import javax.swing.\*;

import java.awt.\*;

import java.awt.event.\*;

import java.lang.Exception;

import java.util.Timer;

import java.util.TimerTask;

class login extends JFrame implements ActionListener

{

JButton b1;

JPanel newPanel;

JLabel userLabel, passLabel;

final JTextField textField1, textField2;

login()

{

userLabel = new JLabel();

userLabel.setText(" Username :");

textField1 = new JTextField(15);

passLabel = new JLabel();

passLabel.setText(" Password :");

textField2 = new JPasswordField(8);

b1 = new JButton(" SUBMIT ");

newPanel = new JPanel(new GridLayout(3, 1));

newPanel.add(userLabel);

newPanel.add(textField1);

newPanel.add(passLabel);

newPanel.add(textField2);

newPanel.add(b1);

add(newPanel, BorderLayout.CENTER);

b1.addActionListener(this);

setTitle("Login Form ");

}

public void actionPerformed(ActionEvent ae)

{

String userValue = textField1.getText();

String passValue = textField2.getText();

if(!passValue.equals(""))

new OnlineTestBegin(userValue);

else{

textField2.setText("Enter Password");

actionPerformed(ae);

}

}

}

class OnlineTestBegin extends JFrame implements ActionListener

{

JLabel l;

JLabel l1;

JRadioButton jb[]=new JRadioButton[6];

JButton b1,b2,log;

ButtonGroup bg;

int count=0,current=0,x=1,y=1,now=0;

int m[]=new int[10];

Timer timer = new Timer();

OnlineTestBegin(String s)

{

super(s);

l=new JLabel();

l1 = new JLabel();

add(l);

add(l1);

bg=new ButtonGroup();

for(int i=0;i<5;i++)

{

jb[i]=new JRadioButton();

add(jb[i]);

bg.add(jb[i]);

}

b1=new JButton("Save and Next");

b2=new JButton("Save for later");

b1.addActionListener(this);

b2.addActionListener(this);

add(b1);add(b2);

set();

l.setBounds(30,40,450,20);

l1.setBounds(20,20,450,20);

jb[0].setBounds(50,80,100,20);

jb[1].setBounds(50,110,100,20);

jb[2].setBounds(50,140,100,20);

jb[3].setBounds(50,170,100,20);

b1.setBounds(95,240,140,30);

b2.setBounds(270,240,150,30);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

setLayout(null);

setLocation(250,100);

setVisible(true);

setSize(600,350);

timer.scheduleAtFixedRate(new TimerTask() {

int i = 600;

public void run() {

l1.setText("Time left: " + i);

i--;

if (i < 0) {

timer.cancel();

l1.setText("Time Out");

}

}

}, 0, 1000);

}

public void actionPerformed(ActionEvent e)

{

if(e.getSource()==b1)

{

if(check())

count=count+1;

current++;

set();

if(current==9)

{

b1.setEnabled(false);

b2.setText("Result");

}

}

if(e.getActionCommand().equals("Save for later"))

{

JButton bk=new JButton("Review"+x);

bk.setBounds(480,20+30\*x,100,30);

add(bk);

bk.addActionListener(this);

m[x]=current;

x++;

current++;

set();

if(current==9)

b2.setText("Result");

setVisible(false);

setVisible(true);

}

for(int i=0,y=1;i<x;i++,y++)

{

if(e.getActionCommand().equals("Review"+y))

{

if(check())

count=count+1;

now=current;

current=m[y];

set();

((JButton)e.getSource()).setEnabled(false);

current=now;

}

}

if(e.getActionCommand().equals("Result"))

{

if(check())

count=count+1;

current++;

JOptionPane.showMessageDialog(this,"Score ="+count);

System.exit(0);

}

}

void set()

{

jb[4].setSelected(true);

if(current==0)

{

l.setText("Que1: Who is known as father of java programming language?");

jb[0].setText("charles Babbage");jb[1].setText("James Gosling");jb[2].setText("M.P.Java");jb[3].setText("Blais Pascal");

}

if(current==1)

{

l.setText("Que2: Number of primitive data types in java are?");

jb[0].setText("6");jb[1].setText("7");jb[2].setText("8");jb[3].setText("9");

}

if(current==2)

{

l.setText("Que3: Where is system class defined?");

jb[0].setText("java.lang.package");jb[1].setText("java.util.package ");jb[2].setText("java.lo.package");jb[3].setText("None");

}

if(current==3)

{

l.setText("Que4: Expected created by try block is caaught in which block.?");

jb[0].setText("catch");jb[1].setText("throw");jb[2].setText("final");jb[3].setText("thrown");

}

if(current==4)

{

l.setText("Que5: Which of the following is not an OOPS concept in java?");

jb[0].setText("Polymorphism");jb[1].setText("Inheritance");jb[2].setText("Compilation");jb[3].setText("Encapsulation");

}

if(current==5)

{

l.setText("Que6: Identify the infinite loop?");

jb[0].setText("for(;;)");jb[1].setText("for()i=0;j<1;i--");jb[2].setText("for(int=0;i++)");jb[3].setText("if(All of the above)");

}

if(current==6)

{

l.setText("Que7: When is the finalize()method called ");

jb[0].setText("Before garbage collection");jb[1].setText("Before an object goes out of scope");jb[2].setText("Before a variable goes out of scope");

jb[3].setText("None");

}

if(current==7)

{

l.setText("Que8: What is the implict return type of constructor?");

jb[0].setText("No return type");jb[1].setText("A class object in which it is defined");jb[2].setText("void");

jb[3].setText("None");

}

if(current==8)

{

l.setText("Que9: The class at the top of exception class is....?");

jb[0].setText("ArithmeticException");jb[1].setText("Throwable");jb[2].setText("Object");jb[3].setText("Console");

}

if(current==9)

{

l.setText("Que10: Which provides runtime enviroment for java byte code to be executed?");

jb[0].setText("JDK");jb[1].setText("JVM");jb[2].setText("JRE");

jb[3].setText("JAVAC");

}

l.setBounds(30,40,450,20);

for(int i=0,j=0;i<=90;i+=30,j++)

jb[j].setBounds(50,80+i,200,20);

}

boolean check()

{

if(current==0)

return(jb[1].isSelected());

if(current==1)

return(jb[1].isSelected());

if(current==2)

return(jb[2].isSelected());

if(current==3)

return(jb[0].isSelected());

if(current==4)

return(jb[2].isSelected());

if(current==5)

return(jb[3].isSelected());

if(current==6)

return(jb[1].isSelected());

if(current==7)

return(jb[3].isSelected());

if(current==8)

return(jb[2].isSelected());

if(current==9)

return(jb[2].isSelected());

return false;

}

}

class OnlineExam

{

public static void main(String args[])

{

try

{

login form = new login();

form.setSize(400,150);

form.setVisible(true);

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null, e.getMessage());

}

}

}