

# **ADVANCED JAVA PROGRAMMING PROJECT**

**PROJECT NAME: Hotel management System**

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**DEPARTMENT: BIT level2**

**CLASS GROUP: Group 2**

**Student no in class: 11**

## **1. PLANNING**

A hotel is a complex system that encompasses the activities of many departments, and every operation must be tracked. For this purpose, hoteliers utilize various tools including spreadsheets, paper forms, and unified Hotel management systems.

In this project we are going to build a hotel management systems (HMSs) that handle reservations, front- and back-office operations, channel management, and more.

## **Key functions of the reservation module include:**

- ❖ **Reservations:** Then it schedules bookings and displays information about current and upcoming bookings on a dashboard.
- ❖ **Room bookings:** The system checks room availability and status, shows free rooms across different channels and the website booking engine. This function monitors double bookings and allows group
- ❖ **E-payments processing:** Software collects online transactions and classifies them according to their types and categories.
- ❖ **Management of room inventory and allocation:** Reservation tools prevent overbookings and double bookings. In some software, this function is part of a channel management module.
- ❖ **Reservation emails:** The system sends confirmations to guests after they complete their booking. In some HMSs, this function is a part of the front-desk operations module.
- ❖ **Activities booking:** Some software allows guests to book not only accommodation but also activities with this system.

## **1.2 Goals and objectives of Hotel Management System**

This project will improve efficiency and operational process performance, another thing is to automate day by day activities of hotels like room activities, admission of new customer and other operations in the hotel.

### **1.3 Problems that the system is going to solve**

This system is going to solve a problem of double bookings and manual errors, and always to avoid over booking as in this project everything is arranged on order.

## **2. Design**

These are the requirements needed in hotel management system

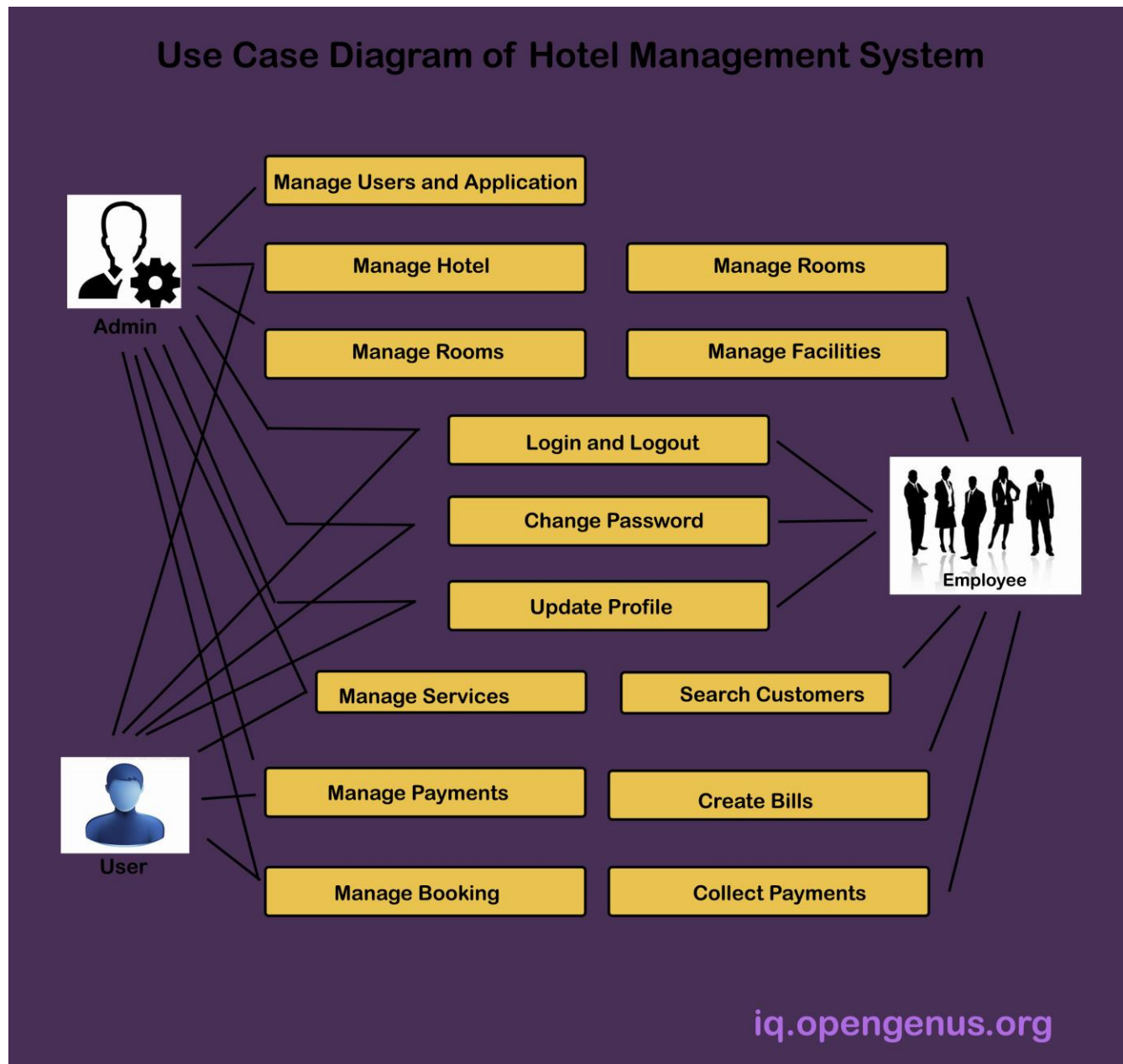
Functional Requirements

Booking / Reservation:

- ❖ Keep track of reservations.
- ❖ Keep track of the customer's first name.
- ❖ Keep track of the customer's last name.
- ❖ Keep track of the number of occupants.
- ❖ Keep track of the room number.
- ❖ Show the default room rate
- ❖ Make a note of the customer's phone number.
- ❖ Indicate whether the room is assured.
- ❖ Create a unique confirmation number for each transaction.
- ❖ Make a note of the anticipated check-in date and time.
- ❖ The system must keep track of the anticipated checkout date and time.
- ❖ Customers will be checked in by the system.
- ❖ The system must allow reservations to be changed without requiring the customer to resubmit all their information.
- ❖ Customers will be checked out by the system.

## Use Case Diagram of Hotel Management System

This Use Case Diagram shows the relationships between the pieces of the Hotel Management System graphically.



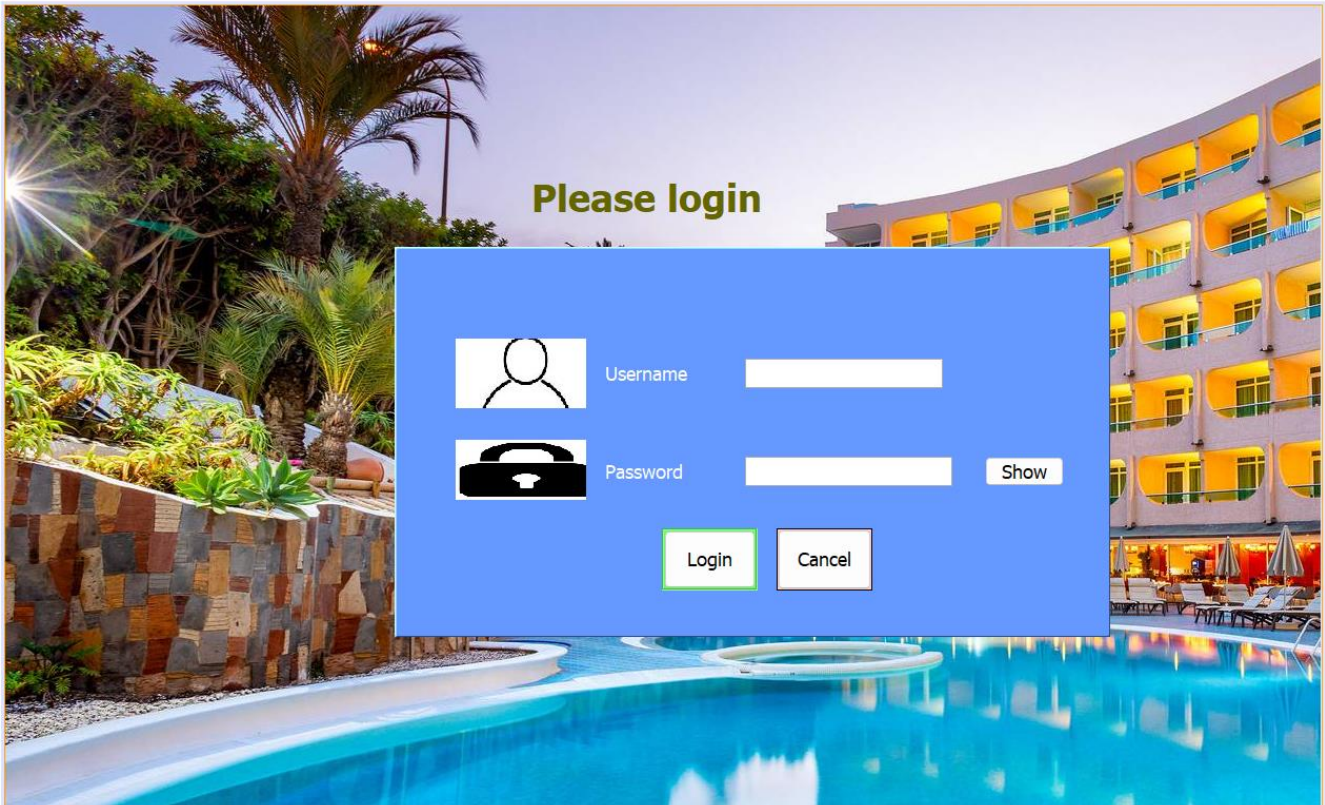
### **3. Development**

In building this project we used java project and NetBeans IDE pc software application as text editor and jframes.

Database we used

- Xampp server
- PHPmyadmin

## **Back-end and front end of hotel management system.**



/\*

\* 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 hotelmanagement;
```

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.PreparedStatement;
```

```
import java.sql.ResultSet;
```

```
import java.sql.SQLException;
```

```
import java.util.logging.Level;
```

```

import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author Omar
 */
public class login extends javax.swing.JFrame {

    /**
     * Creates new form login
     */
    public login() {
        initComponents();
        connect();
    }
    Connection con;
    PreparedStatement pst;
    ResultSet rs;
    public void connect(){
        try {
            Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hotelmana
gement", "root", "");
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
        } catch (SQLException ex) {
            Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
        }
    }

    /**

```

\* 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();

jPanel1 = new javax.swing.JPanel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

txtuname = new javax.swing.JTextField();

txtpass = new javax.swing.JPasswordField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jToggleButton1 = new javax.swing.JToggleButton();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

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

setBackground(new java.awt.Color(153, 153, 153));

setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT\_CURSOR));

getContentPane().setLayout(new

org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N

jLabel1.setForeground(new java.awt.Color(102, 102, 0));

jLabel1.setText("Please login");

getContentPane().add(jLabel1, new

org.netbeans.lib.awtextra.AbsoluteConstraints(500, 160, 220, -1));



```
jPanel1.setBackground(new java.awt.Color(102, 153, 255));
jPanel1.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED)
);
```

```
jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText("Username");
```

```
jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel3.setForeground(new java.awt.Color(255, 255, 255));
jLabel3.setText("Password");
```

```
txtuname.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
```

```
txtpass.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
```

```
jButton1.setBackground(new java.awt.Color(102, 255, 102));
jButton1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jButton1.setText("Login");
jButton1.setBorder(javax.swing.BorderFactory.createEtchedBorder());
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
```

```
jButton2.setBackground(new java.awt.Color(255, 204, 204));
jButton2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jButton2.setText("Cancel");
jButton2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0)));
jButton2.addActionListener(new java.awt.event.ActionListener() {
```

```
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton2ActionPerformed(evt);  
    }  
});
```

```
jToggleButton1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N  
jToggleButton1.setText("Show");  
jToggleButton1.setFocusable(false);  
jToggleButton1.addMouseListener(new java.awt.event.MouseAdapter()  
{  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        jToggleButton1MouseClicked(evt);  
    }  
});
```

```
jLabel5.setIcon(new  
javax.swing.ImageIcon("C:\\Users\\Omar\\Desktop\\javaex\\picture\\11111  
.jpg")); // NOI18N
```

```
jLabel6.setIcon(new  
javax.swing.ImageIcon("C:\\Users\\Omar\\Desktop\\javaex\\picture\\22222  
.jpg")); // NOI18N
```

```
javax.swing.GroupLayout jPanel1Layout = new  
javax.swing.GroupLayout(jPanel1);  
jPanel1.setLayout(jPanel1Layout);  
jPanel1Layout.setHorizontalGroup(  

```

```
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addGroup(jPanel1Layout.createSequentialGroup()  
        .addGap(55, 55, 55)
```

```

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel5,
javax.swing.GroupLayout.PREFERRED_SIZE, 139,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel6,
javax.swing.GroupLayout.PREFERRED_SIZE, 124,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(57, 57, 57)
        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 91,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 91,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(3, 3, 3)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
    .addComponent(jLabel2,
javax.swing.GroupLayout.DEFAULT_SIZE, 106, Short.MAX_VALUE)
    .addComponent(jLabel3,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    .addGap(27, 27, 27)

```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(txtuname,
        javax.swing.GroupLayout.PREFERRED_SIZE, 188,
        javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addComponent(txtpass,
            javax.swing.GroupLayout.PREFERRED_SIZE, 197,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(31, 31, 31)
        .addComponent(jToggleButton1))))
    .addContainerGap(41, Short.MAX_VALUE))
);
jPanel1Layout.setVerticalGroup(
```

```
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(84, 84, 84)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel5,
        javax.swing.GroupLayout.Alignment.TRAILING,
        javax.swing.GroupLayout.PREFERRED_SIZE, 66,
        javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel2,
        javax.swing.GroupLayout.PREFERRED_SIZE, 66,
        javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
        .addComponent(txtuname,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE)))
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
    .addGroup(jPanel1Layout.createSequentialGroup()  
        .addGap(30, 30, 30)  
        .addComponent(jLabel6))  
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
jPanel1Layout.createSequentialGroup()  
    .addGap(33, 33, 33)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
    .addComponent(jLabel3,  
javax.swing.GroupLayout.PREFERRED_SIZE, 54,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
    .addComponent(txtpass,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
    .addComponent(jToggleButton1,  
javax.swing.GroupLayout.PREFERRED_SIZE, 28,  
javax.swing.GroupLayout.PREFERRED_SIZE))))  
    .addGap(27, 27, 27)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
    .addComponent(jButton1,  
javax.swing.GroupLayout.PREFERRED_SIZE, 59,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```

        .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 59,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap(41, Short.MAX_VALUE))
    );

    getContentPane().add(jPanel1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(370, 229, 680, 370));

    jLabel4.setIcon(new
javax.swing.ImageIcon("C:\\Users\\Omar\\Desktop\\javaex\\picture\\1.jpg")
); // NOI18N
    jLabel4.setText("jLabel4");
    getContentPane().add(jLabel4, new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, -10, 1250, 770));

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

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    System.exit(0);
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

    String username = txtuname.getText();
    String password = txtpass.getText();
    if(txtuname.getText().isEmpty() && txtpass.getText().isEmpty()){
        JOptionPane.showMessageDialog(this, "username and password
blank");
    }
}

```

```

else if(txtuname.getText().isEmpty()){
JOptionPane.showMessageDialog(this,"username is blank");
}
else if(txtpass.getText().isEmpty()){
JOptionPane.showMessageDialog(this,"password is blank");
}
else{
    try {
        pst=con.prepareStatement("select * from user where username=?
and password=?");
        pst.setString(1, username);
        pst.setString(2, password);
        rs=pst.executeQuery();
        if(rs.next()){
            main m=new main();
            this.hide();
            m.setVisible(true);
        }
        else{
            JOptionPane.showMessageDialog(this,"username and password
Incorrect");
            txtuname.setText("");
            txtpass.setText("");
            txtuname.requestFocus();
        }

    } catch (SQLException ex) {
        Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);
    }
}
}

```

```

private void jButton1MouseClicked(java.awt.event.MouseEvent evt)
{
    // TODO add your handling code here:
    if(jButton1.isSelected()){
        txtpass.setEchoChar((char)0);
        jButton1.setText("Hide");
    }else{
        txtpass.setEchoChar('\u25cf');
        jButton1.setText("Show");
    }
}

/**
 * @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>
```

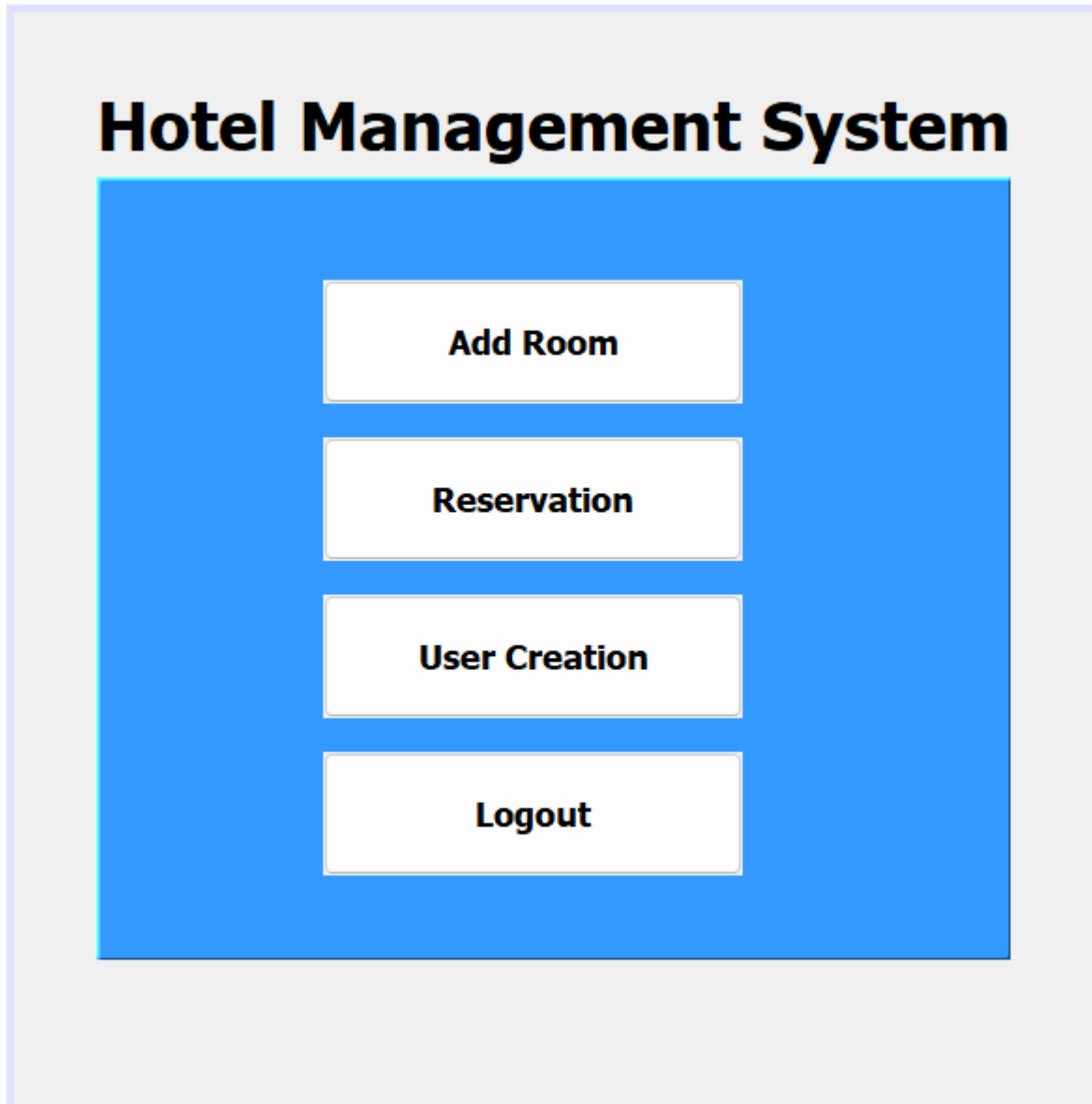
```
/* Create and display the form */
```

```
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        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.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
```

```
private javax.swing.JLabel jLabel6;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JToggleButton jToggleButton1;  
private javax.swing.JPasswordField txtpass;  
private javax.swing.JTextField txtuname;  
// End of variables declaration  
}
```



```
/*  
 * 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 hotelmanagement;

/**
 *
 * @author Omar
 */
public class main extends javax.swing.JFrame {

    /**
     * Creates new form main
     */
    public main() {
        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();
        jPanel1 = new javax.swing.JPanel();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();

```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(153, 153, 153));

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jLabel1.setText("Hotel Management System");

jPanel1.setBackground(new java.awt.Color(51, 153, 255));
jPanel1.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED)
);
```

```
jButton1.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jButton1.setText("Add Room");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
```

```
jButton2.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jButton2.setText("Reservation");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
```

```
jButton3.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jButton3.setText("User Creation");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
```

```
});
```

```
jButton4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N  
jButton4.setText("Logout");  
jButton4.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton4ActionPerformed(evt);  
    }  
});
```

```
javax.swing.GroupLayout jPanel1Layout = new  
javax.swing.GroupLayout(jPanel1);  
jPanel1.setLayout(jPanel1Layout);  
jPanel1Layout.setHorizontalGroup
```

```
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
    .addGroup(jPanel1Layout.createSequentialGroup()  
        .addGap(118, 118, 118)
```

```
    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
        .addComponent(jButton4,  
            javax.swing.GroupLayout.PREFERRED_SIZE, 224,  
            javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
```

```
        .addComponent(jButton2,  
            javax.swing.GroupLayout.PREFERRED_SIZE, 224,  
            javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
```

```

        .addComponent(jButton1,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 224,
javax.swing.GroupLayout.PREFERRED_SIZE))))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
            .addContainerGap(52, Short.MAX_VALUE)
            .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 66,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 66,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 66,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 66,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(42, 42, 42))
    );

```

```

        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(44, 44, 44)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.L
EADING, false)
                .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addContainerGap(45, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(38, 38, 38)
                .addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(77, Short.MAX_VALUE))
        );

```

```
    pack();
    setLocationRelativeTo(null);
} // </editor-fold>
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    room r=new room();
    r.setVisible(true);
}
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    reservation r=new reservation();
    r.setVisible(true);
}
```

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

```
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    login l=new login();
    this.setVisible(false);
    l.setVisible(true);
}
```

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

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

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

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

```
// Variables declaration - do not modify  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton2;  
private javax.swing.JButton jButton3;  
private javax.swing.JButton jButton4;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JPanel jPanel1;  
// End of variables declaration  
}
```

Room No	Room Type	Bed Type	Amount
R0001	A/c	Single	5000
R0002	Non A/c	double	15000
R0003	A/c	double	55550
R0004	Non A/c	double	141410

```

/*
 * 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 hotelmanagement;
```

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;

```

```
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Vector;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
```

```
/**
```

```
*
```

```
* @author Omar
```

```
*/
```

```
public class room extends javax.swing.JFrame {
```

```
    /**
```

```
    * Creates new form room
```

```
    */
```

```
    public room() {
```

```
        initComponents();
```

```
        connect();
```

```
        autoID();
```

```
        load_room();
```

```
    }
```

```
    Connection con;
```

```
    PreparedStatement pst;
```

```
    DefaultTableModel d;
```

```
    public void connect(){
```

```
        try {
```

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

```
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hotelmana
gement", "root", "");
```

```

    } catch (ClassNotFoundException ex) {
        Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
    } catch (SQLException ex) {
        Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
    }
}

public void autoID(){
    try {
        Statement s=con.createStatement();
        ResultSet rs=s.executeQuery("select MAX(rid) from room");
        rs.next();
        rs.getString("MAX(rid)");
        if(rs.getString("MAX(rid)")==null){
            jLabel6.setText("R0001");
        }
        else{
            long id=
Long.parseLong(rs.getString("MAX(rid)").substring(2,rs.getString("MAX(rid)")
.length()));
            id++;
            jLabel6.setText("R0"+ String.format("%03d", id));
        }

    } catch (SQLException ex) {
        Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
    }
}

public void load_room(){
    int c;
    try {
        pst=con.prepareStatement("select * from room");
        ResultSet rs=pst.executeQuery();
        ResultSetMetaData rsd=rs.getMetaData();

```

```

c=rsd.getColumnCount();
d=(DefaultTableModel)jTable1.getModel();
d.setRowCount(0);
while(rs.next()){
    Vector v2=new Vector();
    for(int i=1;i<=c;i++){
        v2.add(rs.getString("rid"));
        v2.add(rs.getString("rtype"));
        v2.add(rs.getString("btype"));
        v2.add(rs.getString("amount"));
    }
    d.addRow(v2);
}

```

```

} catch (SQLException ex) {
    Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
}

```

```

}

```

```

/**

```

```

 * 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() {

```

```

    jPanel1 = new javax.swing.JPanel();

```

```

    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();
txtamount = new javax.swing.JTextField();
txttype = new javax.swing.JComboBox<>();
txbttype = new javax.swing.JComboBox<>();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();
jButton3 = new javax.swing.JButton();
jButton4 = new javax.swing.JButton();
jButton5 = new javax.swing.JButton();
jLabel1 = new javax.swing.JLabel();
jScrollPane1 = new javax.swing.JScrollPane();
jTable1 = new javax.swing.JTable();
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(153, 153, 153));
```

```
jPanel1.setBackground(new java.awt.Color(102, 153, 255));
jPanel1.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED)
);
```

```
jLabel2.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jLabel2.setText("Room no");
```

```
jLabel3.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jLabel3.setText("Room type");
```

```
jLabel4.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jLabel4.setText("Bed type");
```

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

```
jLabel5.setText("Amount");
```

```
jLabel6.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
jLabel6.setForeground(new java.awt.Color(255, 51, 51));  
jLabel6.setText("jLabel6");
```

```
txttype.setModel(new javax.swing.DefaultComboBoxModel<>(new  
String[] { "A/c", "Non A/c", " " }));
```

```
txtbtype.setModel(new javax.swing.DefaultComboBoxModel<>(new  
String[] { "Single", "double" }));
```

```
jButton1.setBackground(new java.awt.Color(102, 255, 102));  
jButton1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N  
jButton1.setText("Save");  
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});
```

```
jButton2.setBackground(new java.awt.Color(255, 255, 0));  
jButton2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N  
jButton2.setText("Edit");  
jButton2.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton2ActionPerformed(evt);  
    }  
});
```

```
jButton3.setBackground(new java.awt.Color(255, 102, 102));  
jButton3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N  
jButton3.setText("Delete");  
jButton3.addActionListener(new java.awt.event.ActionListener() {
```



```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton3ActionPerformed(evt);
        }
    });
```

```
jButton4.setBackground(new java.awt.Color(153, 102, 255));
jButton4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jButton4.setText("Clear");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
```

```
jButton5.setBackground(new java.awt.Color(255, 153, 153));
jButton5.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jButton5.setText("Close");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});
```

```
javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
```

```
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(53, 53, 53)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jLabel5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    .addGap(48, 48, 48)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(jLabel6, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(txtamount)
    .addComponent(txttype, 0, 91, Short.MAX_VALUE)
    .addComponent(txtbtype, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup())
    .addContainerGap()
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup())
    .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 79,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
31, Short.MAX_VALUE)
        .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 75,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jButton3)
        .addGap(28, 28, 28)
        .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 71,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(jButton5,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addContainerGap())
    );
    jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(73, 73, 73)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)
        .addComponent(jLabel2)
        .addComponent(jLabel6))
        .addGap(51, 51, 51)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)
        .addComponent(jLabel3)

```

```
        .addComponent(txtttype,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addGap(47, 47, 47)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.BASELINE)  
        .addComponent(jLabel4)  
        .addComponent(txtbtype,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addGap(59, 59, 59)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.BASELINE)  
        .addComponent(jLabel5)  
        .addComponent(txtamount,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,  
51, Short.MAX_VALUE)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.BASELINE)  
        .addComponent(jButton1,  
javax.swing.GroupLayout.PREFERRED_SIZE, 56,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
        .addComponent(jButton2,  
javax.swing.GroupLayout.PREFERRED_SIZE, 56,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```

        .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 56,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 56,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(33, 33, 33)
        .addComponent(jButton5,
javax.swing.GroupLayout.PREFERRED_SIZE, 87,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap()
    );

```

```

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jLabel1.setText("Room");

```

```

jTable1.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.
border.BevelBorder.RAISED));
jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {

        },
    new String [] {
        "Room No", "Room Type", "Bed Type", "Amount"
    }
) {
    Class[] types = new Class [] {
        java.lang.String.class, java.lang.String.class, java.lang.String.class,
java.lang.Integer.class
    };

    public Class getColumnClass(int columnIndex) {
        return types [columnIndex];
    }
}

```

```

    }
});
jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTable1MouseClicked(evt);
    }
});
jScrollPane1.setViewportViewView(jTable1);

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

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.L
EADING)
    .addGroup(layout.createSequentialGroup()
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.L
EADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(204, 204, 204)
                .addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addGap(0, 23, Short.MAX_VALUE)
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)))

```

```

        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 639,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(21, 21, 21))
    );
    layout.setVerticalGroup(

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.L
EADING)
        .addGroup(layout.createSequentialGroup())
            .addGap(35, 35, 35)
            .addComponent(jLabel1)
            .addGap(26, 26, 26)
            .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup())
                .addContainerGap()
                .addComponent(jScrollPane1)))
        .addContainerGap())
    );

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

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String roomno=jLabel6.getText();
    String roomtype=txttype.getSelectedItemAt().toString();
    String bedtype=txtbtype.getSelectedItemAt().toString();
}

```

```
String amount=txtamount.getText();
```

```
try {
    pst=con.prepareStatement("insert into room(rid,rtype,btype,amount)
values (?, ?, ?, ?)");
    pst.setString(1, roomno);
    pst.setString(2, roomtype);
    pst.setString(3, bedtype);
    pst.setString(4, amount);
    pst.executeUpdate();
    JOptionPane.showMessageDialog(null,"Room Added");
    txttype.setSelectedIndex(-1);
    txtbtype.setSelectedIndex(-1);
    txtamount.setText("");
    autoID();
    load_room();
} catch (SQLException ex) {
    Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
}
}
```

```
private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    d=(DefaultTableModel)jTable1.getModel();
    int selectIndex=jTable1.getSelectedRow();
    jLabel6.setText(d.getValueAt(selectIndex, 0).toString());
    txttype.setSelectedItem(d.getValueAt(selectIndex, 1).toString());
    txtbtype.setSelectedItem(d.getValueAt(selectIndex, 2).toString());
    txtamount.setText(d.getValueAt(selectIndex, 3).toString());
    jButton1.setEnabled(false);
}
```

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



```

String roomno=jLabel6.getText();
String roomtype=txttype.getSelectedItemAt().toString();
String bedtype=txtbtype.getSelectedItemAt().toString();
String amount=txtamount.getText();

try {
    pst=con.prepareStatement("update room set
rtype=?,btype=?,amount=? where rid= ?");
    pst.setString(1, roomtype);
    pst.setString(2, bedtype);
    pst.setString(3, amount);
    pst.setString(4, roomno);
    pst.executeUpdate();
    JOptionPane.showMessageDialog(null,"Room Edited");
    txttype.setSelectedIndex(-1);
    txtbtype.setSelectedIndex(-1);
    txtamount.setText("");
    autoID();
    load_room();
    jButton1.setEnabled(false);
} catch (SQLException ex) {
    Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
}

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    txttype.setSelectedIndex(-1);
    txtbtype.setSelectedIndex(-1);
    txtamount.setText("");
    autoID();
    load_room();
}

```

```
        jButton1.setEnabled(true);  
    }
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    String roomno=jLabel6.getText();  
  
    try {  
        pst=con.prepareStatement("delete from room where rid=?");  
        pst.setString(1, roomno);  
        pst.executeUpdate();  
        JOptionPane.showMessageDialog(null,"Room Deleted");  
        txttype.setSelectedIndex(-1);  
        txtbtype.setSelectedIndex(-1);  
        txtamount.setText("");  
        autoID();  
        load_room();  
        jButton1.setEnabled(false);  
    } catch (SQLException ex) {  
        Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);  
    }  
}
```

```
private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    this.setVisible(false);  
  
}
```

```
/**  
 * @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(room.class.getName()).log(java.util.loggin
g.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

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

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

java.util.logging.Logger.getLogger(room.class.getName()).log(java.util.loggin
g.Level.SEVERE, null, ex);
    }
}

```

```
//</editor-fold>
```

```
/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new room().setVisible(true);
    }
});
}
```

```
// Variables declaration - do not modify
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.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.JPanel jPanel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
private javax.swing.JTextField txtamount;
private javax.swing.JComboBox<String> txtbtype;
private javax.swing.JComboBox<String> txtttype;
// End of variables declaration
}
```

## Reservation

Reservation No **RE004**

Name

Address

Mobile

Check In

check Out

Room type

Room No

Bed type

Amount

RID	Name	Address	Mobile	CheckIn	CheckOut	Roomtype	Roomno	Bedtype	Amount
R0001	Omaggg	yewe	789456123	2022-09-17	2022-09-02	Non A/c	R0001	Single	15000
RE002	kirenga	marial	516515615	2022-25-03	2022-25-04	Non A/c	R0003	double	12000
RE004	omar	karake	1561561	2022-27-01	2022-27-02	Non A/c	R0002	Single	15000
RE005	elias	NYAGATRE	785204887	2022-00-03	2022-19-04	Non A/c	R0002	Single	100000

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package hotelmanagement;

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.sql.Statement;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Vector;
import java.util.logging.Level;

```

```

import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author Omar
 */
public class reservation extends javax.swing.JFrame {

    /**
     * Creates new form reservation
     */
    public reservation() {
        initComponents();
        connect();
        autoID();
        roomtypeL();
        roomNoL();
        bedTypeL();
        load_reservation();

    }
    Connection con;
    PreparedStatement pst;
    DefaultTableModel d;
    public void connect(){
        try {
            Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hotelmana
gement", "root", "");
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);

```

```

    } catch (SQLException ex) {
        Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
    }
}

public void autoID(){
    try {
        Statement s=con.createStatement();
        ResultSet rs=s.executeQuery("select MAX(reid) from reservation");
        rs.next();
        rs.getString("MAX(reid)");
        if(rs.getString("MAX(reid)")==null){
            jLabel12.setText("R0001");
        }
        else{
            long id=
Long.parseLong(rs.getString("MAX(reid)").substring(2,rs.getString("MAX(reid)
)").length()));
            id++;
            jLabel12.setText("RE"+ String.format("%03d", id));
        }

    } catch (SQLException ex) {
        Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
    }
}

public void roomtypeL(){
    try {
        pst=con.prepareStatement("select distinct rtype from room");
        ResultSet rs=pst.executeQuery();
        txtrtype.removeAllItems();
        while(rs.next()){
            txtrtype.addItem(rs.getString("rtype"));
        }
    }
}

```

```

    } catch (SQLException ex) {
        Logger.getLogger(reservation.class.getName()).log(Level.SEVERE, null,
ex);
    }
}

public void load_reservation(){
int c;
try {
    pst=con.prepareStatement("select * from reservation");
    ResultSet rs=pst.executeQuery();
    ResultSetMetaData rsd=rs.getMetaData();
    c=rsd.getColumnCount();
    d=(DefaultTableModel)jTable2.getModel();
    d.setRowCount(0);
    while(rs.next()){
        Vector v2=new Vector();
        for(int i=1;i<=c;i++){
            v2.add(rs.getString("reid"));
            v2.add(rs.getString("name"));
            v2.add(rs.getString("address"));
            v2.add(rs.getString("mobile"));
            v2.add(rs.getString("checkin"));
            v2.add(rs.getString("checkout"));
            v2.add(rs.getString("bedtype"));
            v2.add(rs.getString("roomno"));
            v2.add(rs.getString("rtype"));
            v2.add(rs.getString("amount"));
        }
        d.addRow(v2);
    }

} catch (SQLException ex) {
    Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
}

```



```

    }
    public void roomNoL(){
        try {
            pst=con.prepareStatement("select distinct rid from room");
            ResultSet rs=pst.executeQuery();
            txttrno.removeAllItems();
            while(rs.next()){
                txttrno.addItem(rs.getString("rid"));
            }
        } catch (SQLException ex) {
            Logger.getLogger(reservation.class.getName()).log(Level.SEVERE, null,
ex);
        }
    }
    public void bedTypeL(){
        try {
            pst=con.prepareStatement("select distinct btype from room");
            ResultSet rs=pst.executeQuery();
            txtbtype.removeAllItems();
            while(rs.next()){
                txtbtype.addItem(rs.getString("btype"));
            }
        } catch (SQLException ex) {
            Logger.getLogger(reservation.class.getName()).log(Level.SEVERE, null,
ex);
        }
    }

```

/\*\*

\* 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() {

    jPanel1 = new javax.swing.JPanel();
    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();
    jLabel7 = new javax.swing.JLabel();
    jLabel8 = new javax.swing.JLabel();
    jLabel9 = new javax.swing.JLabel();
    jLabel10 = new javax.swing.JLabel();
    jLabel11 = new javax.swing.JLabel();
    txtname = new javax.swing.JTextField();
    txtaddress = new javax.swing.JTextField();
    txtmobile = new javax.swing.JTextField();
    txtamount = new javax.swing.JTextField();
    txtrtype = new javax.swing.JComboBox<>();
    txtrno = new javax.swing.JComboBox<>();
    txtbtype = new javax.swing.JComboBox<>();
    txtcheckin = new com.toedter.calendar.JDateChooser();
    txtcheckout = new com.toedter.calendar.JDateChooser();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jButton4 = new javax.swing.JButton();
    jLabel12 = new javax.swing.JLabel();
    jButton5 = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
```

```
jTable2 = new javax.swing.JTable();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(153, 153, 153));

jPanel1.setBackground(new java.awt.Color(51, 153, 255));
jPanel1.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED)
);

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jLabel1.setText("Reservation");

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel2.setText("Reservatjion No");

jLabel3.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel3.setText("Name");

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel4.setText("Address");

jLabel5.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel5.setText("Mobile");

jLabel6.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel6.setText("Check In");

jLabel7.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel7.setText("check Out");

jLabel8.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel8.setText("Room type");
```

```
jLabel9.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel9.setText("Bed type");
```

```
jLabel10.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel10.setText("Room No");
```

```
jLabel11.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel11.setText("Amount");
```

```
jButton1.setBackground(new java.awt.Color(153, 255, 153));
jButton1.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
jButton1.setText("Save");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
```

```
jButton2.setBackground(new java.awt.Color(255, 204, 204));
jButton2.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
jButton2.setText("Edit");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
```

```
jButton3.setBackground(new java.awt.Color(255, 102, 102));
jButton3.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
jButton3.setText("Delete");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
```

```
    }  
});
```

```
jButton4.setBackground(new java.awt.Color(255, 204, 0));  
jButton4.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N  
jButton4.setText("Clear");  
jButton4.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton4ActionPerformed(evt);  
    }  
});
```

```
jLabel12.setFont(new java.awt.Font("Tahoma", 1, 13)); // NOI18N  
jLabel12.setForeground(new java.awt.Color(255, 0, 0));  
jLabel12.setText("jLabel12");
```

```
jButton5.setBackground(new java.awt.Color(255, 102, 255));  
jButton5.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N  
jButton5.setText("close");  
jButton5.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton5ActionPerformed(evt);  
    }  
});
```

```
javax.swing.GroupLayout jPanel1Layout = new  
javax.swing.GroupLayout(jPanel1);  
jPanel1.setLayout(jPanel1Layout);  
jPanel1Layout.setHorizontalGroup(
```

```
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addGroup(jPanel1Layout.createSequentialGroup()
```

```

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 71,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 84,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)
    .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 82,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(18, 18, 18)
    .addComponent(jButton4,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(jLabel2,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jLabel3,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jLabel4,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

```

```
        .addComponent(jLabel5,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
        .addComponent(jLabel6,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
        .addComponent(jLabel7,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
        .addComponent(jLabel8,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
        .addComponent(jLabel9,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
        .addComponent(jLabel10,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
        .addComponent(jLabel11,  
javax.swing.GroupLayout.PREFERRED_SIZE, 97,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addGap(14, 14, 14)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addComponent(jLabel12,  
javax.swing.GroupLayout.Alignment.TRAILING,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
        .addComponent(txtaddress)  
        .addComponent(txtmobile)  
        .addComponent(txtamount)  
        .addComponent(txtrtype, 0,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```

        .addComponent(txttrno, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(txtbtype, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(txtcheckin,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(txtcheckout,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(txtname)))
        .addComponent(jButton5,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(98, 98, 98)
        .addComponent(jLabel1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
        .addGap(27, 27, 27))
);
jPanel1Layout.setVerticalGroup(

```

```

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addGroup(jPanel1Layout.createSequentialGroup()
        .addComponent(jLabel1)
        .addGap(42, 42, 42)

```

```

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
        .addComponent(jLabel2)
        .addComponent(jLabel12))
        .addGap(18, 18, 18)

```



```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
```

```
    .addGroup(jPanel1Layout.createSequentialGroup())
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
    .addComponent(jLabel3)
```

```
    .addComponent(txtname,  
        javax.swing.GroupLayout.PREFERRED_SIZE,  
        javax.swing.GroupLayout.DEFAULT_SIZE,  
        javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
    .addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
    .addComponent(jLabel4)
```

```
    .addComponent(txtaddress,  
        javax.swing.GroupLayout.PREFERRED_SIZE,  
        javax.swing.GroupLayout.DEFAULT_SIZE,  
        javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
    .addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
```

```
    .addComponent(jLabel5)
```

```
    .addComponent(txtmobile,  
        javax.swing.GroupLayout.PREFERRED_SIZE,  
        javax.swing.GroupLayout.DEFAULT_SIZE,  
        javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
    .addGap(18, 18, 18)
```

```
    .addComponent(jLabel6))
```

```
    .addComponent(txtcheckin,  
        javax.swing.GroupLayout.PREFERRED_SIZE,
```

```
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
    .addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.TRAILING)  
    .addComponent(jLabel7)  
    .addComponent(txtcheckout,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
    .addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.BASELINE)  
    .addComponent(jLabel8)  
    .addComponent(txtrtype,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
    .addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.BASELINE)  
    .addComponent(jLabel10)  
    .addComponent(txtrno,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
    .addGap(18, 18, 18)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.BASELINE)  
    .addComponent(jLabel9)
```

```
        .addComponent(txtbtype,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addGap(13, 13, 13)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.BASELINE)  
        .addComponent(jLabel11)  
        .addComponent(txtamount,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
        .addGap(26, 26, 26)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.BASELINE)  
        .addComponent(jButton2,  
javax.swing.GroupLayout.PREFERRED_SIZE, 40,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
        .addComponent(jButton3,  
javax.swing.GroupLayout.PREFERRED_SIZE, 40,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
        .addComponent(jButton1,  
javax.swing.GroupLayout.PREFERRED_SIZE, 40,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
        .addComponent(jButton4,  
javax.swing.GroupLayout.PREFERRED_SIZE, 40,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE  
D)
```

```
        .addComponent(jButton5,  
javax.swing.GroupLayout.PREFERRED_SIZE, 92,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,  
Short.MAX_VALUE))  
    );
```

```
jTable2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.  
border.BevelBorder.RAISED));
```

```
    jTable2.setModel(new javax.swing.table.DefaultTableModel(  
        new Object [][] {  
  
            },  
        new String [] {  
            "RID", "Name", "Address", "Mobile", "CheckIn", "CheckOut",  
"Roomtype", "Roomno", "Bedtype", "Amount"  
        }  
    ) {  
        Class[] types = new Class [] {  
            java.lang.String.class, java.lang.String.class, java.lang.String.class,  
java.lang.String.class, java.lang.String.class, java.lang.Object.class,  
java.lang.Object.class, java.lang.Object.class, java.lang.Object.class,  
java.lang.Object.class  
        };  
  
        public Class getColumnClass(int columnIndex) {  
            return types [columnIndex];  
        }  
    });
```

```
jTable2.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        jTable2MouseClicked(evt);  
    }  
})
```

```

});
jScrollPane1.setViewportViewView(jTable2);

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(18, 18, 18)
        .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 937,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(18, 18, 18)
        .addComponent(jScrollPane1,
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.LEADING)
            .addComponent(jTable2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18))
    );

```

```

        .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGap(35, 35, 35))
    );

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

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String reno=jLabel12.getText();
    String name=txtname.getText();
    String address=txtaddress.getText();
    String mobile=txtmobile.getText();
    SimpleDateFormat df1=new SimpleDateFormat("yyyy-mm-dd");
    String StartDate = df1.format(txtcheckin.getDate());
    SimpleDateFormat df2=new SimpleDateFormat("yyyy-mm-dd");
    String EndDate = df2.format(txtcheckout.getDate());
    String roomtype = txtrtype.getSelectedItemAt().toString();
    String roomno=txtrno.getSelectedItemAt().toString();
    String bedtype=txtbtype.getSelectedItemAt().toString();
    String amount=txtamount.getText();

    try {
        pst=con.prepareStatement("insert into
reservation(reid,name,address,mobile,checkin,checkout,bedtype,roomno,rt
ype,amount) values (?, ?, ?, ?, ?, ?, ?, ?, ?, ?)");
        pst.setString(1, reno);
        pst.setString(2, name);
        pst.setString(3, address);
        pst.setString(4, mobile);
        pst.setString(5, StartDate);

```

```

        pst.setString(6, EndDate);
        pst.setString(7, roomtype);
        pst.setString(8, roomno);
        pst.setString(9, bedtype);
        pst.setString(10, amount);
        pst.executeUpdate();
        JOptionPane.showMessageDialog(null, "Reservation Added");
        txtname.setText("");
        txtaddress.setText("");
        txtmobile.setText("");
        txtaddress.setText("");
        txtmobile.setText("");
        txtrtype.setSelectedIndex(-1);
        txtrno.setSelectedIndex(-1);
        txtbtype.setSelectedIndex(-1);
        txtamount.setText("");
        autoID();
        load_reservation();
    } catch (SQLException ex) {
        Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
    }
}

```

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String reno=jLabel12.getText();
    String name=txtname.getText();
    String address=txtaddress.getText();
    String mobile=txtmobile.getText();
    SimpleDateFormat df1=new SimpleDateFormat("yyyy-mm-dd");
    String StartDate = df1.format(txtcheckin.getDate());
    SimpleDateFormat df2=new SimpleDateFormat("yyyy-mm-dd");
    String EndDate = df2.format(txtcheckout.getDate());
    String roomtype = txtrtype.getSelectedItem().toString();
}

```

```
String roomno=txtrno.getSelectedItem().toString();
String bedtype=txtbtype.getSelectedItem().toString();
String amount=txtamount.getText();
```

```
try {
    pst=con.prepareStatement("update reservation set
name=?,address=?,mobile=?,checkin=?,checkout=?,bedtype=?,roomno=?,rt
ype=?,amount=? where reid= ?");
    pst.setString(1, name);
    pst.setString(2, address);
    pst.setString(3, mobile);
    pst.setString(4, StartDate);
    pst.setString(5, EndDate);
    pst.setString(6, roomtype);
    pst.setString(7, roomno);
    pst.setString(8, bedtype);
    pst.setString(9, amount);
    pst.setString(10, reno);
    pst.executeUpdate();
    JOptionPane.showMessageDialog(null,"Reservation Edited");
    txtname.setText("");
    txtaddress.setText("");
    txtmobile.setText("");
    txtaddress.setText("");
    txtmobile.setText("");
    txtrtype.setSelectedIndex(-1);
    txtrno.setSelectedIndex(-1);
    txtbtype.setSelectedIndex(-1);
    txtamount.setText("");
    autoID();
    load_reservation();
    jButton1.setEnabled(true);
} catch (SQLException ex) {
    Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
```



```
}  
}
```

```
private void jTable2MouseClicked(java.awt.event.MouseEvent evt) {
```

```
    // TODO add your handling code here:  
    d=(DefaultTableModel)jTable2.getModel();  
    int srow=jTable2.getSelectedRow();  
    int selectIndex=jTable2.getSelectedRow();  
    jLabel12.setText(d.getValueAt(selectIndex, 0).toString());  
    txtname.setText(d.getValueAt(selectIndex, 1).toString());  
    txtaddress.setText(d.getValueAt(selectIndex, 2).toString());  
    txtmobile.setText(d.getValueAt(selectIndex, 3).toString());  
    //txtcheckin.setSelectedDate(d.getValueAt(selectIndex, 4).toString());  
    //txtcheckout.setSelectedDateRange(d.getValueAt(selectIndex,  
5).toString());  
    txtrtype.setSelectedItem(d.getValueAt(selectIndex, 6).toString());  
    txtrno.setSelectedItem(d.getValueAt(selectIndex, 7).toString());  
    txtbtype.setSelectedItem(d.getValueAt(selectIndex, 8).toString());  
    txtamount.setText(d.getValueAt(selectIndex, 9).toString());  
  
    //Date date=new SimpleDateFormat("yyyy-mm-  
dd").parse((String)model.getValueAt(srow,4));  
    jButton1.setEnabled(false);  
}
```

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

```
    // TODO add your handling code here:  
    txtname.setText("");  
    txtaddress.setText("");  
    txtmobile.setText("");  
    //txtcheckin.setSelectedIndex(-1);  
    //txtcheckout.setSelectedIndex(-1);  
    txtrtype.setSelectedIndex(-1);
```

```

        txtrno.setSelectedIndex(-1);
        txtbtype.setSelectedIndex(-1);
        txtamount.setText("");
        autoID();
        load_reservation();
        jButton1.setEnabled(true);
    }

```

```

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

```

```

    String reno=jLabel12.getText();

```

```

    try {
        pst=con.prepareStatement("delete from reservation where reid= ?");
        pst.setString(1, reno);
        pst.executeUpdate();
        JOptionPane.showMessageDialog(null,"Reservation Deleted");
        txtname.setText("");
        txtaddress.setText("");
        txtmobile.setText("");
        txtaddress.setText("");
        txtmobile.setText("");
        txtrtype.setSelectedIndex(-1);
        txtrno.setSelectedIndex(-1);
        txtbtype.setSelectedIndex(-1);
        txtamount.setText("");
        autoID();
        load_reservation();
        jButton1.setEnabled(true);
    } catch (SQLException ex) {
        Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
    }

```

```

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    this.setVisible(false);
}

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

```

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

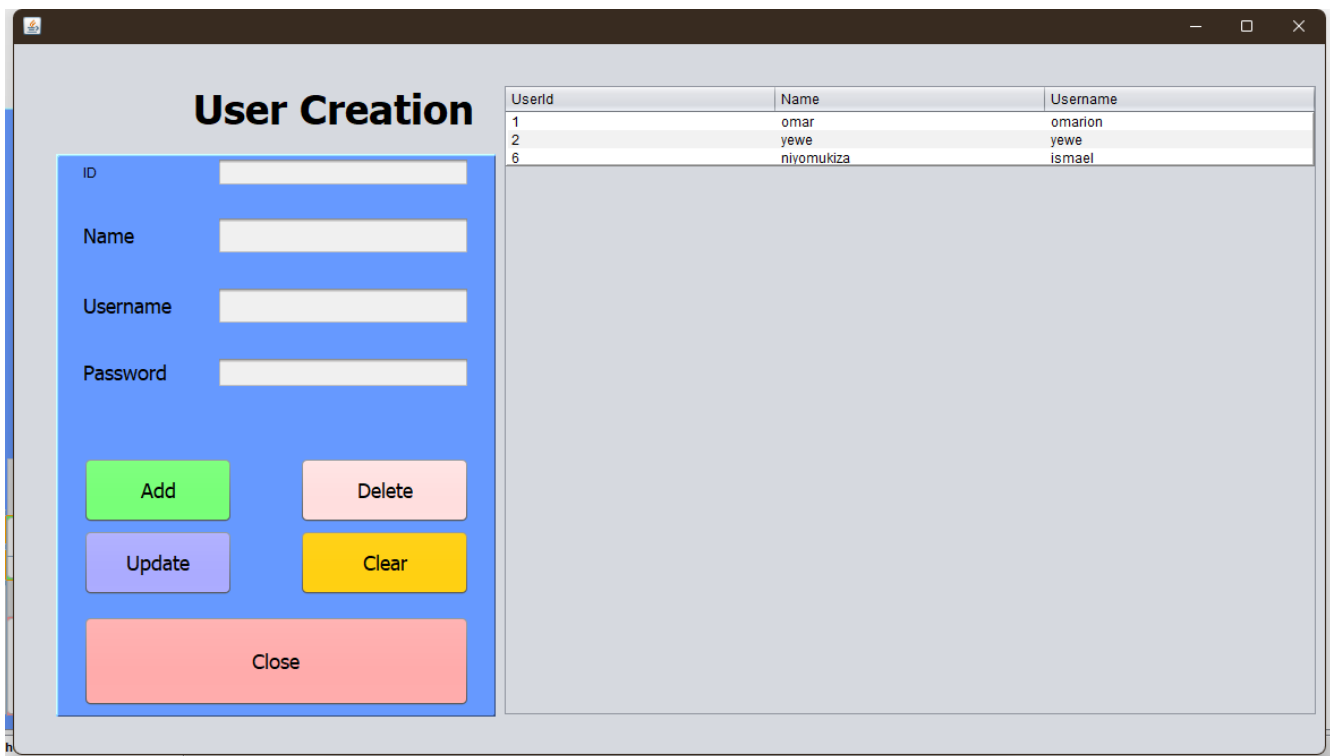
```
java.util.logging.Logger.getLogger(reservation.class.getName()).log(java.util.l  
ogging.Level.SEVERE, null, ex);  
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

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

```
    /* Create and display the form */  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new reservation().setVisible(true);  
        }  
    });  
}
```

```
// Variables declaration - do not modify  
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.JLabel jLabel1;  
private javax.swing.JLabel jLabel10;  
private javax.swing.JLabel jLabel11;  
private javax.swing.JLabel jLabel12;  
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.JLabel jLabel9;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTable jTable2;  
private javax.swing.JTextField txtaddress;  
private javax.swing.JTextField txtamount;  
private javax.swing.JComboBox<String> txtbtype;  
private com.toedter.calendar.JDateChooser txtcheckin;  
private com.toedter.calendar.JDateChooser txtcheckout;  
private javax.swing.JTextField txtmobile;  
private javax.swing.JTextField txtname;  
private javax.swing.JComboBox<String> txtrno;  
private javax.swing.JComboBox<String> txtrtype;  
// End of variables declaration  
}
```



```

/*
 * 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 hotelmanagement;
```

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Vector;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

```

```

/**
 *
 * @author Omar
 */
public class user extends javax.swing.JFrame {

    /**
     * Creates new form user
     */
    public user() {
        initComponents();
        connect();
        load_user();
    }
    Connection con;
    PreparedStatement pst;
    DefaultTableModel d;
    public void connect(){
        try {
            Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hotelmana
gement", "root", "");
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
        } catch (SQLException ex) {
            Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
    public void load_user(){
        int c;
        try {
            pst=con.prepareStatement("select * from user");

```

```

ResultSet rs=pst.executeQuery();
ResultSetMetaData rsd=rs.getMetaData();
c=rsd.getColumnCount();
d=(DefaultTableModel)jTable3.getModel();
d.setRowCount(0);
while(rs.next()){
    Vector v2=new Vector();
    for(int i=1;i<=c;i++){
        v2.add(rs.getString("uid"));
        v2.add(rs.getString("name"));
        v2.add(rs.getString("username"));
        //v2.add(rs.getString("amount"));
    }
    d.addRow(v2);
}

```

```

} catch (SQLException ex) {
    Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
}

```

```

}

```

```

/**

```

```

 * 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() {

```

```

    JPanel1 = new javax.swing.JPanel();

```



```
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
txtname = new javax.swing.JTextField();
txtusername = new javax.swing.JTextField();
txtpassword = new javax.swing.JPasswordField();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();
jButton3 = new javax.swing.JButton();
jButton4 = new javax.swing.JButton();
jButton5 = new javax.swing.JButton();
jLabel5 = new javax.swing.JLabel();
txtuid = new javax.swing.JTextField();
jLabel1 = new javax.swing.JLabel();
jScrollPane1 = new javax.swing.JScrollPane();
jTable3 = new javax.swing.JTable();
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(153, 153, 153));
```

```
jPanel1.setBackground(new java.awt.Color(102, 153, 255));
jPanel1.setBorder(new
javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED)
);
```

```
jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel2.setText("Name");
```

```
jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel3.setText("Username");
```

```
jLabel4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel4.setText("Password");
```

```
txtname.setBackground(new java.awt.Color(240, 240, 240));  
txtname.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
```

```
txtusername.setBackground(new java.awt.Color(240, 240, 240));  
txtusername.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
```

```
txtpassword.setBackground(new java.awt.Color(240, 240, 240));
```

```
jButton1.setBackground(new java.awt.Color(102, 255, 102));  
jButton1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N  
jButton1.setText("Add");  
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});
```

```
jButton2.setBackground(new java.awt.Color(255, 204, 204));  
jButton2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N  
jButton2.setText("Delete");  
jButton2.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton2ActionPerformed(evt);  
    }  
});
```

```
jButton3.setBackground(new java.awt.Color(153, 153, 255));  
jButton3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N  
jButton3.setText("Update");  
jButton3.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton3ActionPerformed(evt);  
    }  
});
```

```
});
```

```
jButton4.setBackground(new java.awt.Color(255, 204, 0));  
jButton4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N  
jButton4.setText("Clear");  
jButton4.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton4ActionPerformed(evt);  
    }  
});
```

```
jButton5.setBackground(new java.awt.Color(255, 153, 153));  
jButton5.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N  
jButton5.setText("Close");  
jButton5.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton5ActionPerformed(evt);  
    }  
});
```

```
jLabel5.setText("ID");
```

```
txtuid.setBackground(new java.awt.Color(240, 240, 240));  
txtuid.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        txtuidActionPerformed(evt);  
    }  
});  
txtuid.addKeyListener(new java.awt.event.KeyAdapter() {  
    public void keyPressed(java.awt.event.KeyEvent evt) {  
        txtuidKeyPressed(evt);  
    }  
});
```

```
        javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(21, 21, 21)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jButton5,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jButton1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jButton3,
javax.swing.GroupLayout.DEFAULT_SIZE, 132, Short.MAX_VALUE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
59, Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jButton2,
javax.swing.GroupLayout.DEFAULT_SIZE, 150, Short.MAX_VALUE)
```

```

        .addComponent(jButton4,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
        .addGroup(jPanel1Layout.createSequentialGroup())

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.TRAILING, false)
        .addComponent(jLabel3,
javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel2,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel4,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addComponent(jLabel5,
javax.swing.GroupLayout.PREFERRED_SIZE, 78,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(40, 40, 40)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING, false)
        .addComponent(txtname)
        .addComponent(txtusername)
        .addComponent(txtpassword)
        .addComponent(txtuid,
javax.swing.GroupLayout.DEFAULT_SIZE, 223, Short.MAX_VALUE))))
        .addContainerGap(20, Short.MAX_VALUE))
);

```

```
jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel5,
javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(txtuid,
javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(26, 26, 26)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel2,
javax.swing.GroupLayout.PREFERRED_SIZE, 28,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(txtname,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(28, 28, 28)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel3,
javax.swing.GroupLayout.PREFERRED_SIZE, 28,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(txtusername,
javax.swing.GroupLayout.PREFERRED_SIZE,
```

```
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
    .addGap(28, 28, 28)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.LEADING, false)  
    .addComponent(txtpassword)  
    .addComponent(jLabel4,  
javax.swing.GroupLayout.PREFERRED_SIZE, 28,  
javax.swing.GroupLayout.PREFERRED_SIZE))  
    .addGap(61, 61, 61)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.BASELINE)  
    .addComponent(jButton1,  
javax.swing.GroupLayout.PREFERRED_SIZE, 58,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
    .addComponent(jButton2,  
javax.swing.GroupLayout.PREFERRED_SIZE, 58,  
javax.swing.GroupLayout.PREFERRED_SIZE))
```

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

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align  
ment.LEADING)  
    .addComponent(jButton3,  
javax.swing.GroupLayout.PREFERRED_SIZE, 58,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
    .addComponent(jButton4,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))  
    .addGap(18, 18, 18)
```

```
        .addComponent(jButton5,  
javax.swing.GroupLayout.PREFERRED_SIZE, 80,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,  
Short.MAX_VALUE))  
    );
```

```
jLabel1.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N  
jLabel1.setText("User Creation");
```

```
jTable3.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.  
border.BevelBorder.RAISED));  
jTable3.setModel(new javax.swing.table.DefaultTableModel(  
    new Object [][] {  
  
        },  
    new String [] {  
        "UserId", "Name", "Username"  
    }  
){  
    Class[] types = new Class [] {  
        java.lang.String.class, java.lang.Object.class, java.lang.Object.class  
    };  
  
    public Class getColumnClass(int columnIndex) {  
        return types [columnIndex];  
    }  
});  
jTable3.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        jTable3MouseClicked(evt);  
    }  
});
```



```
jScrollPane1.setViewportView(jTable3);
```

```
javax.swing.GroupLayout layout = new  
javax.swing.GroupLayout(getContentPane());  
getContentPane().setLayout(layout);  
layout.setHorizontalGroup(
```

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

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.L  
EADING)
```

```
    .addGroup(layout.createSequentialGroup()  
        .addGap(158, 158, 158)  
        .addComponent(jLabel1))  
    .addGroup(layout.createSequentialGroup()  
        .addGap(37, 37, 37)  
        .addComponent(jPanel1,
```

```
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE)))
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
    .addComponent(jScrollPane1,  
javax.swing.GroupLayout.DEFAULT_SIZE, 720, Short.MAX_VALUE)  
    .addContainerGap())
```

```
);
```

```
layout.setVerticalGroup(
```

```
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addGroup(layout.createSequentialGroup()  
        .addGap(35, 35, 35)
```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(jScrollPane1)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel1)
        .addGap(18, 18, 18)
        .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addContainerGap(33, Short.MAX_VALUE))
);

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

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String name=txtname.getText();
    String username=txtusername.getText();
    String password=txtpassword.getText();
    try {
        pst=con.prepareStatement("insert into
user(name,username,password) values (?, ?, ?)");
        pst.setString(1, name);
        pst.setString(2, username);
        pst.setString(3, password);
        pst.executeUpdate();
        JOptionPane.showMessageDialog(null, "User Added");
        txtname.setText("");
        txtusername.setText("");
        txtpassword.setText("");
    }
}

```

```
        txtname.requestFocus();
        load_user();
    } catch (SQLException ex) {
        Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
    }
}
```

```
}
```

```
private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    this.setVisible(false);
}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String id=txtuid.getText();
    String name=txtname.getText();
    String username=txtusername.getText();
    String password=txtpassword.getText();
    try {
        pst=con.prepareStatement("update user set
name=?,username=?,password=? where uid= ?");
        pst.setString(1, name);
        pst.setString(2, username);
        pst.setString(3, password);
        pst.setString(4, id);
        //pst.setString(4, id);
        pst.executeUpdate();
        JOptionPane.showMessageDialog(null,"User Edited");
        txtname.setText("");
        txtusername.setText("");
        txtpassword.setText("");
        txtname.requestFocus();
    }
```

```

        //autoID();
        load_user();
        jButton1.setEnabled(false);
    } catch (SQLException ex) {
        Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
    }
}

```

```

private void jTable3MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    d=(DefaultTableModel)jTable3.getModel();
    int selectIndex=jTable3.getSelectedRow();
    txtuid.setText(d.getValueAt(selectIndex, 0).toString());
    txtname.setText(d.getValueAt(selectIndex, 1).toString());
    txtusername.setText(d.getValueAt(selectIndex, 2).toString());
    jButton1.setEnabled(false);

}

```

```

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    txtuid.setText("");
    txtname.setText("");
    txtusername.setText("");
    txtpassword.setText("");
    load_user();
    jButton1.setEnabled(true);
}

```

```

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String userid=txtuid.getText();

```

```

try {
    pst=con.prepareStatement("delete from user where uid=?");
    pst.setString(1, userid);
    pst.executeUpdate();
    JOptionPane.showMessageDialog(null,"User Deleted");
    txtuid.setText("");
    txtname.setText("");
    txtusername.setText("");
    txtpassword.setText("");
    //autoID();
    load_user();
    jButton1.setEnabled(false);
} catch (SQLException ex) {
    Logger.getLogger(room.class.getName()).log(Level.SEVERE, null, ex);
}
}

```

```

private void txtuidKeyPressed(java.awt.event.KeyEvent evt) {
    // TODO add your handling code here:
    jButton1.setVisible(false);
    jButton3.setVisible(false);
}

```

```

private void txtuidActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    jButton1.setVisible(false);
    jButton3.setVisible(false);
}

```

```

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

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

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

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

```
// Variables declaration - do not modify
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.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.JPanel jPanel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable3;
private javax.swing.JTextField txtname;
private javax.swing.JPasswordField txtpassword;
private javax.swing.JTextField txtuid;
private javax.swing.JTextField txtusername;
// End of variables declaration
}
```

phpMyAdmin

Recent Favorites

New

hotelmanagement

New

reservation

room

user

information\_schema

mysql

performance\_schema

phpmyadmin

test

Server: 127.0.0.1 Database: hotelmanagement

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Designer

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> reservation		4	InnoDB	utf8mb4_general_ci	16.0 K	-
<input type="checkbox"/> room		4	InnoDB	utf8mb4_general_ci	16.0 K	-
<input type="checkbox"/> user		3	InnoDB	utf8mb4_general_ci	16.0 K	-
3 tables	Sum	11	InnoDB	utf8mb4_general_ci	48.0 K	0 B

☐ Check all With selected:

Print Data dictionary

Create new table

Table name

Number of columns

4

Create

Console



## **4. Testing**

During the development of this project, we found out that there are several types of bugs that may be encountered and they are as follows:

**Syntax errors:** These are errors that occur when the code is not written correctly and the Java compiler is unable to understand it. These errors can be fixed by reviewing the code and correcting any syntax errors.

**Logical errors:** These are errors that occur when the code is written correctly but the logic is not correct. For example, a function to calculate the total bill may be incorrect. Logical errors can be fixed by reviewing the code and identifying the incorrect logic, then correcting it.

**Runtime errors:** These are errors that occur when the code is executed and there is an issue with the runtime environment, such as a missing library or class. These errors can be fixed by reviewing the code and identifying the missing resource, then adding it to the environment.

**Concurrency errors:** These are errors that occur when multiple threads are accessing the same resource simultaneously, such as a database or file, and there is a conflict or race condition. These errors can be fixed by implementing proper synchronization techniques, such as using locks or semaphores, to control access to the shared resource.

**Input validation errors:** These are errors that occur when the system does not properly validate user input, such as allowing a user to enter negative numbers for a room rate. These errors can be fixed by implementing proper input validation checks in the code.

**Security errors:** These are errors that occur due to lack of proper security measures, such as not properly encrypting sensitive data. These errors can

be fixed by implementing proper security measures, such as using encryption and secure authentication methods.

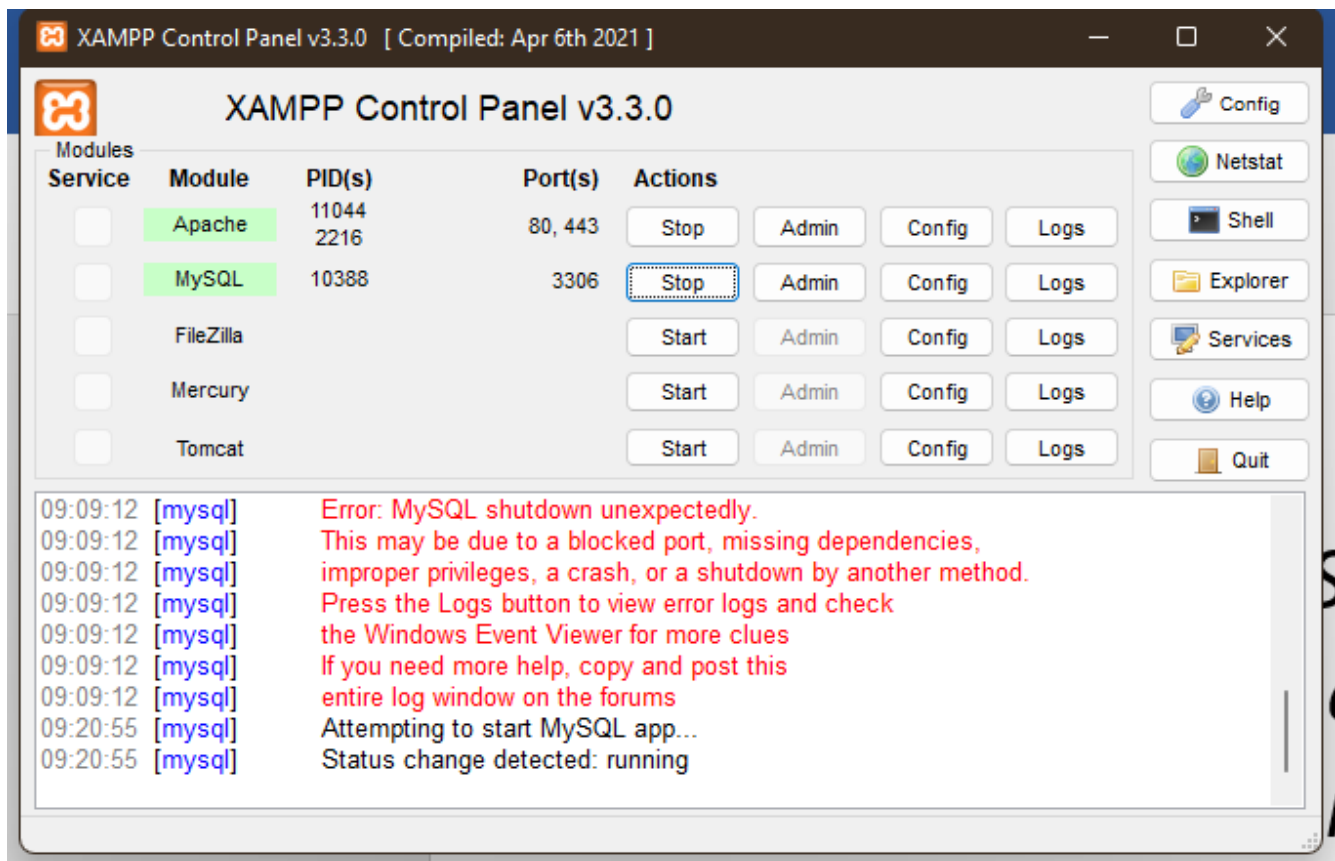
User interface errors: These are errors that occur in the user interface, such as buttons not working as intended or incorrect labels being displayed. These errors can be fixed by reviewing the user interface design and ensuring that it is functioning as intended.

Before the final release of the software, you have to do all the necessary testing procedures for a safe and secured system.

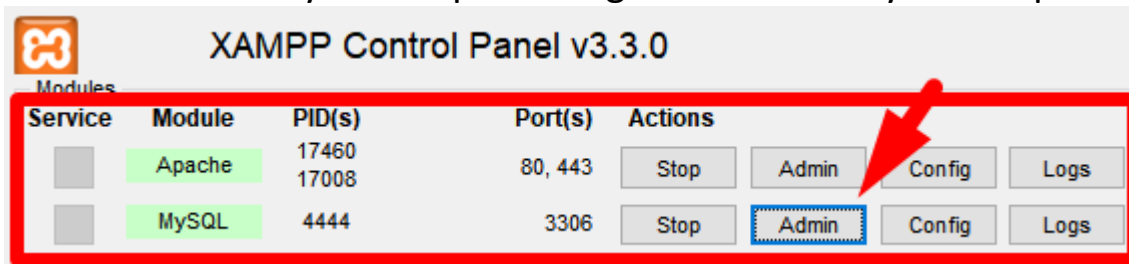
## **5.Deployment**

In this process we have done our java project using computer software application which is NetBeans IDE, it's installation is having the application we deployed and then run it as well in the computer.

During the testing session we found out that it was a great idea because we met some difficulties with the connecting the application with database after deploying our application. Then after the testing session we found out that the error was in our xampp database server as it is shown.



This was solved by the help of doing the research by the help of internet.



As for our system to operate and function well, we did an ongoing performance monitoring daily, so that we can make sure that every error and bugs are well removed and now we have a well working computer application, to apply this HOTEL MANAGEMENT SYSTEM, you just have to run it and run your business