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**North South University**

Department of Electrical and Computer Engineering

**Lab Project Report**

Semester : NSU Spring 2023

Course Code : CSE 215L

Section : 16

Group Name : C

Faculty : Dr. Shamim Al Mamun (SAM3)

Lab Instructor : A. S. M. Sabiqul Hassan

Project Topic : Library Management System

GitHub Repo Link :

Submission Date : 16/06/2023

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| --- | --- |
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|  |  |

**Introduction:**

The Library Management System is a software application designed to automate and manage various aspects of a library's operations. It provides librarians and library staff with a centralized platform to efficiently handle tasks such as cataloging books, managing member information, facilitating book borrowing and returning, generating reports, and more. The system aims to streamline and simplify the management of library resources, improving overall operational efficiency and enhancing the user experience for both librarians and library members.

**Features and Operations:**

1. **Login System:** The system provides a login system to ensure the security of the system. The login system

It also ensures that no one can use any feature they are not supposed to use.

1. **Librarian Management:** The system enables the head librarian (Admin) to manage and use librarian information effectively. The head librarian can Add, Delete and Modify librarian information. Head librarian can also see the list of librarians, where the head librarian can also see the work time and salary of each librarian.
2. **Member Management:** The system enables librarians to manage member information effectively. They can create, delete and modify member profiles. The member management feature also allows librarians to track borrowing history, monitor overdue books, and manage member fines.
3. **Book Cataloging:** The system provides a user-friendly interface for librarians to efficiently catalogue books. They can easily add new books to the system by entering details such as title, author and category. The cataloguing feature ensures that all book records are accurately maintained and easily accessible.
4. **Book Search and Availability:** The system offers a robust search functionality that allows users to quickly find books based on various criteria such as title, author, or category. It provides real-time availability information, indicating whether a book is currently available or on loan. This feature helps users locate desired books and plan their library visits accordingly.
5. **Book Borrowing and Returning:** Library members can easily borrow and return books using their unique library identifiers. The system handles the entire borrowing process, including checking book availability and setting due dates. It simplifies book transactions and helps librarians keep track of book circulation. But to return a book members must seek help from a librarian, since members can not return books.
6. **Fine Calculation and Management:** The system automates fine calculation for late book returns. It applies predefined rules to calculate fines based on the duration of overdue books. The fine management feature ensures accurate fine records and helps library staff handle member’s fine payments and recodes efficiently.
7. **Librarian Work Hour Management:** The system automates salary calculation. The system recodes librarian’s work start and stop time . This recoded info can be seen by head librarian from view librarian manu.

Head librarian

Member

Librarian

Login

Library Management System

Members

Modify Librarian

View Librarian

Add Librarian

Search A Book

Add Members

Borrow A Book

View Members

Renew Membership

Modify Members

Change Name

Change Name

Change Email

Change Email

Change Contact

Change Contact

Delete Members

Add Book Category

Members Fine

Delete Librarian

View Report

View Book Category

Book Category

Modify Book Category

Books

Add Books

Clock In/Clock Out

View Books

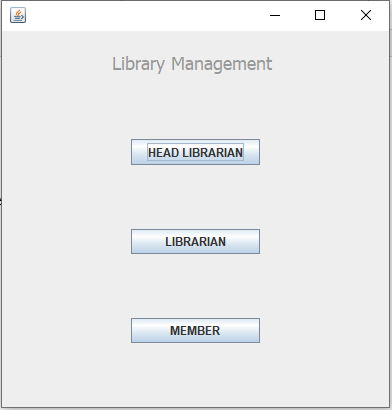
Return Book

Modify Books

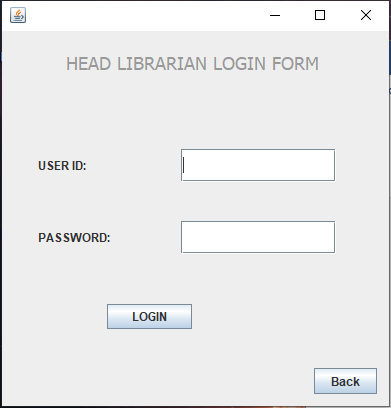
Logout

***Project*** ***Screenshots***

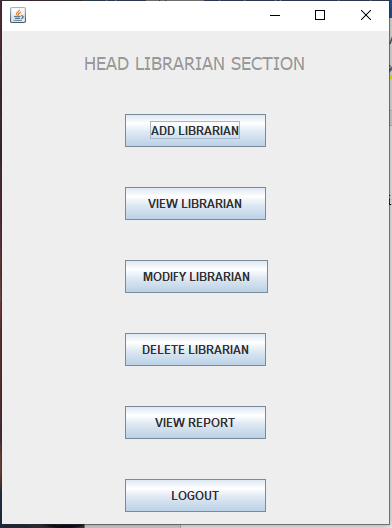
1. Main Page:



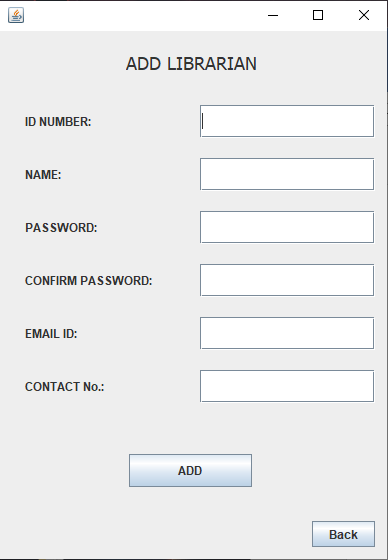
1. Head Librarian Login Page:



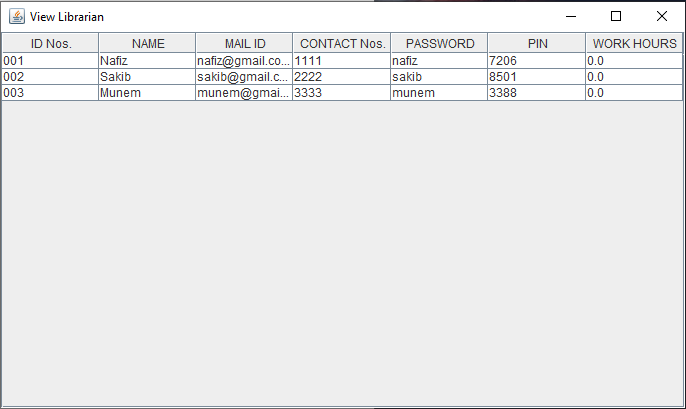
1. Head Librarian Main Page:



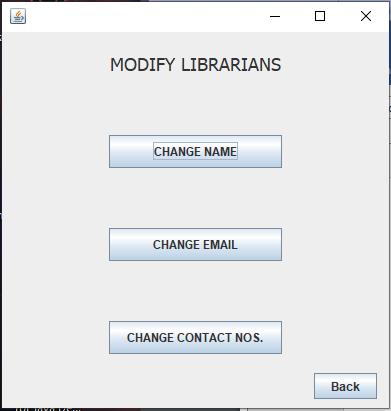
1. Add Librarian :



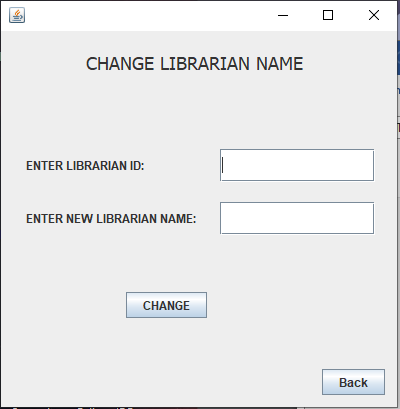
1. View Librarian :



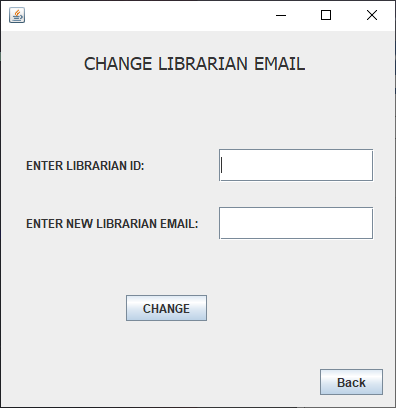
1. Modify Librarian :



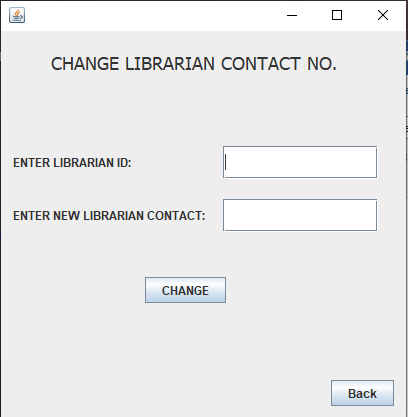
1. Change Name Page:



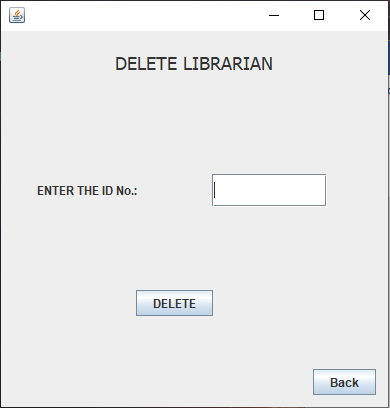
1. Change Librarian Email :



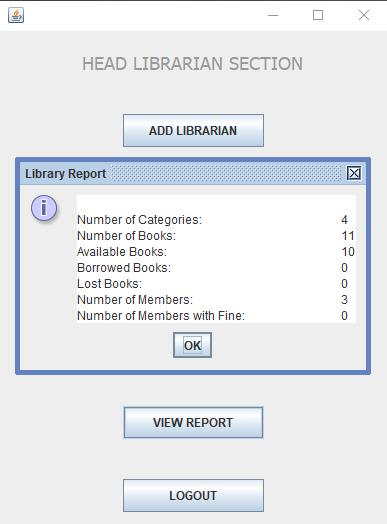
1. Change Librarian Contact :



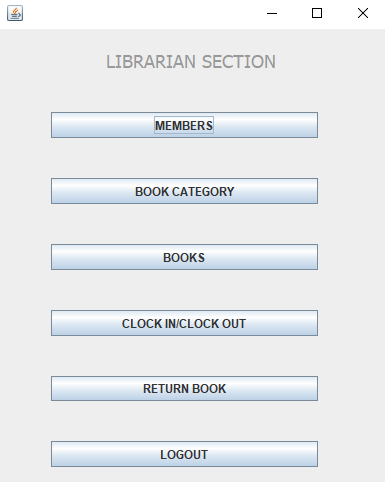
1. Delete Librarian:



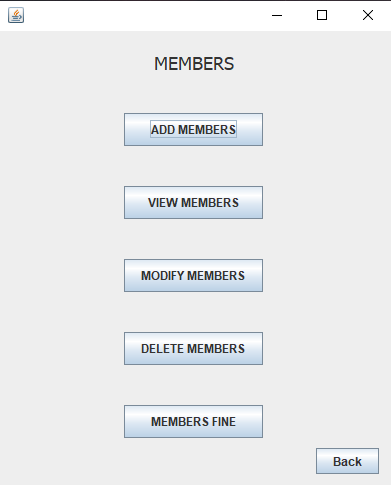
1. View Report:



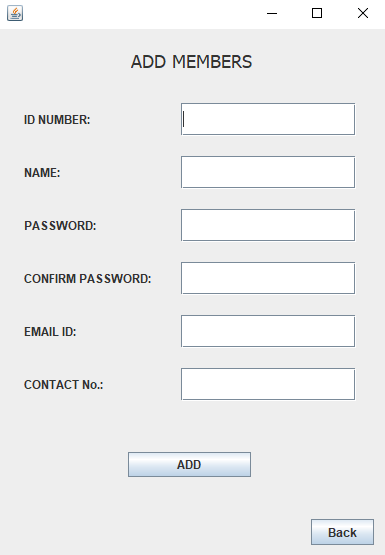
1. Librarian Main Page:



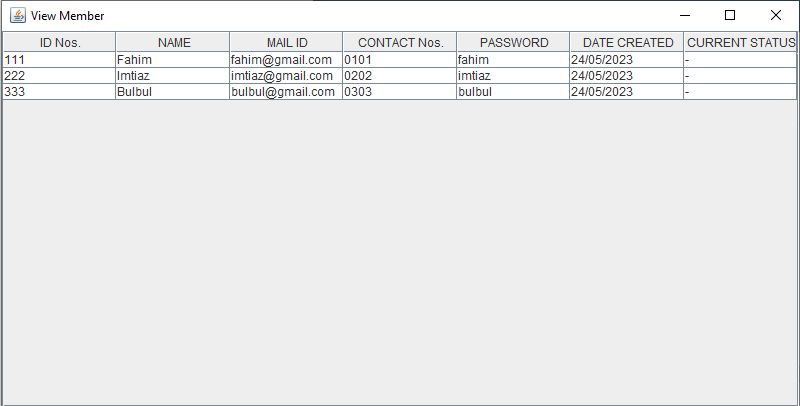
1. Members Page:



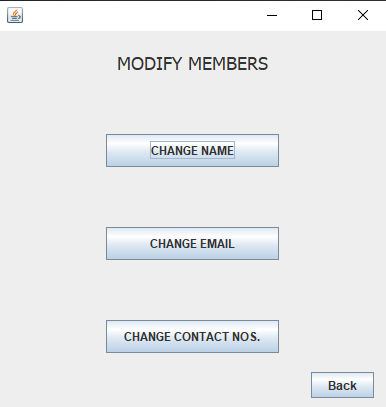
1. Add Members:



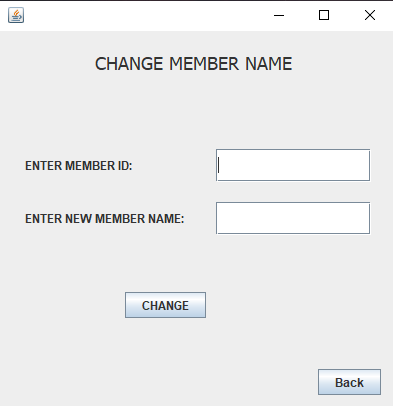
1. View Members:



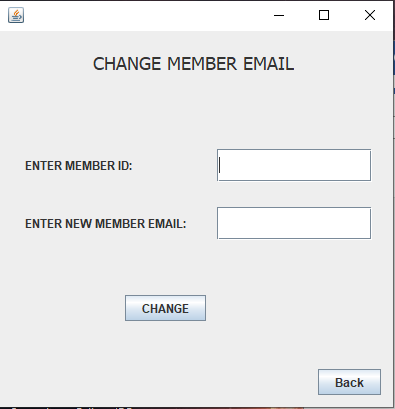
1. Modify Members:



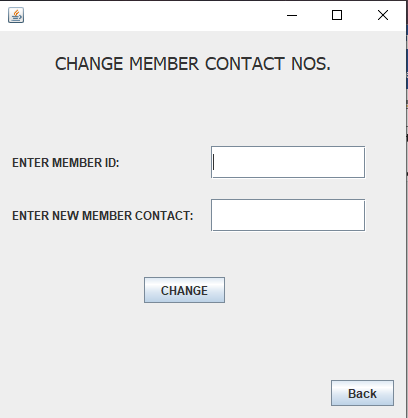
1. Change Member Name:



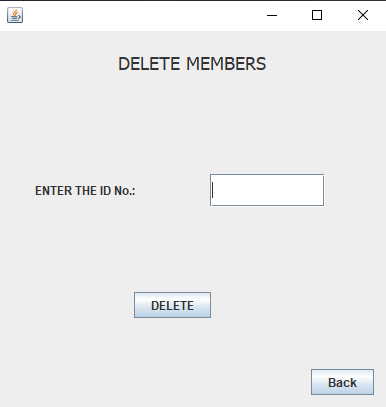
1. Change Members Email:



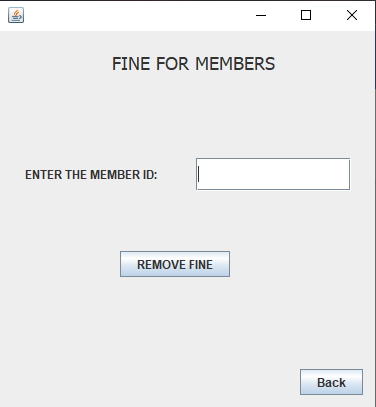
1. Change Member’s Contact Number:



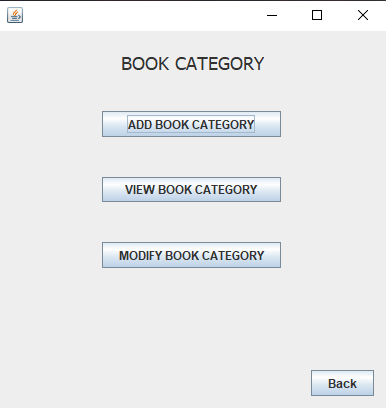
1. Delete Members:



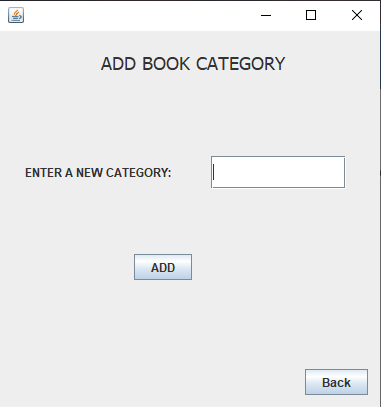
1. Members Fine:



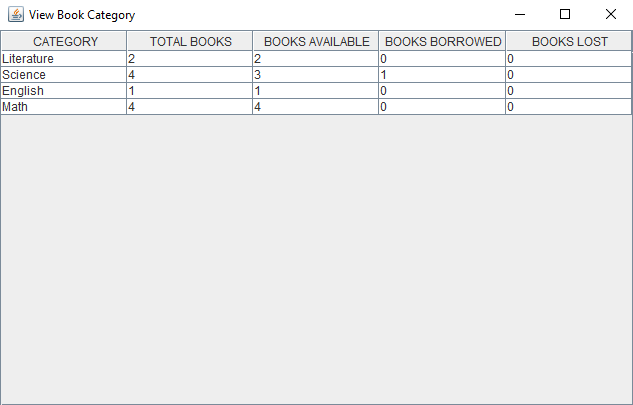
1. Book Category Page:



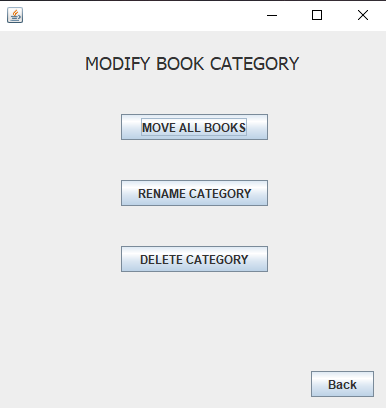
1. Add Book Category:



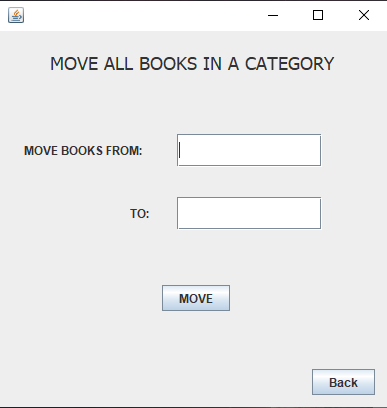
1. View Book Category:



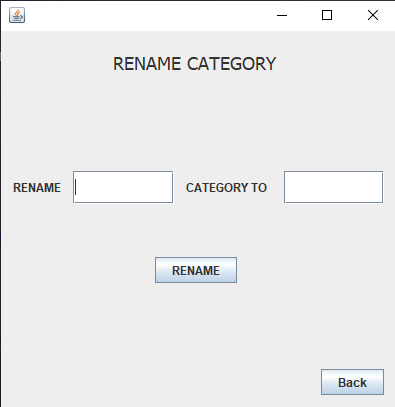
1. Modify Book Category:



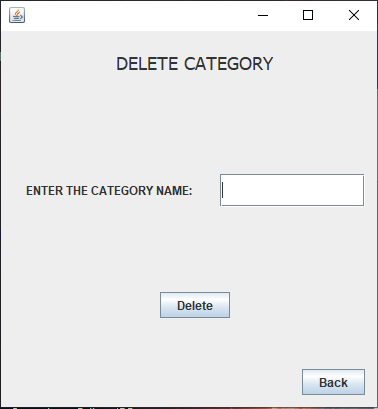
1. Move All Books In A Category:



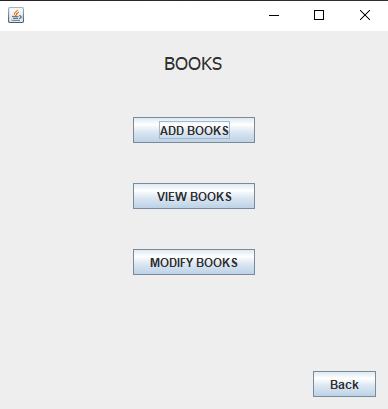
1. Rename Book Category:



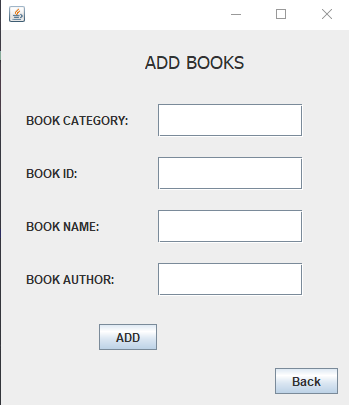
1. Delete Book Category:



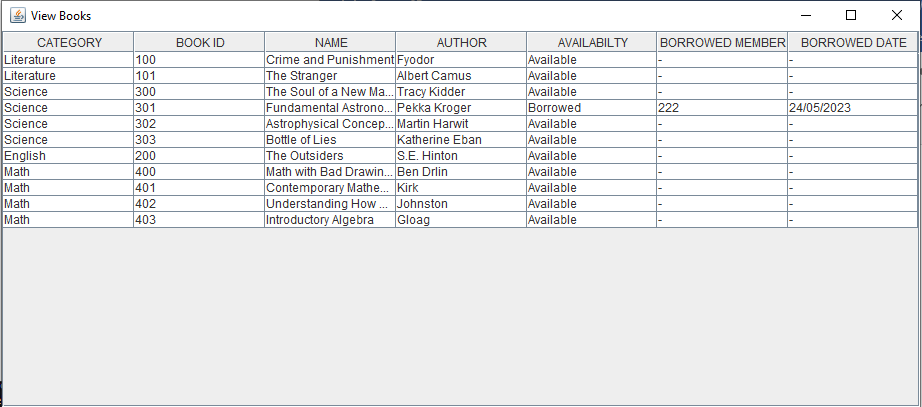
1. Books Page:



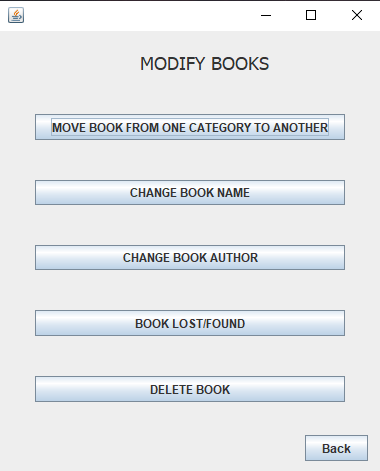
1. Add Books:



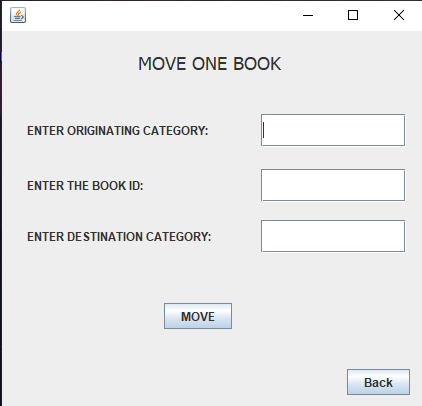
1. View Book Page:



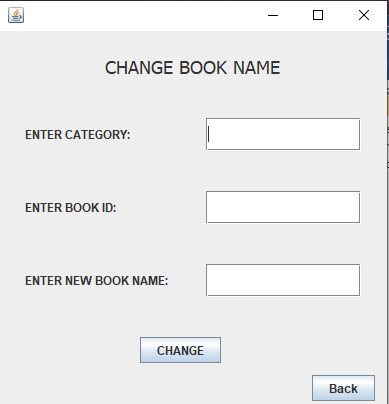
1. Modify Books:



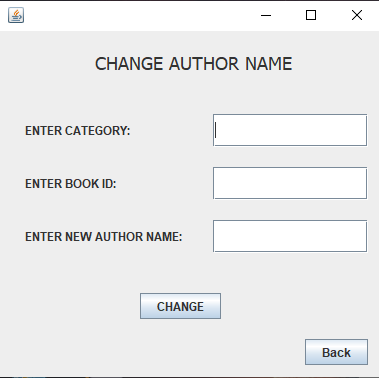
1. Move Book From One Category To Another:



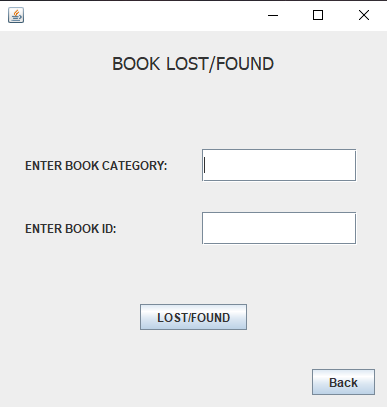
1. Change Book Name:



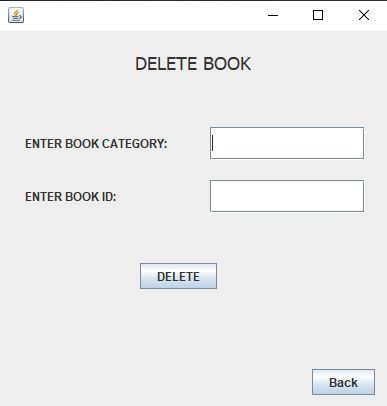
1. Change Book Author Name:



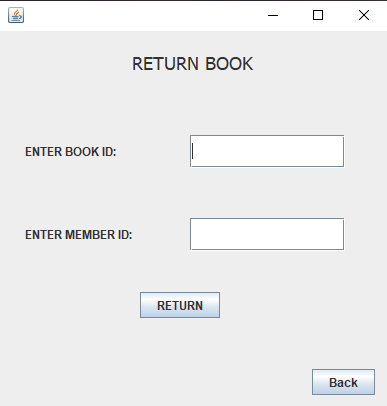
1. Book Lost/Found:



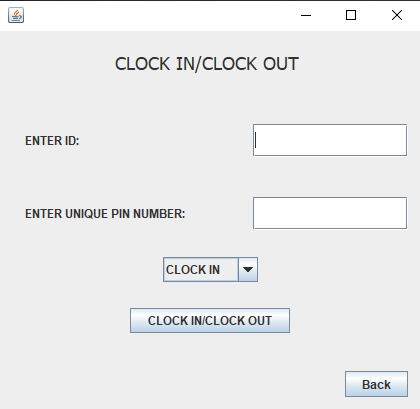
1. Delete Book:



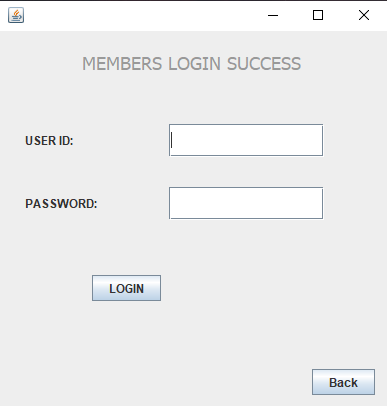
1. Return Book:



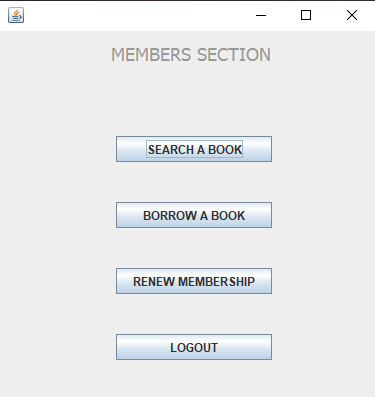
1. Clock In/Clock Out:



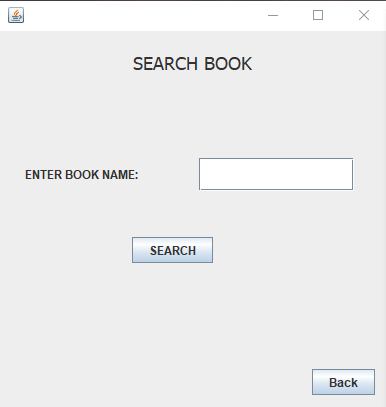
1. Members Login Page:



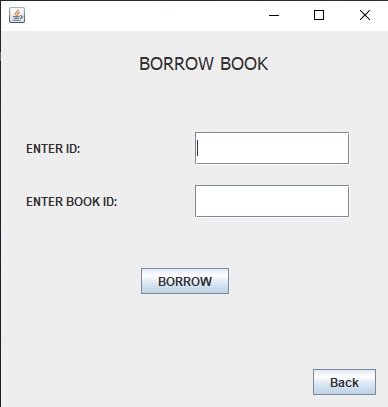
1. Member Main Page:



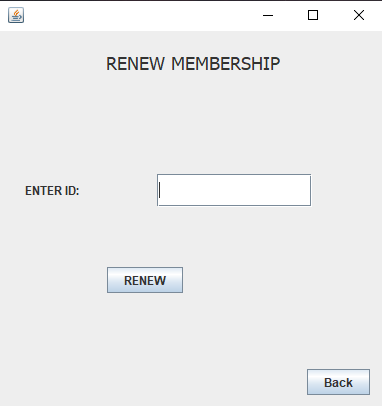
1. Search Book:



1. Borrow Book:



1. Renew Membership:



***project codes***

**// AVD\_Members**

package Library\_Service;

public class AVD\_Members extends javax.swing.JFrame {

public AVD\_Members() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

jButton5 = new javax.swing.JButton();

jButton6 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("MEMBERS");

jLabel1.setPreferredSize(new java.awt.Dimension(209, 22));

jLabel1.setRequestFocusEnabled(false);

jButton1.setText("ADD MEMBERS");

jButton1.setPreferredSize(new java.awt.Dimension(129, 33));

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("VIEW MEMBERS");

jButton2.setPreferredSize(new java.awt.Dimension(123, 33));

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("DELETE MEMBERS");

jButton3.setPreferredSize(new java.awt.Dimension(123, 33));

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("Back");

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

jButton5.setText("MEMBERS FINE");

jButton5.setPreferredSize(new java.awt.Dimension(127, 33));

jButton5.addActionListener(new java.awt.event.ActionListener() {

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

jButton5ActionPerformed(evt);

}

});

jButton6.setText("MODIFY MEMBERS");

jButton6.setPreferredSize(new java.awt.Dimension(137, 33));

jButton6.addActionListener(new java.awt.event.ActionListener() {

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

jButton6ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(124, 124, 124)

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

.addComponent(jButton1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton5, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton6, javax.swing.GroupLayout.DEFAULT\_SIZE, 139, Short.MAX\_VALUE)

.addComponent(jButton3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

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

.addContainerGap(316, Short.MAX\_VALUE)

.addComponent(jButton4)))

.addContainerGap())

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

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

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 87, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(150, 150, 150))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(39, 39, 39)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(10, 10, 10)

.addComponent(jButton4)

.addContainerGap())

);

pack();

}// </editor-fold>

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

new Librarian\_Login\_Succes().setVisible(true);

this.setVisible(false);

}

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

new Add\_Members().setVisible(true);

this.setVisible(false);

}

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

new View\_Members().setVisible(true);

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

new Delete\_Members().setVisible(true);

this.setVisible(false);

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

new Fine\_Members().setVisible(true);

this.setVisible(false);

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

new Modify\_Members().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new AVD\_Members().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}

**// AVMD\_Book\_Category**

package Library\_Service;

public class AVMD\_Book\_Category extends javax.swing.JFrame {

public AVMD\_Book\_Category() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton5 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("BOOK CATEGORY");

jButton1.setText("ADD BOOK CATEGORY");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("VIEW BOOK CATEGORY");

jButton2.setPreferredSize(new java.awt.Dimension(155, 25));

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("MODIFY BOOK CATEGORY");

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton5.setText("Back");

jButton5.addActionListener(new java.awt.event.ActionListener() {

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

jButton5ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

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

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

.addComponent(jButton5))

.addGroup(layout.createSequentialGroup()

.addGap(103, 103, 103)

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

.addComponent(jButton2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(122, 122, 122)

.addComponent(jLabel1)

.addContainerGap(122, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(37, 37, 37)

.addComponent(jButton1)

.addGap(40, 40, 40)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 102, Short.MAX\_VALUE)

.addComponent(jButton5)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new View\_BCategory().setVisible(true);

}

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

new Add\_BCategory().setVisible(true);

this.setVisible(false);

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

new Librarian\_Login\_Succes().setVisible(true);

this.setVisible(false);

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

new Modify\_BCategory().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new AVMD\_Book\_Category().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton5;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}

**// AVM\_Books**

package Library\_Service;

public class AVM\_Books extends javax.swing.JFrame {

public AVM\_Books() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("BOOKS");

jLabel1.setPreferredSize(new java.awt.Dimension(59, 22));

jLabel1.setRequestFocusEnabled(false);

jButton1.setText("ADD BOOKS");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("VIEW BOOKS");

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("MODIFY BOOKS");

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("Back");

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(164, 164, 164)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(133, 133, 133)

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

.addComponent(jButton2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))

.addGap(0, 121, Short.MAX\_VALUE))

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

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

.addComponent(jButton4)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(43, 43, 43)

.addComponent(jButton1)

.addGap(40, 40, 40)

.addComponent(jButton2)

.addGap(40, 40, 40)

.addComponent(jButton3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 96, Short.MAX\_VALUE)

.addComponent(jButton4)

.addContainerGap())

);

pack();

}// </editor-fold>

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

new Librarian\_Login\_Succes().setVisible(true);

this.setVisible(false);

}

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

new Add\_Books().setVisible(true);

this.setVisible(false);

}

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

new View\_All\_Books().setVisible(true);

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new AVM\_Books().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}

**// About\_Library**

package Library\_Service;

public class About\_Library extends javax.swing.JFrame {

public About\_Library() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

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

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGap(0, 400, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

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

.addGap(0, 300, Short.MAX\_VALUE)

);

pack();

}// </editor-fold>

public static void main(String args[]) {

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

public void run() {

new About\_Library().setVisible(true);

}

});

}

// Variables declaration - do not modify

// End of variables declaration

}

**// Add\_BCategory**

package Library\_Service;

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Add\_BCategory extends javax.swing.JFrame {

public Add\_BCategory() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

bcat = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("ADD BOOK CATEGORY");

jLabel1.setPreferredSize(new java.awt.Dimension(185, 22));

jLabel2.setText("ENTER A NEW CATEGORY:");

bcat.setPreferredSize(new java.awt.Dimension(115, 33));

jButton1.setText("ADD");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(101, 101, 101)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

.addComponent(jLabel2)

.addGap(40, 40, 40)

.addComponent(bcat, javax.swing.GroupLayout.PREFERRED\_SIZE, 135, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(134, 134, 134)

.addComponent(jButton1)))

.addGap(0, 22, Short.MAX\_VALUE))

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

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

.addComponent(jButton2)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(82, 82, 82)

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

.addComponent(jLabel2)

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

.addGap(65, 65, 65)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 89, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new AVMD\_Book\_Category().setVisible(true);

this.setVisible(false);

}

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

String cat = bcat.getText();

File file = new File("Categories" + cat + ".txt");

int j=0,k=0;

try{

File file1 = new File("categories.txt");

BufferedWriter writer1 = new BufferedWriter(new FileWriter(file1,true));

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Add\_BCategory.this, "Are you sure you want to add this category?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

String line = "";

BufferedReader reader = new BufferedReader(new FileReader(file1));

while((line = reader.readLine())!=null){

if(line.equals(cat))

k=1;

}

reader.close();

if(k==0){

try {

BufferedWriter writer = new BufferedWriter(new FileWriter(file));

JDialog.setDefaultLookAndFeelDecorated(true);

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_BCategory.this,"Book Category created successfully!");

new AVMD\_Book\_Category().setVisible(true);

this.setVisible(false);

writer.close();

writer1.write(cat);

writer1.newLine();

} catch (IOException ex) {

JDialog.setDefaultLookAndFeelDecorated(true);

Logger.getLogger(Add\_BCategory.class.getName()).log(Level.SEVERE, null, ex);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_BCategory.this,"Category Already exists","Category Error!", JOptionPane.ERROR\_MESSAGE);

new AVMD\_Book\_Category().setVisible(true);

this.setVisible(false);

}

writer1.close();

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_BCategory.this,"Add Operation cancelled!");

new AVMD\_Book\_Category().setVisible(true);

this.setVisible(false);

}

}catch (IOException ex) {

Logger.getLogger(Add\_BCategory.class.getName()).log(Level.SEVERE, null, ex);

}

}

public static void main(String args[]) {

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

public void run() {

new Add\_BCategory().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField bcat;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

// End of variables declaration

}

**// Add\_Books**

package Library\_Service;

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.text.DateFormat;

import java.text.Format;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import java.util.Date;

import java.util.Scanner;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Add\_Books extends javax.swing.JFrame {

public Add\_Books() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

B\_Cat = new javax.swing.JTextField();

B\_ID = new javax.swing.JTextField();

B\_Name = new javax.swing.JTextField();

jLabel5 = new javax.swing.JLabel();

B\_Auth = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("ADD BOOKS");

jLabel2.setText("BOOK CATEGORY:");

jLabel2.setPreferredSize(new java.awt.Dimension(41, 33));

jLabel3.setText("BOOK ID:");

jLabel3.setPreferredSize(new java.awt.Dimension(48, 33));

jLabel4.setText("BOOK NAME:");

jLabel4.setPreferredSize(new java.awt.Dimension(69, 33));

B\_Cat.setPreferredSize(new java.awt.Dimension(145, 33));

B\_ID.setPreferredSize(new java.awt.Dimension(145, 33));

B\_Name.setPreferredSize(new java.awt.Dimension(145, 33));

jLabel5.setText("BOOK AUTHOR:");

jLabel5.setPreferredSize(new java.awt.Dimension(74, 33));

B\_Auth.setPreferredSize(new java.awt.Dimension(145, 33));

jButton1.setText("Back");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("ADD");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(144, 144, 144)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 105, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jLabel4, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel5, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, 90, Short.MAX\_VALUE))

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(27, 27, 27)

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

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

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

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

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

.addGap(0, 35, Short.MAX\_VALUE))

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

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

.addComponent(jButton1)))

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(98, 98, 98)

.addComponent(jButton2)

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

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(31, 31, 31)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 28, Short.MAX\_VALUE)

.addComponent(jButton2)

.addGap(18, 18, 18)

.addComponent(jButton1)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

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

String cat = B\_Cat.getText();

String id = B\_ID.getText();

String name = B\_Name.getText();

String auth = B\_Auth.getText();

File f = new File("Categories" + cat + ".txt");

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Books.this,"Category doesn't exists","Category Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

B\_ID.setText("");

}

else{

try {

Scanner reader1 = new Scanner(new File("categories.txt"));

String books = "";

String[] cats = new String[20];

int i=0,j;

while(reader1.hasNext()){

cats[i++] = reader1.nextLine();

}

int x=0;

//String[][] args = new String[i][3];

String line = "";

for(j=0;j<i;j++){

BufferedReader reader = new BufferedReader(new FileReader("Categories" + cats[j] + ".txt"));

while((line = reader.readLine())!=null){

String[] words = line.split(";");

if(words[0].equals(id))

x=1;

}

reader.close();

}

if(x==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Books.this,"ID already exists","ID Error!", JOptionPane.ERROR\_MESSAGE);

B\_ID.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Add\_Books.this, "Are you sure you want to add this book?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

BufferedWriter writer = new BufferedWriter(new FileWriter(f,true));

writer.write(id + ";");

writer.write(name + ";");

writer.write(auth + ";");

writer.write("Available;-;-");

writer.newLine();

writer.close();

BufferedWriter create = new BufferedWriter(new FileWriter("Books" + id + ".txt"));

create.close();

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Books.this,"Book added successfully!");

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Books.this,"Add Operation cancelled!");

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

}

reader1.close();

}catch (FileNotFoundException ex) {

Logger.getLogger(Add\_Books.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Delete\_Category.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

public static void main(String args[]) {

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

public void run() {

new Add\_Books().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField B\_Auth;

private javax.swing.JTextField B\_Cat;

private javax.swing.JTextField B\_ID;

private javax.swing.JTextField B\_Name;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

// End of variables declaration

}

**// Add\_Librarian**

package Library\_Service;

import java.io.BufferedReader;

import javax.swing.JOptionPane;

import java.io.BufferedWriter;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.util.Random;

import javax.swing.JDialog;

public class Add\_Librarian extends javax.swing.JFrame {

public Add\_Librarian() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jLabel7 = new javax.swing.JLabel();

lib\_id = new javax.swing.JTextField();

lib\_name = new javax.swing.JTextField();

lib\_mail = new javax.swing.JTextField();

lib\_num = new javax.swing.JTextField();

lib\_pass = new javax.swing.JPasswordField();

lib\_conpass = new javax.swing.JPasswordField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("ADD LIBRARIAN");

jLabel1.setPreferredSize(new java.awt.Dimension(105, 22));

jLabel2.setText("ID NUMBER:");

jLabel2.setPreferredSize(new java.awt.Dimension(61, 20));

jLabel3.setText("NAME:");

jLabel3.setPreferredSize(new java.awt.Dimension(41, 20));

jLabel4.setText("PASSWORD:");

jLabel4.setPreferredSize(new java.awt.Dimension(55, 20));

jLabel5.setText("CONFIRM PASSWORD:");

jLabel6.setText("EMAIL ID:");

jLabel7.setText("CONTACT No.:");

lib\_id.setPreferredSize(new java.awt.Dimension(75, 33));

lib\_name.setPreferredSize(new java.awt.Dimension(69, 33));

lib\_name.addActionListener(new java.awt.event.ActionListener() {

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

lib\_nameActionPerformed(evt);

}

});

lib\_mail.setPreferredSize(new java.awt.Dimension(69, 33));

lib\_num.setPreferredSize(new java.awt.Dimension(69, 33));

lib\_pass.setPreferredSize(new java.awt.Dimension(126, 33));

lib\_conpass.setPreferredSize(new java.awt.Dimension(126, 33));

jButton1.setText("ADD");

jButton1.setPreferredSize(new java.awt.Dimension(123, 33));

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

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

.addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel6, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel7, javax.swing.GroupLayout.DEFAULT\_SIZE, 131, Short.MAX\_VALUE))

.addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED\_SIZE, 142, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(33, 33, 33)

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

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

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

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

.addComponent(lib\_pass, javax.swing.GroupLayout.DEFAULT\_SIZE, 175, Short.MAX\_VALUE)

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

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

.addGroup(layout.createSequentialGroup()

.addGap(129, 129, 129)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(126, 126, 126)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 135, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

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

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

.addComponent(jButton2)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(31, 31, 31)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel5)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel6)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel7)

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

.addGap(51, 51, 51)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 34, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

private void lib\_nameActionPerformed(java.awt.event.ActionEvent evt) {

}

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

Random r = new Random();

String id = lib\_id.getText();

String name = lib\_name.getText();

String psd = String.valueOf(lib\_pass.getText());

String cpsd = String.valueOf(lib\_conpass.getText());

String mail = lib\_mail.getText();

String num = lib\_num.getText();

int pin;

if(!psd.equals(cpsd)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Librarian.this, "Sorry, Passwords do not match","Password Error!", JOptionPane.ERROR\_MESSAGE);

lib\_pass.setText("");

lib\_conpass.setText("");

lib\_id.setText("");

}

else{

try{

//BufferedWriter writer1 = new BufferedWriter(new FileWriter("D:/librarians.txt",true));

BufferedWriter writer = new BufferedWriter(new FileWriter("librarians.txt",true));

BufferedReader reader = new BufferedReader(new FileReader("librarians.txt"));

int i=0,k=0,j=0;

String id\_check = "";

int[] pins = new int[50];

while ((id\_check = reader.readLine())!= null){

String[] words = id\_check.split(";");

if(id.equals(words[0]))

k=1;

if(psd.equals(words[4]))

j=1;

pins[i++] = Integer.parseInt(words[5]);

}

reader.close();

if(1==k){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Librarian.this,"ID Already exists","ID Error!", JOptionPane.ERROR\_MESSAGE);

lib\_id.setText("");

//lib\_name.setText("");

lib\_pass.setText("");

lib\_conpass.setText("");

//lib\_mail.setText("");

//lib\_num.setText("");

}

else if(j==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Librarian.this,"Password Already exists","Password Error!", JOptionPane.ERROR\_MESSAGE);

lib\_id.setText("");

//lib\_name.setText("");

lib\_pass.setText("");

lib\_conpass.setText("");

//lib\_mail.setText("");

//lib\_num.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Add\_Librarian.this, "Are you sure you want to add the librarian?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

BufferedWriter create = new BufferedWriter(new FileWriter("Librarians" + id + ".txt"));

create.close();

pin = r.nextInt(9000) + 1000;

A:

for(int x=0;x<i;x++){

if(pin==pins[x]){

pin = r.nextInt(9000) + 1000;

continue A;

}

}

writer.write(id + ";");

writer.write(name + ";");

writer.write(mail + ";");

writer.write(num + ";");

writer.write(psd + ";");

writer.write(String.valueOf(pin) + ";-");

writer.newLine();

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Librarian.this,"Librarian added successfully!");

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Librarian.this,"Add Operation Cancelled!");

// lib\_id.setText("");

// lib\_name.setText("");

// lib\_pass.setText("");

// lib\_conpass.setText("");

// lib\_mail.setText("");

// lib\_num.setText("");

}

}

writer.close();

} catch(IOException e){

e.printStackTrace();

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Librarian.this,"Sorry, unable to save!","Error!",JOptionPane.ERROR\_MESSAGE);

}

}

}

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

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) throws Exception{

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

public void run() {

new Add\_Librarian().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JLabel jLabel7;

private javax.swing.JPasswordField lib\_conpass;

private javax.swing.JTextField lib\_id;

private javax.swing.JTextField lib\_mail;

private javax.swing.JTextField lib\_name;

private javax.swing.JTextField lib\_num;

private javax.swing.JPasswordField lib\_pass;

// End of variables declaration

}

**// Add\_Members**

package Library\_Service;

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.text.Format;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import java.util.Date;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

/\*\*

\*

\* @author Govardhan

\*/

public class Add\_Members extends javax.swing.JFrame {

/\*\*

\* Creates new form Add\_Members

\*/

public Add\_Members() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

mem\_id = new javax.swing.JTextField();

mem\_name = new javax.swing.JTextField();

mem\_psd = new javax.swing.JPasswordField();

mem\_cpsd = new javax.swing.JPasswordField();

mem\_mail = new javax.swing.JTextField();

jLabel7 = new javax.swing.JLabel();

mem\_num = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("ADD MEMBERS");

jLabel1.setPreferredSize(new java.awt.Dimension(109, 22));

jLabel2.setText("ID NUMBER:");

jLabel2.setPreferredSize(new java.awt.Dimension(113, 33));

jLabel3.setText("NAME:");

jLabel3.setPreferredSize(new java.awt.Dimension(113, 33));

jLabel4.setText("PASSWORD:");

jLabel4.setPreferredSize(new java.awt.Dimension(113, 33));

jLabel5.setText("CONFIRM PASSWORD:");

jLabel5.setPreferredSize(new java.awt.Dimension(113, 33));

jLabel6.setText("EMAIL ID:");

jLabel6.setPreferredSize(new java.awt.Dimension(113, 33));

mem\_id.setPreferredSize(new java.awt.Dimension(175, 33));

mem\_name.setPreferredSize(new java.awt.Dimension(175, 33));

mem\_psd.setPreferredSize(new java.awt.Dimension(175, 33));

mem\_cpsd.setPreferredSize(new java.awt.Dimension(175, 33));

mem\_mail.setPreferredSize(new java.awt.Dimension(175, 33));

jLabel7.setText("CONTACT No.:");

jLabel7.setPreferredSize(new java.awt.Dimension(113, 33));

mem\_num.setPreferredSize(new java.awt.Dimension(175, 33));

jButton1.setText("ADD");

jButton1.setPreferredSize(new java.awt.Dimension(123, 25));

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED\_SIZE, 131, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(26, 26, 26)

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

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

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

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

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

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

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

.addGroup(layout.createSequentialGroup()

.addGap(129, 129, 129)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(132, 132, 132)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(0, 18, Short.MAX\_VALUE))

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

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

.addComponent(jButton2)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(31, 31, 31)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(51, 51, 51)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 42, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

String id = mem\_id.getText();

String name = mem\_name.getText();

String psd = String.valueOf(mem\_psd.getText());

String cpsd = String.valueOf(mem\_cpsd.getText());

String mail = mem\_mail.getText();

String num = mem\_num.getText();

if(!psd.equals(cpsd)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Members.this, "Sorry, Passwords do not match","Password Error!", JOptionPane.ERROR\_MESSAGE);

mem\_cpsd.setText("");

mem\_psd.setText("");

}

else{

try{

BufferedWriter writer = new BufferedWriter(new FileWriter("members.txt",true));

BufferedReader reader = new BufferedReader(new FileReader("members.txt"));

int i=0,k=0,j=0;

String id\_check = "";

while ((id\_check = reader.readLine())!= null){

String[] words = id\_check.split(";");

if(id.equals(words[0]))

k=1;

if(psd.equals(words[4]))

j=1;

}

reader.close();

if(1==k){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Members.this,"ID Already exists","ID Error!", JOptionPane.ERROR\_MESSAGE);

mem\_id.setText("");

//mem\_name.setText("");

mem\_psd.setText("");

mem\_cpsd.setText("");

//mem\_mail.setText("");

//mem\_num.setText("");

}

else if(j==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Members.this,"Password Already exists","Password Error!", JOptionPane.ERROR\_MESSAGE);

//mem\_id.setText("");

//mem\_name.setText("");

mem\_psd.setText("");

mem\_psd.setText("");

//mem\_mail.setText("");

//mem\_num.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Add\_Members.this, "Are you sure you want to add the member?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

writer.write(id + ";");

writer.write(name + ";");

writer.write(mail + ";");

writer.write(num + ";");

writer.write(psd + ";");

Calendar cal = Calendar.getInstance();

Date dtf = cal.getTime();

Format formatter = new SimpleDateFormat("dd/MM/yyyy");

String s = formatter.format(dtf);

writer.write(s + ";-");

writer.newLine();

BufferedWriter create = new BufferedWriter(new FileWriter("Members" + id + ".txt"));

create.close();

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Members.this,"Librarian added successfully!");

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Members.this,"Add Operation Cancelled!");

// mem\_id.setText("");

// mem\_name.setText("");

// mem\_psd.setText("");

// mem\_cpsd.setText("");

// mem\_mail.setText("");

// mem\_num.setText("");

}

}

writer.close();

} catch(IOException e){

e.printStackTrace();

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Add\_Members.this,"Sorry, unable to add!","Error!",JOptionPane.ERROR\_MESSAGE);

}

}

}

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

// TODO add your handling code here:

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Add\_Members().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JLabel jLabel7;

private javax.swing.JPasswordField mem\_cpsd;

private javax.swing.JTextField mem\_id;

private javax.swing.JTextField mem\_mail;

private javax.swing.JTextField mem\_name;

private javax.swing.JTextField mem\_num;

private javax.swing.JPasswordField mem\_psd;

// End of variables declaration

}

**// Borrow\_Book**

package Library\_Service;

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.text.Format;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import java.util.Date;

import java.util.Scanner;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

import javax.swing.JTextArea;

public class Borrow\_Book extends javax.swing.JFrame {

public Borrow\_Book() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

B\_ID = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

Mem\_ID = new javax.swing.JTextField();

jLabel3 = new javax.swing.JLabel();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("BORROW BOOK");

jLabel1.setPreferredSize(new java.awt.Dimension(111, 22));

jLabel2.setText("ENTER BOOK ID:");

jLabel2.setPreferredSize(new java.awt.Dimension(104, 33));

B\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("BORROW");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

Mem\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

jLabel3.setText("ENTER ID:");

jLabel3.setPreferredSize(new java.awt.Dimension(80, 33));

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

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

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

.addComponent(jButton2))

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(140, 140, 140)

.addComponent(jButton1))

.addGroup(layout.createSequentialGroup()

.addGap(138, 138, 138)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 133, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

.addContainerGap())

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

.addGap(25, 25, 25)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 65, Short.MAX\_VALUE)

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

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

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

.addGap(38, 38, 38))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(58, 58, 58)

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

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(20, 20, 20)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(50, 50, 50)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 75, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

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

String id = B\_ID.getText();

String mem\_id = Mem\_ID.getText();

try{

int j=0,k=1;

Scanner reader1 = new Scanner(new File("categories.txt"));

String books;

String cat[] = new String[20];

while(reader1.hasNext()){

cat[j++] = reader1.nextLine();

}

reader1.close();

String[] args = new String[7];

for(int i=0;i<j;i++){

BufferedReader readers = new BufferedReader(new FileReader("Categories" + cat[i] + ".txt"));

//int x=0,y=0;

while((books = readers.readLine())!=null){

String[] words = books.split(";");

if(words[0].equalsIgnoreCase(id) && words[3].equalsIgnoreCase("Available")){

args[0] = cat[i];

args[1] = words[0];

args[2] = words[1];

args[3] = words[2];

args[4] = words[3];

args[5] = words[4];

args[6] = words[5];

k=0;

}

}

readers.close();

}

if(k==0){

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Borrow\_Book.this,new JTextArea("Book Category:\t" + args[0] + "\nBook ID:\t" + args[1] + "\nBook Name:\t" + args[2] + "\nBook Author:\t" + args[3] + "\nAvailability:\t" + args[4] + "\n\n"),"Borrow Book?",JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

int b=0;

Scanner fil = new Scanner(new FileReader("Members" + mem\_id + ".txt"));

while(fil.hasNext()){

String[] lin = fil.nextLine().split(";");

if(lin[2].equals("-"))

b=1;

}

if(b==0){

fil.close();

BufferedWriter writer = new BufferedWriter(new FileWriter("Books" + args[1] + ".txt",true));

Calendar cal = Calendar.getInstance();

Date dtf = cal.getTime();

Format formatter = new SimpleDateFormat("dd/MM/yyyy");

String s = formatter.format(dtf);

writer.write(mem\_id + ";" + s + ";-");

writer.newLine();

writer.close();

BufferedWriter writer1 = new BufferedWriter(new FileWriter("Members" + mem\_id + ".txt",true));

writer1.write(id + ";" + s + ";-");

writer1.newLine();

File f = new File("Categories" + args[0] + ".txt");

writer1.close();

File tempfile = new File(f.getAbsolutePath() + ".tmp");

try {

Scanner r = new Scanner(new FileReader("members.txt"));

String l ="";

int p=0;

while(r.hasNext()){

l = r.nextLine();

String[] w = l.split(";");

if(w[0].equals(mem\_id) && w[6].equals("Fine")){

p=1;

}

}

r.close();

if(p==0){

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int Z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

String lines = words[0] + ";" + words[1] + ";" + words[2] + ";" + "Borrowed" + ";" + mem\_id + ";" + s;

pw.println(lines);

pw.flush();

Z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(Z==0){

if(!f.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Borrow\_Book.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Borrow\_Book.this, "Sorry, an Unexpected error occurerd","Error 2!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Borrow\_Book.this,"Book borrowed successfully!");

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Borrow\_Book.this, "Sorry, an Unexpected error occurerd","Error 3!", JOptionPane.ERROR\_MESSAGE);

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Borrow\_Book.this,"Unable to borrow!","Error!", JOptionPane.ERROR\_MESSAGE);

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Borrow\_Book.this,"Please pay your fine before borrowing a book","Fine Error!", JOptionPane.ERROR\_MESSAGE);

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Change\_Book\_Author.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Change\_Book\_Author.class.getName()).log(Level.SEVERE, null, ex);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Borrow\_Book.this,"Please return your previous book before borrowing a new one! You are allowed to borrow only one book at a time!","Borrow Error!", JOptionPane.ERROR\_MESSAGE);

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Borrow\_Book.this,"Borrow Operation cancelled!");

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Borrow\_Book.this,"Book ID is incorrect, or not available", "ID Error!",JOptionPane.ERROR\_MESSAGE);

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

} catch (IOException ex) {

Logger.getLogger(Change\_Book\_Name.class.getName()).log(Level.SEVERE, null, ex);

}

}

public static void main(String args[]) {

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

public void run() {

new Borrow\_Book().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField B\_ID;

private javax.swing.JTextField Mem\_ID;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Change\_Book\_Author**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Change\_Book\_Author extends javax.swing.JFrame {

public Change\_Book\_Author() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

B\_Name = new javax.swing.JTextField();

B\_ID = new javax.swing.JTextField();

B\_Cat = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("CHANGE AUTHOR NAME");

jLabel2.setText("ENTER CATEGORY:");

jLabel2.setPreferredSize(new java.awt.Dimension(112, 33));

jLabel3.setText("ENTER BOOK ID:");

jLabel3.setPreferredSize(new java.awt.Dimension(104, 33));

jLabel4.setText("ENTER NEW AUTHOR NAME:");

B\_Name.setPreferredSize(new java.awt.Dimension(155, 33));

B\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

B\_Cat.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("CHANGE");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(140, 140, 140)

.addComponent(jButton1)

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(95, 95, 95)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addComponent(jLabel4)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(31, 31, 31)

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

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

.addGroup(layout.createSequentialGroup()

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

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

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

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

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

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

.addComponent(jButton2)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(40, 40, 40)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(20, 20, 20)

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

.addComponent(jLabel4)

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

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

.addGap(40, 40, 40)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 20, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

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

String cat = B\_Cat.getText();

String id = B\_ID.getText();

String name =B\_Name.getText();

File f = new File("Categories" + cat + ".txt");

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Author.this,"Category you specified doesn't exists","Category Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

}

else{

try {

BufferedReader reader1 = new BufferedReader(new FileReader(f));

int i=0,k=1;

String line="";

while((line=reader1.readLine())!=null){

String[] words = line.split(";");

if(words[0].equals(id)){

k=0;

if(words[3].equalsIgnoreCase("available")){

i=1;

}

}

}

reader1.close();

if(k==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Author.this,"ID doesn't exists, or you entered the wrong category name","ID Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

B\_ID.setText("");

B\_Name.setText("");

}

else{

if(i==0){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Author.this,"Book is currently not available. Please modify after the book is available","Book Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

B\_ID.setText("");

B\_Name.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Change\_Book\_Author.this, "Are you sure you want to rename this book's author?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File tempfile = new File(f.getAbsolutePath() + ".tmp");

try {

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

String lines = words[0] + ";" + words[1] + ";" + name + ";" + words[3] + ";" + words[4] + ";" + words[5];

pw.println(lines);

pw.flush();

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Author.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Author.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Author.this,"Book renamed successfully!");

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Author.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Author.this,"Unable to rename!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Change\_Book\_Author.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Change\_Book\_Author.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Author.this,"Author Change Operation cancelled!");

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

}

}

} catch (IOException ex) {

Logger.getLogger(Change\_Book\_Name.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

public static void main(String args[]) {

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

public void run() {

new Change\_Book\_Author().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField B\_Cat;

private javax.swing.JTextField B\_ID;

private javax.swing.JTextField B\_Name;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

// End of variables declaration

}

**// Change\_Book\_Name**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Change\_Book\_Name extends javax.swing.JFrame {

public Change\_Book\_Name() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

B\_Name = new javax.swing.JTextField();

B\_ID = new javax.swing.JTextField();

B\_Cat = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("CHANGE BOOK NAME");

jLabel1.setPreferredSize(new java.awt.Dimension(157, 22));

jLabel2.setText("ENTER CATEGORY:");

jLabel2.setPreferredSize(new java.awt.Dimension(112, 33));

jLabel3.setText("ENTER BOOK ID:");

jLabel3.setPreferredSize(new java.awt.Dimension(104, 33));

jLabel4.setText("ENTER NEW BOOK NAME:");

jLabel4.setPreferredSize(new java.awt.Dimension(152, 33));

B\_Name.setPreferredSize(new java.awt.Dimension(155, 33));

B\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

B\_Cat.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("CHANGE");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel2, 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(B\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

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

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(29, 29, 29)

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

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

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

.addGroup(layout.createSequentialGroup()

.addGap(140, 140, 140)

.addComponent(jButton1))

.addGroup(layout.createSequentialGroup()

.addGap(105, 105, 105)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 177, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(0, 14, Short.MAX\_VALUE))

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

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

.addComponent(jButton2)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(40, 40, 40)

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

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

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

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

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 40, Short.MAX\_VALUE)

.addComponent(jButton1)

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

.addComponent(jButton2)

.addGap(6, 6, 6))

);

pack();

}// </editor-fold>

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

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

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

String cat = B\_Cat.getText();

String id = B\_ID.getText();

String name =B\_Name.getText();

File f = new File("Categories" + cat + ".txt");

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Name.this,"Category you specified doesn't exists","Category Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

}

else{

try {

BufferedReader reader1 = new BufferedReader(new FileReader(f));

int i=0,k=1;

String line="";

while((line=reader1.readLine())!=null){

String[] words = line.split(";");

if(words[0].equals(id)){

k=0;

if(words[3].equalsIgnoreCase("available")){

i=1;

}

}

}

reader1.close();

if(k==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Name.this,"ID doesn't exists, or you entered the wrong category name","ID Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

B\_ID.setText("");

B\_Name.setText("");

}

else{

if(i==0){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Name.this,"Book is currently not available. Please modify after the book is available","Book Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

B\_ID.setText("");

B\_Name.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Change\_Book\_Name.this, "Are you sure you want to rename this book's name?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File tempfile = new File(f.getAbsolutePath() + ".tmp");

try {

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

String lines = words[0] + ";" + name + ";" + words[2] + ";" + words[3] + ";" + words[4] + ";" + words[5];

pw.println(lines);

pw.flush();

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Name.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Name.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Name.this,"Book renamed successfully!");

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Name.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Name.this,"Unable to rename!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Change\_Book\_Name.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Change\_Book\_Name.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Book\_Name.this,"Name Change Operation cancelled!");

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

}

}

} catch (IOException ex) {

Logger.getLogger(Change\_Book\_Name.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

public static void main(String args[]) {

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

public void run() {

new Change\_Book\_Name().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField B\_Cat;

private javax.swing.JTextField B\_ID;

private javax.swing.JTextField B\_Name;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

// End of variables declaration

}

**// Change\_Librarian\_Mail**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Change\_Librarian\_Mail extends javax.swing.JFrame {

public Change\_Librarian\_Mail() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

Mem\_ID = new javax.swing.JTextField();

Mem\_Mail = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("CHANGE LIBRARIAN EMAIL");

jLabel2.setText("ENTER LIBRARIAN ID:");

jLabel2.setPreferredSize(new java.awt.Dimension(112, 33));

jLabel3.setText("ENTER NEW LIBRARIAN EMAIL:");

jLabel3.setPreferredSize(new java.awt.Dimension(166, 33));

Mem\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

Mem\_Mail.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("CHANGE");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(83, 83, 83)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 133, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 181, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

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

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

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

.addGroup(layout.createSequentialGroup()

.addGap(125, 125, 125)

.addComponent(jButton1)))

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

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

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

.addComponent(jButton2)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(75, 75, 75)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(25, 25, 25)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(55, 55, 55)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 48, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new Modify\_Librarians().setVisible(true);

this.setVisible(false);

}

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

String id = Mem\_ID.getText();

String name = Mem\_Mail.getText();

File f = new File("librarians.txt");

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Mail.this,"There are no librarians! Please add them before modifying","Librarian Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Mail.setText("");

}

else{

try {

BufferedReader reader1 = new BufferedReader(new FileReader(f));

int k=1;

String line="";

while((line=reader1.readLine())!=null){

String[] words = line.split(";");

if(words[0].equals(id)){

k=0;

}

}

reader1.close();

if(k==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Mail.this,"ID doesn't exists","ID Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Mail.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Change\_Librarian\_Mail.this, "Are you sure you want to change this librarian's mail id?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File tempfile = new File(f.getAbsolutePath() + ".tmp");

try {

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

String lines = words[0] + ";" + words[1] + ";" + name + ";" + words[3] + ";" + words[4] + ";" + words[5] + ";" + words[6];

pw.println(lines);

pw.flush();

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Mail.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Mail.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Mail.this,"Librarian Mail ID changed successfully!");

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Mail.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Mail.this,"Unable to rename!","Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Change\_Librarian\_Mail.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Change\_Librarian\_Mail.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Mail.this,"Name Change Operation cancelled!");

new Modify\_Members().setVisible(true);

this.setVisible(false);

}

}

} catch (IOException ex) {

Logger.getLogger(Change\_Librarian\_Mail.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

public static void main(String args[]) {

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

public void run() {

new Change\_Librarian\_Mail().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Mem\_ID;

private javax.swing.JTextField Mem\_Mail;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Change\_Librarian\_Name**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Change\_Librarian\_Name extends javax.swing.JFrame {

public Change\_Librarian\_Name() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

Mem\_ID = new javax.swing.JTextField();

jLabel3 = new javax.swing.JLabel();

Mem\_Name = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("CHANGE LIBRARIAN NAME");

jLabel2.setText("ENTER LIBRARIAN ID:");

jLabel2.setPreferredSize(new java.awt.Dimension(112, 33));

Mem\_ID.setToolTipText("");

Mem\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

jLabel3.setText("ENTER NEW LIBRARIAN NAME:");

jLabel3.setPreferredSize(new java.awt.Dimension(164, 33));

Mem\_Name.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("CHANGE");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(85, 85, 85)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 128, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT\_SIZE, 176, Short.MAX\_VALUE))

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

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

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

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

.addGap(22, 22, 22))

.addGroup(layout.createSequentialGroup()

.addGap(125, 125, 125)

.addComponent(jButton1)

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

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

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

.addComponent(jButton2)

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(75, 75, 75)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(57, 57, 57)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 51, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

String id = Mem\_ID.getText();

String name = Mem\_Name.getText();

File f = new File("librarians.txt");

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Name.this,"There are no librarians! Please add them before modifying","Librarian Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Name.setText("");

}

else{

try {

BufferedReader reader1 = new BufferedReader(new FileReader(f));

int k=1;

String line="";

while((line=reader1.readLine())!=null){

String[] words = line.split(";");

if(words[0].equals(id)){

k=0;

}

}

reader1.close();

if(k==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Name.this,"ID doesn't exists","ID Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Name.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Change\_Librarian\_Name.this, "Are you sure you want to change this librarian's name?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File tempfile = new File(f.getAbsolutePath() + ".tmp");

try {

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

String lines = words[0] + ";" + name + ";" + words[2] + ";" + words[3] + ";" + words[4] + ";" + words[5] + ";" + words[6];

pw.println(lines);

pw.flush();

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Name.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Name.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Name.this,"Librarian Name changed successfully!");

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Name.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Name.this,"Unable to rename!","Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Change\_Librarian\_Name.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Change\_Librarian\_Name.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Name.this,"Name Change Operation cancelled!");

new Modify\_Members().setVisible(true);

this.setVisible(false);

}

}

} catch (IOException ex) {

Logger.getLogger(Change\_Librarian\_Name.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

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

// TODO add your handling code here:

new Modify\_Librarians().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Change\_Librarian\_Name().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Mem\_ID;

private javax.swing.JTextField Mem\_Name;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Change\_Librarian\_Phone**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Change\_Librarian\_Phone extends javax.swing.JFrame {

public Change\_Librarian\_Phone() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

Mem\_Cont = new javax.swing.JTextField();

Mem\_ID = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("CHANGE LIBRARIAN CONTACT NO.");

jLabel1.setPreferredSize(new java.awt.Dimension(287, 22));

jLabel1.setRequestFocusEnabled(false);

jLabel2.setText("ENTER LIBRARIAN ID:");

jLabel3.setText("ENTER NEW LIBRARIAN CONTACT:");

Mem\_Cont.setPreferredSize(new java.awt.Dimension(155, 33));

Mem\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("CHANGE");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(50, 50, 50)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addContainerGap()

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

.addComponent(jLabel3)

.addComponent(jLabel2))

.addGap(18, 18, 18)

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

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

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

.addGroup(layout.createSequentialGroup()

.addGap(144, 144, 144)

.addComponent(jButton1)))

.addGap(0, 16, Short.MAX\_VALUE))

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

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

.addComponent(jButton2)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(72, 72, 72)

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

.addComponent(jLabel2)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel3)

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

.addGap(45, 45, 45)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 77, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new Modify\_Librarians().setVisible(true);

this.setVisible(false);

}

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

String id = Mem\_ID.getText();

String name = Mem\_Cont.getText();

File f = new File("librarians.txt");

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Phone.this,"There are no librarians! Please add them before modifying","Librarian Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Cont.setText("");

}

else{

try {

BufferedReader reader1 = new BufferedReader(new FileReader(f));

int k=1;

String line="";

while((line=reader1.readLine())!=null){

String[] words = line.split(";");

if(words[0].equals(id)){

k=0;

}

}

reader1.close();

if(k==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Phone.this,"ID doesn't exists","ID Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Cont.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Change\_Librarian\_Phone.this, "Are you sure you want to change this librarian's contact number?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File tempfile = new File(f.getAbsolutePath() + ".tmp");

try {

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

String lines = words[0] + ";" + words[1] + ";" + words[2] + ";" + name + ";" + words[4] + ";" + words[5] + ";" + words[6];

pw.println(lines);

pw.flush();

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Phone.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Phone.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Phone.this,"Librarian Contact Number changed successfully!");

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Phone.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Phone.this,"Unable to change contact number!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Change\_Librarian\_Phone.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Change\_Librarian\_Phone.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Librarian\_Phone.this,"Name Change Operation cancelled!");

new Modify\_Members().setVisible(true);

this.setVisible(false);

}

}

} catch (IOException ex) {

Logger.getLogger(Change\_Librarian\_Phone.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

public static void main(String args[]) {

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

public void run() {

new Change\_Librarian\_Phone().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Mem\_Cont;

private javax.swing.JTextField Mem\_ID;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Change\_Member\_Mail**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Change\_Member\_Mail extends javax.swing.JFrame {

/\*\* Creates new form Change\_Member\_Mail \*/

public Change\_Member\_Mail() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

Mem\_ID = new javax.swing.JTextField();

Mem\_Mail = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("CHANGE MEMBER EMAIL");

jLabel2.setText("ENTER MEMBER ID:");

jLabel2.setPreferredSize(new java.awt.Dimension(112, 33));

jLabel3.setText("ENTER NEW MEMBER EMAIL:");

jLabel3.setPreferredSize(new java.awt.Dimension(166, 33));

Mem\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

Mem\_Mail.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("CHANGE");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(93, 93, 93)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 174, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 133, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

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

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

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

.addGroup(layout.createSequentialGroup()

.addGap(125, 125, 125)

.addComponent(jButton1)))

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

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

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

.addComponent(jButton2)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(75, 75, 75)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(25, 25, 25)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(55, 55, 55)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 48, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new Modify\_Members().setVisible(true);

this.setVisible(false);

}

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

String id = Mem\_ID.getText();

String name = Mem\_Mail.getText();

File f = new File("members.txt");

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Mail.this,"There are no members! Please add them before modifying","Member Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Mail.setText("");

}

else{

try {

BufferedReader reader1 = new BufferedReader(new FileReader(f));

int k=1;

String line="";

while((line=reader1.readLine())!=null){

String[] words = line.split(";");

if(words[0].equals(id)){

k=0;

}

}

reader1.close();

if(k==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Mail.this,"ID doesn't exists","ID Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Mail.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Change\_Member\_Mail.this, "Are you sure you want to change this member's mail id?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File tempfile = new File(f.getAbsolutePath() + ".tmp");

try {

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

String lines = words[0] + ";" + words[1] + ";" + name + ";" + words[3] + ";" + words[4] + ";" + words[5] + ";" + words[6];

pw.println(lines);

pw.flush();

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Mail.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Mail.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Mail.this,"Member Mail ID changed successfully!");

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Mail.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Mail.this,"Unable to rename!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Change\_Member\_Mail.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Change\_Member\_Mail.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Mail.this,"Name Change Operation cancelled!");

new Modify\_Members().setVisible(true);

this.setVisible(false);

}

}

} catch (IOException ex) {

Logger.getLogger(Change\_Member\_Mail.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

public static void main(String args[]) {

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

public void run() {

new Change\_Member\_Mail().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Mem\_ID;

private javax.swing.JTextField Mem\_Mail;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Change\_Member\_Phone**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Change\_Member\_Phone extends javax.swing.JFrame {

public Change\_Member\_Phone() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

Mem\_Cont = new javax.swing.JTextField();

Mem\_ID = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("CHANGE MEMBER CONTACT NOS.");

jLabel1.setPreferredSize(new java.awt.Dimension(277, 22));

jLabel2.setText("ENTER MEMBER ID:");

jLabel3.setText("ENTER NEW MEMBER CONTACT:");

Mem\_Cont.setPreferredSize(new java.awt.Dimension(155, 33));

Mem\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("CHANGE");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(55, 55, 55)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addContainerGap()

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

.addComponent(jLabel3)

.addComponent(jLabel2))

.addGap(18, 18, 18)

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

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

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

.addGroup(layout.createSequentialGroup()

.addGap(144, 144, 144)

.addComponent(jButton1)))

.addGap(0, 28, Short.MAX\_VALUE))

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

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

.addComponent(jButton2)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(72, 72, 72)

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

.addComponent(jLabel2)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel3)

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

.addGap(45, 45, 45)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 77, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new Modify\_Members().setVisible(true);

this.setVisible(false);

}

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

String id = Mem\_ID.getText();

String name = Mem\_Cont.getText();

File f = new File("members.txt");

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Phone.this,"There are no members! Please add them before modifying","Member Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Cont.setText("");

}

else{

try {

BufferedReader reader1 = new BufferedReader(new FileReader(f));

int k=1;

String line="";

while((line=reader1.readLine())!=null){

String[] words = line.split(";");

if(words[0].equals(id)){

k=0;

}

}

reader1.close();

if(k==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Phone.this,"ID doesn't exists","ID Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Cont.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Change\_Member\_Phone.this, "Are you sure you want to change this member's contact number?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File tempfile = new File(f.getAbsolutePath() + ".tmp");

try {

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

String lines = words[0] + ";" + words[1] + ";" + words[2] + ";" + name + ";" + words[4] + ";" + words[5] + ";" + words[6];

pw.println(lines);

pw.flush();

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Phone.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Phone.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Phone.this,"Member Contact Number changed successfully!");

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Phone.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Phone.this,"Unable to change contact number!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Change\_Member\_Phone.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Change\_Member\_Phone.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Member\_Phone.this,"Name Change Operation cancelled!");

new Modify\_Members().setVisible(true);

this.setVisible(false);

}

}

} catch (IOException ex) {

Logger.getLogger(Change\_Member\_Phone.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

public static void main(String args[]) {

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

public void run() {

new Change\_Member\_Phone().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Mem\_Cont;

private javax.swing.JTextField Mem\_ID;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Change\_Name\_Member**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Change\_Name\_Member extends javax.swing.JFrame {

public Change\_Name\_Member() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

Mem\_ID = new javax.swing.JTextField();

jLabel3 = new javax.swing.JLabel();

Mem\_Name = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("CHANGE MEMBER NAME");

jLabel2.setText("ENTER MEMBER ID:");

jLabel2.setPreferredSize(new java.awt.Dimension(112, 33));

Mem\_ID.setToolTipText("");

Mem\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

jLabel3.setText("ENTER NEW MEMBER NAME:");

jLabel3.setPreferredSize(new java.awt.Dimension(164, 33));

Mem\_Name.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("CHANGE");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(95, 95, 95)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 128, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT\_SIZE, 173, Short.MAX\_VALUE))

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

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

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

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

.addGap(22, 22, 22))

.addGroup(layout.createSequentialGroup()

.addGap(125, 125, 125)

.addComponent(jButton1)

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

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

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

.addComponent(jButton2)

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(75, 75, 75)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(57, 57, 57)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 51, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

String id = Mem\_ID.getText();

String name = Mem\_Name.getText();

File f = new File("members.txt");

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Name\_Member.this,"There are no members! Please add them before modifying","Member Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Name.setText("");

}

else{

try {

BufferedReader reader1 = new BufferedReader(new FileReader(f));

int k=1;

String line="";

while((line=reader1.readLine())!=null){

String[] words = line.split(";");

if(words[0].equals(id)){

k=0;

}

}

reader1.close();

if(k==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Name\_Member.this,"ID doesn't exists","ID Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_Name.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Change\_Name\_Member.this, "Are you sure you want to change this member's name?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File tempfile = new File(f.getAbsolutePath() + ".tmp");

try {

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

String lines = words[0] + ";" + name + ";" + words[2] + ";" + words[3] + ";" + words[4] + ";" + words[5] + ";" + words[6];

pw.println(lines);

pw.flush();

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Name\_Member.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Name\_Member.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Name\_Member.this,"Member Name changed successfully!");

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Name\_Member.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Name\_Member.this,"Unable to rename!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Change\_Name\_Member.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Change\_Name\_Member.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Change\_Name\_Member.this,"Name Change Operation cancelled!");

new Modify\_Members().setVisible(true);

this.setVisible(false);

}

}

} catch (IOException ex) {

Logger.getLogger(Change\_Name\_Member.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

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

new Modify\_Members().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Change\_Name\_Member().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Mem\_ID;

private javax.swing.JTextField Mem\_Name;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// ClockIn\_ClockOut**

package Library\_Service;

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.text.Format;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.time.LocalDateTime;

import java.time.format.DateTimeFormatter;

import java.util.Calendar;

import java.util.Date;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JOptionPane;

public class ClockIn\_ClockOut extends javax.swing.JFrame {

public ClockIn\_ClockOut() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

Lib\_ID = new javax.swing.JTextField();

Lib\_PIN = new javax.swing.JPasswordField();

jLabel3 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jComboBox1 = new javax.swing.JComboBox<>();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("CLOCK IN/CLOCK OUT");

jLabel1.setPreferredSize(new java.awt.Dimension(150, 22));

jLabel2.setText("ENTER ID:");

jLabel2.setPreferredSize(new java.awt.Dimension(80, 33));

Lib\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

Lib\_PIN.setPreferredSize(new java.awt.Dimension(155, 33));

jLabel3.setText("ENTER UNIQUE PIN NUMBER:");

jLabel3.setPreferredSize(new java.awt.Dimension(174, 33));

jButton1.setText("Back");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("CLOCK IN/CLOCK OUT");

jButton2.setPreferredSize(new java.awt.Dimension(160, 25));

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

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

jButton2ActionPerformed(evt);

}

});

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "CLOCK IN", "CLOCK OUT" }));

jComboBox1.setToolTipText("");

jComboBox1.addActionListener(new java.awt.event.ActionListener() {

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

jComboBox1ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(130, 130, 130)

.addComponent(jButton2, 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(jButton1))

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 186, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(42, 42, 42)

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

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

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

.addGroup(layout.createSequentialGroup()

.addGap(115, 115, 115)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 190, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(163, 163, 163)

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

layout.setVerticalGroup(

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

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

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(50, 50, 50)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(40, 40, 40)

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

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(27, 27, 27)

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(26, 26, 26)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 38, Short.MAX\_VALUE)

.addComponent(jButton1)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new Librarian\_Login\_Succes().setVisible(true);

this.setVisible(false);

}

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

String id = Lib\_ID.getText();

String pin = String.valueOf(Lib\_PIN.getText());

File f = new File("Librarians" + id + ".txt");

if(f.exists()){

try{

BufferedReader reader1 = new BufferedReader(new FileReader("librarians.txt"));

String line = "";

int i=0,j=0;

while((line=reader1.readLine())!=null){

String[] words = line.split(";");

if(words[0].trim().equals(id)){

i=1;

if(words[5].equals(pin))

j=1;

}

}

reader1.close();

if(i==0){

JOptionPane.showMessageDialog(ClockIn\_ClockOut.this,"ID doesn't exists","ID Error!", JOptionPane.ERROR\_MESSAGE);

Lib\_ID.setText("");

Lib\_PIN.setText("");

}

else{

if(j==0){

JOptionPane.showMessageDialog(ClockIn\_ClockOut.this,"PIN you entered is incorrect","PIN Error!", JOptionPane.ERROR\_MESSAGE);

Lib\_PIN.setText("");

}

else{

String choice = (String)jComboBox1.getSelectedItem();

File tempfile = new File(f.getAbsolutePath() + ".tmp");

if(choice.equals("Clock Out")){

try {

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

String[] words = new String[3];

while((read = reader.readLine())!=null){

words=read.split(";");

if(!words[1].equals("-") && !words[2].equals("-")){

pw.println(read);

pw.flush();

}

else{

z=0;

}

}

Calendar cal = Calendar.getInstance();

Date dtf = cal.getTime();

Format formatter = new SimpleDateFormat("dd/MM/yyyy HH:mm:ss");

String s = formatter.format(dtf);

SimpleDateFormat formats = new SimpleDateFormat("dd/MM/yyyy HH:mm:ss");

Date d1 = formats.parse(s);

Date d2 = formats.parse(words[0]);

// DateTimeFormatter formatter1 = DateTimeFormatter.ofPattern("dd/MM/yyyy HH:mm:ss");

// LocalDateTime dateTime1= LocalDateTime.parse(s, formatter1);

// LocalDateTime dateTime2= LocalDateTime.parse(words[0], formatter1);

// long diffInMinutes = java.time.Duration.between(dateTime1, dateTime2).toMinutes();

long diff = d1.getTime() - d2.getTime();

double hours = ((double)diff)/(60\*60\*1000);

pw.println(words[0] + ";" + s + ";" + Double.toString(hours));

pw.flush();

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JOptionPane.showMessageDialog(ClockIn\_ClockOut.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JOptionPane.showMessageDialog(ClockIn\_ClockOut.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

JOptionPane.showMessageDialog(ClockIn\_ClockOut.this,"Clocked Out!");

new Librarian\_Login\_Succes().setVisible(true);

this.setVisible(false);

}

else{

JOptionPane.showMessageDialog(ClockIn\_ClockOut.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new Librarian\_Login\_Succes().setVisible(true);

this.setVisible(false);

}

}

else{

JOptionPane.showMessageDialog(ClockIn\_ClockOut.this,"Unable to clock!","Clock Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(ClockIn\_ClockOut.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(ClockIn\_ClockOut.class.getName()).log(Level.SEVERE, null, ex);

} catch (ParseException ex) {

Logger.getLogger(ClockIn\_ClockOut.class.getName()).log(Level.SEVERE, null, ex);

}

}

else{

try {

BufferedReader reader = new BufferedReader(new FileReader(f));

//PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

String[] words = new String[3];

while((read = reader.readLine())!=null){

words=read.split(";");

if(words[1].equals("-") && words[2].equals("-")){

z=0;

}

}

reader.close();

if(z==0){

JOptionPane.showMessageDialog(ClockIn\_ClockOut.this,"You haven't clocked out yet. Please clock out before you clock in!","Clock Error!", JOptionPane.ERROR\_MESSAGE);

Lib\_ID.setText("");

Lib\_PIN.setText("");

}

else{

PrintWriter pw = new PrintWriter(new FileWriter(f,true));

Calendar cal = Calendar.getInstance();

Date dtf = cal.getTime();

Format formatter = new SimpleDateFormat("dd/MM/yyyy HH:mm:ss");

String s = formatter.format(dtf);

pw.println(s + ";-;-");

pw.flush();

pw.close();

JOptionPane.showMessageDialog(ClockIn\_ClockOut.this,"Clocked In!");

new Librarian\_Login\_Succes().setVisible(true);

this.setVisible(false);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(ClockIn\_ClockOut.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(ClockIn\_ClockOut.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

}

} catch (FileNotFoundException ex) {

Logger.getLogger(ClockIn\_ClockOut.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(ClockIn\_ClockOut.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {

}

public static void main(String args[]) {

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

public void run() {

new ClockIn\_ClockOut().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Lib\_ID;

private javax.swing.JPasswordField Lib\_PIN;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JComboBox<String> jComboBox1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Delete\_Book**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Delete\_Book extends javax.swing.JFrame {

public Delete\_Book() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

B\_Cat = new javax.swing.JTextField();

B\_ID = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("DELETE BOOK");

jLabel1.setPreferredSize(new java.awt.Dimension(117, 22));

jLabel2.setText("ENTER BOOK CATEGORY:");

jLabel2.setPreferredSize(new java.awt.Dimension(143, 33));

jLabel3.setText("ENTER BOOK ID:");

jLabel3.setPreferredSize(new java.awt.Dimension(104, 33));

B\_Cat.setPreferredSize(new java.awt.Dimension(155, 33));

B\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("Back");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("DELETE");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(135, 135, 135)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 155, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(30, 30, 30)

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

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

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

.addGap(0, 10, Short.MAX\_VALUE))

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

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

.addComponent(jButton1)))

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(140, 140, 140)

.addComponent(jButton2)

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

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(53, 53, 53)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(20, 20, 20)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(50, 50, 50)

.addComponent(jButton2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 80, Short.MAX\_VALUE)

.addComponent(jButton1)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

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

String cat = B\_Cat.getText();

String id = B\_ID.getText();

File f = new File("Categories" + cat + ".txt");

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Book.this,"Category you specified doesn't exists","Category Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

}

else{

try {

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Delete\_Book.this, "Are you sure you want to delete this book?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

BufferedReader reader1 = new BufferedReader(new FileReader(f));

int i=0,k=1;

String line="";

while((line=reader1.readLine())!=null){

String[] words = line.split(";");

if(words[0].equals(id)){

k=0;

if(words[3].equalsIgnoreCase("available")){

i=1;

}

}

}

reader1.close();

if(k==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Book.this,"ID doesn't exists, or you entered the wrong category name","ID Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

B\_ID.setText("");

}

else{

if(i==0){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Book.this,"Book is currently not available. Please delete after the book is available","Book Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

B\_ID.setText("");

}

else{

File tempfile = new File(f.getAbsolutePath() + ".tmp");

try {

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JOptionPane.showMessageDialog(Delete\_Book.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JOptionPane.showMessageDialog(Delete\_Book.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

File f1 = new File("Books" + id + ".txt");

f1.delete();

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Book.this,"Book deleted successfully!");

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

else{

JOptionPane.showMessageDialog(Delete\_Book.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Book.this,"Unable to rename!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Delete\_Book.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Delete\_Book.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Book.this,"Delete Operation cancelled!");

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

} catch (IOException ex) {

Logger.getLogger(Delete\_Book.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

public static void main(String args[]) {

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

public void run() {

new Delete\_Book().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField B\_Cat;

private javax.swing.JTextField B\_ID;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Delete\_Category**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Delete\_Category extends javax.swing.JFrame {

public Delete\_Category() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

Del\_Cat = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("DELETE CATEGORY");

jLabel2.setText("ENTER THE CATEGORY NAME:");

jLabel2.setPreferredSize(new java.awt.Dimension(149, 33));

Del\_Cat.setPreferredSize(new java.awt.Dimension(145, 33));

Del\_Cat.addActionListener(new java.awt.event.ActionListener() {

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

Del\_CatActionPerformed(evt);

}

});

jButton1.setText("Delete");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(115, 115, 115)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(159, 159, 159)

.addComponent(jButton1)))

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addComponent(jButton2))

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 175, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 19, Short.MAX\_VALUE)

.addComponent(Del\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, 145, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(100, 100, 100)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(85, 85, 85)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 51, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new Modify\_BCategory().setVisible(true);

this.setVisible(false);

}

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

JDialog.setDefaultLookAndFeelDecorated(true);

String cat = Del\_Cat.getText();

File f = new File("Categories" + cat + ".txt");

int k=1;

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Category.this, "\""+cat+"\" category doesn't exists or was already deleted","Category Error!", JOptionPane.ERROR\_MESSAGE);

Del\_Cat.setText("");

}

else if(f.length()!=0){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Category.this, "\""+cat+"\" category contains some books. Be sure to move all the books before deleting!","Category Error!", JOptionPane.ERROR\_MESSAGE);

new Modify\_BCategory().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Delete\_Category.this, "Are you sure you want to delete this category?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File infile = new File("categories.txt");

File tempfile = new File(infile.getAbsolutePath() + ".tmp");

try {

BufferedReader reader1 = new BufferedReader(new FileReader(infile));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

while((read = reader1.readLine())!=null){

if(!read.trim().equals(cat)){

pw.println(read);

pw.flush();

}

else

k=0;

}

pw.close();

reader1.close();

int x=0,y=0;

if(k==0){

if(!infile.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Category.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(infile)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Category.this, "Sorry, an Unexpected error occurerd","Error 2!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0){

f.delete();

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Category.this, "\""+cat+"\" category deleted successfully!");

new AVMD\_Book\_Category().setVisible(true);

this.setVisible(false);

}

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Delete\_Category.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Delete\_Category.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Category.this,"Delete Operation cancelled!");

new Modify\_BCategory().setVisible(true);

this.setVisible(false);

}

}

}

private void Del\_CatActionPerformed(java.awt.event.ActionEvent evt) {

}

public static void main(String args[]) {

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

public void run() {

new Delete\_Category().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Del\_Cat;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

// End of variables declaration

}

**// Delete\_Librarian**

package Library\_Service;

import java.io.FileReader;

import java.io.File;

import java.io.IOException;

import java.io.BufferedReader;

import java.io.PrintWriter;

import java.io.FileWriter;

import javax.swing.JOptionPane;

import javax.swing.JDialog;

public class Delete\_Librarian extends javax.swing.JFrame {

public Delete\_Librarian() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

lib\_id = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("DELETE LIBRARIAN");

jLabel1.setPreferredSize(new java.awt.Dimension(123, 22));

jLabel2.setText("ENTER THE ID No.:");

jLabel2.setPreferredSize(new java.awt.Dimension(100, 20));

lib\_id.setPreferredSize(new java.awt.Dimension(75, 33));

jButton1.setText("DELETE");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

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

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

.addComponent(jButton2))

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(36, 36, 36)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 112, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(63, 63, 63)

.addComponent(lib\_id, javax.swing.GroupLayout.PREFERRED\_SIZE, 115, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(114, 114, 114)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 159, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(0, 49, Short.MAX\_VALUE)))

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(135, 135, 135)

.addComponent(jButton1)

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

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(100, 100, 100)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(83, 83, 83)

.addComponent(jButton1)

.addContainerGap(91, Short.MAX\_VALUE))

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

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

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

try{

int k=1;

String id = lib\_id.getText();

File infile = new File("librarians.txt");

JDialog.setDefaultLookAndFeelDecorated(true);

if(infile.length() == 0){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Librarian.this,"There are no librarians. Please add librarians before deleting them!","Error!",JOptionPane.ERROR\_MESSAGE);

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Delete\_Librarian.this, "Are you sure you want to delete the librarian?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File tempfile = new File(infile.getAbsolutePath() + ".tmp");

BufferedReader reader = new BufferedReader(new FileReader(infile));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String[] libs = new String[7];

String read = "";

while((read = reader.readLine())!=null){

libs = read.split(";");

if(!libs[0].trim().equals(id)){

pw.println(read);

pw.flush();

}

else

k=0;

}

pw.close();

reader.close();

int x=0,y=0;

if(k==0){

if(!infile.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Librarian.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(infile)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Librarian.this, "Sorry, an Unexpected error occurerd","Error 2!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0){

File f = new File("Librarians" + id + ".txt");

f.delete();

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Librarian.this,"Librarian deleted successfully!");

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

}

else {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Librarian.this,"ID doesn't exist","ID Error!", JOptionPane.ERROR\_MESSAGE);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Librarian.this,"Delete Operation cancelled!");

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

}

}catch(IOException e){

e.printStackTrace();

}

}

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

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Delete\_Librarian().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JTextField lib\_id;

// End of variables declaration

}

**// Delete\_Members**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Delete\_Members extends javax.swing.JFrame {

public Delete\_Members() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

mem\_id = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("DELETE MEMBERS");

jLabel1.setPreferredSize(new java.awt.Dimension(127, 22));

jLabel2.setText("ENTER THE ID No.:");

jLabel2.setPreferredSize(new java.awt.Dimension(100, 33));

mem\_id.setPreferredSize(new java.awt.Dimension(115, 33));

jButton1.setText("DELETE");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(36, 36, 36)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 110, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(65, 65, 65)

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

.addGroup(layout.createSequentialGroup()

.addGap(135, 135, 135)

.addComponent(jButton1))

.addGroup(layout.createSequentialGroup()

.addGap(119, 119, 119)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 149, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(0, 49, Short.MAX\_VALUE))

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

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

.addComponent(jButton2)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(100, 100, 100)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(85, 85, 85)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 51, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

try{

int k=1;

String id = mem\_id.getText();

File infile = new File("members.txt");

if(infile.length() == 0){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Members.this,"There are no members. Please add members before deleting them!","Error!",JOptionPane.ERROR\_MESSAGE);

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Delete\_Members.this, "Are you sure you want to delete the member?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File tempfile = new File(infile.getAbsolutePath() + ".tmp");

BufferedReader reader = new BufferedReader(new FileReader(infile));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String[] libs = new String[7];

String read = "";

while((read = reader.readLine())!=null){

libs = read.split(";");

if(!libs[0].trim().equals(id)){

pw.println(read);

pw.flush();

}

else

k=0;

}

pw.close();

reader.close();

int x=0,y=0;

if(k==0){

if(!infile.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Members.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(infile)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Members.this, "Sorry, an Unexpected error occurerd","Error 2!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0){

File f = new File("Members" + id + ".txt");

f.delete();

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Members.this,"Member deleted successfully!");

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Members.this,"ID doesn't exist","ID Error!", JOptionPane.ERROR\_MESSAGE);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Delete\_Members.this,"Delete Operation cancelled!");

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

}

}catch(IOException e){

e.printStackTrace();

}

}

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

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Delete\_Members().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JTextField mem\_id;

// End of variables declaration

}

**// Fine\_Members**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.Scanner;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Fine\_Members extends javax.swing.JFrame {

public Fine\_Members() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jLabel2 = new javax.swing.JLabel();

Mem\_ID = new javax.swing.JTextField();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("FINE FOR MEMBERS");

jButton1.setText("Back");

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

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

jButton1ActionPerformed(evt);

}

});

jLabel2.setText("ENTER THE MEMBER ID:");

jLabel2.setPreferredSize(new java.awt.Dimension(124, 33));

Mem\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

jButton2.setText("REMOVE FINE");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

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

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

.addComponent(jButton1))

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 141, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(30, 30, 30)

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

.addGroup(layout.createSequentialGroup()

.addGap(112, 112, 112)

.addComponent(jLabel1)))

.addGap(0, 12, Short.MAX\_VALUE)))

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(120, 120, 120)

.addComponent(jButton2)

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

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(84, 84, 84)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(60, 60, 60)

.addComponent(jButton2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 92, Short.MAX\_VALUE)

.addComponent(jButton1)

.addContainerGap())

);

pack();

}// </editor-fold>

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

String mem\_id = Mem\_ID.getText();

File f = new File("Members" + mem\_id + ".txt");

if(f.exists()){

try {

Scanner read = new Scanner(new FileReader("members.txt"));

String line = "";

int i=0;

while(read.hasNext()){

line = read.nextLine();

String[] words = line.split(";");

if(words[0].equals(mem\_id))

if(words[6].equals("Fine"))

i=1;

}

read.close();

if(i==1){

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Fine\_Members.this, "Are you sure you want to remove the fine of this member? Please check if the member ID is correct.", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File f1 = new File("members.txt");

File tempfile = new File(f1.getAbsolutePath() + ".tmp");

try {

BufferedReader reader = new BufferedReader(new FileReader(f1));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String reads = "";

int z=1;

while((reads = reader.readLine())!=null){

String[] words = reads.split(";");

if(!words[0].equals(mem\_id)){

pw.println(read);

pw.flush();

}

else{

String lines = words[0] + ";" + words[1] + ";" + words[2] + ";" + words[3] + ";" + words[4] + ";" + words[5] + "-";

pw.println(lines);

pw.flush();

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f1.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Fine\_Members.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Fine\_Members.this, "Sorry, an Unexpected error occurerd","Error 2!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Fine\_Members.this,"Fine removed successfully!");

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Fine\_Members.this, "Sorry, an Unexpected error occurerd","Error 3!", JOptionPane.ERROR\_MESSAGE);

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Fine\_Members.this,"Unable to remove fine!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Fine\_Members.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Fine\_Members.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Fine\_Members.this,"Operation cancelled!");

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Fine\_Members.this, "There is no fine for this member","Fine Error!", JOptionPane.ERROR\_MESSAGE);

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Fine\_Members.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

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

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Fine\_Members().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Mem\_ID;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

// End of variables declaration

}

**// Head\_Librarian**

package Library\_Service;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Head\_Librarian extends javax.swing.JFrame {

public Head\_Librarian() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

admin\_username = new javax.swing.JTextField();

admin\_password = new javax.swing.JPasswordField();

jButton2 = new javax.swing.JButton();

jButton1 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setForeground(new java.awt.Color(153, 153, 153));

jLabel1.setText("HEAD LIBRARIAN LOGIN FORM");

jLabel1.setPreferredSize(new java.awt.Dimension(209, 22));

jLabel2.setText("USER ID:");

jLabel2.setPreferredSize(new java.awt.Dimension(58, 20));

jLabel3.setText("PASSWORD:");

jLabel3.setPreferredSize(new java.awt.Dimension(55, 20));

admin\_username.setPreferredSize(new java.awt.Dimension(155, 33));

admin\_username.addActionListener(new java.awt.event.ActionListener() {

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

admin\_usernameActionPerformed(evt);

}

});

admin\_password.setPreferredSize(new java.awt.Dimension(155, 33));

jButton2.setText("LOGIN");

jButton2.setPreferredSize(new java.awt.Dimension(85, 25));

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

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

jButton2ActionPerformed(evt);

}

});

jButton1.setText("Back");

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

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

jButton1ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(36, 36, 36)

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

.addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT\_SIZE, 75, Short.MAX\_VALUE)

.addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addGap(68, 68, 68)

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

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

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

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

.addGroup(layout.createSequentialGroup()

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

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

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

.addComponent(jButton1))

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(105, 105, 105)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(64, 64, 64)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 259, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 75, Short.MAX\_VALUE)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(39, 39, 39)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(50, 50, 50)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(39, 39, 39)

.addComponent(jButton1)

.addContainerGap())

);

pack();

}// </editor-fold>

private void admin\_usernameActionPerformed(java.awt.event.ActionEvent evt) {

}

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

String uname = admin\_username.getText();

String psd = String.valueOf(admin\_password.getText());

if(uname.equals("admin") && psd.equals("admin123")){

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Head\_Librarian.this, "Sorry, User ID or Password is incorrect","Login Error!", JOptionPane.ERROR\_MESSAGE);

admin\_username.setText("");

admin\_password.setText("");

}

}

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

new main\_page().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Head\_Librarian().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JPasswordField admin\_password;

private javax.swing.JTextField admin\_username;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Head\_Login\_Success**

package Library\_Service;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.util.Scanner;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

import javax.swing.JTextArea;

public class Head\_Login\_Success extends javax.swing.JFrame {

public Head\_Login\_Success() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

jButton5 = new javax.swing.JButton();

jButton6 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setForeground(new java.awt.Color(153, 153, 153));

jLabel1.setText("HEAD LIBRARIAN SECTION");

jLabel1.setPreferredSize(new java.awt.Dimension(177, 22));

jButton1.setText("ADD LIBRARIAN");

jButton1.setPreferredSize(new java.awt.Dimension(123, 33));

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("VIEW LIBRARIAN");

jButton2.setPreferredSize(new java.awt.Dimension(123, 33));

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("DELETE LIBRARIAN");

jButton3.setPreferredSize(new java.awt.Dimension(125, 33));

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("LOGOUT");

jButton4.setPreferredSize(new java.awt.Dimension(123, 33));

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

jButton5.setText("VIEW REPORT");

jButton5.setPreferredSize(new java.awt.Dimension(125, 33));

jButton5.addActionListener(new java.awt.event.ActionListener() {

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

jButton5ActionPerformed(evt);

}

});

jButton6.setText("MODIFY LIBRARIAN");

jButton6.setPreferredSize(new java.awt.Dimension(143, 33));

jButton6.addActionListener(new java.awt.event.ActionListener() {

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

jButton6ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(82, 82, 82)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 223, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(123, 123, 123)

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

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton3, javax.swing.GroupLayout.DEFAULT\_SIZE, 141, Short.MAX\_VALUE)

.addComponent(jButton2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton5, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)))))

.addGap(82, 82, 82))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton5, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

pack();

}// </editor-fold>

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

new Add\_Librarian().setVisible(true);

this.setVisible(false);

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

JDialog.setDefaultLookAndFeelDecorated(true);

int reply = JOptionPane.showConfirmDialog(Head\_Login\_Success.this, "Are you sure you want to logout?", "Confirm Logout?", JOptionPane.YES\_NO\_OPTION);

if (reply == JOptionPane.YES\_OPTION) {

new main\_page().setVisible(true);

this.setVisible(false);

}

}

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

new View\_Librarian().setVisible(true);

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

new Delete\_Librarian().setVisible(true);

this.setVisible(false);

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

try{

int cat\_count = 0,books\_count=0,books\_avail=0,books\_borrow=0,books\_lost=0,mem\_count=0,fine=0;

String cat="";

File f = new File("categories.txt");

if(f.exists()){

Scanner s = new Scanner(new FileReader(f));

while(s.hasNext()){

cat\_count++;

cat=s.nextLine();

Scanner r = new Scanner(new FileReader("Categories" + cat + ".txt"));

while(r.hasNext()){

String[] words = r.nextLine().split(";");

books\_count++;

if(words[3].equals("Available"))

books\_avail++;

else if(words[3].equals("Borrowed"))

books\_borrow++;

else

books\_lost++;

}

r.close();

}

s.close();

}

File f1 = new File("members.txt");

if(f1.exists()){

Scanner t = new Scanner(new FileReader(f1));

while(t.hasNext()){

mem\_count++;

String[] word = t.nextLine().split(";");

if(word[6].equals("Fine"))

fine++;

}

t.close();

}

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Head\_Login\_Success.this, new JTextArea("\nNumber of Categories:\t\t" + cat\_count + "\nNumber of Books:\t\t" + books\_count + "\nAvailable Books:\t\t" + books\_avail + "\nBorrowed Books:\t\t" + books\_lost + "\nLost Books:\t\t\t" + books\_lost + "\nNumber of Members:\t\t" + mem\_count + "\nNumber of Members with Fine:\t\t" + fine), "Library Report",JOptionPane.INFORMATION\_MESSAGE);

} catch (FileNotFoundException ex) {

Logger.getLogger(Head\_Login\_Success.class.getName()).log(Level.SEVERE, null, ex);

}

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

new Modify\_Librarians().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Head\_Login\_Success().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}

**// Issue\_Book**

package Library\_Service;

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.text.Format;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import java.util.Date;

import java.util.Locale;

import java.util.Scanner;

import java.util.concurrent.TimeUnit;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

import javax.swing.JTextArea;

public class Issue\_Book extends javax.swing.JFrame {

public Issue\_Book() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

B\_ID = new javax.swing.JTextField();

jLabel3 = new javax.swing.JLabel();

Mem\_ID = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("RETURN BOOK");

jLabel1.setPreferredSize(new java.awt.Dimension(99, 22));

jLabel2.setText("ENTER BOOK ID:");

jLabel2.setPreferredSize(new java.awt.Dimension(104, 33));

B\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

jLabel3.setText("ENTER MEMBER ID:");

jLabel3.setPreferredSize(new java.awt.Dimension(124, 33));

Mem\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

Mem\_ID.setRequestFocusEnabled(false);

jButton1.setText("RETURN");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(41, 41, 41)

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

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

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

.addGroup(layout.createSequentialGroup()

.addGap(140, 140, 140)

.addComponent(jButton1))

.addGroup(layout.createSequentialGroup()

.addGap(132, 132, 132)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 123, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(0, 30, Short.MAX\_VALUE))

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

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

.addComponent(jButton2)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(61, 61, 61)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(50, 50, 50)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(41, 41, 41)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 51, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new Librarian\_Login\_Succes().setVisible(true);

this.setVisible(false);

}

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

String id = B\_ID.getText();

String mem\_id = Mem\_ID.getText();

try{

int j=0,k=1;

Scanner reader1 = new Scanner(new File("categories.txt"));

String books;

String cat[] = new String[20];

while(reader1.hasNext()){

cat[j++] = reader1.nextLine();

}

reader1.close();

String[] args = new String[7];

for(int i=0;i<j;i++){

BufferedReader readers = new BufferedReader(new FileReader("Categories" + cat[i] + ".txt"));

//int x=0,y=0;

while((books = readers.readLine())!=null){

String[] words = books.split(";");

if(words[0].equalsIgnoreCase(id) && words[3].equalsIgnoreCase("Borrowed")){

args[0] = cat[i];

args[1] = words[0];

args[2] = words[1];

args[3] = words[2];

args[4] = words[3];

args[5] = words[4];

args[6] = words[5];

k=0;

}

}

readers.close();

}

if(k==0){

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Issue\_Book.this,new JTextArea("Book Category:\t\t" + args[0] + "\nBook ID:\t\t" + args[1] + "\nBook Name:\t\t" + args[2] + "\nBook Author:\t\t" + args[3] + "\nAvailability:\t\t" + args[4] + "\nBorrowed Member:\t" + args[5] + "\nBorrowed Date:\t\t" + args[6]),"Return Book?",JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

Calendar cal = Calendar.getInstance();

Date dtf = cal.getTime();

Format formatter = new SimpleDateFormat("dd/MM/yyyy");

String s = formatter.format(dtf);

try {

File f = new File("Categories" + args[0] + ".txt");

File tempfile = new File(f.getAbsolutePath() + ".tmp");

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

String lines = words[0] + ";" + words[1] + ";" + words[2] + ";" + "Available;-;-";

SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy", Locale.ENGLISH);

try {

Date firstDate = sdf.parse(words[5]);

Date secondDate = sdf.parse(s);

long diffInMillies = Math.abs(secondDate.getTime() - firstDate.getTime());

long diff = TimeUnit.DAYS.convert(diffInMillies, TimeUnit.MILLISECONDS);

BufferedWriter writer1 = new BufferedWriter(new FileWriter("overdue.txt",true));

if(diff>14){

writer1.write(args[5]);

writer1.newLine();

}

writer1.close();

int a=0;

Scanner read1 = new Scanner(new FileReader("overdue.txt"));

while(read1.hasNext()){

books=read1.nextLine();

if(books.equals(mem\_id)){

a++;

}

}

if(a%3==0){

File files = new File("members.txt");

File tempfiles = new File(files.getAbsolutePath() + ".tmp");

BufferedReader r = new BufferedReader(new FileReader(files));

PrintWriter p = new PrintWriter(new FileWriter(tempfiles));

String reads = "";

int c=1;

while((reads = r.readLine())!=null){

String[] words1 = reads.split(";");

if(!words1[0].equals(mem\_id)){

p.println(reads);

p.flush();

}

else{

String lines1 = words1[0] + ";" + words1[1] + ";" + words[2] + ";" + words1[3] + ";" + words1[4] + ";" + words1[5] + ";Fine";

p.println(lines1);

p.flush();

c=0;

}

}

p.close();

r.close();

if(c==0){

if(!f.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this, "Sorry, an Unexpected error occurerd","Error 2!", JOptionPane.ERROR\_MESSAGE);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this,"Unable to return!","Member Error!", JOptionPane.ERROR\_MESSAGE);

}

}

} catch (ParseException ex) {

Logger.getLogger(Issue\_Book.class.getName()).log(Level.SEVERE, null, ex);

}

pw.println(lines);

pw.flush();

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this, "Sorry, an Unexpected error occurerd","Error 3!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this, "Sorry, an Unexpected error occurerd","Error 4!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this,"Unable to return!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

File f1 = new File("Members" + args[5] + ".txt");

File tempfile1 = new File(f1.getAbsolutePath() + ".tmp");

BufferedReader readers = new BufferedReader(new FileReader(f1));

PrintWriter pws = new PrintWriter(new FileWriter(tempfile1));

String reads = "";

int w=1;

while((reads = readers.readLine())!=null){

String[] words = reads.split(";");

if(!words[0].equals(id)){

pws.println(reads);

pws.flush();

}

else{

String lines = words[0] + ";" + words[1] + ";" + s;

pws.println(lines);

pws.flush();

w=0;

}

}

pws.close();

readers.close();

int u=0,v=0;

if(w==0){

if(!f1.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this, "Sorry, an Unexpected error occurerd","Error 5!", JOptionPane.ERROR\_MESSAGE);

u=1;

}

if(!tempfile1.renameTo(f1)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this, "Sorry, an Unexpected error occurerd","Error 6!", JOptionPane.ERROR\_MESSAGE);

v=1;

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this,"Unable to return!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

File f2 = new File("Books" + args[1] + ".txt");

File tempfile2 = new File(f2.getAbsolutePath() + ".tmp");

BufferedReader readers1 = new BufferedReader(new FileReader(f2));

PrintWriter pws1 = new PrintWriter(new FileWriter(tempfile2));

String reads2 = "";

int t=1;

while((reads2 = readers1.readLine())!=null){

String[] words = reads2.split(";");

if(!words[0].equals(mem\_id)){

pws1.println(reads);

pws1.flush();

}

else{

String lines = words[0] + ";" + words[1] + ";" + s;

pws1.println(lines);

pws1.flush();

t=0;

}

}

pws1.close();

readers1.close();

int r=0,q=0;

if(t==0){

if(!f2.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this, "Sorry, an Unexpected error occurerd","Error 7!", JOptionPane.ERROR\_MESSAGE);

r=1;

}

if(!tempfile2.renameTo(f2)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this, "Sorry, an Unexpected error occurerd","Error 8!", JOptionPane.ERROR\_MESSAGE);

q=1;

}

if(q==0 && r==0 && u==0 && v==0 && x==0 && y==0) {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this,"Book returned successfully!");

new Librarian\_Login\_Succes().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this, "Sorry, an Unexpected error occurerd","Error 9!", JOptionPane.ERROR\_MESSAGE);

new Librarian\_Login\_Succes().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Issue\_Book.this,"Unable to return!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Issue\_Book.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Issue\_Book.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Issue\_Book.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Issue\_Book.class.getName()).log(Level.SEVERE, null, ex);

}

}

public static void main(String args[]) {

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

public void run() {

new Issue\_Book().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField B\_ID;

private javax.swing.JTextField Mem\_ID;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Librarian**

package Library\_Service;

import java.io.BufferedReader;

import java.io.FileReader;

import java.io.IOException;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Librarian extends javax.swing.JFrame {

public Librarian() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

lib\_uname = new javax.swing.JTextField();

jLabel3 = new javax.swing.JLabel();

lib\_psd = new javax.swing.JPasswordField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setForeground(new java.awt.Color(153, 153, 153));

jLabel1.setText("LIBRARIAN LOGIN FORM");

jLabel1.setPreferredSize(new java.awt.Dimension(163, 22));

jLabel2.setText("USER ID:");

jLabel2.setPreferredSize(new java.awt.Dimension(60, 33));

lib\_uname.setPreferredSize(new java.awt.Dimension(75, 33));

jLabel3.setText("PASSWORD:");

jLabel3.setPreferredSize(new java.awt.Dimension(60, 33));

lib\_psd.setPreferredSize(new java.awt.Dimension(125, 33));

jButton1.setText("LOGIN");

jButton1.setPreferredSize(new java.awt.Dimension(85, 25));

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(105, 105, 105)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

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

.addComponent(jButton2))

.addGroup(layout.createSequentialGroup()

.addGap(36, 36, 36)

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

.addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT\_SIZE, 75, Short.MAX\_VALUE)

.addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addGap(53, 53, 53)

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

.addComponent(lib\_psd, javax.swing.GroupLayout.DEFAULT\_SIZE, 155, Short.MAX\_VALUE)

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

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(90, 90, 90)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 207, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(90, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(75, 75, 75)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(39, 39, 39)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(50, 50, 50)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 39, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new main\_page().setVisible(true);;

this.setVisible(false);

}

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

String uname = lib\_uname.getText();

String psd = String.valueOf(lib\_psd.getText());

int k=0;

try{

BufferedReader reader = new BufferedReader(new FileReader("librarians.txt"));

String line = "";

while((line=reader.readLine())!=null){

String[] words = line.split(";");

if(uname.equals(words[0])){

k=1;

if( psd.equals(words[4])){

new Librarian\_Login\_Succes().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Librarian.this, "Sorry, User ID or Password is incorrect","Login Error!", JOptionPane.ERROR\_MESSAGE);

lib\_uname.setText("");

lib\_psd.setText("");

}

}

}

if(k==0){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Librarian.this, "Sorry, User ID doesn't exists","ID Error!", JOptionPane.ERROR\_MESSAGE);

lib\_uname.setText("");

lib\_psd.setText("");

}

reader.close();

}catch(IOException e){

e.printStackTrace();

}

}

public static void main(String args[]) {

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

public void run() {

new Librarian().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JPasswordField lib\_psd;

private javax.swing.JTextField lib\_uname;

// End of variables declaration

}

**// Librarian\_Login\_Succes**

package library\_service;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Librarian\_Login\_Succes extends javax.swing.JFrame {

public Librarian\_Login\_Succes() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

jButton5 = new javax.swing.JButton();

jButton6 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setForeground(new java.awt.Color(153, 153, 153));

jLabel1.setText("LIBRARIAN SECTION");

jLabel1.setPreferredSize(new java.awt.Dimension(131, 22));

jButton1.setText("MEMBERS");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("BOOK CATEGORY");

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("BOOKS");

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("CLOCK IN/CLOCK OUT");

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

jButton5.setText("LOGOUT");

jButton5.addActionListener(new java.awt.event.ActionListener() {

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

jButton5ActionPerformed(evt);

}

});

jButton6.setText("RETURN BOOK");

jButton6.setPreferredSize(new java.awt.Dimension(267, 25));

jButton6.addActionListener(new java.awt.event.ActionListener() {

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

jButton6ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(107, 107, 107)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 173, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(52, 52, 52)

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

.addComponent(jButton1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton6, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton5, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))

.addContainerGap(68, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton1)

.addGap(40, 40, 40)

.addComponent(jButton2)

.addGap(40, 40, 40)

.addComponent(jButton3)

.addGap(40, 40, 40)

.addComponent(jButton4)

.addGap(40, 40, 40)

.addComponent(jButton6, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton5))

);

pack();

}// </editor-fold>

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

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

JDialog.setDefaultLookAndFeelDecorated(true);

int reply = JOptionPane.showConfirmDialog(Librarian\_Login\_Succes.this, "Are you sure you want to logout?", "Confirm Logout?", JOptionPane.YES\_NO\_OPTION);

if (reply == JOptionPane.YES\_OPTION) {

new main\_page().setVisible(true);

this.setVisible(false);

}

}

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

// TODO add your handling code here:

new AVMD\_Book\_Category().setVisible(true);

this.setVisible(false);

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

new ClockIn\_ClockOut().setVisible(true);

this.setVisible(false);

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

new Issue\_Book().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Librarian\_Login\_Succes().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}

**// Library\_service**

package Library\_Service;

import java.io.FileWriter;

import java.io.FileReader;

public class Library\_service {

public static void main(String[] args) {

new main\_page().setVisible(true);

//this.setVisible(false);

}

}

**// Lost\_Found**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Lost\_Found extends javax.swing.JFrame {

public Lost\_Found() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

B\_Cat = new javax.swing.JTextField();

jLabel3 = new javax.swing.JLabel();

B\_ID = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("BOOK LOST/FOUND");

jLabel1.setPreferredSize(new java.awt.Dimension(163, 22));

jLabel2.setText("ENTER BOOK CATEGORY:");

jLabel2.setPreferredSize(new java.awt.Dimension(143, 33));

B\_Cat.setPreferredSize(new java.awt.Dimension(155, 33));

jLabel3.setText("ENTER BOOK ID:");

B\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("Back");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("LOST/FOUND");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(112, 112, 112)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addComponent(jLabel3)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 151, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(26, 26, 26)

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

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

.addComponent(B\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, 155, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGap(0, 18, Short.MAX\_VALUE))

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

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

.addComponent(jButton1)))

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(140, 140, 140)

.addComponent(jButton2)

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

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(75, 75, 75)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(30, 30, 30)

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

.addComponent(jLabel3)

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

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 59, Short.MAX\_VALUE)

.addComponent(jButton2)

.addGap(39, 39, 39)

.addComponent(jButton1)

.addContainerGap())

);

pack();

}// </editor-fold>

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

String cat = B\_Cat.getText();

String id = B\_ID.getText();

File f = new File("Categories" + cat + ".txt");

if(!f.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Lost\_Found.this,"Category you specified doesn't exists","Category Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

}

else{

try {

BufferedReader reader1 = new BufferedReader(new FileReader(f));

int i=0,j=0,k=1;

String line="";

while((line=reader1.readLine())!=null){

String[] words = line.split(";");

if(words[0].equals(id)){

k=0;

if(words[3].equalsIgnoreCase("available") || words[3].equalsIgnoreCase("borrowed")){

i=1;

}

else if(words[3].equalsIgnoreCase("Lost"))

j=1;

}

}

reader1.close();

if(k==1){

JOptionPane.showMessageDialog(Lost\_Found.this,"ID doesn't exists, or you entered the wrong category name","ID Error!", JOptionPane.ERROR\_MESSAGE);

B\_Cat.setText("");

B\_ID.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Lost\_Found.this, "Are you sure you want to change the status of this book?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File tempfile = new File(f.getAbsolutePath() + ".tmp");

try{

BufferedReader reader = new BufferedReader(new FileReader(f));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

int z=1;

while((read = reader.readLine())!=null){

String[] words = read.split(";");

if(!words[0].equals(id)){

pw.println(read);

pw.flush();

}

else{

String lines = "";

if(i==1)

lines = words[0] + ";" + words[1] + ";" + words[2] + ";" + "Lost" + ";" + words[4] + ";" + words[5];

else if(j==1){

if(words[4].equals("-") && words[5].equals("-"))

lines = words[0] + ";" + words[1] + ";" + words[2] + ";" + "Available" + ";" + words[4] + ";" + words[5];

else

lines = words[0] + ";" + words[1] + ";" + words[2] + ";" + "Borrowed" + ";" + words[4] + ";" + words[5];

}

pw.println(lines);

pw.flush();

z=0;

}

}

pw.close();

reader.close();

int x=0,y=0;

if(z==0){

if(!f.delete()){

JOptionPane.showMessageDialog(Lost\_Found.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(f)){

JOptionPane.showMessageDialog(Lost\_Found.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

if(i==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Lost\_Found.this,"Book staus turned to \"Lost\"");

}

else if(j==1){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Lost\_Found.this,"Book staus turned to \"Found\"");

}

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Lost\_Found.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Lost\_Found.this,"Unable to change the book status!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Lost\_Found.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Lost\_Found.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Lost\_Found.this,"Lost Operation cancelled!");

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

}

} catch (IOException ex) {

Logger.getLogger(Lost\_Found.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

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

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Lost\_Found().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField B\_Cat;

private javax.swing.JTextField B\_ID;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Mem\_Login\_Success**

package Library\_Service;

import java.io.BufferedReader;

import java.io.FileReader;

import java.io.IOException;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Mem\_Login\_Success extends javax.swing.JFrame {

public Mem\_Login\_Success() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

Mem\_ID = new javax.swing.JTextField();

Mem\_psd = new javax.swing.JPasswordField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setForeground(new java.awt.Color(153, 153, 153));

jLabel1.setText("MEMBERS LOGIN SUCCESS");

jLabel1.setPreferredSize(new java.awt.Dimension(167, 22));

jLabel2.setText("USER ID:");

jLabel2.setPreferredSize(new java.awt.Dimension(63, 33));

jLabel3.setText("PASSWORD:");

jLabel3.setPreferredSize(new java.awt.Dimension(60, 33));

Mem\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

Mem\_psd.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("LOGIN");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

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

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

jButton2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

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

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

.addComponent(jButton2))

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 74, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(70, 70, 70)

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

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

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

.addGroup(layout.createSequentialGroup()

.addGap(92, 92, 92)

.addComponent(jButton1)))

.addGap(0, 51, Short.MAX\_VALUE)))

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(82, 82, 82)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 223, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(50, 50, 50)

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

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(30, 30, 30)

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

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(55, 55, 55)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 68, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

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

new main\_page().setVisible(true);

this.setVisible(false);

}

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

String uname = Mem\_ID.getText();

String psd = String.valueOf(Mem\_psd.getText());

try{

BufferedReader reader = new BufferedReader(new FileReader("members.txt"));

String line = "";

while((line=reader.readLine())!=null){

String[] words = line.split(";");

if(uname.equals(words[0]) && psd.equals(words[4])){

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

break;

}else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Mem\_Login\_Success.this, "Sorry, User ID or Password is incorrect","Login Error!", JOptionPane.ERROR\_MESSAGE);

Mem\_ID.setText("");

Mem\_psd.setText("");

}

}

reader.close();

}catch(IOException e){

e.printStackTrace();

}

}

public static void main(String args[]) {

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

public void run() {

new Mem\_Login\_Success().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Mem\_ID;

private javax.swing.JPasswordField Mem\_psd;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Members\_Login\_Success**

package Library\_Service;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Members\_Login\_Success extends javax.swing.JFrame {

public Members\_Login\_Success() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setForeground(new java.awt.Color(153, 153, 153));

jLabel1.setText("MEMBERS SECTION");

jLabel1.setPreferredSize(new java.awt.Dimension(135, 22));

jButton1.setText("SEARCH A BOOK");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("BORROW A BOOK");

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("RENEW MEMBERSHIP");

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("LOGOUT");

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(116, 116, 116)

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

.addComponent(jButton3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)))

.addGroup(layout.createSequentialGroup()

.addGap(111, 111, 111)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 165, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addContainerGap(99, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(71, 71, 71)

.addComponent(jButton1)

.addGap(40, 40, 40)

.addComponent(jButton2)

.addGap(40, 40, 40)

.addComponent(jButton3)

.addGap(40, 40, 40)

.addComponent(jButton4)

.addGap(38, 38, 38))

);

pack();

}// </editor-fold>

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

JDialog.setDefaultLookAndFeelDecorated(true);

int reply = JOptionPane.showConfirmDialog(Members\_Login\_Success.this, "Are you sure you want to logout?", "Confirm Logout?", JOptionPane.YES\_NO\_OPTION);

if (reply == JOptionPane.YES\_OPTION) {

new main\_page().setVisible(true);

this.setVisible(false);

}

}

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

new Search\_Books().setVisible(true);

this.setVisible(false);

}

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

new Borrow\_Book().setVisible(true);

this.setVisible(false);

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

new Renew\_Membership().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Members\_Login\_Success().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}

**// Modify\_BCategory**

package Library\_Service;

public class Modify\_BCategory extends javax.swing.JFrame {

public Modify\_BCategory() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

jButton5 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("MODIFY BOOK CATEGORY");

jLabel1.setPreferredSize(new java.awt.Dimension(215, 22));

jButton2.setText("MOVE ALL BOOKS");

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("RENAME CATEGORY");

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("Back");

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

jButton5.setText("DELETE CATEGORY");

jButton5.addActionListener(new java.awt.event.ActionListener() {

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

jButton5ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(86, 86, 86)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(122, 122, 122)

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

.addComponent(jButton3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton5, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))

.addGap(86, 86, 86))

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

.addComponent(jButton4)

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton2)

.addGap(40, 40, 40)

.addComponent(jButton3)

.addGap(40, 40, 40)

.addComponent(jButton5)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 99, Short.MAX\_VALUE)

.addComponent(jButton4)

.addContainerGap())

);

pack();

}// </editor-fold>

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

new AVMD\_Book\_Category().setVisible(true);

this.setVisible(false);

}

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

new MoveAll\_Category().setVisible(true);

this.setVisible(false);

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

new Rename\_Category().setVisible(true);

this.setVisible(false);

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

new Delete\_Category().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

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

public void run() {

new Modify\_BCategory().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}

**// Modify\_Books**

package Library\_Service;

public class Modify\_Books extends javax.swing.JFrame {

/\*\*

\* Creates new form Modify\_Books

\*/

public Modify\_Books() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

jButton5 = new javax.swing.JButton();

jButton6 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("MODIFY BOOKS");

jButton1.setText("CHANGE BOOK NAME");

jButton1.setPreferredSize(new java.awt.Dimension(277, 25));

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("CHANGE BOOK AUTHOR");

jButton2.setPreferredSize(new java.awt.Dimension(277, 25));

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("Back");

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("MOVE BOOK FROM ONE CATEGORY TO ANOTHER");

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

jButton5.setText("BOOK LOST/FOUND");

jButton5.addActionListener(new java.awt.event.ActionListener() {

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

jButton5ActionPerformed(evt);

}

});

jButton6.setText("DELETE BOOK");

jButton6.addActionListener(new java.awt.event.ActionListener() {

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

jButton6ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

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

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

.addComponent(jButton3))

.addGroup(layout.createSequentialGroup()

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

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

.addGap(140, 140, 140)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(35, 35, 35)

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

.addComponent(jButton4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton2, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton5, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton6, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))

.addGap(0, 23, Short.MAX\_VALUE)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(40, 40, 40)

.addComponent(jButton4)

.addGap(40, 40, 40)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addComponent(jButton5)

.addGap(40, 40, 40)

.addComponent(jButton6)

.addGap(33, 33, 33)

.addComponent(jButton3)

.addContainerGap())

);

pack();

}// </editor-fold>//GEN-END:initComponents

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton4ActionPerformed

// TODO add your handling code here:

new Move1Book\_Category().setVisible(true);

this.setVisible(false);

}//GEN-LAST:event\_jButton4ActionPerformed

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton3ActionPerformed

// TODO add your handling code here:

new AVM\_Books().setVisible(true);

this.setVisible(false);

}//GEN-LAST:event\_jButton3ActionPerformed

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton1ActionPerformed

// TODO add your handling code here:

new Change\_Book\_Name().setVisible(true);

this.setVisible(false);

}//GEN-LAST:event\_jButton1ActionPerformed

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton6ActionPerformed

// TODO add your handling code here:

new Delete\_Book().setVisible(true);

this.setVisible(false);

}//GEN-LAST:event\_jButton6ActionPerformed

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton5ActionPerformed

// TODO add your handling code here:

new Lost\_Found().setVisible(true);

this.setVisible(false);

}//GEN-LAST:event\_jButton5ActionPerformed

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_jButton2ActionPerformed

// TODO add your handling code here:

new Change\_Book\_Author().setVisible(true);

this.setVisible(false);

}//GEN-LAST:event\_jButton2ActionPerformed

/\*\*

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Modify\_Books.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 Modify\_Books().setVisible(true);

}

});

}

// Variables declaration - do not modify//GEN-BEGIN:variables

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JLabel jLabel1;

// End of variables declaration//GEN-END:variables

}

**// Modify\_Librarians**

package Library\_Service;

public class Modify\_Librarians extends javax.swing.JFrame {

/\*\*

\* Creates new form Modify\_Members

\*/

public Modify\_Librarians() {

initComponents();

}

/\*\*

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

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

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("MODIFY LIBRARIANS");

jButton1.setText("CHANGE NAME");

jButton1.setPreferredSize(new java.awt.Dimension(173, 33));

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("CHANGE EMAIL");

jButton2.setPreferredSize(new java.awt.Dimension(173, 33));

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("CHANGE CONTACT NOS.");

jButton3.setPreferredSize(new java.awt.Dimension(173, 33));

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("Back");

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(108, 108, 108)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(107, 107, 107)

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

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGap(0, 95, Short.MAX\_VALUE))

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

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

.addComponent(jButton4)))

.addContainerGap())

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(60, 60, 60)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(60, 60, 60)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(60, 60, 60)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(19, 19, 19)

.addComponent(jButton4)

.addGap(9, 9, 9))

);

pack();

}// </editor-fold>

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

new Head\_Login\_Success().setVisible(true);

this.setVisible(false);

}

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

// TODO add your handling code here:

new Change\_Librarian\_Name().setVisible(true);

this.setVisible(false);

}

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

// TODO add your handling code here:

new Change\_Librarian\_Mail().setVisible(true);

this.setVisible(false);

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

new Change\_Librarian\_Phone().setVisible(true);

this.setVisible(false);

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

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

public void run() {

new Modify\_Librarians().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}

**// Modify\_Members**

package Library\_Service;

public class Modify\_Members extends javax.swing.JFrame {

public Modify\_Members() {

initComponents();

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

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

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("MODIFY MEMBERS");

jButton1.setText("CHANGE NAME");

jButton1.setPreferredSize(new java.awt.Dimension(173, 33));

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("CHANGE EMAIL");

jButton2.setPreferredSize(new java.awt.Dimension(173, 33));

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("CHANGE CONTACT NOS.");

jButton3.setPreferredSize(new java.awt.Dimension(173, 33));

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("Back");

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(118, 118, 118)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(107, 107, 107)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGap(0, 95, Short.MAX\_VALUE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addGap(0, 0, Short.MAX\_VALUE)

.addComponent(jButton4)))

.addContainerGap())

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(60, 60, 60)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(60, 60, 60)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(60, 60, 60)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(19, 19, 19)

.addComponent(jButton4)

.addGap(9, 9, 9))

);

pack();

}// </editor-fold>

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

new AVD\_Members().setVisible(true);

this.setVisible(false);

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

new Change\_Name\_Member().setVisible(true);

this.setVisible(false);

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

new Change\_Member\_Mail().setVisible(true);

this.setVisible(false);

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

new Change\_Member\_Phone().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Modify\_Members().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}

**// Move1Book\_Category**

package Library\_Service;

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Move1Book\_Category extends javax.swing.JFrame {

public Move1Book\_Category() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

Org\_Cat = new javax.swing.JTextField();

Book\_ID = new javax.swing.JTextField();

Dest\_Cat = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("MOVE ONE BOOK");

jLabel1.setPreferredSize(new java.awt.Dimension(127, 22));

jLabel2.setText("ENTER ORIGINATING CATEGORY:");

jLabel2.setPreferredSize(new java.awt.Dimension(138, 33));

jLabel3.setText("ENTER THE BOOK ID:");

jLabel3.setPreferredSize(new java.awt.Dimension(82, 33));

jLabel4.setText("ENTER DESTINATION CATEGORY:");

jLabel4.setPreferredSize(new java.awt.Dimension(157, 33));

Org\_Cat.setPreferredSize(new java.awt.Dimension(6, 33));

Book\_ID.setPreferredSize(new java.awt.Dimension(145, 33));

Dest\_Cat.setPreferredSize(new java.awt.Dimension(145, 33));

jButton1.setText("Back");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setText("MOVE");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(layout.createSequentialGroup()

.addGap(162, 345, Short.MAX\_VALUE)

.addComponent(jButton1))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup()

.addGap(25, 25, 25)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

.addComponent(jLabel2, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel4, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, 194, Short.MAX\_VALUE))

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 125, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(40, 40, 40)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(Org\_Cat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(Book\_ID, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(Dest\_Cat, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup()

.addGap(136, 136, 136)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 144, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(0, 0, Short.MAX\_VALUE)))

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(162, 162, 162)

.addComponent(jButton2)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(40, 40, 40)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Org\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(22, 22, 22)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Book\_ID, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Dest\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 50, Short.MAX\_VALUE)

.addComponent(jButton2)

.addGap(40, 40, 40)

.addComponent(jButton1)

.addContainerGap())

);

pack();

}// </editor-fold>

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

String ocat = Org\_Cat.getText();

String id = Book\_ID.getText();

String dcat = Dest\_Cat.getText();

File f1 = new File("Categories" + ocat + ".txt");

File f2 = new File("Categories" + dcat + ".txt");

if(!f1.exists() || !f2.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Move1Book\_Category.this,"Category you specified doesn't exists","Category Error!", JOptionPane.ERROR\_MESSAGE);

Org\_Cat.setText("");

Dest\_Cat.setText("");

Book\_ID.setText("");

}

else{

try{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Move1Book\_Category.this, "Are you sure you want to move this book?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

int k=1;

BufferedReader reader = new BufferedReader(new FileReader(f1));

File tempfile = new File(f1.getAbsolutePath() + ".tmp");

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String[] book = new String[5];

String read = "";

String line = "";

while((read = reader.readLine())!=null){

book = read.split(",");

if(!book[0].trim().equals(id)){

pw.println(read);

pw.flush();

}

else {

k=0;

line = read;

}

}

pw.close();

reader.close();

if(k==0){

if(!f1.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Move1Book\_Category.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

if(!tempfile.renameTo(f1)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Move1Book\_Category.this, "Sorry, an Unexpected error occurerd","Error 2!", JOptionPane.ERROR\_MESSAGE);

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

BufferedWriter writer = new BufferedWriter(new FileWriter(f2,true));

writer.write(line);

writer.newLine();

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Move1Book\_Category.this,"Book moved successfully!");

new AVM\_Books().setVisible(true);

this.setVisible(false);

writer.close();

}

else {

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Move1Book\_Category.this,"ID doesn't exist","ID Error!", JOptionPane.ERROR\_MESSAGE);

Org\_Cat.setText("");

Dest\_Cat.setText("");

Book\_ID.setText("");

}

}else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Move1Book\_Category.this,"Move Operation cancelled!");

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Move1Book\_Category.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Move1Book\_Category.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

new Modify\_Books().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Move1Book\_Category().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Book\_ID;

private javax.swing.JTextField Dest\_Cat;

private javax.swing.JTextField Org\_Cat;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

// End of variables declaration

}

**// MoveAll\_Category**

package Library\_Service;

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class MoveAll\_Category extends javax.swing.JFrame {

public MoveAll\_Category() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

Org\_Cat = new javax.swing.JTextField();

jLabel3 = new javax.swing.JLabel();

Dest\_Cat = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("MOVE ALL BOOKS IN A CATEGORY");

jLabel1.setPreferredSize(new java.awt.Dimension(233, 22));

jLabel2.setText("MOVE BOOKS FROM:");

jLabel2.setPreferredSize(new java.awt.Dimension(107, 33));

Org\_Cat.setPreferredSize(new java.awt.Dimension(145, 33));

jLabel3.setText("TO:");

Dest\_Cat.setPreferredSize(new java.awt.Dimension(145, 33));

jButton1.setText("MOVE");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addGap(0, 0, Short.MAX\_VALUE)

.addComponent(jButton2))

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(162, 162, 162)

.addComponent(jButton1))

.addGroup(layout.createSequentialGroup()

.addGap(24, 24, 24)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jLabel3)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 125, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(28, 28, 28)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(Org\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Dest\_Cat, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGap(0, 0, Short.MAX\_VALUE)))

.addContainerGap())

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addGap(50, 50, 50)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 287, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(50, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(60, 60, 60)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Org\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(30, 30, 30)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel3)

.addComponent(Dest\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(55, 55, 55)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 58, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

String org = Org\_Cat.getText();

String dest = Dest\_Cat.getText();

File f1 = new File("Categories" + dest + ".txt");

File f2 = new File("Categories" + org + ".txt");

if(!f1.exists() || !f2.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(MoveAll\_Category.this,"Category doesn't exists","Category Error!", JOptionPane.ERROR\_MESSAGE);

Dest\_Cat.setText("");

Org\_Cat.setText("");

}

else if(f2.length()==0){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(MoveAll\_Category.this,"This category is empty!","Category Empty!", JOptionPane.ERROR\_MESSAGE);

new AVMD\_Book\_Category().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(MoveAll\_Category.this, "Are you sure you want to move all the books?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

try {

BufferedReader reader = new BufferedReader(new FileReader(f2));

BufferedWriter writer = new BufferedWriter(new FileWriter(f1,true));

String line = "";

while((line=reader.readLine())!=null){

writer.write(line);

writer.newLine();

}

writer.close();

reader.close();

f2.delete();

FileWriter file = new FileWriter(f2);

file.close();

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(MoveAll\_Category.this,"Books moved successfully!");

new AVMD\_Book\_Category().setVisible(true);

this.setVisible(false);

} catch (FileNotFoundException ex) {

Logger.getLogger(MoveAll\_Category.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(MoveAll\_Category.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(MoveAll\_Category.this,"Move Operation cancelled!");

new MoveAll\_Category().setVisible(true);

this.setVisible(false);

}

}

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

new Modify\_BCategory().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new MoveAll\_Category().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Dest\_Cat;

private javax.swing.JTextField Org\_Cat;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Rename\_Category**

package Library\_Service;

import java.io.BufferedReader;

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.Scanner;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Rename\_Category extends javax.swing.JFrame {

public Rename\_Category() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

Org\_Cat = new javax.swing.JTextField();

Dest\_Cat = new javax.swing.JTextField();

jLabel3 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("RENAME CATEGORY");

jLabel2.setText("RENAME");

jLabel2.setPreferredSize(new java.awt.Dimension(48, 33));

Org\_Cat.setPreferredSize(new java.awt.Dimension(100, 33));

Dest\_Cat.setPreferredSize(new java.awt.Dimension(100, 33));

jLabel3.setText("CATEGORY TO");

jLabel3.setPreferredSize(new java.awt.Dimension(65, 33));

jButton1.setText("RENAME");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Back");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(154, 154, 154)

.addComponent(jButton1)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton2))

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(12, 12, 12)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(12, 12, 12)

.addComponent(Org\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, 101, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(12, 12, 12)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 86, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(Dest\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(112, 112, 112)

.addComponent(jLabel1)))

.addGap(0, 0, Short.MAX\_VALUE)))

.addContainerGap())

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(97, 97, 97)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Org\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Dest\_Cat, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(53, 53, 53)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 86, Short.MAX\_VALUE)

.addComponent(jButton2)

.addContainerGap())

);

pack();

}// </editor-fold>

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

new Modify\_BCategory().setVisible(true);

this.setVisible(false);

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

String org = Org\_Cat.getText();

String dest = Dest\_Cat.getText();

int k=1;

int x=0,y=0;

File f1 = new File("Categories/" + org + ".txt");

File f2 = new File("Categories/" + dest + ".txt");

if(f2.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Rename\_Category.this, "\""+dest+"\" category already exists","Category Error!", JOptionPane.ERROR\_MESSAGE);

Dest\_Cat.setText("");

}

else if(!f1.exists()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Rename\_Category.this,"\""+org+"\" Category doesn't exists","Category Error!", JOptionPane.ERROR\_MESSAGE);

Dest\_Cat.setText("");

Org\_Cat.setText("");

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

int response = JOptionPane.showConfirmDialog(Rename\_Category.this, "Are you sure you want to rename this category?", "Confirm?", JOptionPane.YES\_NO\_OPTION, JOptionPane.QUESTION\_MESSAGE);

if (response == JOptionPane.YES\_OPTION) {

File infile = new File("categories.txt");

File tempfile = new File(infile.getAbsolutePath() + ".tmp");

try {

BufferedReader reader = new BufferedReader(new FileReader(infile));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String read = "";

while((read = reader.readLine())!=null){

if(!read.equals(org)){

pw.println(read);

pw.flush();

}

else{

pw.println(dest);

pw.flush();

k=0;

}

}

pw.close();

reader.close();

if(k==0){

if(!infile.delete()){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Rename\_Category.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

x=1;

}

if(!tempfile.renameTo(infile)){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Rename\_Category.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

y=1;

}

if(x==0 && y==0) {

f1.renameTo(f2);

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Rename\_Category.this,"Category renamed successfully!");

new AVMD\_Book\_Category().setVisible(true);

this.setVisible(false);

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Rename\_Category.this, "Sorry, an Unexpected error occurerd","Error 1!", JOptionPane.ERROR\_MESSAGE);

new AVMD\_Book\_Category().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Rename\_Category.this,"Unable to rename!","Category Error!", JOptionPane.ERROR\_MESSAGE);

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Rename\_Category.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Rename\_Category.class.getName()).log(Level.SEVERE, null, ex);

}

}

else if(response==JOptionPane.NO\_OPTION){

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Rename\_Category.this,"Rename Operation cancelled!");

new MoveAll\_Category().setVisible(true);

this.setVisible(false);

}

}

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Rename\_Category().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Dest\_Cat;

private javax.swing.JTextField Org\_Cat;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

// End of variables declaration

}

**// Renew\_Membership**

package Library\_Service;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.io.PrintWriter;

import java.text.Format;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Calendar;

import java.util.Date;

import java.util.Locale;

import java.util.concurrent.TimeUnit;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JDialog;

import javax.swing.JOptionPane;

public class Renew\_Membership extends javax.swing.JFrame {

public Renew\_Membership() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

Mem\_ID = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("RENEW MEMBERSHIP");

jLabel1.setPreferredSize(new java.awt.Dimension(175, 22));

jLabel2.setText("ENTER ID:");

Mem\_ID.setPreferredSize(new java.awt.Dimension(155, 33));

jButton1.setText("Back");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setText("RENEW");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(106, 106, 106)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

.addComponent(jLabel2)

.addGap(78, 78, 78)

.addComponent(Mem\_ID, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(0, 58, Short.MAX\_VALUE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addGap(0, 0, Short.MAX\_VALUE)

.addComponent(jButton1)))

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(107, 107, 107)

.addComponent(jButton2)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(100, 100, 100)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2)

.addComponent(Mem\_ID, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(60, 60, 60)

.addComponent(jButton2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 76, Short.MAX\_VALUE)

.addComponent(jButton1)

.addContainerGap())

);

pack();

}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

BufferedReader reader = null;

try {

//int k=1;

String id = Mem\_ID.getText();

File infile = new File("members.txt");

File tempfile = new File(infile.getAbsolutePath() + ".tmp");

reader = new BufferedReader(new FileReader(infile));

PrintWriter pw = new PrintWriter(new FileWriter(tempfile));

String[] libs = new String[7];

String read = "";

while((read = reader.readLine())!=null){

libs = read.split(";");

if(!libs[0].trim().equals(id)){

pw.println(read);

pw.flush();

}

else{

//k=0;

if(libs[6].equals("-")){

Calendar cal = Calendar.getInstance();

Date dtf = cal.getTime();

Format formatter = new SimpleDateFormat("dd/MM/yyyy");

String s = formatter.format(dtf);

SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy", Locale.ENGLISH);

Date firstDate = sdf.parse(libs[5]);

Date secondDate = sdf.parse(s);

long diffInMillies = Math.abs(secondDate.getTime() - firstDate.getTime());

long diff = TimeUnit.DAYS.convert(diffInMillies, TimeUnit.MILLISECONDS);

if(diff>365){

String word = libs[0] + ";" + libs[1] + ";" + libs[2] + ";" + libs[3] + ";" + libs[4] + ";" + s + ";" + libs[6];

pw.println(word);

pw.flush();

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Renew\_Membership.this, "Your duration isn't over yet. You can renew your membership after your duration is over","No Need to Renew!", JOptionPane.ERROR\_MESSAGE);

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

}

else{

JDialog.setDefaultLookAndFeelDecorated(true);

JOptionPane.showMessageDialog(Renew\_Membership.this, "Please pay your fine to a librarian, and he/she will renew your membership","Fine!", JOptionPane.ERROR\_MESSAGE);

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

}

pw.close();

reader.close();

}

} catch (FileNotFoundException ex) {

Logger.getLogger(Renew\_Membership.class.getName()).log(Level.SEVERE, null, ex);

} catch (IOException ex) {

Logger.getLogger(Renew\_Membership.class.getName()).log(Level.SEVERE, null, ex);

} catch (ParseException ex) {

Logger.getLogger(Renew\_Membership.class.getName()).log(Level.SEVERE, null, ex);

} finally {

try {

reader.close();

} catch (IOException ex) {

Logger.getLogger(Renew\_Membership.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Renew\_Membership().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField Mem\_ID;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

// End of variables declaration

}

**// Search\_Books**

package Library\_Service;

import java.awt.BorderLayout;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileReader;

import java.io.IOException;

import java.util.Scanner;

import javax.swing.JOptionPane;

import javax.swing.JScrollPane;

import javax.swing.JTable;

import javax.swing.JTextArea;

public class Search\_Books extends javax.swing.JFrame {

public Search\_Books() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

B\_Name = new javax.swing.JTextField();

jLabel2 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("SEARCH BOOK");

jLabel1.setPreferredSize(new java.awt.Dimension(107, 22));

B\_Name.setPreferredSize(new java.awt.Dimension(155, 33));

jLabel2.setText("ENTER BOOK NAME:");

jLabel2.setPreferredSize(new java.awt.Dimension(125, 33));

jButton1.setText("Back");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setText("SEARCH");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addGap(0, 0, Short.MAX\_VALUE)

.addComponent(jButton1))

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(25, 25, 25)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(49, 49, 49)

.addComponent(B\_Name, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addGap(133, 133, 133)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 121, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(0, 21, Short.MAX\_VALUE)))

.addContainerGap())

.addGroup(layout.createSequentialGroup()

.addGap(132, 132, 132)

.addComponent(jButton2)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(B\_Name, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(117, 117, 117)))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 46, Short.MAX\_VALUE)

.addComponent(jButton2)

.addGap(106, 106, 106)

.addComponent(jButton1)

.addContainerGap())

);

pack();

}// </editor-fold>

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

String name1 = B\_Name.getText();

Display\_Books(name1);

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

new Members\_Login\_Success().setVisible(true);

this.setVisible(false);

}

public void Display\_Books(String name){

try{

int j=0,k=0,z=0;

Scanner reader1 = new Scanner(new File("categories.txt"));

String books;

String cat[] = new String[20];

while(reader1.hasNext()){

cat[j++] = reader1.nextLine();

}

reader1.close();

String[][] args = new String[100][7];

for(int i=0;i<j;i++){

BufferedReader readers = new BufferedReader(new FileReader("Categories" + cat[i] + ".txt"));

//int x=0,y=0;

while((books = readers.readLine())!=null){

String[] words = books.split(";");

if(words[1].equalsIgnoreCase(name.trim())){

args[k][0] = cat[i];

args[k][1] = words[0];

args[k][2] = words[1];

args[k][3] = words[2];

args[k][4] = words[3];

args[k][5] = words[4];

args[k][6] = words[5];

k++;

}

}

readers.close();

}

//reader1.close();

String[][] args1 = new String[k][7];

for(int i=0;i<k;i++)

for(j=0;j<7;j++)

args1[i][j]=args[i][j];

for(int i=0;i<k;i++)

if(args1[i][4].equalsIgnoreCase("Available"))

JOptionPane.showMessageDialog(Search\_Books.this,new JTextArea("Book Category:\t" + args1[i][0] + "\nBook ID:\t" + args1[i][1] + "\nBook Name:\t" + args1[i][2] + "\nBook Author:\t" + args1[i][3] + "\nAvailability:\t" + args1[i][4] + "\n\n"),"Book Details",JOptionPane.INFORMATION\_MESSAGE);

}catch(IOException e){

e.printStackTrace();

}

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Search\_Books().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField B\_Name;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

// End of variables declaration

}

**// View\_All\_Books**

package Library\_Service;

import java.awt.BorderLayout;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileReader;

import java.io.IOException;

import java.util.Scanner;

import javax.swing.JScrollPane;

import javax.swing.JTable;

public class View\_All\_Books extends javax.swing.JFrame {

public View\_All\_Books() {

super("View Books");

setSize(1000, 415);

//setDefaultCloseOperation(new AVMD\_Book\_Category().setVisible(true));

try{

int j=0,k=0,z=0;

Scanner reader1 = new Scanner(new File("categories.txt"));

String books;

String cat[] = new String[20];

while(reader1.hasNext()){

cat[j++] = reader1.nextLine();

}

reader1.close();

String[][] args = new String[100][7];

for(int i=0;i<j;i++){

BufferedReader readers = new BufferedReader(new FileReader("Categories" + cat[i] + ".txt"));

//int x=0,y=0;

while((books = readers.readLine())!=null){

String[] words = books.split(";");

args[k][0] = cat[i];

args[k][1] = words[0];

args[k][2] = words[1];

args[k][3] = words[2];

args[k][4] = words[3];

args[k][5] = words[4];

args[k][6] = words[5];

k++;

}

readers.close();

}

//reader1.close();

String[][] args1 = new String[k][7];

for(int i=0;i<k;i++)

for(j=0;j<7;j++)

args1[i][j]=args[i][j];

JTable jt = new JTable(args1, new String[] { "CATEGORY", "BOOK ID", "NAME", "AUTHOR", "AVAILABILTY", "BORROWED MEMBER", "BORROWED DATE" });

JScrollPane jsp = new JScrollPane(jt);

getContentPane().add(jsp, BorderLayout.CENTER);

}catch(IOException e){

e.printStackTrace();

}

//initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 400, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 300, Short.MAX\_VALUE)

);

pack();

}// </editor-fold>

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new View\_All\_Books().setVisible(true);

}

});

}

// Variables declaration - do not modify

// End of variables declaration

}

**// View\_BCategory**

package Library\_Service;

import java.awt.BorderLayout;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileReader;

import java.io.IOException;

import java.io.LineNumberReader;

import java.util.Scanner;

import javax.swing.JDialog;

import javax.swing.JScrollPane;

import javax.swing.JTable;

public class View\_BCategory extends javax.swing.JFrame {

public View\_BCategory() {

super("View Book Category");

setSize(650, 415);

//setDefaultCloseOperation(new AVMD\_Book\_Category().setVisible(true));

try{

int j=0,k=0,z=0;

Scanner reader1 = new Scanner(new File("categories.txt"));

String books;

String cat[] = new String[20];

while(reader1.hasNext()){

cat[j++] = reader1.nextLine();

}

reader1.close();

String[][] args = new String[100][5];

for(int i=0;i<j;i++){

BufferedReader readers = new BufferedReader(new FileReader("Categories" + cat[i] + ".txt"));

int x=0,y=0,m=0,n=0;

while((books = readers.readLine())!=null){

String[] words = books.split(";");

x++;

if(words[3].equalsIgnoreCase("available"))

y++;

else if(words[3].equalsIgnoreCase("Borrowed"))

m++;

else if(words[3].equalsIgnoreCase("lost"))

n++;

}

args[k][0] = cat[i];

args[k][1] = String.valueOf(x);

args[k][2] = String.valueOf(y);

args[k][3] = String.valueOf(m);

args[k][4] = String.valueOf(n);

k++;

readers.close();

}

//reader1.close();

String[][] args1 = new String[k][5];

for(int i=0;i<k;i++)

for(j=0;j<5;j++)

args1[i][j]=args[i][j];

JTable jt = new JTable(args1, new String[] { "CATEGORY", "TOTAL BOOKS", "BOOKS AVAILABLE", "BOOKS BORROWED", "BOOKS LOST" });

JScrollPane jsp = new JScrollPane(jt);

getContentPane().add(jsp, BorderLayout.CENTER);

}catch(IOException e){

e.printStackTrace();

}

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 400, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 300, Short.MAX\_VALUE)

);

pack();

}// </editor-fold>

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new View\_BCategory().setVisible(true);

}

});

}

// Variables declaration - do not modify

// End of variables declaration

}

**// View\_Books**

package Library\_Service;

import java.awt.BorderLayout;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileReader;

import java.io.IOException;

import java.util.Scanner;

import javax.swing.JScrollPane;

import javax.swing.JTable;

public class View\_Books extends javax.swing.JFrame {

public View\_Books() {

super("View Books");

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setText("View Books");

jButton1.setText("Back");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setText("View Books in a Specific Category");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

jButton3.setText("View Books in all Categories");

jButton3.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton3ActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1))

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(148, 148, 148)

.addComponent(jLabel1))

.addGroup(layout.createSequentialGroup()

.addGap(81, 81, 81)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 225, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2))))

.addGap(0, 69, Short.MAX\_VALUE)))

.addContainerGap())

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1)

.addGap(85, 85, 85)

.addComponent(jButton2)

.addGap(85, 85, 85)

.addComponent(jButton3)

.addGap(73, 73, 73)

.addComponent(jButton1)

.addGap(14, 14, 14))

);

pack();

}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

new AVM\_Books().setVisible(true);

this.setVisible(false);

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

new View\_All\_Books().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new View\_Books().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}

**// View\_Librarian**

package Library\_Service;

import java.awt.BorderLayout;

import java.io.BufferedReader;

import javax.swing.JTable;

import javax.swing.JScrollPane;

import javax.swing.JFrame;

import java.io.File;

import java.io.FileReader;

import java.io.IOException;

import java.util.Scanner;

import javax.swing.JDialog;

public class View\_Librarian extends javax.swing.JFrame {

public View\_Librarian() {

super("View Librarian");

setSize(700, 415);

//setDefaultCloseOperation(EXIT\_ON\_CLOSE);

try{

Scanner reader = new Scanner(new File("librarians.txt"));

String[] libs = new String[100];

int i=0;

while(reader.hasNext()){

libs[i++] = reader.nextLine();

}

String[][] args = new String[i][7];

int k=0;

double sum;

reader.close();

for(int j=0;j<i;j++){

args[j] = libs[j].split(";");

Scanner reader1 = new Scanner(new File("Librarians" + args[j][0] + ".txt"));

sum=0;

while(reader1.hasNext()){

String line = reader1.nextLine();

String[] words = line.split(";");

if(!words[2].equals("-"))

sum+= Double.parseDouble(words[2]);

}

args[j][6] = Double.toString(sum);

reader1.close();

}

JTable jt = new JTable(args, new String[] { "ID Nos.", "NAME", "MAIL ID", "CONTACT Nos.", "PASSWORD", "PIN", "WORK HOURS" });

JScrollPane jsp = new JScrollPane(jt);

getContentPane().add(jsp, BorderLayout.CENTER);

reader.close();

}catch(IOException e){

e.printStackTrace();

}

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 415, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 455, Short.MAX\_VALUE)

);

pack();

}// </editor-fold>

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new View\_Librarian().setVisible(true);

}

});

}

// Variables declaration - do not modify

// End of variables declaration

}

**// View\_Members**

package Library\_Service;

import java.awt.BorderLayout;

import java.io.File;

import java.io.IOException;

import java.util.Scanner;

import javax.swing.JScrollPane;

import javax.swing.JTable;

public class View\_Members extends javax.swing.JFrame {

public View\_Members() {

super("View Member");

setSize(1000, 415);

//setDefaultCloseOperation(EXIT\_ON\_CLOSE);

try{

Scanner reader = new Scanner(new File("members.txt"));

String[] mems = new String[100];

int i=0;

while(reader.hasNext()){

mems[i++] = reader.next();

}

String[][] args = new String[i][7];

for(int j=0;j<i;j++){

args[j] = mems[j].split(";");

}

JTable jt = new JTable(args, new String[] { "ID Nos.", "NAME", "MAIL ID", "CONTACT Nos.", "PASSWORD", "DATE CREATED", "CURRENT STATUS" });

JScrollPane jsp = new JScrollPane(jt);

getContentPane().add(jsp, BorderLayout.CENTER);

reader.close();

}catch(IOException e){

e.printStackTrace();

}

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 400, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 300, Short.MAX\_VALUE)

);

pack();

}// </editor-fold>

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new View\_Members().setVisible(true);

}

});

}

// Variables declaration - do not modify

// End of variables declaration

}

**// View\_Specific\_Book**

package Library\_Service;

public class View\_Specific\_Book extends javax.swing.JFrame {

public View\_Specific\_Book() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 400, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGap(0, 300, Short.MAX\_VALUE)

);

pack();

}// </editor-fold>

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new View\_Specific\_Book().setVisible(true);

}

});

}

// Variables declaration - do not modify

// End of variables declaration

}

**// main\_page**

package Library\_Service;

public class main\_page extends javax.swing.JFrame {

public main\_page() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jButton1 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jLabel1 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jButton1.setHorizontalTextPosition(javax.swing.SwingConstants.CENTER);

jButton1.setLabel("HEAD LIBRARIAN");

jButton1.setName(""); // NOI18N

jButton1.setVerticalAlignment(javax.swing.SwingConstants.TOP);

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton3.setText("MEMBER");

jButton3.setPreferredSize(new java.awt.Dimension(129, 25));

jButton3.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton3ActionPerformed(evt);

}

});

jButton2.setText("LIBRARIAN");

jButton2.setPreferredSize(new java.awt.Dimension(129, 25));

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel1.setForeground(new java.awt.Color(153, 153, 153));

jLabel1.setText("Library Management ");

jLabel1.setPreferredSize(new java.awt.Dimension(167, 23));

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(129, 129, 129)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton1)))

.addGroup(layout.createSequentialGroup()

.addGap(110, 110, 110)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addContainerGap(110, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(64, 64, 64)

.addComponent(jButton1)

.addGap(64, 64, 64)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(64, 64, 64)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(64, 64, 64))

);

pack();

}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

new Head\_Librarian().setVisible(true);

this.setVisible(false);

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

new Librarian().setVisible(true);

this.setVisible(false);

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

new Mem\_Login\_Success().setVisible(true);

this.setVisible(false);

}

public static void main(String args[]) {

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new main\_page().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}