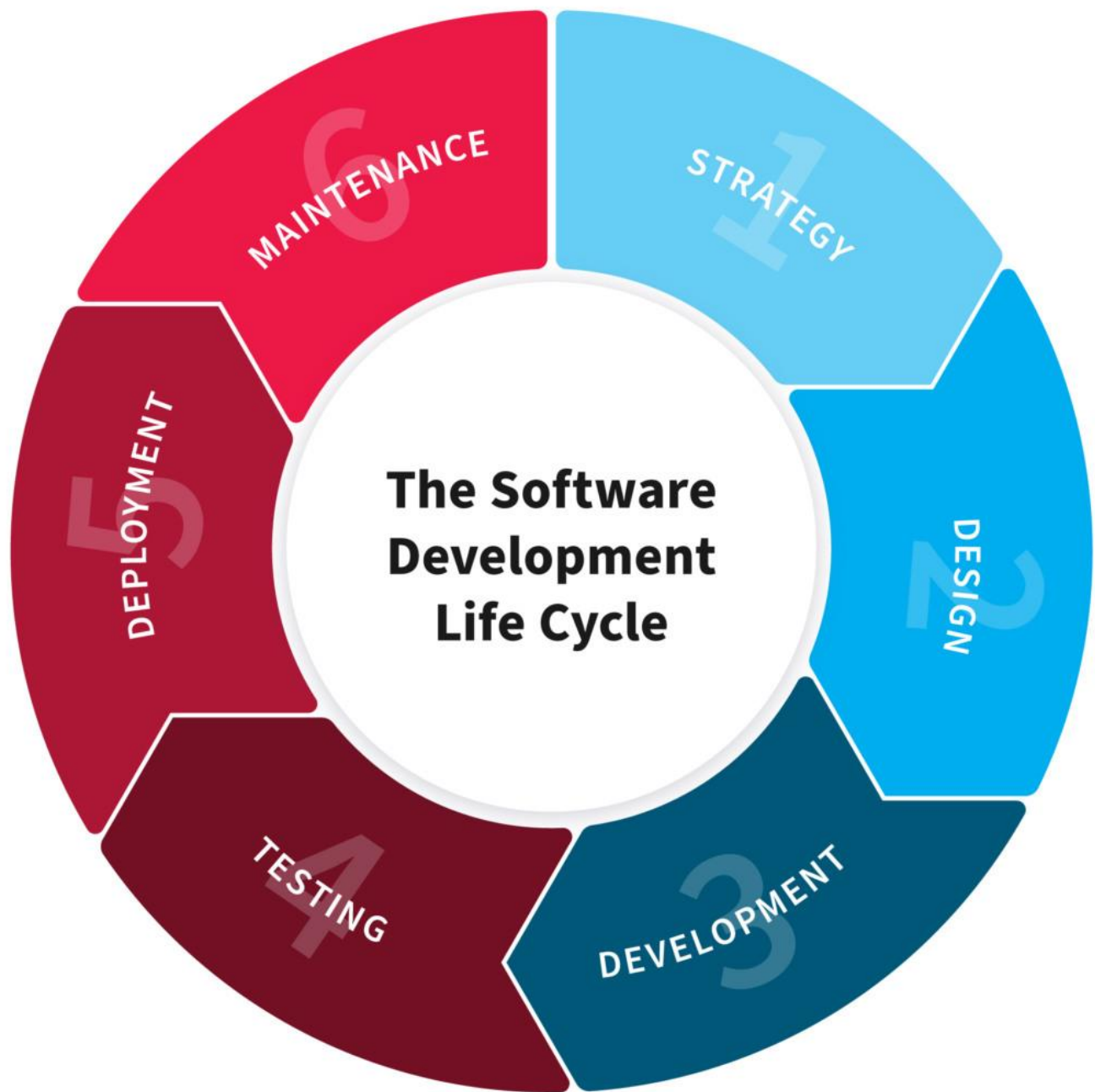


FORMAT TO REPORT YOUR ADVANCED JAVA PROGRAMMING PROJECTS



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CLASS NO: Group2

PROJECT NAME:

Hotel Management System

1.PLANNING

“In this Section, Students, have to define the system (your projects) goals and objectives and the problems the future system needs to solve.”

1.1 What is a hotel management system?

A Hotel management system (HMS) is software that facilitates a hotel's reservation management.

Hotel management system project is to automate day by day activities of hotels like room activities, admission of new customers according to their demand and manage records of checkout and billing.

Hotel management system project is developed for smooth running and management of hotels. First, we gathered information about the process from several hotels managed by both computerized and manual system. After detailed analysis of the data collected the entitled Hotel Management System project was developed to be helpful in managing hotel and reduce the work load of employees.

Key functions of the reservation module include:

- ❖ **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
- ❖ **Reservations:** Then it schedules bookings and displays information about current and upcoming bookings on a dashboard.

- ❖ **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

- The main objective of this java project is to ensure reliable and efficient communication within hotel and avoid common input errors done by hotel staff.
- This project also aims and fast and easy retrieval of hotel guest records for faster reference activities
- Third main important objective of hotel management system project is to enforce security measures to avoid unauthorized access to the customer record.

1.3 Problems that system (HMS) will solve

Some hotels offer their services manually so that they require more time to achieve their goals and purposes on time; this affects the development of the hotels. To reduce those lateness and time spending, the social economy of our country must be based on the use of information communication and technology (ICT) to carry out their daily activity.

This system will also avoid common input errors done by hotel staff and enforce security measures to avoid unauthorized access to the customer record.

So, I am going to build Hotel Management System (HMS) that handle reservations, front- and back-office operations, channel management, and more.

2. DESIGN

“In this Section, students need to elaborate how the system will work, focusing on software design and how it works with the technical and functional requirements of the system. Depicts also how your team defined how users will interact with the software.”

System Requirements

Functional and non-functional(technical) criteria are the two types of requirements that the hotel management system must meet.

2.1. Functional Requirements

Functional requirements determine what the system should do. This will be the core functionality of the target 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.

2.2. Technical Requirements

Technical requirements determine how/ how well / to what extent something should be done. This will normally determine the quality of the system.

Technical requirements of Hotel Management System are the following:

- ❖ **Safety requirements:** there are several user levels in Hotel Management System. Access to the various subsystems will be protected by a user login screen that requires a username and password.

This gives view and accessible functions of user level through the system.

- ❖ **Security requirements:** customers service representatives, managers and owner will be able to log in to the Hotel Management System.

Customer service representatives will have access to the reservation/booking and subsystems.

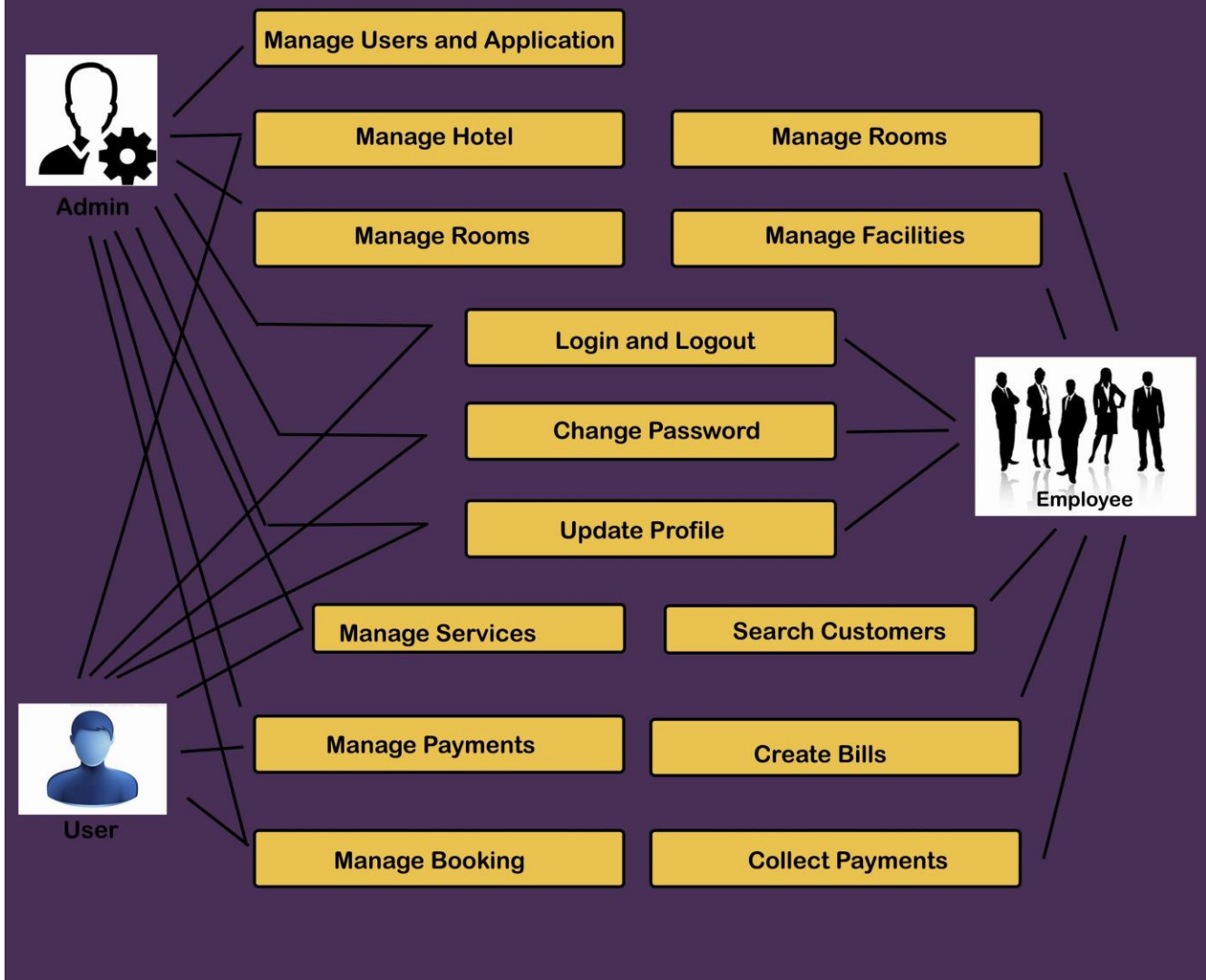
Managers will have the access of management system as well as the reservation/booking subsystems.

Owner has the maximum privilege to all subsystems. Access to the various subsystems will be protected by a user log in screen that requires a username and password.

2.3 Use Case Diagram of Hotel Management System

This Use Case Diagram depicts the relationships between the pieces of the Hotel Management System graphically. It is the process used in system analysis to discover, clarify, and organize Hotel Management System requirements. The major components of the Hotel Management System UML use case diagram are depicted in the graphic below.

Use Case Diagram of Hotel Management System

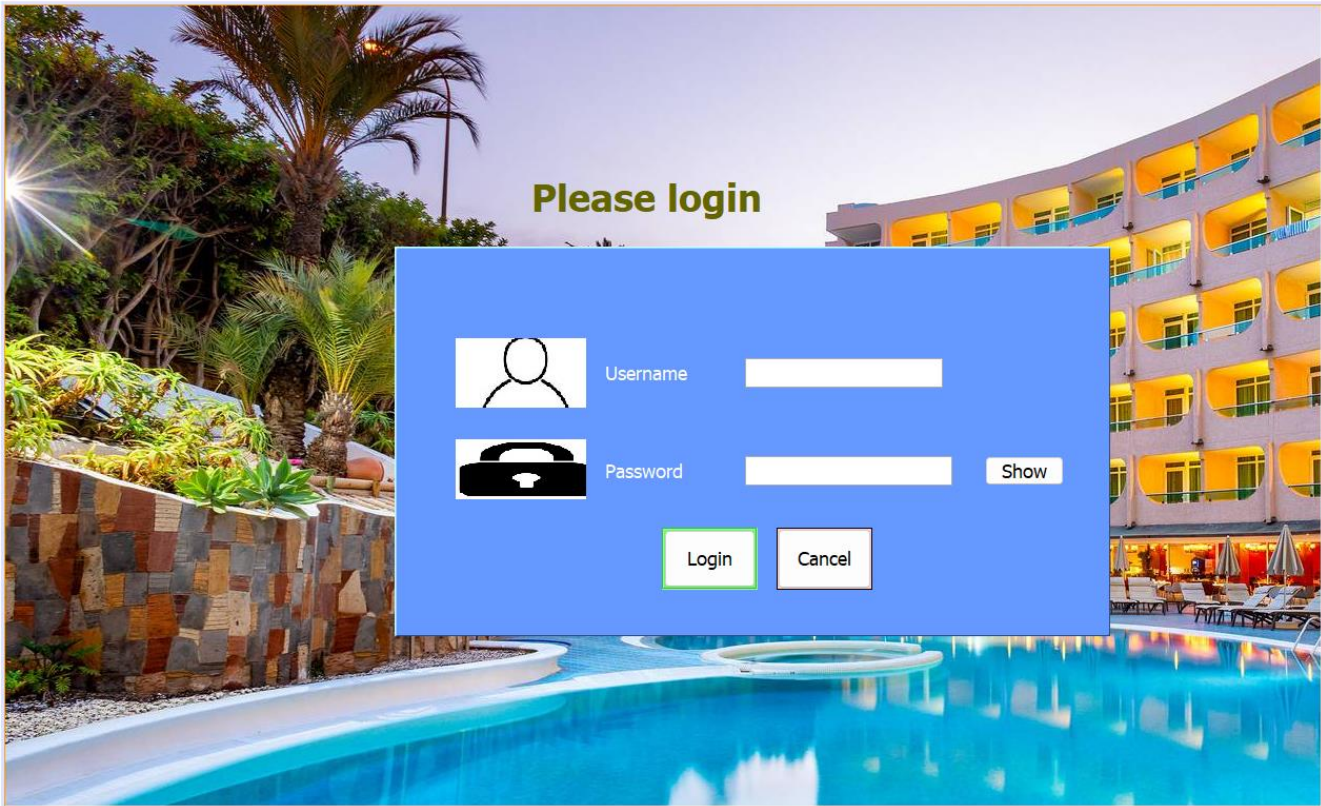


3. Development

“In this Section, Students need to elaborate how they build the entire system (Front end- back-end technologies), chosen libraries, platforms, storage and databases, adopted technologies, etc...”

To build this project we used java project and NetBeans IDE pc software application as text editor and jframes. Database we used is Xampp server, PHPmyadmin to record our data of our system and other library for dates we will provide website where we found other library we used that wasn't built in the NetBeans IDE

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.Align
ment.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.Align
ment.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.Align
ment.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 jToggleButton1MouseClicked(java.awt.event.MouseEvent evt)
{
    // TODO add your handling code here:
    if(jToggleButton1.isSelected()){
        txtpass.setEchoChar((char)0);
        jToggleButton1.setText("Hide");
    }
}

```

```

    }else{
        txtpass.setEchoChar('\u25cf');
        jToggleButton1.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
```

```
}
```

Hotel Management System

Add Room

Reservation

User Creation

Logout

```
/*
```

```
 * 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.LEADING, 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

Room no

R0001

Room type

A/c

Bed type

Single

Amount

5000

Save

Edit

Delete

Clear

Close

| 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/hotelmanagement", "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<>();
    txtbtype = 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", " " }));
```

```
txbttype.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.Align
nment.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.Align
nment.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(txttype,
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.Alignment.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.Alignment.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.Alignment.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.setViewportView(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.LEADING)
            .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.getSelectedItem().toString();
    String bedtype=txtbtype.getSelectedItem().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.logging.
        Level.SEVERE, null, ex);
```

```
    } catch (InstantiationException ex) {
```

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

```
    } catch (IllegalAccessException ex) {
```

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

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
        java.util.logging.Logger.getLogger(room.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 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 |

/*

* 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.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("Reservation 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)

```

```

        .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);
txbttype.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);
    txbttype.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) {
```

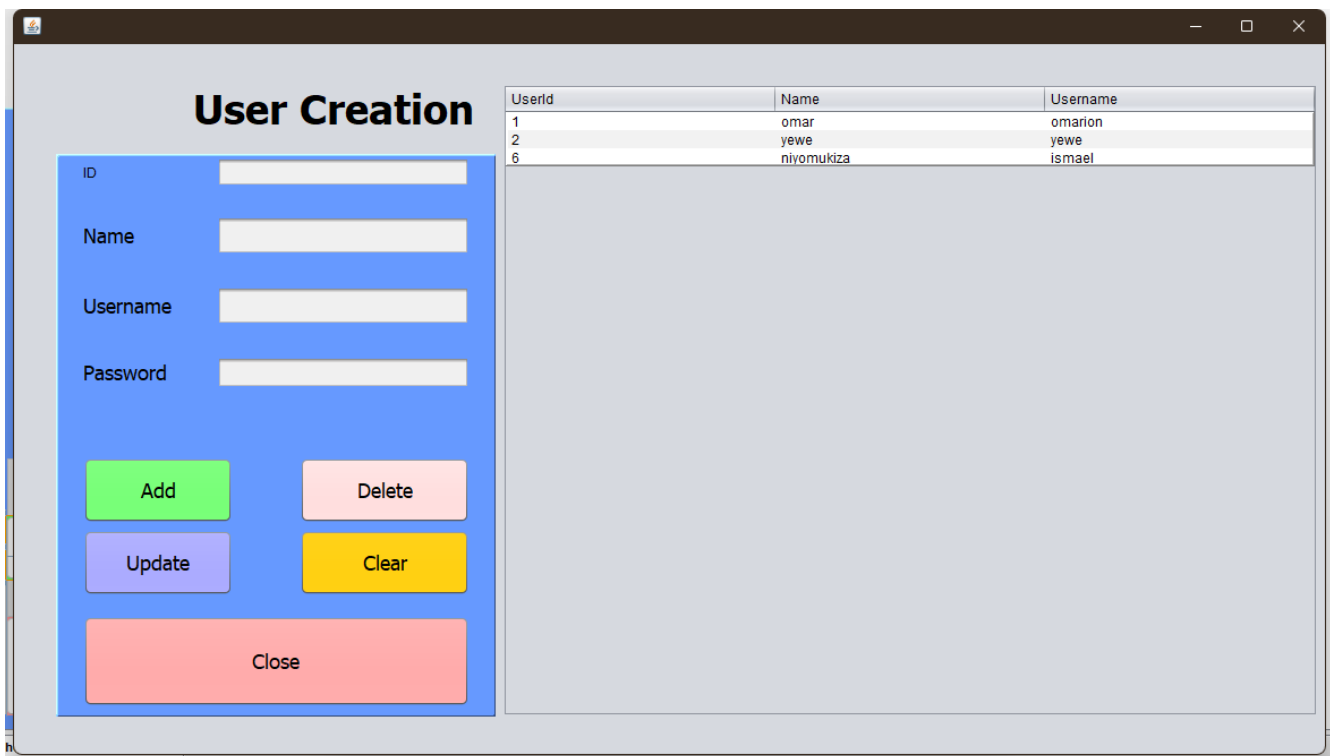
```
java.util.logging.Logger.getLogger(reservation.class.getName()).log(java.util.l  
ogging.Level.SEVERE, null, ex);  
    }  
    //</editor-fold>
```

```
    /* 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.LEA
DING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.Gro
upLayout.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.s
wing.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.Compone
ntPlacement.RELATED,
59, Short.MAX_VALUE)
                    )
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.Gro
upLayout.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.Alignment.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.Alignment.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.Alignment.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

“In this Section, Students to show the way this stage was conducted. Ensuring that everything works as expected. Which defects and bugs you found, and how did you fixed them to ensure that the product meets the original specifications.”

When building a hotel management system in Java, there are several types of bugs that may be encountered. Some common bugs that may be found include:

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.

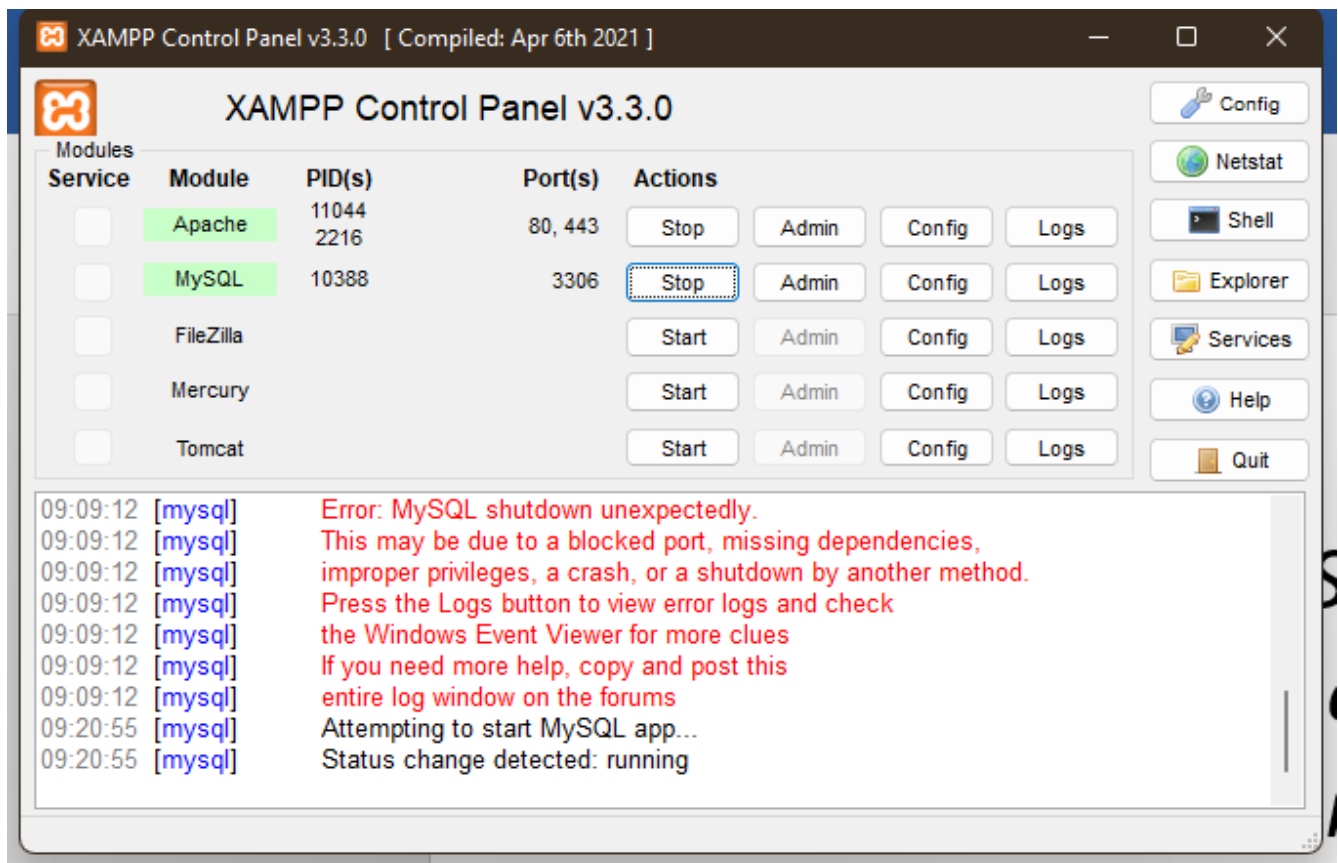
It's important to have a thorough testing process in place to catch these bugs and fix them before the final release of the software.

5.Deployment

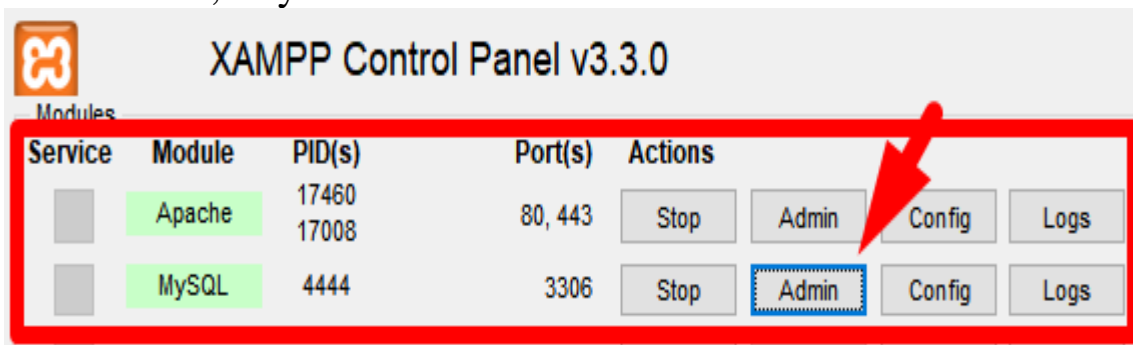
“In this Section, Students have to describe how, installation, testing, deployment, and performance monitoring were conducted in their own respective laptop or desktop. “

We have deployed our java project using pc software application called NetBeans IDE, the way you can Install it, is having the application we deployed and then run it as well.

The testing was great thing, because we did get some difficulty about connect the application with database after deploying our application. But the good thing we found is the error was in our xampp database server as you can see.



MySQL shutdown unexpectedly and I went on the internet to find help, and then fixed it, as you can see it below.



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 pc application, if you want to use HOTEL MANAGEMNT SYSTEM, you just have to run it and run your business.