

COSC 457-001

Group Project #2 (Software)

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1. Java Source Code

1.1. How to run the app

This app is to prompt users to keep track of database tables, edit/manage the information as well as take control of the system.

To run the app:

1. Required Libraries: JDBC.jar connector (for my SQL connect) and rs2xml.jar (for table demo)
2. Connect the VPN to Towson_VPN_CLIENT
3. Connect to MySQL through Triton.towson.edu
4. Open the Login.Java and run it

1.2 Source code (Java)

1. Login.Java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package cosc457_project;

/**
 *
 * @author tandduong
 */
import java.awt.HeadlessException;
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JOptionPane;

public class Login extends javax.swing.JFrame {

    /**
     * Creates new form Login
     */
    public Login() {
        initComponents();
    }

    /**
     * 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() {

    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jPasswordField1 = new javax.swing.JPasswordField();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setText("username");

    jLabel2.setText("password");

    jPasswordField1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jPasswordField1ActionPerformed(evt);
        }
    });

    jButton1.setText("login");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });

    jButton2.setText("clear");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(63, 63, 63)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                    .addComponent(jLabel1)
                    .addComponent(jLabel2)
                    .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 150, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE, 150, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton1)
                    .addComponent(jButton2))
                .addContainerGap(150, Short.MAX_VALUE))
    );
}

```

```

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 80,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE,
80, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGroup(layout.createSequentialGroup())
            .addComponent(jButton1)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jButton2)))
        .addContainerGap(154, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup())
                .addGap(63, 63, 63)
                .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(34, 34, 34)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel2)
                    .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(40, 40, 40)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jButton1)
                    .addComponent(jButton2))
                .addContainerGap(82, Short.MAX_VALUE))
    );

    pack();
} // </editor-fold>

```

```

private void jPasswordField1ActionPerformed(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:
}

```

```

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

    Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong
g2db", "tduong2", "Cosc*nm7");
    String sql = ("select * from tduong2db.LOGIN where username = ? and password = ?");
    PreparedStatement st = con.prepareStatement(sql);

    st.setString(1, jTextField1.getText());
    st.setString(2, new String(jPasswordField1.getPassword()));
}

```

```

        ResultSet rs = st.executeQuery("select username, password from tduong2db.LOGIN");

        if (rs.next()){
            JOptionPane.showMessageDialog(null, "Welcome " + jTextField1.getText(), "Login
Sucessfully", JOptionPane.PLAIN_MESSAGE);
            new Users().setVisible(true);
            dispose();
        }else{
            JOptionPane.showMessageDialog(null, "Invalid name/pass", "Login unsucessfully",
JOptionPane.ERROR_MESSAGE);
        }
    }

    catch(HeadlessException | ClassNotFoundException | SQLException e){
        System.err.print(e);
    }
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    jTextField1.setText("");
    jPasswordField1.setText("");
}

/**
 * @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(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

```

```

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(() -> {
        new Login().setVisible(true);
    });
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JPasswordField jPasswordField1;
private javax.swing.JTextField jTextField1;
// End of variables declaration
}

```

2. Staff.Java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package cosc457_project;

/**
 *
 * @author tandduong
 */
import java.sql.*;
import javax.swing.JOptionPane;

public class Staff extends javax.swing.JFrame {

    /**
     * Creates new form Staff
     */
    public Staff() {
        initComponents();
    }

    /**
     * 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();
    buttonGroup2 = new javax.swing.ButtonGroup();
    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();
    jLabel6 = new javax.swing.JLabel();
    facilities = new javax.swing.JRadioButton();
    fitness = new javax.swing.JRadioButton();
    aquatics = new javax.swing.JRadioButton();
    marketing = new javax.swing.JRadioButton();
    membership = new javax.swing.JRadioButton();
    outdoors = new javax.swing.JRadioButton();
    wage = new javax.swing.JTextField();
    id = new javax.swing.JTextField();
    cprY = new javax.swing.JRadioButton();
    cprN = new javax.swing.JRadioButton();
    jLabel7 = new javax.swing.JLabel();
    startDate = new javax.swing.JTextField();
    gradDate = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jLabel8 = new javax.swing.JLabel();
    hours = new javax.swing.JComboBox<>();
    display = new javax.swing.JButton();
    eqm = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jButton4 = new javax.swing.JButton();
    jButton5 = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTextArea1 = new javax.swing.JTextArea();
    jButton6 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setAlwaysOnTop(true);

    jLabel1.setFont(new java.awt.Font("Lucida Grande", 1, 18)); // NOI18N
    jLabel1.setText("Staff Information");

    jLabel2.setText("ID");

    jLabel3.setText("Dept.");

    jLabel4.setText("Wage");

    jLabel5.setText("Start Date");

    jLabel6.setText("CPR Certificate");

    buttonGroup1.add(facilities);

```



```

facilities.setText("1");
facilities.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        facilitiesActionPerformed(evt);
    }
});

buttonGroup1.add(fitness);
fitness.setText("2");
fitness.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        fitnessActionPerformed(evt);
    }
});

buttonGroup1.add(aquatics);
aquatics.setText("3");

buttonGroup1.add(marketing);
marketing.setText("4");
marketing.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        marketingActionPerformed(evt);
    }
});

buttonGroup1.add(membership);
membership.setText("5");
membership.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        membershipActionPerformed(evt);
    }
});

buttonGroup1.add(outdoors);
outdoors.setText("6");
outdoors.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        outdoorsActionPerformed(evt);
    }
});

wage.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        wageActionPerformed(evt);
    }
});

id.setName(""); // NOI18N

buttonGroup2.add(cprY);
cprY.setText("Yes");
cprY.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {

```

```

        cprYActionPerformed(evt);
    }
});

buttonGroup2.add(cprN);
cprN.setText("No");

jLabel7.setText("Grad. Date");

startDate.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        startDateActionPerformed(evt);
    }
});

jButton1.setText("Save");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jButton2.setText("Clear");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

jLabel8.setText("Work Hours");

hours.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "4", "5", "6", "7",
"8" }));
hours.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        hoursActionPerformed(evt);
    }
});

display.setText("Next");
display.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        displayActionPerformed(evt);
    }
});

eqm.setText("Equipment");
eqm.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        eqmActionPerformed(evt);
    }
});

jButton3.setText("Users");

```

```

jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

jButton4.setText("logout");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});

jButton5.setText("Learn more about Dept.");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});

jTextArea1.setColumns(20);
jTextArea1.setRows(5);
jTextArea1.setText("Departments:\n1 - Facilities\n2 - Fitness\n3 - Aquatics\n4 - Marketing\n5 -
Membership\n6 - Outdoors ");
jScrollPane1.setViewportView(jTextArea1);

jButton6.setText("View Tables");
jButton6.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton6ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(70, 70, 70)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(display, javax.swing.GroupLayout.PREFERRED_SIZE, 108,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(eqm, javax.swing.GroupLayout.PREFERRED_SIZE, 111,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            )
        )
);

```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jButton4))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(outdoors, javax.swing.GroupLayout.PREFERRED_SIZE, 91,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(56, 56, 56)))
    .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(240, 240, 240)
        .addComponent(jLabel1))
    .addGroup(layout.createSequentialGroup()

.addGroup(layout.createSequentialGroup()
    .addComponent(jLabel5)
    .addComponent(jLabel7))
    .addGap(18, 18, 18)

.addGroup(layout.createSequentialGroup()
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(gradDate, javax.swing.GroupLayout.DEFAULT_SIZE, 104,
Short.MAX_VALUE)
        .addComponent(startDate)))
    .addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(id, javax.swing.GroupLayout.PREFERRED_SIZE, 176,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(129, 129, 129))
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(layout.createSequentialGroup()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel8)
                    .addGap(18, 18, 18)
                    .addComponent(hours,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel4)

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(wage,
javax.swing.GroupLayout.PREFERRED_SIZE, 183,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup())
            .addComponent(jLabel3)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(facilities,
javax.swing.GroupLayout.PREFERRED_SIZE, 91, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(fitness, javax.swing.GroupLayout.PREFERRED_SIZE,
91, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(aquatics,
javax.swing.GroupLayout.PREFERRED_SIZE, 91,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGroup(layout.createSequentialGroup())
            .addComponent(jLabel6)
            .addGap(22, 22, 22)
            .addComponent(cprY)
            .addGap(67, 67, 67)
            .addComponent(cprN)
            .addGap(124, 124, 124)))

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addGroup(layout.createSequentialGroup())
            .addComponent(marketing)
            .addGap(60, 60, 60)
            .addComponent(membership))
            .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 259,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jButton5))
            .addGroup(layout.createSequentialGroup())
            .addGap(81, 81, 81)
            .addComponent(jButton6))))
        .addContainerGap(24, Short.MAX_VALUE))))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
        .addContainerGap()
        .addComponent(jLabel1)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup())

```

```

        .addGap(28, 28, 28)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2)
            .addComponent(id, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(21, 21, 21)

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

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3)
            .addComponent(facilities, javax.swing.GroupLayout.PREFERRED_SIZE, 16,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(fitness, javax.swing.GroupLayout.PREFERRED_SIZE, 16,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(aquatics, javax.swing.GroupLayout.PREFERRED_SIZE,
16, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(marketing, javax.swing.GroupLayout.PREFERRED_SIZE,
16, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(membership,
javax.swing.GroupLayout.PREFERRED_SIZE, 16, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(outdoors, javax.swing.GroupLayout.PREFERRED_SIZE,
16, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(30, 30, 30)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel4)
            .addComponent(wage, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(28, 28, 28)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel5)
            .addComponent(startDate, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel7)
            .addComponent(gradDate, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
124, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup())
            .addGap(27, 27, 27)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel8)
            .addComponent(hours, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

```

```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(cprY)
        .addComponent(cprN)
        .addComponent(jLabel6))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
34, Short.MAX_VALUE))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jButton5)
        .addGap(52, 52, 52)))

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(display, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(eqm, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton4))
        .addGap(13, 13, 13))
        .addGroup(layout.createSequentialGroup())
        .addGap(3, 3, 3)
        .addComponent(jButton6)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))))
    );

    pack();
} // </editor-fold>

private void facilitiesActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void fitnessActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void marketingActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void membershipActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

private void outdoorsActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void wageActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void cprYActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void startDateActionPerformed(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:
    try{
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduon
g2db", "tduong2", "Cosc*mm7");

        String sql = "insert into tduong2db.STAFF values(?, ?, ?, ?, ?, ?, ?)";

        PreparedStatement st = con.prepareStatement(sql);
        st.setString(1, id.getText());

        String dept = null;
        if(facilities.isSelected()){
            dept = facilities.getText();
        }

        else if(fitness.isSelected()){
            dept = fitness.getText();
        }

        else if(aquatics.isSelected()){
            dept = aquatics.getText();
        }

        else if(marketing.isSelected()){
            dept = marketing.getText();
        }

        else if(membership.isSelected()){
            dept = membership.getText();
        }

        else if(outdoors.isSelected()){
            dept = outdoors.getText();
        }
        st.setString(2, dept);

```



```

        st.setInt(3, Integer.parseInt(wage.getText()));
        st.setDate(4, Date.valueOf(startDate.getText()));
        st.setDate(5, Date.valueOf(gradDate.getText()));

        String workHours;
        workHours = hours.getSelectedItem().toString();
        st.setString(6, workHours);

        String cpr = null;
        if(cprY.isSelected()){
            cpr = cprY.getText();
        }

        else if(cprN.isSelected()){
            cpr = cprN.getText();
        }

        st.setString(7, cpr);

        st.executeUpdate();

        JOptionPane.showMessageDialog(null, "insertion sucessful");
        con.close();

    }catch(Exception e){
        JOptionPane.showMessageDialog(null, e);
    }
}

private void hoursActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    id.setText("");
    buttonGroup1.clearSelection();
    wage.setText("");
    startDate.setText("");
    gradDate.setText("");
    hours.setSelectedIndex(0);
    buttonGroup2.clearSelection();
}

private void displayActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new DataDisplay().setVisible(true);
    dispose();
}

private void eqmActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

        new Equipment().setVisible(true);
        dispose();
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        new Users().setVisible(true);
        dispose();
    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        new Login().setVisible(true);
        dispose();
    }

    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        new Departments().setVisible(true);
        dispose();
    }

    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        new tableDemoStaff().setVisible(true);
        dispose();
    }

    /**
     * @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(Staff.class.getName()).log(java.util.logging.Level.SEVERE, null,
                ex);
        } catch (InstantiationException ex) {

            java.util.logging.Logger.getLogger(Staff.class.getName()).log(java.util.logging.Level.SEVERE, null,
                ex);
        } catch (IllegalAccessException ex) {

```

```

java.util.logging.Logger.getLogger(Staff.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

```

```

java.util.logging.Logger.getLogger(Staff.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 Staff().setVisible(true);
        }
    });
}

```

```

// Variables declaration - do not modify
private javax.swing.JRadioButton aquatics;
private javax.swing.ButtonGroup buttonGroup1;
private javax.swing.ButtonGroup buttonGroup2;
private javax.swing.JRadioButton cprN;
private javax.swing.JRadioButton cprY;
private javax.swing.JButton display;
private javax.swing.JButton eqm;
private javax.swing.JRadioButton facilities;
private javax.swing.JRadioButton fitness;
private javax.swing.JTextField gradDate;
private javax.swing.JComboBox<String> hours;
private javax.swing.JTextField id;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JButton jButton6;
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.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTextArea jTextArea1;
private javax.swing.JRadioButton marketing;
private javax.swing.JRadioButton membership;
private javax.swing.JRadioButton outdoors;
private javax.swing.JTextField startDate;
private javax.swing.JTextField wage;
// End of variables declaration
}

```

3. DataDisplay.Java

```
private void searchActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        Class.forName("com.mysql.cj.jdbc.Driver");  
        Connection con =  
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong  
g2db", "tduong2", "Cosc*mm7");  
  
        String sql = "select * from tduong2db.STAFF where STAFFID = ?";  
        PreparedStatement st = con.prepareStatement(sql);  
        st.setString(1, id.getText());  
  
        ResultSet rs = st.executeQuery();  
        if(rs.next()){  
            department.setText(rs.getString("DNUMS"));  
            wage.setText(rs.getString("WAGE"));  
            startDate.setText(rs.getString("DATESTARTED"));  
            gradDate.setText(rs.getString("GRADDATE"));  
            wh.setText(rs.getString("Worhours"));  
            cpr.setText(rs.getString("CPR"));  
        }else{  
            JOptionPane.showMessageDialog(null, "Record not found");  
        }  
        con.close();  
    }  
    catch(Exception e){  
        System.err.print(e);  
    }  
}  
  
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    id.setText("");  
    department.setText("");  
    wage.setText("");  
    startDate.setText("");  
    gradDate.setText("");  
    wh.setText("");  
    cpr.setText("");  
}  
  
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    new Staff().setVisible(true);  
    dispose();  
}  
  
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
```

```

// TODO add your handling code here:
try{
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong2db", "tduong2", "Cosc*nm7");

    String sql = "update tduong2db.STAFF set DNUMS = ?, WAGE =?, DATESTARTED =?,
GRADDATE=?, Worhours = ?, CPR =? where STAFFID =?";

    PreparedStatement st = con.prepareStatement(sql);
    st.setString(1, department.getText());
    st.setInt(2, Integer.parseInt(wage.getText()));
    st.setString(3, startDate.getText());
    st.setString(4, gradDate.getText());
    st.setString(5, wh.getText());
    st.setString(6, cpr.getText());
    st.setString(7, id.getText());

    st.executeUpdate();
    JOptionPane.showMessageDialog(null, "Updated");
    con.close();
}
catch(Exception e){
    System.err.print(e);
}
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
try{
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong2db", "tduong2", "Cosc*nm7");

    String sql = "delete from tduong2db.STAFF where STAFFID = ?";
    PreparedStatement st = con.prepareStatement(sql);
    st.setString(1, id.getText());
    st.executeUpdate();
    JOptionPane.showMessageDialog(null, "deleted");

    id.setText("");
    department.setText("");
    wage.setText("");
    startDate.setText("");
    gradDate.setText("");
    wh.setText("");
    cpr.setText("");

    con.close();
}catch(Exception e){
    System.err.print(e);
}
}

```

```

    }

    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        new Login().setVisible(true);
        dispose();
    }

    /**
     * @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(DataDisplay.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

            java.util.logging.Logger.getLogger(DataDisplay.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

            java.util.logging.Logger.getLogger(DataDisplay.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

            java.util.logging.Logger.getLogger(DataDisplay.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 DataDisplay().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JTextField cpr;

```

```

private javax.swing.JTextField department;
private javax.swing.JTextField gradDate;
private javax.swing.JTextField id;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JFormattedTextField jFormattedTextField1;
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.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JButton search;
private javax.swing.JTextField startDate;
private javax.swing.JTextField wage;
private javax.swing.JTextField wh;
// End of variables declaration
}

```

4. Users.Java

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong2db", "tduong2", "Cosc*nm7");

        String sql = "insert into tduong2db.USERS values (?, ?, ?, ?, ?, ?, ?)";

        PreparedStatement st = con.prepareStatement(sql);
        st.setString(1, fName.getText());

        st.setString(2, lName.getText());

        st.setString(3, id.getText());
        st.setDate(4, Date.valueOf(dob.getText()));
        st.setString(5, address.getText());

        st.setString(6, phone.getText());
        st.setString(7, status.getText());

        st.executeUpdate();

        JOptionPane.showMessageDialog(null, "insertion sucessful");
    }
}

```

```

        con.close();

    }catch(Exception e){
        JOptionPane.showMessageDialog(null, e);
    }
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    id.setText("");
    fName.setText("");
    lName.setText("");
    dob.setText("");
    address.setText("");
    phone.setText("");
    status.setText("");
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new Staff().setVisible(true);
    dispose();
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new Login().setVisible(true);
    dispose();
}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new UsersDisplay().setVisible(true);
    dispose();
}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new tableDemo().setVisible(true);
    dispose();
}

/**
 * @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(Users.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Users.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Users.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Users.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 Users().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JTextField address;
private javax.swing.JTextField dob;
private javax.swing.JTextField fName;
private javax.swing.JTextField id;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JButton jButton6;
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.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JTextField lName;
private javax.swing.JTextField phone;
private javax.swing.JTextField status;

```

```

    // End of variables declaration
}

```

5. UsersDisplay.Java

```

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con =
        DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong
        g2db", "tduong2", "Cosc*mm7");

        String sql = "update tduong2db.USERS set FNAME = ?, LNAME = ?, DOB = ?,
        ADDRESS= ?, PHONE = ?, STATUS = ? where ID = ?";

        PreparedStatement st = con.prepareStatement(sql);
        st.setString(1, fName.getText());
        st.setString(2, lName.getText());
        st.setString(3, dob.getText());
        st.setString(4, address.getText());
        st.setString(5, phone.getText());
        st.setString(6, status.getText());
        st.setString(7, id.getText());

        st.executeUpdate();
        JOptionPane.showMessageDialog(null, "Updated");
        con.close();
    }
    catch(Exception e){
        System.err.print(e);
    }
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    id.setText("");
    fName.setText("");
    lName.setText("");
    dob.setText("");
    phone.setText("");
    address.setText("");
    status.setText("");
}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new Staff().setVisible(true);
    dispose();
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

try{
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduon
g2db", "tduong2", "Cosc*nm7");

    String sql = "select * from tduong2db.USERS where ID = ?";
    PreparedStatement st = con.prepareStatement(sql);
    st.setString(1, id.getText());

    ResultSet rs = st.executeQuery();
    if(rs.next()){
        fName.setText(rs.getString("FNAME"));
        lName.setText(rs.getString("LNAME"));
        dob.setText(rs.getString("DOB"));
        address.setText(rs.getString("ADDRESS"));
        phone.setText(rs.getString("PHONE"));
        status.setText(rs.getString("STATUS"));
    }else{
        JOptionPane.showMessageDialog(null, "Record not found");
    }
    con.close();
}
catch(Exception e){
    System.err.print(e);
}
}

```

```

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
try{
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduon
g2db", "tduong2", "Cosc*nm7");

    String sql = "delete from tduong2db.USERS where ID = ?";
    PreparedStatement st = con.prepareStatement(sql);
    st.setString(1, id.getText());
    st.executeUpdate();
    JOptionPane.showMessageDialog(null, "deleted");

    id.setText("");
    fName.setText("");
    lName.setText("");
    dob.setText("");
    address.setText("");
    phone.setText("");
    status.setText("");

    con.close();
}catch(Exception e){
    System.err.print(e);
}
}

```

```

    }

    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        new Login().setVisible(true);
        dispose();
    }

```

6. Equipment.Java

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con =
        DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong2db", "tduong2", "Cosc*mm7");

        String sql = "select * from tduong2db.EQUIPMENT where EQID = ?";
        PreparedStatement st = con.prepareStatement(sql);
        st.setString(1, ideq.getText());

        ResultSet rs = st.executeQuery();
        if(rs.next()){
            nameEQ.setText(rs.getString("EQNAME"));
            useridEQ.setText(rs.getString("USERIDEQ"));

        }else{
            JOptionPane.showMessageDialog(null, "Record not found");
        }
        con.close();
    }
    catch(Exception e){
        System.err.print(e);
    }
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    ideq.setText("");
    nameEQ.setText("");
    useridEQ.setText("");
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new Staff().setVisible(true);
    dispose();
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new Users().setVisible(true);
}

```

```

        dispose();
    }

    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        new Login().setVisible(true);
        dispose();
    }

    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        new Checkedin().setVisible(true);
        dispose();
    }

    private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        new tableDemoEquipment().setVisible(true);
        dispose();
    }

    /**
     * @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(Equipment.class.getName()).log(java.util.logging.Level.SEVERE
                , null, ex);
        } catch (InstantiationException ex) {

            java.util.logging.Logger.getLogger(Equipment.class.getName()).log(java.util.logging.Level.SEVERE
                , null, ex);
        } catch (IllegalAccessException ex) {

            java.util.logging.Logger.getLogger(Equipment.class.getName()).log(java.util.logging.Level.SEVERE
                , null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

            java.util.logging.Logger.getLogger(Equipment.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 Equipment().setVisible(true);
        }
    });
}

```

7. Departments.Java

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con =
        DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong2db", "tduong2", "Cosc*mm7");

        String sql = "select * from tduong2db.DEPARTMENTS where DNUM = ?";
        PreparedStatement st = con.prepareStatement(sql);
        st.setString(1, dnum.getText());

        ResultSet rs = st.executeQuery();
        if(rs.next()){
            dname.setText(rs.getString("DNAME"));
            supervisor.setText(rs.getString("SUPERVISOR"));
        }else{
            JOptionPane.showMessageDialog(null, "Record not found");
        }

        con.close();
    }
    catch(Exception e){
        System.err.print(e);
    }
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    dnum.setText("");
    dname.setText("");
    supervisor.setText("");
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new Staff().setVisible(true);
    dispose();
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

```

```

        // TODO add your handling code here:
        new Login().setVisible(true);
        dispose();
    }

    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        new tableDemoDepartments().setVisible(true);
        dispose();
    }

    /**
     * @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 :
java.util.logging.Logger.getLogger(Departments.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
            } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Departments.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
            } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Departments.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
            } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Departments.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 Departments().setVisible(true);
            }
        });
    }

```

8. CheckedIn.Java

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong2db", "tduong2", "Cosc*nm7");

        String sql = "select * from tduong2db.CHECKEDIN where USERIDCH = ?";
        PreparedStatement st = con.prepareStatement(sql);
        st.setString(1, checkedInID.getText());

        ResultSet rs = st.executeQuery();

        if(rs.next()){
            checkedInTime.setText(rs.getString("CHECKEDIN"));
            guest1.setText(rs.getString("GUESTID1"));
            guest2.setText(rs.getString("GUESTID2"));
            guest3.setText(rs.getString("GUESTID3"));
        }else{
            JOptionPane.showMessageDialog(null, "no record found");
        }
        con.close();
    }
    catch(Exception e){
        System.err.print(e);
    }
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new Equipment().setVisible(true);
    dispose();
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    checkedInID.setText("");
    checkedInTime.setText("");
    guest1.setText("");
    guest2.setText("");
    guest3.setText("");
}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    new tableDemoCheckedIn().setVisible(true);
    dispose();
}

/**
 * @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(Checkedin.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Checkedin.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Checkedin.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Checkedin.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 Checkedin().setVisible(true);
        }
    });
}

```

9. tableDemo.Java

```

public tableDemo() {
    initComponents();
    Display();
}

private void Display(){
    try{
        Class.forName("com.mysql.cj.jdbc.Driver");
    }
}

```

```

        Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong2db", "tduong2", "Cosc*nm7");

        String sql = "select * from tduong2db.USERS";
        PreparedStatement st = con.prepareStatement(sql);

        ResultSet rs = st.executeQuery();
        jTable1.setModel(DbUtils.resultSetToTableModel(rs));
    }catch(Exception e){
        System.err.print(e);
    }
}

```

10. tableDemoCheckedIn.Java

```

public tableDemoCheckedIn() {
    initComponents();
    Display();
}

private void Display(){
    try{
        Class.forName("com.mysql.cj.jdbc.Driver");

        Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong2db", "tduong2", "Cosc*nm7");

        String sql = "select * from tduong2db.CHECKEDIN";
        PreparedStatement st = con.prepareStatement(sql);

        ResultSet rs = st.executeQuery();
        jTable1.setModel(DbUtils.resultSetToTableModel(rs));
    }catch(Exception e){
        System.err.print(e);
    }
}
}

```

11. tableDemoDepartment.Java

```

public tableDemo() {
    initComponentsDepartment();
    Display();
}

private void Display(){
    try{
        Class.forName("com.mysql.cj.jdbc.Driver");

```

```

        Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong2db", "tduong2", "Cosc*nm7");

        String sql = "select * from tduong2db.DEPARTMENTS";
        PreparedStatement st = con.prepareStatement(sql);

        ResultSet rs = st.executeQuery();
        jTable1.setModel(DbUtils.resultSetToTableModel(rs));
    }catch(Exception e){
        System.err.print(e);
    }
}

```

12. tableDemoStaff.Java

```

public tableDemoStaff() {
    initComponents();
    Display();
}

private void Display(){
    try{
        Class.forName("com.mysql.cj.jdbc.Driver");

        Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong2db", "tduong2", "Cosc*nm7");

        String sql = "select * from tduong2db.STAFF";
        PreparedStatement st = con.prepareStatement(sql);

        ResultSet rs = st.executeQuery();
        jTable1.setModel(DbUtils.resultSetToTableModel(rs));
    }catch(Exception e){
        System.err.print(e);
    }
}
}

```

13. tableDemoEquipment.Java

```

public tableDemoEquipment() {
    initComponents();
    Display();
}

private void Display(){
    try{
        Class.forName("com.mysql.cj.jdbc.Driver");

```

```

        Connection con =
DriverManager.getConnection("jdbc:mysql://triton.towson.edu:3360/?serverTimezone=EST#/tduong2db", "tduong2", "Cosc*rnm7");

        String sql = "select * from tduong2db.EQUIPMENT";
        PreparedStatement st = con.prepareStatement(sql);

        ResultSet rs = st.executeQuery();
        jTable1.setModel(DbUtils.resultSetToTableModel(rs));
    }catch(Exception e){
        System.err.print(e);
    }
}
}

```

2. SQL Table Creation Script

-- MySQL Workbench Forward Engineering

```

SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;
SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';

```

```

-- -----
-- Schema tduong2db
-- -----

```

```

-- -----
-- Schema tduong2db
-- -----

```

```

CREATE SCHEMA IF NOT EXISTS `tduong2db` DEFAULT CHARACTER SET latin1 ;
USE `tduong2db` ;

```

```

-- -----
-- Table `tduong2db`.`USERS`
-- -----

```

```

CREATE TABLE IF NOT EXISTS `tduong2db`.`USERS` (
  `FNAME` VARCHAR(45) NOT NULL,
  `LNAME` VARCHAR(45) NOT NULL,
  `ID` VARCHAR(45) NOT NULL,
  `DOB` DATE NOT NULL,
  `ADDRESS` VARCHAR(45) NULL,
  `PHONE` VARCHAR(10) NOT NULL,
  `STATUS` VARCHAR(1) NULL,
  PRIMARY KEY (`ID`))
ENGINE = InnoDB;

```

```

-- -----
-- Table `tduong2db`.`DEPARTMENTS`

```

```

-----
CREATE TABLE IF NOT EXISTS `tduong2db`.`DEPARTMENTS` (
  `DNUM` VARCHAR(4) NOT NULL,
  `DNAME` VARCHAR(45) NOT NULL,
  `SUPERVISOR` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`DNUM`),
  INDEX `ID_idx` (`SUPERVISOR` ASC) VISIBLE,
  CONSTRAINT `ID`
    FOREIGN KEY (`SUPERVISOR`)
      REFERENCES `tduong2db`.`USERS` (`ID`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

-----
-- Table `tduong2db`.`STAFF`
-----

```

```

CREATE TABLE IF NOT EXISTS `tduong2db`.`STAFF` (
  `STAFFID` VARCHAR(45) NOT NULL,
  `DNUMS` VARCHAR(45) NOT NULL,
  `WAGE` DOUBLE NOT NULL,
  `DATESTARTED` DATE NOT NULL,
  `GRADDATE` DATE NOT NULL,
  `WorkHours` VARCHAR(2) NOT NULL,
  `CPR` VARCHAR(45) NULL,
  PRIMARY KEY (`STAFFID`, `GRADDATE`),
  INDEX `DNUM_idx` (`DNUMS` ASC) VISIBLE,
  CONSTRAINT `STAFFID`
    FOREIGN KEY (`STAFFID`)
      REFERENCES `tduong2db`.`USERS` (`ID`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT `DNUM`
    FOREIGN KEY (`DNUMS`)
      REFERENCES `tduong2db`.`DEPARTMENTS` (`DNUM`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

-----
-- Table `tduong2db`.`EQUIPMENT`
-----

```

```

CREATE TABLE IF NOT EXISTS `tduong2db`.`EQUIPMENT` (
  `EQNAME` VARCHAR(45) NOT NULL,
  `EQID` VARCHAR(45) NOT NULL,
  `USERIDEQ` VARCHAR(45) NULL,
  PRIMARY KEY (`EQID`),
  INDEX `USERIDEQ_idx` (`USERIDEQ` ASC) VISIBLE,
  CONSTRAINT `USERIDEQ`
    FOREIGN KEY (`USERIDEQ`)
      REFERENCES `tduong2db`.`USERS` (`ID`)
    ON DELETE NO ACTION

```

```
ON UPDATE NO ACTION)
ENGINE = InnoDB;
```

```
-- -----
-- Table `tduong2db`.`CHECKEDIN`
-- -----
```

```
CREATE TABLE IF NOT EXISTS `tduong2db`.`CHECKEDIN` (
  `USERIDCH` VARCHAR(45) NOT NULL,
  `CHECKEDIN` DATETIME NOT NULL,
  `GUESTID1` VARCHAR(45) NOT NULL,
  `GUESTID2` VARCHAR(45) NOT NULL,
  `GUESTID3` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`USERIDCH`, `CHECKEDIN`),
  CONSTRAINT `ID`
    FOREIGN KEY (`USERIDCH`)
    REFERENCES `tduong2db`.`USERS` (`ID`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;
```

```
-- -----
-- Table `tduong2db`.`LOGIN`
-- -----
```

```
CREATE TABLE IF NOT EXISTS `tduong2db`.`LOGIN` (
  `LOGINID` VARCHAR(45) NOT NULL,
  `username` VARCHAR(45) NOT NULL,
  `password` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`LOGINID`),
  CONSTRAINT `ID`
    FOREIGN KEY (`LOGINID`)
    REFERENCES `tduong2db`.`USERS` (`ID`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;
```

```
SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```