package curd;

import java.sql.\*;

import java.awt.\*;

import javax.swing.\*;

import java.awt.event.\*;

import java.awt.FlowLayout;

class Menu extends JFrame implements ActionListener

{

Connection myconn=null;

Statement mystmt=null;

ResultSet myrs=null;

DefaultListModel<String> lst = new DefaultListModel<>();

JList<String> list = new JList<>(lst);

DefaultListModel<String> lst1 = new DefaultListModel<>();

JList<String> list1 = new JList<>(lst1);

JMenu menu,submenu;

JMenuItem i1,i2,i3,i4,i5;

JButton b1,b2,b3,sel,update,delete,deleteall;

JLabel l1,l2,l3,fkl1,fkl2,fkl3,fkl4,fkl5;

JTextField tf1,tf2,tf3;

JInternalFrame inner1,inner2,inner3,inner4;

JPanel jp1,jp2,jp3,jp4;

GridLayout g1,g2;

Menu()

{

setSize(300,550);

setTitle(" Made By Adnan ");

g1=new GridLayout(2,1);

setLayout(g1);

FlowLayout f1=new FlowLayout(FlowLayout.LEFT);

jp1=new JPanel(f1);

jp2=new JPanel(f1);

jp3=new JPanel(f1);

jp4=new JPanel(f1);

jp1.setBackground(Color.white);

jp2.setBackground(Color.white);

jp3.setBackground(Color.yellow);

jp4.setBackground(Color.pink);

JMenuBar mb=new JMenuBar();

menu = new JMenu(" Operations ");

submenu =new JMenu(" sub menu") ;

i1=new JMenuItem(" Add Data ");

i2=new JMenuItem(" Update Data ");

i3=new JMenuItem(" Delete Data ");

i4=new JMenuItem(" Delete All Data ");

b1=new JButton(" Save & Add ");

b2=new JButton(" Show Data ");

update=new JButton(" Save & Update ");

delete=new JButton(" Delete ");

deleteall=new JButton(" Click here To Delete All Data ");

sel=new JButton(" Select Id.no ");

tf1=new JTextField(10);

tf2=new JTextField(10);

tf3=new JTextField(10);

l1=new JLabel(" Id no ");

l2=new JLabel(" Name ");

l3=new JLabel(" Class ");

fkl1=new JLabel(" ");

fkl2=new JLabel(" ");

fkl3=new JLabel(" ");

fkl4=new JLabel(" ");

fkl5=new JLabel(" !! Your ALL Existing Data Will Delete !! ");

i1.addActionListener(this);

i2.addActionListener(this);

i3.addActionListener(this);

i4.addActionListener(this);

g2=new GridLayout(2,1);

jp1.setLayout(null);

menu.add(i1);

menu.add(i2);

menu.add(i3);

menu.add(i4);

mb.add(menu);

mb.setBounds(3, 10, 80, 30);

jp1.add(mb);

b1.addActionListener(this);

b2.addActionListener(this);

b2.setBounds(100, 12, 110,30);

jp1.add(b2);

JScrollPane sp=new JScrollPane(list,JScrollPane.VERTICAL\_SCROLLBAR\_AS\_NEEDED,JScrollPane.HORIZONTAL\_SCROLLBAR\_AS\_NEEDED);

sp.setBounds(10, 70, 150, 130);

jp1.add(sp);

JScrollPane sp1=new JScrollPane(list1,JScrollPane.VERTICAL\_SCROLLBAR\_AS\_NEEDED,JScrollPane.HORIZONTAL\_SCROLLBAR\_AS\_NEEDED);

sp1.setBounds(180, 70, 40, 130);

jp1.add(sp1);

sel.setBounds(150, 210, 110, 30);

jp1.add(sel);

sel.addActionListener(this);

update.addActionListener(this);

delete.addActionListener(this);

deleteall.addActionListener(this);

add(jp1);

add(jp2);

setVisible(true);

setDefaultCloseOperation(3);

}

int error(String id,String s1,String s2)

{

if( id.length()==0 || s1.length()==0 || s2.length()==0)

{

JOptionPane.showMessageDialog(jp2," You Enter Blank Data "," Invalid Input ",JOptionPane.ERROR\_MESSAGE);

return 0;

}

else

{

try{

Integer.parseInt(id);

}

catch( NumberFormatException ex)

{

JOptionPane.showMessageDialog(jp2," Enter Id.no in Number Format "," Number Format ",JOptionPane.ERROR\_MESSAGE);

return 0;

}

}

return 1;

}

void empty()

{

tf1.setText("");

tf2.setText("");

tf3.setText("");

}

@Override

public void actionPerformed(ActionEvent e)

{

try {

myconn=DriverManager.getConnection("jdbc:mysql://localhost:3306/student1","root","root");

mystmt=myconn.createStatement();

myrs=mystmt.executeQuery("select \* from student");

}

catch (SQLException ex)

{

System.out.println(ex);

}

String s1,s2,s3,str;

int id,i;

if(e.getSource()==i1)

{

inner1=new JInternalFrame(" Add Data ",true,true,true,true);

GridLayout g=new GridLayout(6,1,10,10);

inner1.add(fkl1);

inner1.add(fkl2);

inner1.add(l1);

inner1.add(tf1);

inner1.add(l2);

inner1.add(tf2);

inner1.add(l3);

inner1.add(tf3);

inner1.add(b1);

inner1.setLayout(g);

jp2.add(inner1);

inner1.setVisible(true);

}

if(e.getSource()==b1)

{

i= error(tf1.getText(),tf2.getText(),tf3.getText());

if(i==1)

{

try {

id=Integer.parseInt(tf1.getText());

s1=tf2.getText();

s2=tf3.getText();

str="insert into student values("+ id+",'"+s1+"','"+s2+"')";

mystmt.execute(str);

empty();

}

catch (NumberFormatException | SQLException ex)

{

JOptionPane.showMessageDialog(jp2," You Enter Duplicate Id.no "+tf1.getText()," Duplicate Entry ",JOptionPane.ERROR\_MESSAGE);

}

}

}

if(e.getSource()==b2)

{

try

{

lst.clear();

lst1.clear();

i=0;

while (myrs.next())

{

str=(myrs.getString("idstudent"));

lst1.addElement(str);

str=(myrs.getString("idstudent")+" "+myrs.getString("name")+ " "+myrs.getString("class"));

lst.addElement(str);

i++;

}

myrs.close();

}

catch(SQLException ex)

{

System.out.println(ex);

}

}

if(e.getSource()==i2)

{

inner2=new JInternalFrame(" Update Data ",true,true,true,true);

GridLayout g=new GridLayout(6,1,10,10);

inner2.add(fkl1);

inner2.add(fkl2);

inner2.add(l1);

inner2.add(tf1);

inner2.add(l2);

inner2.add(tf2);

inner2.add(l3);

inner2.add(tf3);

inner2.add(update);

inner2.setLayout(g);

jp2.add(inner2);

inner2.setVisible(true);

}

if(update==e.getSource())

{

int rtn=0,d1,d2;

i= error(tf1.getText(),tf2.getText(),tf3.getText());

if(i==1)

{

for(int n=1;n<lst1.getSize()+1;n++)

{

d1=Integer.parseInt(tf1.getText());

d2=Integer.parseInt(lst1.get(n-1));

if(d2==d1)

{

rtn=1;

break ;

}

}

if(rtn==0)

{

JOptionPane.showMessageDialog(jp2," Id.no "+tf1.getText()+" Not Found "," Enter Valid Id.no ",JOptionPane.WARNING\_MESSAGE);

}

else

{

i= error(tf1.getText(),tf2.getText(),tf3.getText());

if(i==1)

{

try {

id=Integer.parseInt(tf1.getText());

s2=tf2.getText();

s3=tf3.getText();

str="update student1.student set name= '"+s2+"' where idstudent= "+id;

mystmt.execute(str);

str="update student1.student set class= '"+s3+"' where idstudent= "+id;

mystmt.execute(str);

empty();

}

catch (SQLException ex)

{

System.out.println(ex);

}

}

}

}

}

if(e.getSource()==i3)

{

inner3=new JInternalFrame(" Delete Data ",true,true,true,true);

GridLayout g=new GridLayout(6,1,10,10);

inner3.add(fkl1);

inner3.add(fkl2);

inner3.add(l1);

inner3.add(tf1);

inner3.add(l2);

inner3.add(tf2);

inner3.add(l3);

inner3.add(tf3);

inner3.add(delete);

inner3.setLayout(g);

jp2.add(inner3);

inner3.setVisible(true);

}

if(delete==e.getSource())

{

int rtn=0,d1,d2;

i= error(tf1.getText(),tf2.getText(),tf3.getText());

if(i==1)

{

for(int n=1;n<lst1.getSize()+1;n++)

{

d1=Integer.parseInt(tf1.getText());

d2=Integer.parseInt(lst1.get(n-1));

if(d2==d1)

{

rtn=1;

break ;

}

}

if(rtn==0)

{

JOptionPane.showMessageDialog(jp2," Id.no "+tf1.getText()+" Not Found "," Enter Valid Id.no ",JOptionPane.WARNING\_MESSAGE);

}

else{

i= error(tf1.getText(),tf2.getText(),tf3.getText());

if(i==1)

{

try {

id=Integer.parseInt(tf1.getText());

mystmt.execute("delete from student1.student where idstudent="+id);

empty();

}

catch (SQLException ex)

{

System.out.println(ex);

}

}

}

}

}

if(e.getSource()==i4)

{

inner4=new JInternalFrame(" Delete All Data ",true,true,true,true);

GridLayout g=new GridLayout(3,1,10,10);

inner4.add(fkl5);

inner4.add(deleteall);

inner4.add(fkl2);

inner4.setLayout(g);

jp2.add(inner4);

inner4.setVisible(true);

}

if(deleteall==e.getSource())

{

String name=JOptionPane.showInputDialog(jp2,"Enter Password "," Security ",JOptionPane.WARNING\_MESSAGE);

String srt="admin";

if(srt.equals(name))

{

try

{

mystmt.execute("delete from student");

}

catch (SQLException ex)

{

System.out.println(ex);

}

JOptionPane.showMessageDialog(jp2," All Data Deleted Successfully "," Complete ",JOptionPane.INFORMATION\_MESSAGE);

}

else

{

JOptionPane.showMessageDialog(jp2," Incorrect Password "," Wrong ",JOptionPane.ERROR\_MESSAGE);

}

}

if(sel==e.getSource())

{

String lv;

lv=(list1.getSelectedValue());

if(lv==null)

{

JOptionPane.showMessageDialog(jp2," You have not selected Id.no"," Error ",JOptionPane.QUESTION\_MESSAGE);

}

else

{

try {

i=Integer.parseInt(list1.getSelectedValue());

myrs=mystmt.executeQuery("select \* from student where idstudent = "+i);

if(myrs.next())

{

tf1.setText(myrs.getString("idstudent"));

tf2.setText(myrs.getString("name"));

tf3.setText(myrs.getString("class"));

}

}

catch (SQLException ex)

{

System.out.println(ex);

}

}

}

}

}

public class CURD {

public static void main(String[] args) {

new Menu();

}

}