**GITHUB URL**

**<https://github.com/jeankiptoorotich/assignment-event-driven.git>**

**QUESTION ONE CODE**

/\*

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\* and open the template in the editor.

\*/

package assignment;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.TimerTask;

import java.util.Timer;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.\*;

import javax.swing.table.DefaultTableModel;

public class frame1 extends javax.swing.JFrame {

public frame1() {

initComponents();

displayData();

}

/\*\*

\* 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() {

buttonGroup1 = new javax.swing.ButtonGroup();

jScrollPane1 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

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();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jRadioButton1 = new javax.swing.JRadioButton();

jRadioButton2 = new javax.swing.JRadioButton();

jLabel6 = new javax.swing.JLabel();

jTextField1 = new javax.swing.JTextField();

jTextField2 = new javax.swing.JTextField();

jTextField3 = new javax.swing.JTextField();

jTextField4 = new javax.swing.JTextField();

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

jTable1.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null},

{null, null, null, null, null}

},

new String [] {

"ID", "Name", "Gender", "Address", "Contact"

}

));

jScrollPane1.setViewportView(jTable1);

jLabel1.setFont(new java.awt.Font("sansserif", 1, 14)); // NOI18N

jLabel1.setText("ID");

jLabel2.setFont(new java.awt.Font("sansserif", 1, 14)); // NOI18N

jLabel2.setText("Name");

jLabel3.setFont(new java.awt.Font("sansserif", 1, 14)); // NOI18N

jLabel3.setText("Gender");

jLabel4.setFont(new java.awt.Font("sansserif", 1, 14)); // NOI18N

jLabel4.setText("Address");

jLabel5.setFont(new java.awt.Font("sansserif", 1, 14)); // NOI18N

jLabel5.setText("Contact");

jButton1.setText("Exit");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Register");

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

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

jButton2ActionPerformed(evt);

}

});

buttonGroup1.add(jRadioButton1);

jRadioButton1.setText("Male");

jRadioButton1.addActionListener(new java.awt.event.ActionListener() {

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

jRadioButton1ActionPerformed(evt);

}

});

buttonGroup1.add(jRadioButton2);

jRadioButton2.setText("Female");

jLabel6.setFont(new java.awt.Font("sansserif", 0, 24)); // NOI18N

jLabel6.setText("Registration form");

jTextField1.addActionListener(new java.awt.event.ActionListener() {

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

jTextField1ActionPerformed(evt);

}

});

jTextField2.addActionListener(new java.awt.event.ActionListener() {

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

jTextField2ActionPerformed(evt);

}

});

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

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

.addGap(62, 62, 62)

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

.addComponent(jLabel6)

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel3)

.addGap(42, 42, 42)

.addComponent(jRadioButton1))

.addGroup(layout.createSequentialGroup()

.addGap(44, 44, 44)

.addComponent(jButton1)))

.addGap(13, 13, 13)

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

.addComponent(jRadioButton2)

.addComponent(jButton2)))

.addGroup(layout.createSequentialGroup()

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

.addComponent(jLabel1)

.addComponent(jLabel2))

.addGap(56, 56, 56)

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

.addComponent(jTextField1, javax.swing.GroupLayout.DEFAULT\_SIZE, 160, Short.MAX\_VALUE)

.addComponent(jTextField2)))

.addGroup(layout.createSequentialGroup()

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

.addComponent(jLabel4)

.addComponent(jLabel5))

.addGap(37, 37, 37)

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

.addComponent(jTextField3)

.addComponent(jTextField4))))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 52, Short.MAX\_VALUE)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(36, 36, 36))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(27, 27, 27)

.addComponent(jLabel6)

.addGap(30, 30, 30)

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

.addComponent(jLabel1)

.addComponent(jTextField1, 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)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(46, 46, 46)

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

.addComponent(jLabel3)

.addComponent(jRadioButton1)

.addComponent(jRadioButton2))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 37, Short.MAX\_VALUE)

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

.addComponent(jLabel4, javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jTextField3, javax.swing.GroupLayout.Alignment.TRAILING, 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.TRAILING)

.addComponent(jLabel5)

.addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 43, Short.MAX\_VALUE)

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

.addComponent(jButton1)

.addComponent(jButton2))

.addGap(132, 132, 132))

.addGroup(layout.createSequentialGroup()

.addGap(37, 37, 37)

.addComponent(jScrollPane1, 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 jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

try {

// TODO add your handling code here:

String id = jTextField1.getText();

String name = jTextField2.getText();

String gender = getGender();

String address = jTextField3.getText();

String contact = jTextField4.getText();

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

Connection con = DriverManager.getConnection("jdbc:mysql://localhost/database", "root", "");

PreparedStatement ps = con.prepareStatement("insert into tableA(id,name,gender,address,contact)value(?,?,?,?,?)");

ps.setString(1, id);

ps.setString(2, name);

ps.setString(3, gender);

ps.setString(4, address);

ps.setString(5, contact);

ps.executeUpdate();

JOptionPane.showMessageDialog(this, "Registration successful!!");

clearFields();

System.out.println("Successfully connected to the database and updated the data!!");

} catch (Exception ex) {

Logger.getLogger(frame1.class.getName()).log(Level.SEVERE, null, ex);

}

}

private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

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

// TODO add your handling code here:

System.exit(0);

}

/\*\*

\* @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(EDP2.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(EDP2.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(EDP2.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(EDP2.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 frame1().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.ButtonGroup buttonGroup1;

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.JRadioButton jRadioButton1;

private javax.swing.JRadioButton jRadioButton2;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTable jTable1;

private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

private javax.swing.JTextField jTextField3;

private javax.swing.JTextField jTextField4;

// End of variables declaration

private String getGender() {

String gender = "";

if (jRadioButton1.isSelected()) {

gender = jRadioButton1.getText();

} else if (jRadioButton2.isSelected()) {

gender = jRadioButton2.getText();

} else {

String g = "Please select your gender";

JOptionPane.showMessageDialog(rootPane, g, "Warning!!", JOptionPane.PLAIN\_MESSAGE);

}

return gender;

}

private void displayData() {

Timer tim = new Timer();

tim.scheduleAtFixedRate(new TimerTask() {

@Override

public void run() {

try {

Connection con = DriverManager.getConnection("jdbc:mysql://localhost/database", "root", "");

String query = "SELECT \* FROM tableA";

PreparedStatement pst = con.prepareStatement(query);

ResultSet res = pst.executeQuery();

//mdl = model

DefaultTableModel mdl = (DefaultTableModel) jTable1.getModel();

mdl.setRowCount(0);

while (res.next()) {

int gID = res.getInt("id");

String gname = res.getString("name");

String gGender = res.getString("gender");

String gaddress = res.getString("address");

String gcontact = res.getString("contact");

mdl.addRow(new Object[]{gID, gname, gGender, gaddress, gcontact});

}

res.close();

pst.close();

con.close();

} catch (SQLException ex) {

Logger.getLogger(frame1.class.getName()).log(Level.SEVERE, null, ex);

ex.printStackTrace();

}

}

},0, 5000);

}

private void clearFields() {

jTextField1.setText("");

jTextField2.setText("");

jTextField3.setText("");

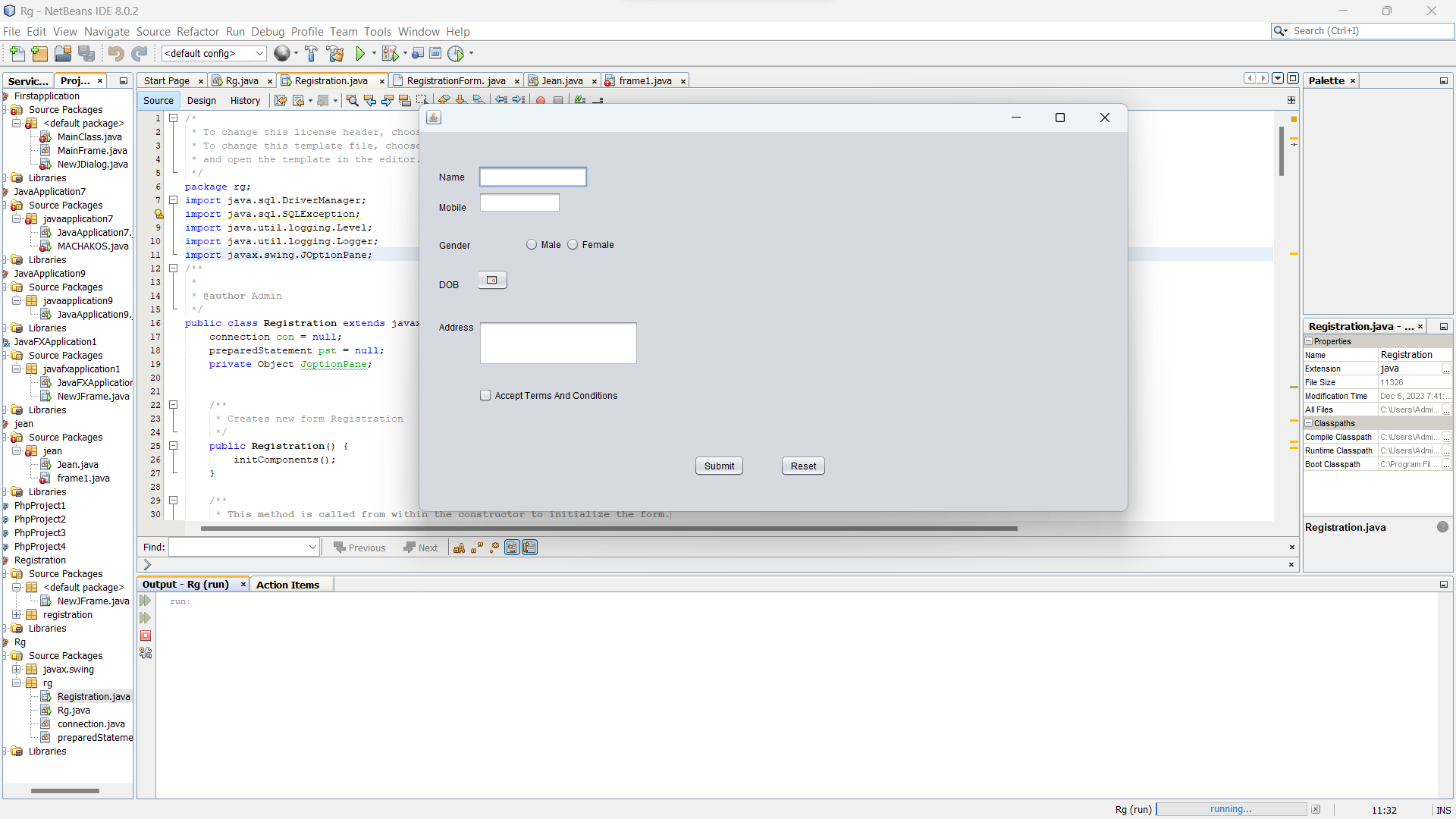
jTextField4.setText("");

buttonGroup1.clearSelection();

}

}

**QUESTION ONE PICTURE**



**QUESTION TWO CODE**

/\*

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\* and open the template in the editor.

\*/

package AssignmentB;

import java.awt.event.ItemEvent;

import java.awt.event.ItemListener;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.util.Vector;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JOptionPane;

public class fframe2 extends javax.swing.JFrame {

public fframe2() {

initComponents();

jButton2.setEnabled(false);

getData();

jCheckBox1.addItemListener(new ItemListener(){

@Override

public void itemStateChanged(ItemEvent e) {

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

jButton2.setEnabled(true);

}else{

jButton2.setEnabled(false);

}

}

});

}

**QUESTION TWO SCREENSHOT**

