package libraryMgmtSystem;

import java.awt.Checkbox;

import java.awt.FlowLayout;

import java.awt.GridLayout;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.awt.event.ItemEvent;

import java.awt.event.ItemListener;

import java.io.BufferedReader;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import java.io.\*;

import javax.swing.ButtonGroup;

import javax.swing.JButton;

import javax.swing.JComboBox;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JOptionPane;

import javax.swing.JPanel;

import javax.swing.JRadioButton;

import javax.swing.JTextField;

import javax.swing.border.EmptyBorder;

public class DashBoard implements ActionListener{

JButton btnAdd;

JButton btnDisplay;

JTextField txtFName;

JTextField txtLName;

JTextField txtProgram;

JTextField txtGender;

JTextField txtBook;

JRadioButton radioMale;

JRadioButton radioFemale;

JComboBox comboProgram;

JComboBox comboSection;

public DashBoard(){

JFrame jf = new JFrame("Library Management System");

JPanel pp = new JPanel();

JPanel p1 = new JPanel();

FlowLayout fl = new FlowLayout(FlowLayout.LEFT,10,10);

GridLayout gl = new GridLayout(7,2,10,10);

pp.setLayout(gl);

p1.setLayout(fl); //top,left,bottom,right

pp.setBorder(new EmptyBorder(10, 10, 10, 15));

//creating components

JLabel lblFName = new JLabel("First Name:");

JLabel lblLName = new JLabel("Last Name");

JLabel lblProgram = new JLabel("Program:");

JLabel lblGender = new JLabel("Gender");

JLabel lblBook = new JLabel("Book Taken:");

JLabel lblSection = new JLabel("Section");

txtFName = new JTextField(10);

txtLName = new JTextField(10);

txtBook = new JTextField(10);

radioMale = new JRadioButton("Male");

radioFemale = new JRadioButton("Female");

p1.add(radioMale);

p1.add(radioFemale);

ButtonGroup rg =new ButtonGroup();

rg.add(radioMale);

rg.add(radioFemale);

//String programs[] = {"BBA","BBA-TT","BCIS","BBA-BI"};

String section[] = {"Maxthon","Mozilla","Deism","Divine","Enum","Efika","Fusion","Fourier","Grit","Garnet"};

comboProgram = new JComboBox();

comboProgram.addItem("BBA");

comboProgram.addItem("BBA-TT");

comboProgram.addItem("BCIS");

comboProgram.addItem("BBA-BI");

comboSection = new JComboBox(section);

comboSection.addItem("Jasper");

comboSection.addItem("Jasmin");

comboSection.addItem("Icon");

comboSection.addItem("Image");

comboSection.addItem("Ideal");

comboSection.addItem("helm");

Checkbox cb = new Checkbox();

cb.addItemListener(new ItemListener() {

@Override

public void itemStateChanged(ItemEvent e) {

// TODO Auto-generated method stub

}

});

comboProgram.addItemListener(new ItemListener() {

@Override

public void itemStateChanged(ItemEvent e) {

// TODO Auto-generated method stub

if(e.getStateChange()==ItemEvent.SELECTED) {

if(e.getItem()=="BCIS") {

comboSection.removeAllItems();

comboSection.addItem("Grit/Garnet");

comboSection.addItem("Fusion");

comboSection.addItem("Fourier");

comboSection.addItem("Enum/Efika");

comboSection.addItem("Devine/Deism");

comboSection.addItem("Maxthon");

}else if(e.getItem()=="BBA-BI") {

comboSection.removeAllItems();

comboSection.addItem("Trend");

comboSection.addItem("Transit");

comboSection.addItem("Forex");

comboSection.addItem("Fiscal");

}else if(e.getItem()=="BBA") {

comboSection.removeAllItems();

comboSection.addItem("Jasper");

comboSection.addItem("Jasmin");

comboSection.addItem("Icon");

comboSection.addItem("Image");

comboSection.addItem("Ideal");

comboSection.addItem("helm");

}

}

}

});

btnAdd=new JButton("Add");

btnDisplay=new JButton("Display");

lblFName.setSize(100, 30);

txtFName.setSize(160, 30);

lblLName.setSize(100, 30);

txtLName.setSize(160, 30);

lblGender.setSize(100, 30);

p1.setSize(160, 30);

lblProgram.setSize(100, 30);

comboProgram.setSize(160, 30);

lblSection.setSize(100, 30);

comboSection.setSize(160, 30);

lblBook.setSize(100, 30);

txtBook.setSize(160, 30);

btnAdd.setSize(100,30);

btnDisplay.setSize(100,30);

/\*

\* p1.add(jl); p1.add(celField); p1.add(jl3); p1.add(fahField);

\*/

/\* p2.add(b1); \*/

pp.add(lblFName);

pp.add(txtFName);

pp.add(lblLName);

pp.add(txtLName);

pp.add(lblGender);

pp.add(p1);

pp.add(lblProgram);

pp.add(comboProgram);

pp.add(lblSection);

pp.add(comboSection);

pp.add(lblBook);

pp.add(txtBook);

pp.add(btnAdd);

pp.add(btnDisplay);

btnAdd.addActionListener(this);//registering action listener

btnDisplay.addActionListener(this);//registering action listener

//jf.pack();

jf.setContentPane(pp); // finally adding jpanel(child container) to parent container

jf.setSize(400,340); //setting size of the from to be displayed

//jf.setLayout(lm);

jf.setVisible(true); //enabling the jframe to be displayed

}

@Override

public void actionPerformed(ActionEvent e) {

// TODO Auto-generated method stub

if(e.getSource()==btnAdd) {

String fName= txtFName.getText().toString();

String lName= txtLName.getText().toString();

String gender=null;

if(radioMale.isSelected()) {

gender="male";

}else {

gender="female";

}

String program= (String) comboProgram.getSelectedItem();

String section= (String) comboSection.getSelectedItem();

String book = txtBook.getText().toString();

User user = new User();

user.setFirstName(fName);

user.setSecondName(lName);

user.setGender(gender);

user.setSection(section);

user.setProgram(program);

user.setBookTaken(book);

// FileOperation.writeFile(user);

//-----------------------------write to database here ---------------------------------------------------

try {

//load driver

Class.forName("com.mysql.cj.jdbc.Driver");

String url= "mysql:jdbc://localhost:3306/library\_management\_system";

String username="root";

String password="";

//lets connect to db

try {

Connection con = DriverManager.getConnection(url,username,password);

String query="insert into book\_issue(firstName,lastName,gender,program,section,book\_taken) values(?,?,?,?,?,?)";

PreparedStatement statement = con.prepareStatement(query);

statement.setString(1,fName);

statement.setString(2,lName);

statement.setString(3,gender);

statement.setString(4,program);

statement.setString(5,section);

statement.setString(6,book);

int n =statement.executeUpdate();

if(n>0) {

JOptionPane.showMessageDialog(null,"data saved","status",JOptionPane.INFORMATION\_MESSAGE);

}else {

JOptionPane.showMessageDialog(null,"data not saved","status",JOptionPane.WARNING\_MESSAGE);

}

} catch (SQLException e1) {

// TODO Auto-generated catch block

e1.printStackTrace();

}

} catch (ClassNotFoundException e1) {

// TODO Auto-generated catch block

e1.printStackTrace();

}

// try {

//

//

// Writer writer = new FileWriter("E://teaching//StudentInfo.txt",true);

// //write username and password to a file

// writer.write(fName+"\t"+lName+"\t"+gender+"\t"+program+"\t"+section+"\t"+book+"\n");

// writer.flush();

// writer.close();

//

// //database read write

//

//

// } catch (IOException e1) {

// // TODO Auto-generated catch block

// e1.printStackTrace();

// }

}else if(e.getActionCommand()=="Display") {

String fname;

String lname,gender,program,section;

String line = null;

// try {

// BufferedReader reader = new BufferedReader(new FileReader("E://teaching//StudentInfo.txt"));

// line =reader.readLine();

// //while(line!=null) {

// String credintials[] = line.split("\t");

// fname=credintials[0];

// lname=credintials[1];

// gender=credintials[2];

// program=credintials[3];

// section=credintials[4];

// // JOptionPane.showMessageDialog(null,fname+"\t"+lname+"\t"+gender+"\t"+program+"\t"+section,"Status",JOptionPane.INFORMATION\_MESSAGE);

DisplayTable dt = new DisplayTable();

// } catch (FileNotFoundException e1) {

// // TODO Auto-generated catch block

// e1.printStackTrace();

// } catch (IOException e1) {

// // TODO Auto-generated catch block

// e1.printStackTrace();

// }

}

}

public static void main(String[] args) {

DashBoard bd = new DashBoard();

}

}