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package demojavaswing;

import java.awt.BorderLayout;

import java.awt.Color;

import java.awt.Dimension;

import java.awt.Font;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.awt.event.MouseEvent;

import java.awt.event.MouseListener;

import java.io.FileWriter;

import java.io.IOException;

import java.util.ArrayList;

import java.util.Vector;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.BorderFactory;

import javax.swing.BoxLayout;

import javax.swing.JButton;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JOptionPane;

import javax.swing.JPanel;

import javax.swing.JScrollPane;

import javax.swing.JTable;

import javax.swing.JTextField;

import javax.swing.border.Border;

import javax.swing.table.DefaultTableModel;

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\* @author Administrator

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public class QuanLySinhVien2 extends JFrame{

JTextField txtMaSV,txtHoTen;

JButton btThem,btLuu,btXoa,btThoat;

JTable tbDuLieu;

DefaultTableModel dm;

ArrayList<SinhVien>svList=new ArrayList<>();

public QuanLySinhVien2(){

super("Quản Lý Sinh Viên");

showWindowns();

showControls();

addEvents();

}

public void showWindowns(){

setSize(new Dimension(800,600));

setDefaultCloseOperation(EXIT\_ON\_CLOSE);

setLocationRelativeTo(null);

setVisible(true);

setResizable(true);

}

private void showControls() {

JPanel pnChinh =new JPanel();

pnChinh.setLayout(new BoxLayout(pnChinh,BoxLayout.Y\_AXIS));

add(pnChinh,BorderLayout.NORTH);

JPanel pnTieuDe=new JPanel();

JLabel lbTieuDe=new JLabel("Quản Lý Sinh Viên");

lbTieuDe.setForeground(Color.BLUE);

lbTieuDe.setFont(new Font("Arial",Font.BOLD,20));

pnTieuDe.add(lbTieuDe);

pnChinh.add(pnTieuDe);

JPanel pnDong1=new JPanel();

JLabel lbMaSV=new JLabel("Mã Sinh Viên");

txtMaSV=new JTextField(15);

pnDong1.add(lbMaSV);

pnDong1.add(txtMaSV);

pnChinh.add(pnDong1);

JPanel pnDong2=new JPanel();

JLabel lbTenSV=new JLabel("Tên Sinh Viên");

txtHoTen=new JTextField(15);

pnDong2.add(lbTenSV);

pnDong2.add(txtHoTen);

pnChinh.add(pnDong2);

JPanel pnDong3=new JPanel();

btLuu=new JButton("Lưu");

btThem=new JButton("Thêm");

btXoa=new JButton("Xoá");

btThoat=new JButton("Thoát");

pnDong3.add(btLuu);

pnDong3.add(btThem);

pnDong3.add(btXoa);

pnDong3.add(btThoat);

pnChinh.add(pnDong3);

dm=new DefaultTableModel();

dm.addColumn("Mã Sinh Viên");

dm.addColumn("Tên Sinh Viên");

tbDuLieu=new JTable(dm);

JScrollPane pnDuLieu = new JScrollPane(tbDuLieu, JScrollPane.VERTICAL\_SCROLLBAR\_ALWAYS, JScrollPane.HORIZONTAL\_SCROLLBAR\_ALWAYS);

pnDuLieu.setBorder(BorderFactory.createTitledBorder( BorderFactory.createLineBorder(Color.BLACK), "Thông Tin Chi Tiết"));

pnChinh.add(pnDuLieu);

pack();

}

private void addEvents() {

btThem.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

SinhVien sv=new SinhVien(txtHoTen.getText(),txtMaSV.getText(),null);

svList.add(sv);

Vector<String>row=new Vector<>();

row.add(sv.maSV);

row.add(sv.hoTen);

dm.addRow(row);

}

});

tbDuLieu.addMouseListener(new MouseListener() {

@Override

public void mouseClicked(MouseEvent e) {

int pos=tbDuLieu.getSelectedRow();

String maSV=(String) tbDuLieu.getValueAt(pos,0);

String tenSV=(String) tbDuLieu.getValueAt(pos,1);

txtMaSV.setText(maSV);

txtHoTen.setText(tenSV);

}

@Override

public void mousePressed(MouseEvent e) {

}

@Override

public void mouseReleased(MouseEvent e) {

}

@Override

public void mouseEntered(MouseEvent e) {

}

@Override

public void mouseExited(MouseEvent e) {

}

});

btXoa.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

dm.removeRow(tbDuLieu.getSelectedRow());

svList.remove(tbDuLieu.getSelectedRow());

}

});

btLuu.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

try {

writeFile();

} catch (IOException ex) {

Logger.getLogger(QuanLySinhVien2.class.getName()).log(Level.SEVERE, null, ex);

}

}

});

}

public void writeFile() throws IOException{

FileWriter fw=new FileWriter("src/demojavaswing/output.txt");

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

fw.write(svList.get(i).maSV+"-"+svList.get(i).hoTen+System.getProperty("line.separator"));

}

fw.close();

}

}

//Class SinhVien

public class SinhVien {

public String hoTen;

public String maSV;

public Khoa khoa;

public SinhVien(String hoTen, String maSV,Khoa khoa) {

this.hoTen = hoTen;

this.maSV = maSV;

this.khoa=khoa;

}

}

//Class Khoa

public class Khoa {

public String tenKoa;

public String maKhoa;

public Khoa(String tenKoa, String maKhoa) {

this.tenKoa = tenKoa;

this.maKhoa = maKhoa;

}

}