECT UserName, Password, Photo, ID FROM SignUp WHERE Username = ? AND Password = ?");

ps.setString(1,Username.getText());

ps.setString(2,String.valueOf(Password.getPassword()));

rs = ps.executeQuery();

if(rs.next()){

InfoSave.currentUserID = rs.getInt("ID");

//closes the Login window and opens the InfoSave window

InfoSave is = new InfoSave();

is.setVisible(true);

is.pack();

is.setLocationRelativeTo(null);

is.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

//shows profile picture

is.lblUserPic.setIcon(new functions().resizePicture(null, rs.getBytes(3), is.lblUserPic.getWidth(), is.lblUserPic.getHeight()));

//shows username

is.lblUsername.setText(rs.getString(1));

this.dispose();

}

else{

JOptionPane.showMessageDialog(null, "Failed to Login");

}

} catch (SQLException ex) {

Logger.getLogger(loginForm.class.getName()).log(Level.SEVERE, null, ex);

}

}

private void ExitMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over X, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Exit.setCursor(cursor);

Exit.setVisible(true);

}

private void MinimizeMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over -, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Minimize.setCursor(cursor);

Minimize.setVisible(true);

}

private void ShowMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over show box, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Show.setCursor(cursor);

Show.setVisible(true);

}

private void LoginButtonMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over login button, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Login.setCursor(cursor);

Login.setVisible(true);

}

private void SignUpMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over sign up button, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

SignUp.setCursor(cursor);

SignUp.setVisible(true);

}

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

//takes user to the login help screen

helpLogin hl = new helpLogin();

hl.setVisible(true);

hl.pack();

hl.setLocationRelativeTo(null);

hl.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

this.dispose();

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

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

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 | InstantiationException | IllegalAccessException | javax.swing.UnsupportedLookAndFeelException ex) {

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

}

//</editor-fold>

//</editor-fold>

/\* Create and display the form \*/

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

@Override

public void run() {

new loginForm().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JLabel Exit;

private java.awt.Label Login;

private javax.swing.JButton LoginButton;

private javax.swing.JLabel Minimize;

private javax.swing.JPasswordField Password;

private javax.swing.JCheckBox Show;

private javax.swing.JLabel SignUp;

private javax.swing.JTextField Username;

private javax.swing.JButton help;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JPanel jPanel3;

// End of variables declaration

}

## signupForm

//George Marais Gr12 IT PAT - Infosave

import java.awt.Cursor;

import java.io.File;

import java.io.FileInputStream;

import java.io.InputStream;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JFrame;

import javax.swing.JOptionPane;

public class signupForm extends javax.swing.JFrame {

String imagePath = null;

//creates signupForm

public signupForm() {

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() {

jPanel1 = new javax.swing.JPanel();

Exit = new javax.swing.JLabel();

Minimize = new javax.swing.JLabel();

jPanel2 = new javax.swing.JPanel();

Title = new java.awt.Label();

jLabel1 = new javax.swing.JLabel();

Login = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jLabel8 = new javax.swing.JLabel();

jLabel9 = new javax.swing.JLabel();

Username = new javax.swing.JTextField();

FirstName = new javax.swing.JTextField();

LastName = new javax.swing.JTextField();

jLabel2 = new javax.swing.JLabel();

Photo = new javax.swing.JLabel();

Browse = new javax.swing.JButton();

SignUp = new javax.swing.JButton();

Password = new javax.swing.JPasswordField();

Retype = new javax.swing.JPasswordField();

help = new javax.swing.JButton();

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

setUndecorated(true);

jPanel1.setBackground(new java.awt.Color(89, 97, 169));

jPanel1.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Exit.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N

Exit.setForeground(new java.awt.Color(254, 254, 254));

Exit.setText("X");

Exit.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Exit.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

ExitMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

ExitMouseEntered(evt);

}

});

Minimize.setFont(new java.awt.Font("Tahoma", 0, 30)); // NOI18N

Minimize.setForeground(new java.awt.Color(254, 254, 254));

Minimize.setText("-");

Minimize.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Minimize.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

MinimizeMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

MinimizeMouseEntered(evt);

}

});

jPanel2.setBackground(new java.awt.Color(63, 68, 114));

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 0, Short.MAX\_VALUE)

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 9, Short.MAX\_VALUE)

);

Title.setFont(new java.awt.Font("Verdana", 1, 30)); // NOI18N

Title.setForeground(new java.awt.Color(254, 254, 254));

Title.setText("Sign Up");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

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

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

.addComponent(Minimize)

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

.addComponent(Exit)

.addGap(12, 12, 12))

.addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(Minimize)

.addComponent(Exit))

.addGap(0, 0, Short.MAX\_VALUE))

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

.addComponent(Title, javax.swing.GroupLayout.DEFAULT\_SIZE, 64, Short.MAX\_VALUE)))

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

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

);

jLabel1.setText("Already have an account?");

Login.setFont(new java.awt.Font("Tahoma", 1, 11)); // NOI18N

Login.setText("Login");

Login.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

LoginMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

LoginMouseEntered(evt);

}

});

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel4.setText("Username:");

jLabel5.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel5.setText("Password:");

jLabel6.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel6.setText("First Name:");

jLabel8.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel8.setText("Retype:");

jLabel9.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel9.setText("Photo:");

Username.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

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

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

UsernameActionPerformed(evt);

}

});

FirstName.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

LastName.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel2.setText("Last Name:");

Photo.setBackground(new java.awt.Color(255, 255, 255));

Photo.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));

Photo.setOpaque(true);

Browse.setText("Browse");

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

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

BrowseActionPerformed(evt);

}

});

SignUp.setBackground(new java.awt.Color(89, 97, 169));

SignUp.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

SignUp.setText("Sign Up");

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

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

SignUpActionPerformed(evt);

}

});

Password.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

Retype.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

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

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

RetypeActionPerformed(evt);

}

});

help.setText("Help");

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

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

helpActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel1)

.addGap(6, 6, 6)

.addComponent(Login)

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

.addComponent(help))

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel4)

.addGap(32, 32, 32)

.addComponent(Username, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel5)

.addGap(37, 37, 37)

.addComponent(Password, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel8)

.addGap(61, 61, 61)

.addComponent(Retype, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel6)

.addGap(27, 27, 27)

.addComponent(FirstName, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel2)

.addGap(29, 29, 29)

.addComponent(LastName, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel9)

.addGap(71, 71, 71)

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

.addComponent(SignUp)

.addGroup(layout.createSequentialGroup()

.addComponent(Photo, javax.swing.GroupLayout.PREFERRED\_SIZE, 126, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(Browse)))))

.addGap(0, 53, Short.MAX\_VALUE)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addComponent(jPanel1, 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.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(1, 1, 1)

.addComponent(jLabel4))

.addComponent(Username, 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.LEADING)

.addComponent(jLabel5)

.addComponent(Password, 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.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(1, 1, 1)

.addComponent(jLabel8))

.addComponent(Retype, 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.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(1, 1, 1)

.addComponent(jLabel6))

.addComponent(FirstName, 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.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(1, 1, 1)

.addComponent(jLabel2))

.addComponent(LastName, 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.LEADING)

.addComponent(jLabel9)

.addComponent(Photo, javax.swing.GroupLayout.PREFERRED\_SIZE, 131, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Browse))

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

.addComponent(SignUp)

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

.addComponent(help, javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(layout.createSequentialGroup()

.addGap(9, 9, 9)

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

.addComponent(jLabel1)

.addComponent(Login))))

.addContainerGap())

);

pack();

setLocationRelativeTo(null);

}// </editor-fold>

private void ExitMouseClicked(java.awt.event.MouseEvent evt) {

//closes window

System.exit(0);

}

private void MinimizeMouseClicked(java.awt.event.MouseEvent evt) {

//sets - when clicked to minimize the window

this.setState(JFrame.ICONIFIED);

}

private void ExitMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over X, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Exit.setCursor(cursor);

Exit.setVisible(true);

}

private void MinimizeMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over -, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Minimize.setCursor(cursor);

Minimize.setVisible(true);

}

private void LoginMouseClicked(java.awt.event.MouseEvent evt) {

//takes user to login screen

loginForm lf = new loginForm();

lf.setVisible(true);

lf.pack();

lf.setLocationRelativeTo(null);

lf.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

this.dispose();

}

private void LoginMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over login button, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Login.setCursor(cursor);

Login.setVisible(true);

}

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

// TODO add your handling code here:

}

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

functions f = new functions();

imagePath = f.browse(Photo);

}

//performs a validation check on all the fields

public boolean inputValid(){

//username, password, retyped password, first name and last name field filled validation

if(Username.getText().equals("") || String.valueOf(Password.getPassword()).equals("") || String.valueOf(Retype.getPassword()).equals("") || FirstName.getText().equals("") || LastName.getText().equals("")){

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

return false;

}

//Password = retyped password validation

else if(!String.valueOf(Password.getPassword()).equals(String.valueOf(Retype.getPassword()))){

JOptionPane.showMessageDialog(null, "The passwords do not match");

return false;

}

//image section contains image validation

else if(imagePath == null){

JOptionPane.showMessageDialog(null, "Please select an image");

return false;

}

else{

return true;

}

}

//checks if the username inputted is already taken

public boolean existingUser(String s){

boolean exist = false;

Connection con = myConnection.getConnection();

PreparedStatement ps;

ResultSet rs;

try {

ps = con.prepareStatement("SELECT \* FROM SignUp WHERE Username = ?");

ps.setString(1,Username.getText());

rs = ps.executeQuery();

if(rs.next()){

exist = true;

}

} catch (SQLException ex) {

Logger.getLogger(loginForm.class.getName()).log(Level.SEVERE, null, ex);

}

return exist;

}

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

//creates new account

if(inputValid()){

Connection con = myConnection.getConnection();

PreparedStatement ps;

Statement stmt = null;

try {

ps = con.prepareStatement("INSERT INTO SignUp(Username, Password, FirstName, LastName, Photo) VALUES(?, ?, ?, ?, ?)");

ps.setString(1,Username.getText());

ps.setString(2,String.valueOf(Password.getPassword()));

ps.setString(3,FirstName.getText());

ps.setString(4,LastName.getText());

InputStream img = new FileInputStream(new File(imagePath));

ps.setBlob(5, img);

stmt = con.createStatement();

if(existingUser(Username.getText())){

JOptionPane.showMessageDialog(null,"Username Taken");

}

else{

if(ps.executeUpdate() != 0){

JOptionPane.showMessageDialog(null,"Account Created");

}

else{

JOptionPane.showMessageDialog(null,"Account Could Not Be Created");

}

}

} catch (Exception ex) {

Logger.getLogger(signupForm.class.getName()).log(Level.SEVERE, null, ex);

}

}

//takes user to login screen when account is created

loginForm lf = new loginForm();

lf.setVisible(true);

lf.pack();

lf.setLocationRelativeTo(null);

lf.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

this.dispose();

}

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

// TODO add your handling code here:

}

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

//takes user to the sign up help screen

helpSignUp hs = new helpSignUp();

hs.setVisible(true);

hs.pack();

hs.setLocationRelativeTo(null);

hs.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

this.dispose();

}

/\*\*

\* @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(signupForm.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(signupForm.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 signupForm().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton Browse;

private javax.swing.JLabel Exit;

private javax.swing.JTextField FirstName;

private javax.swing.JTextField LastName;

private javax.swing.JLabel Login;

private javax.swing.JLabel Minimize;

private javax.swing.JPasswordField Password;

private javax.swing.JLabel Photo;

private javax.swing.JPasswordField Retype;

private javax.swing.JButton SignUp;

private java.awt.Label Title;

private javax.swing.JTextField Username;

private javax.swing.JButton help;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JLabel jLabel8;

private javax.swing.JLabel jLabel9;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

// End of variables declaration

}

## Functions

//George Marais Gr12 IT PAT - Infosave

import java.awt.Image;

import java.io.File;

import javax.swing.ImageIcon;

import javax.swing.JFileChooser;

import javax.swing.JLabel;

import javax.swing.filechooser.FileNameExtensionFilter;

public class functions {

//dispaly the image to fit the label

public ImageIcon resizePicture(String path, byte[] blob, int width, int height){

ImageIcon image;

if(path != null){

image = new ImageIcon(path);

}

else{

image = new ImageIcon(blob);

}

Image img = image.getImage().getScaledInstance(width, height, Image.SCALE\_SMOOTH);

ImageIcon pic = new ImageIcon(img);

return pic;

}

//opens a file browser so that a user can pick a profile picture

public String browse(JLabel lbl){

String path = "";

JFileChooser filec = new JFileChooser();

filec.setCurrentDirectory(new File(System.getProperty("user.home")));

//File Extension

FileNameExtensionFilter imgFilter = new FileNameExtensionFilter("\*.Images","jpg","png");

filec.addChoosableFileFilter(imgFilter);

int fileState = filec.showSaveDialog(null);

//if a file is chosen

if(fileState == JFileChooser.APPROVE\_OPTION){

File imgSelect = filec.getSelectedFile();

path = imgSelect.getAbsolutePath();

lbl.setIcon(resizePicture(path, null, lbl.getWidth(), lbl.getHeight()));

}

//if selection cancelled

else if(fileState == JFileChooser.CANCEL\_OPTION){

System.out.println("No Image Selected");

}

return path;

}

}

## InfoSave

//George Marais Gr12 IT PAT - Infosave

import java.awt.Cursor;

import java.awt.MouseInfo;

import java.util.ArrayList;

import javax.swing.JFrame;

public class InfoSave extends javax.swing.JFrame {

String imagePath = null;

public static int currentUserID;

//creates InfoSave

public InfoSave() {

initComponents();

this.setLocationRelativeTo(null);

inputTable();

jTable1.setShowGrid(true);

}

/\*\*

\* 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() {

jPanel2 = new javax.swing.JPanel();

jPanel3 = new javax.swing.JPanel();

Add = new javax.swing.JButton();

jSeparator1 = new javax.swing.JSeparator();

jLabel6 = new javax.swing.JLabel();

txtFirstName = new javax.swing.JTextField();

jLabel2 = new javax.swing.JLabel();

txtLastName = new javax.swing.JTextField();

jLabel7 = new javax.swing.JLabel();

txtIDNum = new javax.swing.JTextField();

jLabel3 = new javax.swing.JLabel();

txtPassportNum = new javax.swing.JTextField();

jLabel4 = new javax.swing.JLabel();

txtPhoneNum = new javax.swing.JTextField();

jLabel5 = new javax.swing.JLabel();

jLabel8 = new javax.swing.JLabel();

txtEmail = new javax.swing.JTextField();

jScrollPane1 = new javax.swing.JScrollPane();

txtAddress = new javax.swing.JTextArea();

jScrollPane2 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

Update = new javax.swing.JButton();

jLabel10 = new javax.swing.JLabel();

txtID = new javax.swing.JTextField();

Delete = new javax.swing.JButton();

Refresh = new javax.swing.JButton();

Logout = new javax.swing.JButton();

Clear = new javax.swing.JButton();

jPanel1 = new javax.swing.JPanel();

Exit = new javax.swing.JLabel();

Minimize = new javax.swing.JLabel();

lblUserPic = new javax.swing.JLabel();

lblUsername = new javax.swing.JLabel();

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

setUndecorated(true);

jPanel2.setBackground(new java.awt.Color(63, 68, 114));

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 0, Short.MAX\_VALUE)

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 9, Short.MAX\_VALUE)

);

jPanel3.setBackground(new java.awt.Color(244, 244, 244));

jPanel3.setMinimumSize(new java.awt.Dimension(436, 260));

jPanel3.setName(""); // NOI18N

jPanel3.setPreferredSize(new java.awt.Dimension(436, 320));

Add.setBackground(new java.awt.Color(89, 97, 169));

Add.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

Add.setText("Add");

Add.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseEntered(java.awt.event.MouseEvent evt) {

AddMouseEntered(evt);

}

});

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

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

AddActionPerformed(evt);

}

});

jSeparator1.setOrientation(javax.swing.SwingConstants.VERTICAL);

jLabel6.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel6.setText("First Name:");

txtFirstName.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel2.setText("Last Name:");

txtLastName.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

jLabel7.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel7.setText("ID Num:");

txtIDNum.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

jLabel3.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel3.setText("Passport:");

txtPassportNum.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel4.setText("Phone:");

txtPhoneNum.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

jLabel5.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel5.setText("Address:");

jLabel8.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel8.setText("Email:");

txtEmail.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

txtAddress.setColumns(20);

txtAddress.setRows(5);

jScrollPane1.setViewportView(txtAddress);

jTable1.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

{},

{},

{},

{}

},

new String [] {

}

));

jTable1.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

jTable1MouseClicked(evt);

}

});

jScrollPane2.setViewportView(jTable1);

Update.setBackground(new java.awt.Color(89, 97, 169));

Update.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

Update.setText("Update");

Update.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseEntered(java.awt.event.MouseEvent evt) {

UpdateMouseEntered(evt);

}

});

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

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

UpdateActionPerformed(evt);

}

});

jLabel10.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel10.setText("Member ID:");

txtID.setEditable(false);

txtID.setBackground(new java.awt.Color(204, 204, 204));

txtID.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

txtID.setText("Auto Generated Field");

Delete.setBackground(new java.awt.Color(89, 97, 169));

Delete.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

Delete.setText("Delete");

Delete.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseEntered(java.awt.event.MouseEvent evt) {

DeleteMouseEntered(evt);

}

});

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

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

DeleteActionPerformed(evt);

}

});

Refresh.setBackground(new java.awt.Color(89, 97, 169));

Refresh.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

Refresh.setText("Refresh");

Refresh.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseEntered(java.awt.event.MouseEvent evt) {

RefreshMouseEntered(evt);

}

});

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

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

RefreshActionPerformed(evt);

}

});

Logout.setBackground(new java.awt.Color(89, 97, 169));

Logout.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

Logout.setText("Logout");

Logout.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseEntered(java.awt.event.MouseEvent evt) {

LogoutMouseEntered(evt);

}

});

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

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

LogoutActionPerformed(evt);

}

});

Clear.setBackground(new java.awt.Color(89, 97, 169));

Clear.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

Clear.setText("Clear");

Clear.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseEntered(java.awt.event.MouseEvent evt) {

ClearMouseEntered(evt);

}

});

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

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

ClearActionPerformed(evt);

}

});

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);

jPanel3.setLayout(jPanel3Layout);

jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel6)

.addComponent(jLabel10))

.addGap(27, 27, 27))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING, jPanel3Layout.createSequentialGroup()

.addComponent(jLabel2)

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(txtID, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(txtFirstName, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(txtLastName, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(jPanel3Layout.createSequentialGroup()

.addComponent(jLabel7)

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

.addComponent(txtIDNum, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel3Layout.createSequentialGroup()

.addComponent(jLabel3)

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

.addComponent(txtPassportNum, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(83, 83, 83)

.addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED\_SIZE, 11, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel4)

.addComponent(jLabel8)

.addComponent(jLabel5))

.addGap(36, 36, 36)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(txtPhoneNum, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(txtEmail, javax.swing.GroupLayout.PREFERRED\_SIZE, 211, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(60, 60, 60)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

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

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

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

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

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

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

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

.addComponent(jScrollPane2)

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

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

.addComponent(jLabel10))

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

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

.addComponent(jLabel6))

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

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

.addComponent(jLabel2))

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel7)

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

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel3)

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

.addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED\_SIZE, 243, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addComponent(Add, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(Update, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel4)

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

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel8)

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

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel5)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 68, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(jPanel3Layout.createSequentialGroup()

.addComponent(Delete, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(Clear, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

.addComponent(Refresh, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(Logout, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(56, 56, 56)

.addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED\_SIZE, 304, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

jPanel1.setBackground(new java.awt.Color(89, 97, 169));

jPanel1.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

jPanel1.addMouseMotionListener(new java.awt.event.MouseMotionAdapter() {

public void mouseDragged(java.awt.event.MouseEvent evt) {

jPanel1MouseDragged(evt);

}

});

Exit.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N

Exit.setForeground(new java.awt.Color(254, 254, 254));

Exit.setText("X");

Exit.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Exit.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

ExitMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

ExitMouseEntered(evt);

}

});

Minimize.setFont(new java.awt.Font("Tahoma", 0, 30)); // NOI18N

Minimize.setForeground(new java.awt.Color(254, 254, 254));

Minimize.setText("-");

Minimize.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Minimize.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

MinimizeMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

MinimizeMouseEntered(evt);

}

});

lblUserPic.setBackground(new java.awt.Color(153, 153, 255));

lblUserPic.setMaximumSize(new java.awt.Dimension(50, 50));

lblUserPic.setMinimumSize(new java.awt.Dimension(50, 50));

lblUserPic.setOpaque(true);

lblUserPic.addComponentListener(new java.awt.event.ComponentAdapter() {

public void componentMoved(java.awt.event.ComponentEvent evt) {

lblUserPicComponentMoved(evt);

}

});

lblUsername.setFont(new java.awt.Font("Tahoma", 0, 16)); // NOI18N

lblUsername.setForeground(new java.awt.Color(255, 255, 255));

lblUsername.setText("Username");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(lblUserPic, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(10, 10, 10)

.addComponent(lblUsername)

.addGap(775, 775, 775)

.addComponent(Minimize)

.addGap(10, 10, 10)

.addComponent(Exit)

.addContainerGap(12, Short.MAX\_VALUE))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(lblUserPic, javax.swing.GroupLayout.PREFERRED\_SIZE, 54, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(14, 14, 14)

.addComponent(lblUsername))

.addComponent(Minimize)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(6, 6, 6)

.addComponent(Exit))

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT\_SIZE, 950, Short.MAX\_VALUE)

.addGroup(layout.createSequentialGroup()

.addGap(936, 936, 936)

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(0, 0, Short.MAX\_VALUE))

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(6, 6, 6)

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

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 627, javax.swing.GroupLayout.PREFERRED\_SIZE)))

);

pack();

}// </editor-fold>

//puts information from the database table into the table

public void inputTable(){

infoQuery iq = new infoQuery();

ArrayList<info> iList = iq.infoList(currentUserID); //accesses array based on the currentUserID

String[] colNames = {"ID","FirstName","LastName","IDNum","PassportNum","PhoneNum","Email","Address"} ; //creates column headers

Object[][] rows = new Object[iList.size()][8]; //creates object array

//assigns values to each row

for(int i = 0; i<iList.size(); i++){

rows[i][0] = iList.get(i).getID();

rows[i][1] = iList.get(i).getFirstName();

rows[i][2] = iList.get(i).getLastName();

rows[i][3] = iList.get(i).getIDNum();

rows[i][4] = iList.get(i).getPassportNum();

rows[i][5] = iList.get(i).getPhoneNum();

rows[i][6] = iList.get(i).getEmail();

rows[i][7] = iList.get(i).getAddress();

//creates custom table

tableModel mdl = new tableModel(rows, colNames);

jTable1.setModel(mdl);

jTable1.setRowHeight(50);

jTable1.getColumnModel().getColumn(7).setPreferredWidth(50);

}

}

private void ExitMouseClicked(java.awt.event.MouseEvent evt) {

//closes the window

System.exit(0);

}

private void ExitMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over X, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Exit.setCursor(cursor);

Exit.setVisible(true);

}

private void MinimizeMouseClicked(java.awt.event.MouseEvent evt) {

//sets - when clicked to minimize the window

this.setState(JFrame.ICONIFIED);

}

private void MinimizeMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over -, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Minimize.setCursor(cursor);

Minimize.setVisible(true);

}

private void AddMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over add button, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Add.setCursor(cursor);

Add.setVisible(true);

}

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

//gets the all the information entered into the fields

String FirstName = txtFirstName.getText();

String LastName = txtLastName.getText();

String IDNum = txtIDNum.getText();

String PassportNum = txtPassportNum.getText();

String PhoneNum = txtPhoneNum.getText();

String Email = txtEmail.getText();

String Address = txtAddress.getText();

int CID = InfoSave.currentUserID;

info i = new info(0,FirstName,LastName,IDNum,PassportNum,PhoneNum,Email,Address,CID); //assigns where the gathered information will be put in the database table

infoQuery iq = new infoQuery();

iq.insert(i); //inserts the information into the database table

}

private void lblUserPicComponentMoved(java.awt.event.ComponentEvent evt) {

// TODO add your handling code here:

}

private void jPanel1MouseDragged(java.awt.event.MouseEvent evt) {

//allows the user to drag the jframe when they hold down click on the top bar

setLocation(MouseInfo.getPointerInfo().getLocation());

}

private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {

//display selected info in text fields

//select member

int rowIndex = jTable1.getSelectedRow();

txtID.setText(jTable1.getValueAt(rowIndex, 0).toString());

txtFirstName.setText(jTable1.getValueAt(rowIndex, 1).toString());

txtLastName.setText(jTable1.getValueAt(rowIndex, 2).toString());

txtIDNum.setText(jTable1.getValueAt(rowIndex, 3).toString());

txtPassportNum.setText(jTable1.getValueAt(rowIndex, 4).toString());

txtPhoneNum.setText(jTable1.getValueAt(rowIndex, 5).toString());

txtEmail.setText(jTable1.getValueAt(rowIndex, 6).toString());

txtAddress.setText(jTable1.getValueAt(rowIndex, 7).toString());

}

private void UpdateMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over update button, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Add.setCursor(cursor);

Add.setVisible(true);

}

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

String FirstName = txtFirstName.getText();

String LastName = txtLastName.getText();

String IDNum = txtIDNum.getText();

String PassportNum = txtPassportNum.getText();

String PhoneNum = txtPhoneNum.getText();

String Email = txtEmail.getText();

String Address = txtAddress.getText();

int ID = Integer.valueOf(txtID.getText());

info i = new info(ID,FirstName,LastName,IDNum,PassportNum,PhoneNum,Email,Address,0);

infoQuery iq = new infoQuery();

iq.update(i);

}

private void DeleteMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over delete button, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Add.setCursor(cursor);

Add.setVisible(true);

}

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

//gets the ID of the currently selected member that the user would like to delete

int ID = Integer.valueOf(txtID.getText());

infoQuery iq = new infoQuery();

iq.delete(ID); //deletes the memer

//clears all the fields

txtFirstName.setText("");

txtLastName.setText("");

txtIDNum.setText("");

txtPassportNum.setText("");

txtPhoneNum.setText("");

txtEmail.setText("");

txtAddress.setText("");

txtID.setText("");

}

private void RefreshMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over refresh button, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Add.setCursor(cursor);

Add.setVisible(true);

}

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

//puts the updated information into the table

inputTable();

}

private void LogoutMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over logout button, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Add.setCursor(cursor);

Add.setVisible(true);

}

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

//takes the user back to the login screen

loginForm lf = new loginForm();

lf.setVisible(true);

lf.pack();

lf.setLocationRelativeTo(null);

lf.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

this.dispose();

}

private void ClearMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over clear button, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Add.setCursor(cursor);

Add.setVisible(true);

}

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

//clears all the fields

txtFirstName.setText("");

txtLastName.setText("");

txtIDNum.setText("");

txtPassportNum.setText("");

txtPhoneNum.setText("");

txtEmail.setText("");

txtAddress.setText("");

txtID.setText("");

}

/\*\*

\* @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(InfoSave.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(InfoSave.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 InfoSave().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton Add;

private javax.swing.JButton Clear;

private javax.swing.JButton Delete;

private javax.swing.JLabel Exit;

private javax.swing.JButton Logout;

private javax.swing.JLabel Minimize;

private javax.swing.JButton Refresh;

private javax.swing.JButton Update;

private javax.swing.JLabel jLabel10;

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.JLabel jLabel7;

private javax.swing.JLabel jLabel8;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JPanel jPanel3;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JScrollPane jScrollPane2;

private javax.swing.JSeparator jSeparator1;

private javax.swing.JTable jTable1;

public javax.swing.JLabel lblUserPic;

public javax.swing.JLabel lblUsername;

private javax.swing.JTextArea txtAddress;

private javax.swing.JTextField txtEmail;

private javax.swing.JTextField txtFirstName;

private javax.swing.JTextField txtID;

private javax.swing.JTextField txtIDNum;

private javax.swing.JTextField txtLastName;

private javax.swing.JTextField txtPassportNum;

private javax.swing.JTextField txtPhoneNum;

// End of variables declaration

}

## helpLogin

//George Marais Gr12 IT PAT - Infosave

import java.awt.Cursor;

import javax.swing.JFrame;

public class helpLogin extends javax.swing.JFrame {

//creates helpLogin

public helpLogin() {

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() {

jTextField1 = new javax.swing.JTextField();

jPanel1 = new javax.swing.JPanel();

Login = new java.awt.Label();

Exit = new javax.swing.JLabel();

Minimize = new javax.swing.JLabel();

jPanel2 = new javax.swing.JPanel();

jPanel3 = new javax.swing.JPanel();

jLabel2 = new javax.swing.JLabel();

jScrollPane1 = new javax.swing.JScrollPane();

jTextArea1 = new javax.swing.JTextArea();

back = new javax.swing.JButton();

jTextField1.setText("jTextField1");

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

setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

setUndecorated(true);

jPanel1.setBackground(new java.awt.Color(89, 97, 169));

jPanel1.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Login.setFont(new java.awt.Font("Verdana", 1, 30)); // NOI18N

Login.setForeground(new java.awt.Color(254, 254, 254));

Login.setText("Help");

Exit.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N

Exit.setForeground(new java.awt.Color(254, 254, 254));

Exit.setText("X");

Exit.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Exit.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

ExitMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

ExitMouseEntered(evt);

}

});

Minimize.setFont(new java.awt.Font("Tahoma", 0, 30)); // NOI18N

Minimize.setForeground(new java.awt.Color(254, 254, 254));

Minimize.setText("-");

Minimize.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Minimize.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

MinimizeMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

MinimizeMouseEntered(evt);

}

});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

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

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

.addComponent(Minimize)

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

.addComponent(Exit)

.addGap(12, 12, 12))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(Minimize)

.addComponent(Exit))

.addGap(0, 0, Short.MAX\_VALUE))

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(18, 18, 18)

.addComponent(Login, javax.swing.GroupLayout.DEFAULT\_SIZE, 52, Short.MAX\_VALUE)

.addContainerGap())

);

jPanel2.setBackground(new java.awt.Color(63, 68, 114));

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 0, Short.MAX\_VALUE)

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 9, Short.MAX\_VALUE)

);

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel2.setText("Logging In:");

jTextArea1.setEditable(false);

jTextArea1.setBackground(new java.awt.Color(204, 204, 255));

jTextArea1.setColumns(20);

jTextArea1.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N

jTextArea1.setRows(5);

jTextArea1.setText("When logging in enter your account username and\npassword into the fields provided and click Login.\nIf you do not have an account, click the Sign Up\nbutton.");

jScrollPane1.setViewportView(jTextArea1);

back.setBackground(new java.awt.Color(89, 97, 169));

back.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

back.setText("Back");

back.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseEntered(java.awt.event.MouseEvent evt) {

backMouseEntered(evt);

}

});

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

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

backActionPerformed(evt);

}

});

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);

jPanel3.setLayout(jPanel3Layout);

jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel2)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 414, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(jPanel3Layout.createSequentialGroup()

.addGap(173, 173, 173)

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

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

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel2)

.addGap(18, 18, 18)

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

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 93, Short.MAX\_VALUE)

.addComponent(back, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap())

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(0, 0, 0)

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(1, 1, 1)

.addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

);

pack();

}// </editor-fold>

private void ExitMouseClicked(java.awt.event.MouseEvent evt) {

//closes the window

System.exit(0);

}

private void ExitMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over X, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Exit.setCursor(cursor);

Exit.setVisible(true);

}

private void MinimizeMouseClicked(java.awt.event.MouseEvent evt) {

//sets - when clicked to minimize the window

this.setState(JFrame.ICONIFIED);

}

private void MinimizeMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over -, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Minimize.setCursor(cursor);

Minimize.setVisible(true);

}

private void backMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over back button, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Login.setCursor(cursor);

Login.setVisible(true);

}

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

//takes the user back to the login screen

loginForm lf = new loginForm();

lf.setVisible(true);

lf.pack();

lf.setLocationRelativeTo(null);

lf.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

this.dispose();

}

/\*\*

\* @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(helpLogin.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(helpLogin.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 helpLogin().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JLabel Exit;

private java.awt.Label Login;

private javax.swing.JLabel Minimize;

private javax.swing.JButton back;

private javax.swing.JLabel jLabel2;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JPanel jPanel3;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTextArea jTextArea1;

private javax.swing.JTextField jTextField1;

// End of variables declaration

}

## helpSignUp

//George Marais Gr12 IT PAT - Infosave

import java.awt.Cursor;

import javax.swing.JFrame;

public class helpSignUp extends javax.swing.JFrame {

//creates helpSignUp

public helpSignUp() {

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() {

jPanel3 = new javax.swing.JPanel();

jLabel2 = new javax.swing.JLabel();

jScrollPane1 = new javax.swing.JScrollPane();

jTextArea1 = new javax.swing.JTextArea();

back = new javax.swing.JButton();

jPanel1 = new javax.swing.JPanel();

Login = new java.awt.Label();

Exit = new javax.swing.JLabel();

Minimize = new javax.swing.JLabel();

jPanel2 = new javax.swing.JPanel();

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

setUndecorated(true);

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel2.setText("Signing Up:");

jTextArea1.setEditable(false);

jTextArea1.setBackground(new java.awt.Color(204, 204, 255));

jTextArea1.setColumns(20);

jTextArea1.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N

jTextArea1.setRows(5);

jTextArea1.setText("When signing up, fill in all the required information into the fields\nprovided. If the username you have selected is already taken,\nselect another username and try again. Once you have filled in all\nthe fields, click the Sign Up button to create your account.");

jScrollPane1.setViewportView(jTextArea1);

back.setBackground(new java.awt.Color(89, 97, 169));

back.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

back.setText("Back");

back.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseEntered(java.awt.event.MouseEvent evt) {

backMouseEntered(evt);

}

});

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

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

backActionPerformed(evt);

}

});

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);

jPanel3.setLayout(jPanel3Layout);

jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel2)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 414, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(jPanel3Layout.createSequentialGroup()

.addGap(173, 173, 173)

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

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

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel2)

.addGap(18, 18, 18)

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

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 94, Short.MAX\_VALUE)

.addComponent(back, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(19, 19, 19))

);

jPanel1.setBackground(new java.awt.Color(89, 97, 169));

jPanel1.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Login.setFont(new java.awt.Font("Verdana", 1, 30)); // NOI18N

Login.setForeground(new java.awt.Color(254, 254, 254));

Login.setText("Help");

Exit.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N

Exit.setForeground(new java.awt.Color(254, 254, 254));

Exit.setText("X");

Exit.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Exit.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

ExitMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

ExitMouseEntered(evt);

}

});

Minimize.setFont(new java.awt.Font("Tahoma", 0, 30)); // NOI18N

Minimize.setForeground(new java.awt.Color(254, 254, 254));

Minimize.setText("-");

Minimize.setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

Minimize.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

MinimizeMouseClicked(evt);

}

public void mouseEntered(java.awt.event.MouseEvent evt) {

MinimizeMouseEntered(evt);

}

});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

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

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 314, Short.MAX\_VALUE)

.addComponent(Minimize)

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

.addComponent(Exit)

.addGap(12, 12, 12))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(Minimize)

.addComponent(Exit))

.addGap(0, 0, Short.MAX\_VALUE))

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(18, 18, 18)

.addComponent(Login, javax.swing.GroupLayout.DEFAULT\_SIZE, 52, Short.MAX\_VALUE)

.addContainerGap())

);

jPanel2.setBackground(new java.awt.Color(63, 68, 114));

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 0, Short.MAX\_VALUE)

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 9, Short.MAX\_VALUE)

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(0, 0, 0)

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(1, 1, 1)

.addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void ExitMouseClicked(java.awt.event.MouseEvent evt) {

//closes the window

System.exit(0);

}

private void ExitMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over X, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Exit.setCursor(cursor);

Exit.setVisible(true);

}

private void MinimizeMouseClicked(java.awt.event.MouseEvent evt) {

//sets - when clicked to minimize the window

this.setState(JFrame.ICONIFIED);

}

private void MinimizeMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over -, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Minimize.setCursor(cursor);

Minimize.setVisible(true);

}

private void backMouseEntered(java.awt.event.MouseEvent evt) {

//when user hovers over back button, cusrsor changed to HAND\_CURSOR

Cursor cursor = new Cursor(Cursor.HAND\_CURSOR);

Login.setCursor(cursor);

Login.setVisible(true);

}

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

//takes the user back to the sign up screen

signupForm sf = new signupForm();

sf.setVisible(true);

sf.pack();

sf.setLocationRelativeTo(null);

sf.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

this.dispose();

}

/\*\*

\* @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(helpSignUp.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(helpSignUp.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 helpSignUp().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JLabel Exit;

private java.awt.Label Login;

private javax.swing.JLabel Minimize;

private javax.swing.JButton back;

private javax.swing.JLabel jLabel2;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JPanel jPanel3;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTextArea jTextArea1;

// End of variables declaration

}

## infoQuery

//George Marais Gr12 IT PAT - Infosave

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.ArrayList;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JOptionPane;

public class infoQuery {

//creates insert

public void insert(info i){

//creates connection to the database

Connection con = myConnection.getConnection();

PreparedStatement ps;

try {

ps = con.prepareStatement("INSERT INTO Info(FirstName, LastName, IDNum, PassportNum, PhoneNum, Email, Address, CID) VALUES(?, ?, ?, ?, ?, ?, ?, ?)");

ps.setString(1,i.getFirstName());

ps.setString(2,i.getLastName());

ps.setString(3,i.getIDNum());

ps.setString(4,i.getPassportNum());

ps.setString(5,i.getPhoneNum());

ps.setString(6,i.getEmail());

ps.setString(7,i.getAddress());

ps.setInt(8,i.getCID());

if(ps.executeUpdate() != 0){

JOptionPane.showMessageDialog(null,"Member Added");

}

else{

JOptionPane.showMessageDialog(null,"Member Could Not Be Added");

}

} catch (SQLException ex) {

Logger.getLogger(infoQuery.class.getName()).log(Level.SEVERE, null, ex);

}

}

//creates update

public void update(info i){

Connection con = myConnection.getConnection();

PreparedStatement ps;

try {

ps = con.prepareStatement("UPDATE Info SET FirstName = ?, LastName = ?, IDNum = ?, PassportNum = ?, PhoneNum = ?, Email = ?, Address = ? WHERE ID = ?");

ps.setString(1,i.getFirstName());

ps.setString(2,i.getLastName());

ps.setString(3,i.getIDNum());

ps.setString(4,i.getPassportNum());

ps.setString(5,i.getPhoneNum());

ps.setString(6,i.getEmail());

ps.setString(7,i.getAddress());

ps.setInt(8, i.getID());

if(ps.executeUpdate() != 0){

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

}

else{

JOptionPane.showMessageDialog(null,"Member Info Could Not Be Updated");

}

} catch (SQLException ex) {

Logger.getLogger(infoQuery.class.getName()).log(Level.SEVERE, null, ex);

}

}

//creates delete

public void delete(int ID){

Connection con = myConnection.getConnection();

PreparedStatement ps;

try {

ps = con.prepareStatement("DELETE FROM Info WHERE ID = ?");

ps.setInt(1, ID); //gets the record with the selected member ID that must be deleted

if(ps.executeUpdate() != 0){

JOptionPane.showMessageDialog(null,"Member Deleted");

}

else{

JOptionPane.showMessageDialog(null,"Member Could Not Be Deleted");

}

} catch (SQLException ex) {

Logger.getLogger(infoQuery.class.getName()).log(Level.SEVERE, null, ex);

}

}

//creates a list of members for the account

public ArrayList<info> infoList(int userID){

ArrayList<info> iList = new ArrayList<>(); //creates new array list using info

Connection con = myConnection.getConnection();

Statement stmt;

ResultSet rs;

try {

stmt = con.createStatement();

rs = stmt.executeQuery("SELECT ID, FirstName, LastName, IDNum, PassportNum, PhoneNum, Email, Address, CID FROM Info WHERE CID = " + userID);

info in;

while(rs.next()){

in = new info(rs.getInt("ID"), rs.getString("FirstName"), rs.getString("LastName"), rs.getString("IDNum"), rs.getString("PassportNum"), rs.getString("PhoneNum"), rs.getString("Email"), rs.getString("Address"), rs.getInt("CID"));

iList.add(in);

}

} catch (SQLException ex) {

Logger.getLogger(infoQuery.class.getName()).log(Level.SEVERE, null, ex);

}

return iList;

}

}

## Info

//George Marais Gr12 IT PAT - Infosave

public class info {

private Integer ID;

private String FirstName;

private String LastName;

private String IDNum;

private String PassportNum;

private String PhoneNum;

private String Email;

private String Address;

private Integer CID;

//creates blank constructor info

public info() {}

//creates constructor info with parameters

public info(Integer ID, String FirstName, String LastName, String IDNum, String PassportNum, String PhoneNum, String Email, String Address, Integer CID) {

this.ID = ID;

this.FirstName = FirstName;

this.LastName = LastName;

this.IDNum = IDNum;

this.PassportNum = PassportNum;

this.PhoneNum = PhoneNum;

this.Email = Email;

this.Address = Address;

this.CID = CID;

}

//returns CID

public Integer getCID() {

return CID;

}

//assigns value to CID

public void setCID(Integer CID) {

this.CID = CID;

}

//returns ID

public Integer getID() {

return ID;

}

//assigns value to ID

public void setID(Integer ID) {

this.ID = ID;

}

//returns FirstName

public String getFirstName() {

return FirstName;

}

//assigns value to FirstName

public void setFirstName(String FirstName) {

this.FirstName = FirstName;

}

//returns LastName

public String getLastName() {

return LastName;

}

//assigns value to LastName

public void setLastName(String LastName) {

this.LastName = LastName;

}

//returns IDNum

public String getIDNum() {

return IDNum;

}

//assigns value to IDNum

public void setIDNum(String IDNum) {

this.IDNum = IDNum;

}

//returns PassportNum

public String getPassportNum() {

return PassportNum;

}

//assigns value to PassportNum

public void setPassportNum(String PassportNum) {

this.PassportNum = PassportNum;

}

//returns PhoneNum

public String getPhoneNum() {

return PhoneNum;

}

//assigns value to PhoneNum

public void setPhoneNum(String PhoneNum) {

this.PhoneNum = PhoneNum;

}

//returns Email

public String getEmail() {

return Email;

}

//assigns value to Email

public void setEmail(String Email) {

this.Email = Email;

}

//returns Address

public String getAddress() {

return Address;

}

//assigns value to Address

public void setAddress(String Address) {

this.Address = Address;

}

}

## myConnection

//George Marais Gr12 IT PAT - Infosave

import java.io.File;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

import java.util.logging.Level;

import java.util.logging.Logger;

//creates class myConnection

public class myConnection {

private static File file = new File("InfoSave.accdb");

public static Connection getConnection(){

Connection con = null;

try {

Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");

con = DriverManager.getConnection("jdbc:ucanaccess://" + file.getAbsolutePath().replaceAll("\\\\","\\\\\\\\"));

} catch (ClassNotFoundException | SQLException ex) {

Logger.getLogger(loginForm.class.getName()).log(Level.SEVERE, null, ex);

}

return con;

}

}

## tableModel

//George Marais Gr12 IT PAT - Infosave

import javax.swing.Icon;

import javax.swing.table.AbstractTableModel;

//creates class tableModel

public class tableModel extends AbstractTableModel{

private String[] columns;

private Object[][] rows;

public tableModel() {}

public tableModel(Object[][] data, String[] columnsName) {

this.columns = columnsName;

this.rows = data;

}

public Class getColumn(int col){

//the table has 9 columns

if(col == 8){

return Icon.class;

}

else{

return getValueAt(0, col).getClass();

}

}

@Override

public int getRowCount() {

return this.rows.length;

}

@Override

public int getColumnCount() {

return this.columns.length;

}

@Override

public Object getValueAt(int rowIndex, int columnIndex) {

return this.rows[rowIndex][columnIndex];

}

@Override

public String getColumnName(int col){

return this.columns[col];

}

}