HOTEL MANAGEMENT SYSTEM

A MINI PROJECT REPORT

Submitted by

PAVIT AJEY R	220701195
PRANNOV SHABARI N	220701197

In partial fulfillment for the award of **degree**

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

RAJALAKSHMI ENGINEERING COLLEGE, CHENNAI

An Autonomous Institute

CHENNAI – 602105

NOV-DEC

2023-2024

BONAFIDE CERTIFICATE

Certified that this project report **"LIBRARY MANAGEMENT SYSTEM"** is the Bonafide work of **"PAVIT AJEY R (220701197), PRANNOV SHABARI N (220701197)"** who carried out the project work under my supervision.

SIGNATURE.   SIGNATURE:

Dr. SABITHA R   Mrs. KALPANA D

Professor.   Assistant Professor

Computer Science and Engineering   Computer Science and Engineering,

Rajalakshmi Engineering College.   Rajalakshmi Engineering College

(Autonomous),   Autonomous,

Thandalam, Chennai-620 105.   Thandalam, Chennai-620 105

Submitted for the Practical examination to be Held on _____

INTERNAL EXAMINER   EXTERNAL EXAMINER

ABSTRACT

HOTEL management system is a simple console application using linked list in JDBC programming language.

The system aims to streamline various aspects of hotel operations, including room booking, guest check-in and check-out, billing, and inventory management. By integrating these functionalities into a single platform, the HMS enhances operational efficiency, reduces manual errors, and improves customer satisfaction.

The system is built using a client-server architecture, where the client interface is developed using a user-friendly web-based application. The backend server, designed with robust and scalable technologies, handles data processing, storage, and retrieval. Key features of the HMS include real-time room availability tracking, automated billing processes, customer relationship management (CRM), and detailed reporting and analytics tools.

In addition to these core functionalities, the system incorporates security measures to protect sensitive guest data and ensure compliance with industry standards. The implementation of role-based access control (RBAC) ensures that only authorized personnel can access specific modules and functions within the system.

Extensive testing has been conducted to validate the system's performance, reliability, and usability. Feedback from initial deployment in a pilot hotel has shown significant improvements in operational efficiency and guest satisfaction. The HMS is designed to be scalable, making it suitable for deployment in hotels of various sizes, from small boutique hotels to large international chains.

Overall, the Hotel Management System represents a significant advancement in the hospitality industry's approach to managing hotel operations, offering a comprehensive, efficient, and secure solution to meet the evolving needs of modern hotels.

TABLE OF CONTENTS

8.CONCLUSION

INTRODUCTION

The system aims to streamline various aspects of hotel operations, including room booking, guest check-in and check-out, billing, and inventory management. By integrating these functionalities into a single platform, the HMS enhances operational efficiency, reduces manual errors, and improves customer satisfaction.

The system is built using a client-server architecture, where the client interface is developed using a user-friendly web-based application. The backend server, designed with robust and scalable technologies, handles data processing, storage, and retrieval. Key features of the HMS include real-time room availability tracking, automated billing processes, customer relationship management (CRM), and detailed reporting and analytics tools.

In addition to these core functionalities, the system incorporates security measures to protect sensitive guest data and ensure compliance with industry standards. The implementation of role-based access control (RBAC) ensures that only authorized personnel can access specific modules and functions within the system.

Extensive testing has been conducted to validate the system's performance, reliability, and usability. Feedback from initial deployment in a pilot hotel has shown significant improvements in operational efficiency and guest satisfaction. The HMS is designed to be scalable, making it suitable for deployment in hotels of various sizes, from small boutique hotels to large international chains.

Overall, the Hotel Management System represents a significant advancement in the hospitality industry's approach to managing hotel operations, offering a comprehensive, efficient, and secure solution to meet the evolving needs of modern hotels.

SURVEY OF TECHNOLOGIES

Database Management Systems (DBMS)

- Relational Databases (RDBMS): SQL-based databases like MySQL, PostgreSQL, and Microsoft SQL Server are commonly used due to their reliability, ACID compliance, and ability to handle complex queries.
- NoSQL Databases: Systems like MongoDB and Cassandra offer flexibility and scalability for managing unstructured data, which can be beneficial for handling large volumes of diverse hotel data.

Frontend Technologies

- Web Technologies: HTML5, CSS3, and JavaScript (along with frameworks like React, Angular, or Vue.js) are used to create intuitive, responsive, and user-friendly web interfaces.

Backend Technologies

- Server-side Languages: Java, DBMS are popular choices for building the server-side logic of HMS. These languages support robust application development and integration with various services.

Analytics and Reporting

- Business Intelligence Tools: Tools like Tableau, Power BI, and Google Data Studio provide advanced analytics and visualization capabilities, helping hotel managers make data-driven decisions.
- Machine Learning: Machine learning algorithms can be employed for predictive analytics, customer behavior analysis, and personalized marketing.

Communication Technologies

- CRM Systems: Integration with CRM tools like Salesforce or HubSpot allows for better management of guest interactions and personalized service.
- Messaging Platforms: Incorporating messaging services like Twilio or Firebase Cloud Messaging enables efficient communication with guests through SMS, emails, and push notifications.

REQUIREMENTS AND ANALYSIS

1. Functional Requirements

A. Room Booking and Reservation

- Online Booking: Guests should be able to book rooms online through a user-friendly interface.
- Room Availability: Real-time updates on room availability status.
- Booking Management: Modify, cancel, and confirm bookings easily.

B. Guest Management

- Check-in/Check-out: Streamlined processes for guest check-in and check-out.

- Guest Profiles: Maintain detailed guest profiles, including personal information, stay history, and preferences.
- Loyalty Programs: Support for loyalty programs and reward management.

C. Inventory Management

- Stock Management: Monitor and manage inventory for housekeeping, kitchen, and other departments.
- Order Tracking: Track orders and manage supplier information.

D. Housekeeping Management

- Task Scheduling: Schedule and assign housekeeping tasks efficiently.
- Room Status: Update and track the status of rooms (cleaned, in-service, etc.).

E. Reporting and Analytics

- Standard Reports: Generate reports on occupancy rates, revenue, expenses, etc.
- Custom Reports: Allow for custom report generation based on specific criteria.

REQUIREMENT SPECIFICATION

If x86 or AMD64/x64, requires a 1.6 GHz or faster processor.

Requires 1 GB of RAM (1.5 GB if running on a virtual machine)

Requires 1 GB of available hard disk space. Requires 1024 by 768 or higher display resolution

HARDWARE AND SOFTWARE REQUIREMENTS

1. Hardware Requirements

A. Server

- Specifications:
    - Processor: Multi-core processor (e.g., Intel Xeon or AMD EPYC)
    - RAM: Minimum 16 GB, scalable up to 64 GB or more
    - Storage: SSD storage with RAID configuration, starting at 500 GB, expandable as needed
    - Network: Gigabit Ethernet connectivity
- Purpose:
    - Host the HMS backend, database, and web server
    - Ensure high availability and reliability

B. Client Machines

- Specifications:
    - Processor: Dual-core or higher
    - RAM: Minimum 4 GB
    - Storage: 128 GB SSD or higher
    - Network: Ethernet/Wi-Fi connectivity
- Purpose:
    - Access the HMS interface (for front desk, housekeeping, and administrative staff)
    - Perform day-to-day operations

C. Networking Equipment

- Router/Switch: High-speed routers and managed switches to ensure robust network connectivity.

PROGRAM CODE

LOGIN PAGE

```
/*
 * To change this license header, choose License Headers in Project Properties.
```

```java
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package hotel.management.system;


import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
import java.sql.*;

public class Login extends JFrame implements ActionListener{

    JLabel l1,l2;
    JTextField t1;
    JPasswordField t2;
    JButton b1,b2;

    Login(){

        super("Login");

        setLayout(null);

        l1 = new JLabel("Username");
        l1.setBounds(40,20,100,30);
        add(l1);

        l2 = new JLabel("Password");
        l2.setBounds(40,70,100,30);
        add(l2);

        t1=new JTextField();
        t1.setBounds(150,20,150,30);
        add(t1);

        t2=new JPasswordField();
        t2.setBounds(150,70,150,30);
        add(t2);

        ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/second.j
pg"));
        Image i2 =
```

```java
i1.getImage().getScaledInstance(200,200,Image.SCALE_DEFAULT);
        ImageIcon i3 =  new ImageIcon(i2);
        JLabel l3 = new JLabel(i3);
        l3.setBounds(350,10,150,150);
        add(l3);


        b1 = new JButton("Login");
        b1.setBounds(40,140,120,30);
        b1.setFont(new Font("serif",Font.BOLD,15));
        b1.addActionListener(this);
        b1.setBackground(Color.BLACK);
        b1.setForeground(Color.WHITE);
        add(b1);

        b2=new JButton("Cancel");
        b2.setBounds(180,140,120,30);
        b2.setFont(new Font("serif",Font.BOLD,15));
        b2.setBackground(Color.BLACK);
        b2.setForeground(Color.WHITE);
        add(b2);


        b2.addActionListener(this);


        getContentPane().setBackground(Color.WHITE);

        setVisible(true);
        setSize(600,300);
        setLocation(600,350);

    }

    public void actionPerformed(ActionEvent ae){
        if(ae.getSource()==b1){
        try{
            conn c1 = new conn();
            String u = t1.getText();
            String v = t2.getText();

            String q = "select * from login where username='"+u+"' and
password='"+v+"'";

            ResultSet rs = c1.s.executeQuery(q);
```

```java
            if(rs.next()){
                new Dashboard().setVisible(true);
                setVisible(false);
            }else{
                JOptionPane.showMessageDialog(null, "Invalid login");
                setVisible(false);
            }
        }catch(Exception e){
            e.printStackTrace();
        }
        }else if(ae.getSource()==b2){
            System.exit(0);
        }
    }
    public static void main(String[] arg){
        new Login();
    }
}
//
//import java.awt.EventQueue;
//import java.sql.*;
//import javax.swing.*;
//import java.awt.event.ActionListener;
//import java.awt.event.ActionEvent;
//import java.awt.Image;
//
//public class Login {
//Connection conn = null;
//ResultSet rs = null;
//PreparedStatement pst = null;
//
//  private JFrame frame;
//  private JTextField txt_username;
//  private JPasswordField txt_password;
//
//  /**
//   * Launch the application.
//   */
//  public static void main(String[] args) {
//      EventQueue.invokeLater(new Runnable() {
//          public void run() {
//              try {
//                  Login window = new Login();
//                  window.frame.setVisible(true);
//              } catch (Exception e) {
```

```
//                    e.printStackTrace();
//                }
//            }
//        });
//    }
//
//    /**
//     * Create the application.
//     * @throws SQLException
//     */
//    public Login() throws SQLException {
//        initialize();
//        //conn = Javaconnect.getDBConnection();
//    }
//    public void close(){
//        this.frame.dispose();
//    }
//
//    /**
//     * Initialize the contents of the frame.
//     */
//    private void initialize() {
//        frame = new JFrame();
//        frame.setBounds(100, 100, 683, 445);
//        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
//        frame.getContentPane().setLayout(null);
//
//        JLabel lblUsername = new JLabel("Username:");
//        lblUsername.setBounds(357, 114, 67, 27);
//        frame.getContentPane().add(lblUsername);
//
//        JLabel lblPassword = new JLabel("Password:");
//        lblPassword.setBounds(357, 187, 67, 27);
//        frame.getContentPane().add(lblPassword);
//
//        txt_username = new JTextField();
//        txt_username.setBounds(419, 117, 86, 20);
//        frame.getContentPane().add(txt_username);
//        txt_username.setColumns(10);
//
//        JButton btnLogin = new JButton("Login");
//        btnLogin.addActionListener(new ActionListener() {
//            public void actionPerformed(ActionEvent arg0) {
//                String loginsql = "select * from Manager where m_name=? and
password=?";
```

```
////                    try{
////                         pst = conn.prepareStatement(loginsql);
////                         pst.setString(1, txt_username.getText());
////                         pst.setString(2, txt_password.getText());
////
////                         rs = pst.executeQuery();
////                         if(rs.next()){
////                             JOptionPane.showMessageDialog(null, "Login
Successful");
////                             Manager manager = new Manager();
////                             manager.setVisible(true);
////                             close();
////                         }
////                         else
////                         {
////                             JOptionPane.showMessageDialog(null, "Username and
Password is incorrect");
////                         }
////                    }
////                  catch(Exception e){
////                       JOptionPane.showMessageDialog(null, "Username and
Password is incorrect");
////                    }
//           }
//        });
//        btnLogin.setBounds(400, 275, 89, 23);
//        frame.getContentPane().add(btnLogin);
//
//        txt_password = new JPasswordField();
//        txt_password.setBounds(418, 190, 87, 20);
//        frame.getContentPane().add(txt_password);
//    }
//}
```

MANAGER INFO

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

import java.awt.BorderLayout;
import java.awt.*;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;

import net.proteanit.sql.DbUtils;

import javax.swing.JTable;
import java.sql.*;
import javax.swing.*;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class ManagerInfo extends JFrame {
    Connection conn = null;
    private JPanel contentPane;
    private JTable table;
    private JLabel lblNewLabel;
    private JLabel lblJob;
    private JLabel lblName;
    private JLabel lblDepartment;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    ManagerInfo frame = new ManagerInfo();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
```

```java
    public void close()
    {
        this.dispose();
    }
    /**
     * Create the frame.
     * @throws SQLException
     */
    public ManagerInfo() throws SQLException {
        //conn = Javaconnect.getDBConnection();
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(430, 200, 1000, 600);
        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
        contentPane.setLayout(null);

        table = new JTable();
        table.setBounds(0, 34, 1000, 450);
        contentPane.add(table);

        JButton btnLoadData = new JButton("Load Data");
        btnLoadData.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                try{
                                    conn c = new conn();
                    String displayCustomersql = "select * from Employee where job =
'Manager'";
                    ResultSet rs = c.s.executeQuery(displayCustomersql);
                    table.setModel(DbUtils.resultSetToTableModel(rs));
            }
                catch(Exception e1){
                    e1.printStackTrace();
                }
            }

        });
        btnLoadData.setBounds(350, 500, 120, 30);
                btnLoadData.setBackground(Color.BLACK);
                btnLoadData.setForeground(Color.WHITE);
        contentPane.add(btnLoadData);

        JButton btnExit = new JButton("Back");
        btnExit.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
```

```java
            new Reception().setVisible(true);
                            setVisible(false);
        }
    });
    btnExit.setBounds(510, 500, 120, 30);
            btnExit.setBackground(Color.BLACK);
            btnExit.setForeground(Color.WHITE);
    contentPane.add(btnExit);

    lblNewLabel = new JLabel("Name");
    lblNewLabel.setBounds(41, 11, 46, 14);
    contentPane.add(lblNewLabel);

    lblJob = new JLabel("Age");
    lblJob.setBounds(159, 11, 46, 14);
    contentPane.add(lblJob);

    lblName = new JLabel("Gender");
    lblName.setBounds(273, 11, 46, 14);
    contentPane.add(lblName);

    lblDepartment = new JLabel("Job");
    lblDepartment.setBounds(416, 11, 86, 14);
    contentPane.add(lblDepartment);

            JLabel l1 = new JLabel("Salary");
    l1.setBounds(536, 11, 86, 14);
    contentPane.add(l1);

            JLabel l2 = new JLabel("Phone");
    l2.setBounds(656, 11, 86, 14);
    contentPane.add(l2);

            JLabel l3 = new JLabel("Aadhar");
    l3.setBounds(786, 11, 86, 14);
    contentPane.add(l3);

            JLabel l4 = new JLabel("Gmail");
    l4.setBounds(896, 11, 86, 14);
    contentPane.add(l4);

            getContentPane().setBackground(Color.WHITE);
    }
}
```

NEW COUSTOMER

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

import java.awt.BorderLayout;
import java.awt.*;
import java.awt.EventQueue;

import javax.swing.border.EmptyBorder;

import java.awt.Font;
import java.awt.Image;
import java.sql.*;
import javax.swing.*;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class NewCustomer extends JFrame {
    Connection conn = null;
    PreparedStatement pst = null;
    private JPanel contentPane;
    private JTextField t1,t2,t3,t4,t5,t6;
        JComboBox comboBox;
        JRadioButton r1,r2;
        Choice c1;
    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    NewCustomer frame = new NewCustomer();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
```

```java
public NewCustomer() throws SQLException {

            setBounds(530, 200, 850, 550);
    contentPane = new JPanel();
    setContentPane(contentPane);
    contentPane.setLayout(null);

            ImageIcon i1  = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/fifth.pn
g"));
            Image i3 = i1.getImage().getScaledInstance(300,
400,Image.SCALE_DEFAULT);
            ImageIcon i2 = new ImageIcon(i3);
            JLabel l1 = new JLabel(i2);
            l1.setBounds(480,10,300,500);
            add(l1);

    JLabel lblName = new JLabel("NEW CUSTOMER FORM");
    lblName.setFont(new Font("Yu Mincho", Font.PLAIN, 20));
    lblName.setBounds(118, 11, 260, 53);
    contentPane.add(lblName);

            JLabel lblId = new JLabel("ID :");
    lblId.setBounds(35, 76, 200, 14);
    contentPane.add(lblId);

            comboBox = new JComboBox(new String[] {"Passport", "Aadhar
Card", "Voter Id", "Driving license"});
    comboBox.setBounds(271, 73, 150, 20);
    contentPane.add(comboBox);

            JLabel l2 = new JLabel("Number :");
    l2.setBounds(35, 111, 200, 14);
    contentPane.add(l2);

            t1 = new JTextField();
    t1.setBounds(271, 111, 150, 20);
    contentPane.add(t1);
    t1.setColumns(10);

    JLabel lblName_1 = new JLabel("Name :");
    lblName_1.setBounds(35, 151, 200, 14);
    contentPane.add(lblName_1);

    t2 = new JTextField();
```

```java
t2.setBounds(271, 151, 150, 20);
contentPane.add(t2);
t2.setColumns(10);


JLabel lblGender = new JLabel("Gender :");
lblGender.setBounds(35, 191, 200, 14);
contentPane.add(lblGender);

        r1 = new JRadioButton("Male");
        r1.setFont(new Font("Raleway", Font.BOLD, 14));
        r1.setBackground(Color.WHITE);
        r1.setBounds(271, 191, 80, 12);
        add(r1);

        r2 = new JRadioButton("Female");
        r2.setFont(new Font("Raleway", Font.BOLD, 14));
        r2.setBackground(Color.WHITE);
        r2.setBounds(350, 191, 100, 12);
add(r2);

JLabel lblCountry = new JLabel("Country :");
lblCountry.setBounds(35, 231, 200, 14);
contentPane.add(lblCountry);

JLabel lblReserveRoomNumber = new JLabel("Allocated Room Number :");
lblReserveRoomNumber.setBounds(35, 274, 200, 14);
contentPane.add(lblReserveRoomNumber);

        c1 = new Choice();
        try{
            conn c = new conn();
            ResultSet rs = c.s.executeQuery("select * from room");
            while(rs.next()){
                c1.add(rs.getString("room_number"));
            }
        }catch(Exception e){ }
        c1.setBounds(271, 274, 150, 20);
contentPane.add(c1);

JLabel lblCheckInStatus = new JLabel("Checked-In :");
lblCheckInStatus.setBounds(35, 316, 200, 14);
contentPane.add(lblCheckInStatus);

JLabel lblDeposite = new JLabel("Deposit :");
```

```java
lblDeposite.setBounds(35, 359, 200, 14);
contentPane.add(lblDeposite);




t3 = new JTextField();
t3.setBounds(271, 231, 150, 20);
contentPane.add(t3);
t3.setColumns(10);


t5 = new JTextField();
t5.setBounds(271, 316, 150, 20);
contentPane.add(t5);
t5.setColumns(10);

t6 = new JTextField();
t6.setBounds(271, 359, 150, 20);
contentPane.add(t6);
t6.setColumns(10);

JButton btnNewButton = new JButton("Add");
btnNewButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
                conn c = new conn();
                String radio = null;

                if(r1.isSelected()){
                    radio = "Male";
                }
                else if(r2.isSelected()){
                    radio = "Female";
                }

                String s6 = c1.getSelectedItem();

                try{

                    String s1 = (String)comboBox.getSelectedItem();
            String s2 =  t1.getText();
            String s3 =  t2.getText();
                    String s4 =  radio;
            String s5 =  t3.getText();
```

```java
                    String s7 =  t5.getText();
                            String s8 =  t6.getText();

                            String q1 = "insert into customer
values('"+s1+"','"+s2+"','"+s3+"','"+s4+"','"+s5+"','"+s6+"','"+s7+"','"+s8+"')
";
                            String q2 = "update room set availability =
'Occupied' where room_number = "+s6;
                            c.s.executeUpdate(q1);
                            c.s.executeUpdate(q2);


                    JOptionPane.showMessageDialog(null, "Data Inserted
Successfully");
                            new Reception().setVisible(true);
                            setVisible(false);
                }catch(SQLException e1){
                    System.out.println(e1.getMessage());
                }
                    catch(NumberFormatException s){
                        JOptionPane.showMessageDialog(null, "Please enter a
valid Number");
                }
                }
        });
        btnNewButton.setBounds(100, 430, 120, 30);
                btnNewButton.setBackground(Color.BLACK);
                btnNewButton.setForeground(Color.WHITE);
        contentPane.add(btnNewButton);

        JButton btnExit = new JButton("Back");
        btnExit.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                        new Reception().setVisible(true);
                        setVisible(false);
            }
        });
        btnExit.setBounds(260, 430, 120, 30);
                btnExit.setBackground(Color.BLACK);
                btnExit.setForeground(Color.WHITE);
        contentPane.add(btnExit);

                getContentPane().setBackground(Color.WHITE);
    }
}
```

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



import java.awt.BorderLayout;
import java.awt.*;

import java.sql.*;
import javax.swing.*;
import javax.swing.border.EmptyBorder;

import net.proteanit.sql.DbUtils;

import java.awt.Font;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class PickUp extends JFrame {
    Connection conn = null;
    PreparedStatement pst = null;
    ResultSet rs = null;
    private JPanel contentPane;
    private JTable table;
        Choice c1;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    PickUp frame = new PickUp();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
```

```java
            }
        }
    });
}
public void close()
{
    this.dispose();
}

/**
 * Create the frame.
 * @throws SQLException
 */
public PickUp() throws SQLException {
    //conn = Javaconnect.getDBConnection();
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(530, 200, 800, 600);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);
    contentPane.setLayout(null);

    JLabel lblPickUpService = new JLabel("Pick Up Service");
    lblPickUpService.setFont(new Font("Tahoma", Font.PLAIN, 20));
    lblPickUpService.setBounds(90, 11, 158, 25);
    contentPane.add(lblPickUpService);

    JLabel lblTypeOfCar = new JLabel("Type of Car");
    lblTypeOfCar.setBounds(32, 97, 89, 14);
    contentPane.add(lblTypeOfCar);


        c1 = new Choice();
        try{
            conn c = new conn();
            ResultSet rs = c.s.executeQuery("select * from driver");
            while(rs.next()){
                c1.add(rs.getString("brand"));
            }
        }catch(Exception e){ }
        c1.setBounds(123, 94, 150, 25);
    contentPane.add(c1);
```

```java
JLabel lblInfo = new JLabel("Name");
lblInfo.setBounds(24, 208, 46, 14);
contentPane.add(lblInfo);

JButton btnRegister = new JButton("Display");
btnRegister.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent arg0) {
        String SQL = "select * from driver where brand =
'"+c1.getSelectedItem()+"'";
        try{

            conn c = new conn();
            rs = c.s.executeQuery(SQL);
            table.setModel(DbUtils.resultSetToTableModel(rs));



        }catch (SQLException ss)
        {
            ss.printStackTrace();
        }


    }
});
btnRegister.setBounds(200, 500, 120, 30);
        btnRegister.setBackground(Color.BLACK);
        btnRegister.setForeground(Color.WHITE);
contentPane.add(btnRegister);

JButton btnExit = new JButton("Back");
btnExit.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent arg0) {
        new Reception().setVisible(true);
                        setVisible(false);
    }
});
btnExit.setBounds(420, 500, 120, 30);
        btnExit.setBackground(Color.BLACK);
        btnExit.setForeground(Color.WHITE);
contentPane.add(btnExit);

table = new JTable();
table.setBounds(0, 233, 800, 250);
contentPane.add(table);
```

```java
        JLabel lblNewLabel = new JLabel("Age");
        lblNewLabel.setBounds(165, 208, 46, 14);
        contentPane.add(lblNewLabel);

        JLabel lblGender = new JLabel("Gender");
        lblGender.setBounds(264, 208, 46, 14);
        contentPane.add(lblGender);

        JLabel lblTypeOfDriver = new JLabel("Company");
        lblTypeOfDriver.setBounds(366, 208, 80, 14);
        contentPane.add(lblTypeOfDriver);

        JLabel lblDateOfThe = new JLabel("Brand");
        lblDateOfThe.setBounds(486, 208, 105, 14);
        contentPane.add(lblDateOfThe);

        JLabel lblAirport = new JLabel("Available");
        lblAirport.setBounds(600, 208, 86, 14);
        contentPane.add(lblAirport);

        JLabel lblAvailable = new JLabel("Location");
        lblAvailable.setBounds(700, 208, 73, 14);
        contentPane.add(lblAvailable);



                getContentPane().setBackground(Color.WHITE);
    }
}
RECEPTION

/*
 * 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 hotel.management.system;

import javax.swing.*;

import java.sql.*;
import java.awt.event.*;
import java.awt.*;
```

```java
public class Reception extends JFrame {

    private JPanel contentPane;

    public static void main(String[] args) {
        new Reception();
    }

    public Reception(){

            setBounds(530, 200, 850, 570);
        contentPane = new JPanel();
        setContentPane(contentPane);
        contentPane.setLayout(null);

            ImageIcon i1  = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/fourth.j
pg"));
            Image i3 = i1.getImage().getScaledInstance(500,
500,Image.SCALE_DEFAULT);
            ImageIcon i2 = new ImageIcon(i3);
            JLabel l1 = new JLabel(i2);
            l1.setBounds(250,30,500,470);
            add(l1);

        JButton btnNewCustomerForm = new JButton("New Customer Form");
        btnNewCustomerForm.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                try{
                NewCustomer custom = new NewCustomer();
                custom.setVisible(true);
                            setVisible(false);
            }catch(Exception e1){
                e1.printStackTrace();
            }
            }
        });
        btnNewCustomerForm.setBounds(10, 30, 200, 30);
            btnNewCustomerForm.setBackground(Color.BLACK);
            btnNewCustomerForm.setForeground(Color.WHITE);
        contentPane.add(btnNewCustomerForm);

        JButton btnNewButton = new JButton("Room");
        btnNewButton.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent arg0) {
```

```java
        try{
        Room room = new Room();
        room.setVisible(true);
                        setVisible(false);
        }
        catch(Exception e){
            e.printStackTrace();
        }


    }
});
btnNewButton.setBounds(10, 70, 200, 30);
        btnNewButton.setBackground(Color.BLACK);
        btnNewButton.setForeground(Color.WHITE);

contentPane.add(btnNewButton);

JButton btnNewButton_1 = new JButton("Department");
btnNewButton_1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        try{
            Department dept = new Department();
            dept.setVisible(true);
            setVisible(false);

        }
        catch (Exception e1){
            e1.printStackTrace();
        }


    }
});
btnNewButton_1.setBounds(10, 110, 200, 30);
        btnNewButton_1.setBackground(Color.BLACK);
        btnNewButton_1.setForeground(Color.WHITE);

contentPane.add(btnNewButton_1);

JButton btnNewButton_2 = new JButton("All Employee Info");
btnNewButton_2.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        try{

            Employee em = new Employee();
            em.setVisible(true);
```

```java
                    setVisible(false);

                }
                catch (Exception e1){
                    e1.printStackTrace();
                }

        }
    });
    btnNewButton_2.setBounds(10, 150, 200, 30);
            btnNewButton_2.setBackground(Color.BLACK);
            btnNewButton_2.setForeground(Color.WHITE);

    contentPane.add(btnNewButton_2);

    JButton btnNewButton_3 = new JButton("Customer Info");
    btnNewButton_3.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            try{
                //error --------------------
                CustomerInfo customer = new CustomerInfo();
                customer.setVisible(true);
                setVisible(false);
            }
            catch (Exception e1){
                e1.printStackTrace();
            }
        }
    });
    btnNewButton_3.setBounds(10, 190, 200, 30);
            btnNewButton_3.setBackground(Color.BLACK);
            btnNewButton_3.setForeground(Color.WHITE);

    contentPane.add(btnNewButton_3);

    JButton btnManagerInfo = new JButton("Manager Info");
    btnManagerInfo.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            try{
            ManagerInfo mana = new ManagerInfo();
            mana.setVisible(true);
                        setVisible(false);
            }
            catch (Exception e1){
                e1.printStackTrace();
```

```java
                }
            }
        });
        btnManagerInfo.setBounds(10, 230, 200, 30);
                btnManagerInfo.setBackground(Color.BLACK);
                btnManagerInfo.setForeground(Color.WHITE);

        contentPane.add(btnManagerInfo);

        JButton btnNewButton_4 = new JButton("Check Out");
        btnNewButton_4.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                CheckOut check;
                try {
                    check = new CheckOut();
                    check.setVisible(true);
                                    setVisible(false);
                } catch (SQLException e1) {
                    // TODO Auto-generated catch block
                    e1.printStackTrace();
                }
            }
        });
        btnNewButton_4.setBounds(10, 270, 200, 30);
                btnNewButton_4.setBackground(Color.BLACK);
                btnNewButton_4.setForeground(Color.WHITE);

        contentPane.add(btnNewButton_4);

        JButton btnNewButton_5 = new JButton("Update Check Status");
        btnNewButton_5.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                try{
                UpdateCheck update = new UpdateCheck();
                update.setVisible(true);
                            setVisible(false);
                }
                catch(Exception e1){
                    e1.printStackTrace();
                }
            }
        });
        btnNewButton_5.setBounds(10, 310, 200, 30);
                btnNewButton_5.setBackground(Color.BLACK);
                btnNewButton_5.setForeground(Color.WHITE);
```

```java
contentPane.add(btnNewButton_5);

JButton btnNewButton_6 = new JButton("Update Room Status");
btnNewButton_6.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        try{
            UpdateRoom room = new UpdateRoom();
            room.setVisible(true);
                            setVisible(false);
        }catch(Exception s)
        {
            s.printStackTrace();
        }
    }
});
btnNewButton_6.setBounds(10, 350, 200, 30);
        btnNewButton_6.setBackground(Color.BLACK);
        btnNewButton_6.setForeground(Color.WHITE);

contentPane.add(btnNewButton_6);

JButton btnPickUpSerice = new JButton("Pick up Service");
btnPickUpSerice.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent arg0) {
        try{
        PickUp pick = new PickUp();
        pick.setVisible(true);
                        setVisible(false);
        }
        catch(Exception e){
            e.printStackTrace();
        }
    }
});
btnPickUpSerice.setBounds(10, 390, 200, 30);
        btnPickUpSerice.setBackground(Color.BLACK);
        btnPickUpSerice.setForeground(Color.WHITE);

contentPane.add(btnPickUpSerice);

JButton btnSearchRoom = new JButton("Search Room");
btnSearchRoom.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        try {
```

```java
            SearchRoom search = new SearchRoom();
            search.setVisible(true);
                        setVisible(false);
        }
        catch (Exception ss){
            ss.printStackTrace();
        }
    }
});
btnSearchRoom.setBounds(10, 430, 200, 30);
        btnSearchRoom.setBackground(Color.BLACK);
        btnSearchRoom.setForeground(Color.WHITE);

contentPane.add(btnSearchRoom);

JButton btnNewButton_7 = new JButton("Log Out");
btnNewButton_7.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent ae) {
        try {
                        new Login().setVisible(true);
                        setVisible(false);

        } catch (Exception e) {
            e.printStackTrace();
        }

    }
});
btnNewButton_7.setBounds(10, 470, 200, 30);
        btnNewButton_7.setBackground(Color.BLACK);
        btnNewButton_7.setForeground(Color.WHITE);

contentPane.add(btnNewButton_7);
        getContentPane().setBackground(Color.WHITE);

        setVisible(true);
    }
}
```

ROOM.JAVA

```java
/*
 * To change this license header, choose License Headers in Project Properties.
```

```java
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package hotel.management.system;

import java.awt.BorderLayout;
import java.awt.*;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;

import net.proteanit.sql.DbUtils;

import javax.swing.JTable;
import java.sql.*;
import javax.swing.*;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class Room extends JFrame {
    Connection conn = null;
    private JPanel contentPane;
    private JTable table;
    private JLabel lblAvailability;
    private JLabel lblCleanStatus;
    private JLabel lblNewLabel;
    private JLabel lblNewLabel_1;
    private JLabel lblRoomNumber;
    private JLabel lblId;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    Room frame = new Room();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
```

```java
public Room() throws SQLException {
    //conn = Javaconnect.getDBConnection();
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(450, 200, 1100, 600);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);
    contentPane.setLayout(null);


        ImageIcon i1  = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/eight.jp
g"));
        Image i3 = i1.getImage().getScaledInstance(600,
600,Image.SCALE_DEFAULT);
        ImageIcon i2 = new ImageIcon(i3);
        JLabel l1 = new JLabel(i2);
        l1.setBounds(500,0,600,600);
        add(l1);



    table = new JTable();
    table.setBounds(0, 40, 500, 400);
    contentPane.add(table);

    JButton btnLoadData = new JButton("Load Data");
    btnLoadData.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            try{
                                conn c = new conn();
                String displayCustomersql = "select * from Room";
                //PreparedStatement pst =
conn.prepareStatement(displayCustomersql);
                ResultSet rs = c.s.executeQuery(displayCustomersql);
                table.setModel(DbUtils.resultSetToTableModel(rs));


            }
            catch(Exception e1){
                e1.printStackTrace();
            }
        }
    });
    btnLoadData.setBounds(100, 470, 120, 30);
```

```java
            btnLoadData.setBackground(Color.BLACK);
            btnLoadData.setForeground(Color.WHITE);
        contentPane.add(btnLoadData);

        JButton btnNewButton = new JButton("Back");
        btnNewButton.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                new Reception().setVisible(true);
                            setVisible(false);
            }
        });
        btnNewButton.setBounds(290, 470, 120, 30);
            btnNewButton.setBackground(Color.BLACK);
            btnNewButton.setForeground(Color.WHITE);
        contentPane.add(btnNewButton);

        lblAvailability = new JLabel("Availability");
        lblAvailability.setBounds(119, 15, 69, 14);
        contentPane.add(lblAvailability);

        lblCleanStatus = new JLabel("Clean Status");
        lblCleanStatus.setBounds(216, 15, 76, 14);
        contentPane.add(lblCleanStatus);

        lblNewLabel = new JLabel("Price");
        lblNewLabel.setBounds(330, 15, 46, 14);
        contentPane.add(lblNewLabel);

        lblNewLabel_1 = new JLabel("Bed Type");
        lblNewLabel_1.setBounds(417, 15, 76, 14);
        contentPane.add(lblNewLabel_1);


        lblId = new JLabel("Room Number");
        lblId.setBounds(12, 15, 90, 14);
        contentPane.add(lblId);

            getContentPane().setBackground(Color.WHITE);
    }

}
```

SEARCH ROOM.JAVA

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

import java.awt.BorderLayout;
import java.awt.*;

import java.sql.*;
import javax.swing.*;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;

import net.proteanit.sql.DbUtils;

import java.awt.Font;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class SearchRoom extends JFrame {
    Connection conn = null;
    PreparedStatement pst = null;
    ResultSet rs = null;
    private JPanel contentPane;
    private JTextField txt_Type;
    private JTable table;
        Choice c1;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    SearchRoom frame = new SearchRoom();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
```

```java
    }
    public void close()
    {
        this.dispose();
    }

    /**
     * Create the frame.
     * @throws SQLException
     */
    public SearchRoom() throws SQLException {
        //conn = Javaconnect.getDBConnection();
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(530, 200, 700, 500);
        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
        contentPane.setLayout(null);

        JLabel lblSearchForRoom = new JLabel("Search For Room");
        lblSearchForRoom.setFont(new Font("Tahoma", Font.PLAIN, 20));
        lblSearchForRoom.setBounds(250, 11, 186, 31);
        contentPane.add(lblSearchForRoom);

        JLabel lblRoomAvailable = new JLabel("Room Bed Type:");
        lblRoomAvailable.setBounds(50, 73, 96, 14);
        contentPane.add(lblRoomAvailable);

        JLabel lblRoomType = new JLabel("Room Number");
        lblRoomType.setBounds(23, 162, 96, 14);
        contentPane.add(lblRoomType);

        JLabel lblRoomAvailable_1 = new JLabel("Availability");
        lblRoomAvailable_1.setBounds(175, 162, 120, 14);
        contentPane.add(lblRoomAvailable_1);

        JLabel lblPrice_1 = new JLabel("Price");
        lblPrice_1.setBounds(458, 162, 46, 14);
        contentPane.add(lblPrice_1);

                JLabel l1 = new JLabel("Bed Type");
        l1.setBounds(580, 162, 96, 14);
        contentPane.add(l1);

        JCheckBox checkRoom = new JCheckBox("Only display Available");
```

```java
        checkRoom.setBounds(400, 69, 205, 23);
                checkRoom.setBackground(Color.WHITE);
        contentPane.add(checkRoom);


                c1 = new Choice();
                c1.add("Single Bed");
                c1.add("Double Bed");
                c1.setBounds(153, 70, 120, 20);
        contentPane.add(c1);

        JButton btnSearch = new JButton("Search");
        btnSearch.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                String SQL = "select * from Room where bed_type =
'"+c1.getSelectedItem()+"'";
                String SQL2 = "select * from Room where availability =
'Available' AND bed_type = '"+c1.getSelectedItem()+"'";
            try{
                            conn c = new conn();
                rs = c.s.executeQuery(SQL);
                table.setModel(DbUtils.resultSetToTableModel(rs));

                if(checkRoom.isSelected())
                {
                    rs = c.s.executeQuery(SQL2);
                    table.setModel(DbUtils.resultSetToTableModel(rs));
                }


            }catch (SQLException ss)
            {
                ss.printStackTrace();
            }


            }
        });
        btnSearch.setBounds(200, 400, 120, 30);
                btnSearch.setBackground(Color.BLACK);
                btnSearch.setForeground(Color.WHITE);
        contentPane.add(btnSearch);

        JButton btnExit = new JButton("Back");
        btnExit.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
```

```java
                new Reception().setVisible(true);
                                setVisible(false);
            }
        });
        btnExit.setBounds(380, 400, 120, 30);
                btnExit.setBackground(Color.BLACK);
                btnExit.setForeground(Color.WHITE);
        contentPane.add(btnExit);

        table = new JTable();
        table.setBounds(0, 187, 700, 300);
        contentPane.add(table);

        JLabel lblCleanStatus = new JLabel("Clean Status");
        lblCleanStatus.setBounds(306, 162, 96, 14);
        contentPane.add(lblCleanStatus);

                getContentPane().setBackground(Color.WHITE);
    }
}
```

UPDATE CHECK

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

import java.awt.BorderLayout;
import java.awt.*;

import java.sql.*;
import javax.swing.*;
import javax.swing.border.EmptyBorder;

import java.awt.Font;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
```

```java
public class UpdateCheck extends JFrame {
    Connection conn = null;
    PreparedStatement pst = null;
    private JPanel contentPane;
    private JTextField txt_ID;
    private JTextField txt_Room;
    private JTextField txt_Status;
    private JTextField txt_Date;
    private JTextField txt_Time;
    private JTextField txt_Payment;

    Choice c1, c2;
    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    UpdateCheck frame = new UpdateCheck();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
    public void close(){
        this.dispose();
    }

    /**
     * Create the frame.
     * @throws SQLException
     */
    public UpdateCheck() throws SQLException {
        //conn = Javaconnect.getDBConnection();
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(500, 200, 950, 500);
        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
        contentPane.setLayout(null);
```

```java
            JLabel lblUpdateCheckStatus = new JLabel("Check-In Details");
            lblUpdateCheckStatus.setFont(new Font("Tahoma", Font.PLAIN, 20));
            lblUpdateCheckStatus.setBounds(124, 11, 222, 25);
            contentPane.add(lblUpdateCheckStatus);


                ImageIcon i1  = new
        ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/nine.jpg
        "));
                JLabel l1 = new JLabel(i1);
                l1.setBounds(450,70,476,270);
                add(l1);

            JLabel lblNewLabel = new JLabel("ID:");
            lblNewLabel.setBounds(25, 88, 46, 14);
            contentPane.add(lblNewLabel);


                c1 = new Choice();
                try{
                    conn c = new conn();
                    ResultSet rs = c.s.executeQuery("select * from customer");
                    while(rs.next()){
                        c1.add(rs.getString("number"));
                    }
                }catch(Exception e){ }
                c1.setBounds(248, 85, 140, 20);
            contentPane.add(c1);

            JLabel lblNewLabel_1 = new JLabel("Room Number :");
            lblNewLabel_1.setBounds(25, 129, 107, 14);
            contentPane.add(lblNewLabel_1);



                txt_ID = new JTextField();
                txt_ID.setBounds(248, 126, 140, 20);
            contentPane.add(txt_ID);

            JLabel lblNewLabel_2 = new JLabel("Name : ");
            lblNewLabel_2.setBounds(25, 174, 97, 14);
            contentPane.add(lblNewLabel_2);

            JLabel lblNewLabel_3 = new JLabel("Checked-in :");
            lblNewLabel_3.setBounds(25, 216, 107, 14);
            contentPane.add(lblNewLabel_3);

            JLabel lblNewLabel_4 = new JLabel("Amount Paid (Rs) : ");
```

```java
        lblNewLabel_4.setBounds(25, 261, 107, 14);
        contentPane.add(lblNewLabel_4);

        JLabel lblNewLabel_5 = new JLabel("Pending Amount (Rs) : ");
        lblNewLabel_5.setBounds(25, 302, 150, 14);
        contentPane.add(lblNewLabel_5);


        txt_Status = new JTextField();
        txt_Status.setBounds(248, 171, 140, 20);
        contentPane.add(txt_Status);
        txt_Status.setColumns(10);

        txt_Date = new JTextField();
        txt_Date.setBounds(248, 216, 140, 20);
        contentPane.add(txt_Date);
        txt_Date.setColumns(10);

        txt_Time = new JTextField();
        txt_Time.setBounds(248, 258, 140, 20);
        contentPane.add(txt_Time);
        txt_Time.setColumns(10);

        txt_Payment = new JTextField();
        txt_Payment.setBounds(248, 299, 140, 20);
        contentPane.add(txt_Payment);
        txt_Payment.setColumns(10);

        JButton btnUpdate = new JButton("Update");
        btnUpdate.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent ae) {
                    try{
                        conn c = new conn();

                        String s1 = c1.getSelectedItem();
            String s2 = txt_ID.getText(); //room_number;
                        String s3 = txt_Status.getText(); //name
                        String s4 = txt_Date.getText(); //status;
                        String s5 = txt_Time.getText(); //deposit

                        c.s.executeUpdate("update customer set
room_number = '"+s2+"', name = '"+s3+"', status = '"+s4+"', deposit = '"+s5+"'
where number = '"+s1+"'");

                        JOptionPane.showMessageDialog(null, "Data
```

```java
Updated Successfully");
                                new Reception().setVisible(true);
                                setVisible(false);
                        }catch(Exception ee){
                                System.out.println(ee);
                        }




            }
        });
        btnUpdate.setBounds(168, 378, 89, 23);
                btnUpdate.setBackground(Color.BLACK);
                btnUpdate.setForeground(Color.WHITE);
        contentPane.add(btnUpdate);

        JButton btnExit = new JButton("Back");
        btnExit.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                new Reception().setVisible(true);
                                setVisible(false);
            }
        });
        btnExit.setBounds(281, 378, 89, 23);
                btnExit.setBackground(Color.BLACK);
                btnExit.setForeground(Color.WHITE);
        contentPane.add(btnExit);

        JButton btnAdd = new JButton("Check");
        btnAdd.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                            try{
                String s1 = c1.getSelectedItem();
                conn c = new conn();
                            ResultSet rs1 = c.s.executeQuery("select * from
customer where number = "+s1);

                            while(rs1.next()){

txt_ID.setText(rs1.getString("room_number"));
                                txt_Status.setText(rs1.getString("name"));
                                txt_Date.setText(rs1.getString("status"));
                                txt_Time.setText(rs1.getString("deposit"));
                            }
                        }catch(Exception ee){}
```

```java
                            try{
                                String total = "";
                                conn c  = new conn();
                                ResultSet rs2 = c.s.executeQuery("select * from
room where room_number = "+txt_ID.getText());
                                while(rs2.next()){
                                    total = rs2.getString("price");

                                }
                                String paid = txt_Time.getText();
                                int pending = Integer.parseInt(total)-
Integer.parseInt(paid);

                                txt_Payment.setText(Integer.toString(pending));

                            }catch(Exception ee){}
                    }
                });
                btnAdd.setBounds(56, 378, 89, 23);
                        btnAdd.setBackground(Color.BLACK);
                        btnAdd.setForeground(Color.WHITE);
                contentPane.add(btnAdd);

                        getContentPane().setBackground(Color.WHITE);
        }

}


UPDATE ROOM.JAVA


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

import java.awt.BorderLayout;
import java.awt.*;
import java.sql.*;
import javax.swing.*;
import javax.swing.JFrame;
```

```java
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import java.awt.Font;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class UpdateRoom extends JFrame {
Connection conn = null;
PreparedStatement pst = null;
    private JPanel contentPane;
    private JTextField txt_ID;
    private JTextField txt_Ava;
    private JTextField txt_Status;
    private JTextField txt_Room;

        Choice c1;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    UpdateRoom frame = new UpdateRoom();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
    public void close(){
        this.dispose();
    }

    /**
     * Create the frame.
     * @throws SQLException
     */
    public UpdateRoom() throws SQLException {
        //conn = Javaconnect.getDBConnection();
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(530, 200, 1000, 450);
        contentPane = new JPanel();
```

```java
            contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
            setContentPane(contentPane);
            contentPane.setLayout(null);

                    ImageIcon i1  = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/seventh.
jpg"));
                    Image i3 = i1.getImage().getScaledInstance(550,
250,Image.SCALE_DEFAULT);
                    ImageIcon i2 = new ImageIcon(i3);
                    JLabel l1 = new JLabel(i2);
                    l1.setBounds(400,80,600,250);
                    add(l1);

            JLabel lblUpdateRoomStatus = new JLabel("Update Room Status");
            lblUpdateRoomStatus.setFont(new Font("Tahoma", Font.PLAIN, 20));
            lblUpdateRoomStatus.setBounds(85, 11, 206, 34);
            contentPane.add(lblUpdateRoomStatus);

            JLabel lblNewLabel = new JLabel("Guest ID:");
            lblNewLabel.setBounds(27, 87, 90, 14);
            contentPane.add(lblNewLabel);

                c1 = new Choice();
                try{
                    conn c = new conn();
                    ResultSet rs = c.s.executeQuery("select * from customer");
                    while(rs.next()){
                        c1.add(rs.getString("number"));
                    }
                }catch(Exception e){ }
                c1.setBounds(160, 84, 140, 20);
            contentPane.add(c1);

            JLabel lblAvailability = new JLabel("Availability:");
            lblAvailability.setBounds(27, 187, 90, 14);
            contentPane.add(lblAvailability);

            JLabel lblCleanStatus = new JLabel("Clean Status:");
            lblCleanStatus.setBounds(27, 240, 90, 14);
            contentPane.add(lblCleanStatus);


            txt_Ava = new JTextField();
            txt_Ava.setBounds(160, 184, 140, 20);
```

```java
        contentPane.add(txt_Ava);
        txt_Ava.setColumns(10);

        txt_Status = new JTextField();
        txt_Status.setBounds(160, 237, 140, 20);
        contentPane.add(txt_Status);
        txt_Status.setColumns(10);

            txt_Room = new JTextField();
        txt_Room.setBounds(160, 130, 140, 20);
        contentPane.add(txt_Room);
        txt_Room.setColumns(10);

            JButton b1 = new JButton("Check");
        b1.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                    try{
                        String s1 = c1.getSelectedItem();
                conn c = new conn();
                        ResultSet rs1 = c.s.executeQuery("select * from
customer where number = "+s1);

                        while(rs1.next()){

txt_Room.setText(rs1.getString("room_number"));
                        }
                    }catch(Exception ee){}
                    try{
                        conn c  = new conn();
                        ResultSet rs2 = c.s.executeQuery("select * from
room where room_number = "+txt_Room.getText());
                        while(rs2.next()){

txt_Ava.setText(rs2.getString("availability"));

txt_Status.setText(rs2.getString("clean_status"));
                        }
                    }catch(Exception ee){}
                }
        });
        b1.setBounds(120, 315, 89, 23);
            b1.setBackground(Color.BLACK);
            b1.setForeground(Color.WHITE);
        contentPane.add(b1);
```

```java
        JButton btnUpdate = new JButton("Update");
        btnUpdate.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) throws
NumberFormatException {

                try{
                                    conn c = new conn();
                                    String str = "update room set clean_status
= '"+txt_Status.getText()+"' where room_number = "+txt_Room.getText();
                                    c.s.executeUpdate(str);
                                    JOptionPane.showMessageDialog(null, "Update
Sucessful");

                                    new Reception().setVisible(true);
                                    setVisible(false);
                }catch (Exception ee){
                    ee.printStackTrace();
                }


            }
        });
        btnUpdate.setBounds(60, 355, 89, 23);
                btnUpdate.setBackground(Color.BLACK);
                btnUpdate.setForeground(Color.WHITE);
        contentPane.add(btnUpdate);

        JButton btnExit = new JButton("Back");
        btnExit.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                new Reception().setVisible(true);
                            setVisible(false);
            }
        });
        btnExit.setBounds(180, 355, 89, 23);
                btnExit.setBackground(Color.BLACK);
                btnExit.setForeground(Color.WHITE);
        contentPane.add(btnExit);

        JLabel lblRoomId = new JLabel("Room Number:");
        lblRoomId.setBounds(27, 133, 100, 14);
        contentPane.add(lblRoomId);

        getContentPane().setBackground(Color.WHITE);
    }
```

```
}
```

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

import java.awt.*;
import javax.swing.*;
import java.awt.event.*;

public class HotelManagementSystem extends JFrame implements ActionListener{

        JLabel l1;
        JButton b1;

        public HotelManagementSystem() {

                setSize(1366,430);              //
setContentPane(300,300,1366,390);    frame size
                setLayout(null);
                setLocation(300,300);

                l1 = new JLabel("");
                b1 = new JButton("Next");

                b1.setBackground(Color.WHITE);
                b1.setForeground(Color.BLACK);



                ImageIcon i1  = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/first.jp
g"));
                Image i3 = i1.getImage().getScaledInstance(1366,
390,Image.SCALE_DEFAULT);
                ImageIcon i2 = new ImageIcon(i3);
                l1 = new JLabel(i2);
```

```java
            JLabel lid=new JLabel("HOTEL MANAGEMENT SYSTEM");
            lid.setBounds(30,300,1500,100);
            lid.setFont(new Font("serif",Font.PLAIN,70));
            lid.setForeground(Color.red);
            l1.add(lid);

            b1.setBounds(1170,325,150,50);
            l1.setBounds(0, 0, 1366, 390);

            l1.add(b1);
            add(l1);

            b1.addActionListener(this);
            setVisible(true);

            while(true){
                    lid.setVisible(false); // lid =  j label
                try{
                    Thread.sleep(500); //1000 = 1 second
                }catch(Exception e){}
                    lid.setVisible(true);
                try{
                    Thread.sleep(500);
                }catch(Exception e){}
            }
        }

        public void actionPerformed(ActionEvent ae){
                new Login().setVisible(true);
                this.setVisible(false);

        }

        public static void main(String[] args) {
                HotelManagementSystem window = new HotelManagementSystem();
                window.setVisible(true);
        }
}
```

MPLOYEE.JAVA

```java
 * and open the template in the editor.
 */
package hotel.management.system;

import java.awt.BorderLayout;
import java.awt.*;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;

import net.proteanit.sql.DbUtils;

import javax.swing.JTable;
import java.sql.*;
import javax.swing.*;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class Employee extends JFrame {
    Connection conn = null;
    private JPanel contentPane;
    private JTable table;
    private JLabel lblNewLabel;
    private JLabel lblJob;
    private JLabel lblName;
    private JLabel lblDepartment;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    Employee frame = new Employee();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
    public void close()
    {
        this.dispose();
```

```java
}
/**
 * Create the frame.
 * @throws SQLException
 */
public Employee() throws SQLException {
    //conn = Javaconnect.getDBConnection();
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(430, 200, 1000, 600);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);
    contentPane.setLayout(null);

    table = new JTable();
    table.setBounds(0, 34, 1000, 450);
    contentPane.add(table);

    JButton btnLoadData = new JButton("Load Data");
    btnLoadData.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            try{
                                conn c = new conn();
                String displayCustomersql = "select * from Employee";
                ResultSet rs = c.s.executeQuery(displayCustomersql);
                table.setModel(DbUtils.resultSetToTableModel(rs));
            }
            catch(Exception e1){
                e1.printStackTrace();
            }
        }

    });
    btnLoadData.setBounds(350, 500, 120, 30);
            btnLoadData.setBackground(Color.BLACK);
            btnLoadData.setForeground(Color.WHITE);
    contentPane.add(btnLoadData);

    JButton btnExit = new JButton("Back");
    btnExit.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            new Reception().setVisible(true);
                        setVisible(false);
        }
    });
```

```java
        btnExit.setBounds(510, 500, 120, 30);
                btnExit.setBackground(Color.BLACK);
                btnExit.setForeground(Color.WHITE);
        contentPane.add(btnExit);

        lblNewLabel = new JLabel("Name");
        lblNewLabel.setBounds(41, 11, 46, 14);
        contentPane.add(lblNewLabel);

        lblJob = new JLabel("Age");
        lblJob.setBounds(159, 11, 46, 14);
        contentPane.add(lblJob);

        lblName = new JLabel("Gender");
        lblName.setBounds(273, 11, 46, 14);
        contentPane.add(lblName);

        lblDepartment = new JLabel("Job");
        lblDepartment.setBounds(416, 11, 86, 14);
        contentPane.add(lblDepartment);

                JLabel l1 = new JLabel("Salary");
        l1.setBounds(536, 11, 86, 14);
        contentPane.add(l1);

                JLabel l2 = new JLabel("Phone");
        l2.setBounds(656, 11, 86, 14);
        contentPane.add(l2);

                JLabel l3 = new JLabel("Aadhar");
        l3.setBounds(786, 11, 86, 14);
        contentPane.add(l3);

                JLabel l4 = new JLabel("Gmail");
        l4.setBounds(896, 11, 86, 14);
        contentPane.add(l4);

                getContentPane().setBackground(Color.WHITE);
    }
}
DEPARTMENT.JAVA

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
```

```java
 * and open the template in the editor.
 */
package hotel.management.system;

import java.awt.BorderLayout;
import java.awt.*;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;

import net.proteanit.sql.DbUtils;

import javax.swing.JTable;
import java.sql.*;
import javax.swing.*;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class Department extends JFrame {
    Connection conn = null;
    private JPanel contentPane;
    private JTable table;
    private JLabel lblNewLabel;
    private JLabel lblNewLabel_1;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    Department frame = new Department();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
    public void close()
    {
        this.dispose();
    }
```

```java
/**
 * Create the frame.
 * @throws SQLException
 */
public Department() throws SQLException {
    //conn = Javaconnect.getDBConnection();
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(600, 200, 700, 500);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);
    contentPane.setLayout(null);

    table = new JTable();
    table.setBounds(0, 40, 700, 350);
    contentPane.add(table);

    JButton btnNewButton = new JButton("Load Data");
    btnNewButton.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            try{
                                conn c = new conn();

                String displayCustomersql = "select * from Department";
                ResultSet rs = c.s.executeQuery(displayCustomersql);
                table.setModel(DbUtils.resultSetToTableModel(rs));


            }
            catch (Exception e1){
                e1.printStackTrace();
            }

        }
    });
    btnNewButton.setBounds(170, 410, 120, 30);
            btnNewButton.setBackground(Color.BLACK);
            btnNewButton.setForeground(Color.WHITE);
    contentPane.add(btnNewButton);

    JButton btnNewButton_1 = new JButton("Back");
    btnNewButton_1.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
                new Reception().setVisible(true);
                                setVisible(false);
```

```java
            }
        });
        btnNewButton_1.setBounds(400, 410, 120, 30);
                btnNewButton_1.setBackground(Color.BLACK);
                btnNewButton_1.setForeground(Color.WHITE);
        contentPane.add(btnNewButton_1);

        lblNewLabel = new JLabel("Department");
        lblNewLabel.setBounds(145, 11, 105, 14);
        contentPane.add(lblNewLabel);

        lblNewLabel_1 = new JLabel("Budget");
        lblNewLabel_1.setBounds(431, 11, 75, 14);
        contentPane.add(lblNewLabel_1);

                getContentPane().setBackground(Color.WHITE);
    }

}


DASHBOARD.JAVA

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


import java.awt.*;
import javax.swing.*;
import java.awt.event.*;


public class Dashboard extends JFrame{

    public static void main(String[] args) {
        new Dashboard().setVisible(true);
    }

    public Dashboard() {
        super("HOTEL MANAGEMENT SYSTEM");
```

```java
        setForeground(Color.CYAN);
        setLayout(null);


        ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/third.jp
g"));
        Image i2 = i1.getImage().getScaledInstance(1950,
1000,Image.SCALE_DEFAULT);
        ImageIcon i3 = new ImageIcon(i2);
        JLabel NewLabel = new JLabel(i3);
        NewLabel.setBounds(0, 0, 1950, 1000);
        add(NewLabel);

        JLabel AirlineManagementSystem = new JLabel("THE TAJ GROUP WELCOMES
YOU");
        AirlineManagementSystem.setForeground(Color.WHITE);
        AirlineManagementSystem.setFont(new Font("Tahoma", Font.PLAIN, 46));
        AirlineManagementSystem.setBounds(600, 60, 1000, 85);
        NewLabel.add(AirlineManagementSystem);


        JMenuBar menuBar = new JMenuBar();
        setJMenuBar(menuBar);

        JMenu AirlineSystem = new JMenu("HOTEL MANAGEMENT");
        AirlineSystem.setForeground(Color.BLUE);
        menuBar.add(AirlineSystem);

        JMenuItem FlightDetails = new JMenuItem("RECEPTION");
        AirlineSystem.add(FlightDetails);

        JMenu AirlineSystemHello = new JMenu("ADMIN");
        AirlineSystemHello.setForeground(Color.RED);
        menuBar.add(AirlineSystemHello);

        JMenuItem FlightDetailshello1 = new JMenuItem("ADD EMPLOYEE");
        AirlineSystemHello.add(FlightDetailshello1);

        FlightDetailshello1.addActionListener(new ActionListener(){
            public void actionPerformed(ActionEvent ae){
                try{
                    new AddEmployee().setVisible(true);
                }catch(Exception e ){}
            }
```

```java
        });


        JMenuItem FlightDetailshello2 = new JMenuItem("ADD ROOMS");
        AirlineSystemHello.add(FlightDetailshello2);

        FlightDetailshello2.addActionListener(new ActionListener(){
            public void actionPerformed(ActionEvent ae){
                try{
                    new AddRoom().setVisible(true);
                }catch(Exception e ){}
            }
        });


        FlightDetails.addActionListener(new ActionListener(){
            public void actionPerformed(ActionEvent ae){
                new Reception();
            }
        });


        JMenuItem FlightDetailshello3 = new JMenuItem("ADD DRIVERS");
        AirlineSystemHello.add(FlightDetailshello3);

        FlightDetailshello3.addActionListener(new ActionListener(){
            public void actionPerformed(ActionEvent ae){
                try{
                    new AddDrivers().setVisible(true);
                }catch(Exception e ){}
            }
        });


        setSize(1950,1090);
        setVisible(true);
        getContentPane().setBackground(Color.WHITE);
    }
}



CUSTOMERINFO.JAVA
/*
 * To change this license header, choose License Headers in Project Properties.
```

```java
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package hotel.management.system;

import java.awt.BorderLayout;
import java.awt.*;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;

import net.proteanit.sql.DbUtils;
import java.sql.*;
import javax.swing.*;
import javax.swing.JTable;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class CustomerInfo extends JFrame {
    Connection conn = null;
    private JPanel contentPane;
    private JLabel lblId;
    private JLabel lblNewLabel;
    private JLabel lblGender;
    private JTable table;
    private JLabel lblCountry;
    private JLabel lblRoom;
    private JLabel lblStatus;
    private JLabel lblNewLabel_1;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    CustomerInfo frame = new CustomerInfo();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        }
```

```java
        });
    }
    public void close()
    {
        this.dispose();
    }
/**
 * Create the frame.
 * @throws SQLException
 */
public CustomerInfo() throws SQLException {
    //conn = Javaconnect.getDBConnection();
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setBounds(530, 200, 900, 600);
    contentPane = new JPanel();
    contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
    setContentPane(contentPane);
    contentPane.setLayout(null);


    JButton btnExit = new JButton("Back");
    btnExit.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            new Reception().setVisible(true);
                        setVisible(false);
        }
    });
    btnExit.setBounds(450, 510, 120, 30);
            btnExit.setBackground(Color.BLACK);
            btnExit.setForeground(Color.WHITE);
    contentPane.add(btnExit);

    JButton btnLoadData = new JButton("Load Data");
    btnLoadData.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent arg0) {
            try{
                            conn c  = new conn();

            String displayCustomersql = "select * from Customer";
            ResultSet rs = c.s.executeQuery(displayCustomersql);
            table.setModel(DbUtils.resultSetToTableModel(rs));
        }

            catch(Exception e)
            {
                e.printStackTrace();
```

```java
                }
            }


        });
        btnLoadData.setBounds(300, 510, 120, 30);
                btnLoadData.setBackground(Color.BLACK);
                btnLoadData.setForeground(Color.WHITE);
        contentPane.add(btnLoadData);

        lblId = new JLabel("ID");
        lblId.setBounds(31, 11, 46, 14);
        contentPane.add(lblId);

                JLabel l1 = new JLabel("Number");
        l1.setBounds(150, 11, 46, 14);
        contentPane.add(l1);

        lblNewLabel = new JLabel("Name");
        lblNewLabel.setBounds(270, 11, 65, 14);
        contentPane.add(lblNewLabel);

        lblGender = new JLabel("Gender");
        lblGender.setBounds(360, 11, 46, 14);
        contentPane.add(lblGender);

        table = new JTable();
        table.setBounds(0, 40, 900, 450);
        contentPane.add(table);

        lblCountry = new JLabel("Country");
        lblCountry.setBounds(480, 11, 46, 14);
        contentPane.add(lblCountry);

        lblRoom = new JLabel("Room");
        lblRoom.setBounds(600, 11, 46, 14);
        contentPane.add(lblRoom);

        lblStatus = new JLabel("Check-in Status");
        lblStatus.setBounds(680, 11, 100, 14);
        contentPane.add(lblStatus);

        lblNewLabel_1 = new JLabel("Deposit");
        lblNewLabel_1.setBounds(800, 11, 100, 14);
        contentPane.add(lblNewLabel_1);
```

```java
            getContentPane().setBackground(Color.WHITE);
    }
}
```

CONN.JAVA
```java
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package hotel.management.system;




import java.sql.*;

public class conn{
    Connection c;
    Statement s;
    public conn(){
        try{
            Class.forName("com.mysql.jdbc.Driver");
            c
=DriverManager.getConnection("jdbc:mysql:///hotelmanagementsystem","root","");

            s =c.createStatement();


        }catch(Exception e){
            System.out.println(e);
        }
    }
}
```

CHECKOUT.JAVA

```java
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
```

```java
 * and open the template in the editor.
 */
package hotel.management.system;

import java.awt.BorderLayout;
import java.awt.*;
import java.awt.EventQueue;


import java.sql.*;
import javax.swing.*;
import javax.swing.border.EmptyBorder;

import java.awt.Font;
import java.awt.event.*;
import java.awt.event.ActionEvent;

public class CheckOut extends JFrame{
    Connection conn = null;
    PreparedStatement pst = null;
    private JPanel contentPane;
    private JTextField t1;
        Choice c1;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    CheckOut frame = new CheckOut();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
    public void close(){
        this.dispose();
    }

    /**
     * Create the frame.
```

```java
    * @throws SQLException
    */
   public CheckOut() throws SQLException {
       //conn = Javaconnect.getDBConnection();
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setBounds(530, 200, 800, 294);
       contentPane = new JPanel();
       contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
       setContentPane(contentPane);
       contentPane.setLayout(null);

               ImageIcon i1  = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/sixth.jp
g"));
               Image i3 = i1.getImage().getScaledInstance(400,
225,Image.SCALE_DEFAULT);
               ImageIcon i2 = new ImageIcon(i3);
               JLabel l1 = new JLabel(i2);
               l1.setBounds(300,0,500,225);
               add(l1);

       JLabel lblCheckOut = new JLabel("Check Out ");
       lblCheckOut.setFont(new Font("Tahoma", Font.PLAIN, 20));
       lblCheckOut.setBounds(70, 11, 140, 35);
       contentPane.add(lblCheckOut);

       JLabel lblName = new JLabel("Number :");
       lblName.setBounds(20, 85, 80, 14);
       contentPane.add(lblName);

               c1 = new Choice();
               try{
                   conn c = new conn();
                   ResultSet rs = c.s.executeQuery("select * from customer");
                   while(rs.next()){
                       c1.add(rs.getString("number"));
                   }
               }catch(Exception e){ }
               c1.setBounds(130, 82, 150, 20);
       contentPane.add(c1);

               ImageIcon i4 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/tick.png
"));
               Image i5 = i4.getImage().getScaledInstance(20,
```

```java
20,Image.SCALE_DEFAULT);
            ImageIcon i6 = new ImageIcon(i5);
            JButton l2 = new JButton(i6);
            l2.setBounds(290,82,20,20);
            add(l2);

            l2.addActionListener(new ActionListener(){

                public void actionPerformed(ActionEvent ae){
                    System.out.println("Hi");
                    try{

                        conn c = new conn();
                        String number = c1.getSelectedItem();
                        ResultSet rs = c.s.executeQuery("select * from
customer where number = "+number);

                        if(rs.next()){
                            System.out.println("clicked");
                            t1.setText(rs.getString("room_number"));
                        }
                    }catch(Exception e){ }
                }
            });


        JLabel lblRoomNumber = new JLabel("Room Number:");
        lblRoomNumber.setBounds(20, 132, 86, 20);
        contentPane.add(lblRoomNumber);

        t1 = new JTextField();
            t1.setBounds(130, 132, 150, 20);
        contentPane.add(t1);




        JButton btnCheckOut = new JButton("Check Out");
        btnCheckOut.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                            String id = c1.getSelectedItem();
                            String s1 = t1.getText();
```

```java
                String deleteSQL = "Delete from customer where number = "+id;
                            String q2 = "update room set availability =
'Available' where room_number = "+s1;


                conn c = new conn();

                try{


                    c.s.executeUpdate(deleteSQL);
                    c.s.executeUpdate(q2);
                    JOptionPane.showMessageDialog(null, "Check Out
Successful");
                    new Reception().setVisible(true);
                            setVisible(false);
                }catch(SQLException e1){
                    System.out.println(e1.getMessage());
                }
            }
        });
        btnCheckOut.setBounds(50, 200, 100, 25);
                btnCheckOut.setBackground(Color.BLACK);
                btnCheckOut.setForeground(Color.WHITE);
        contentPane.add(btnCheckOut);

        JButton btnExit = new JButton("Back");
        btnExit.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                new Reception().setVisible(true);
                            setVisible(false);
            }
        });
        btnExit.setBounds(160, 200, 100, 25);
                btnExit.setBackground(Color.BLACK);
                btnExit.setForeground(Color.WHITE);
        contentPane.add(btnExit);


                getContentPane().setBackground(Color.WHITE);
    }

}
```

ADDROOMS.JAVA

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


import java.awt.*;
import javax.swing.*;
import javax.swing.border.*;
import java.awt.event.*;
import java.sql.*;
import java.util.*;

public class AddRoom extends JFrame implements ActionListener{

    private JPanel contentPane;
    private JTextField t1,t2,t3,t4;
    private JComboBox comboBox, comboBox_1, comboBox_2, comboBox_3;
    JButton b1,b2;
    Choice c1;

    public static void main(String[] args) {
        new AddRoom().setVisible(true);
    }


    public AddRoom() {
        setBounds(450, 200, 1000, 450);
        contentPane = new JPanel();
        setContentPane(contentPane);
        contentPane.setLayout(null);

        ImageIcon i1  = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/twelve.j
pg"));
                Image i3 = i1.getImage().getScaledInstance(500,
300,Image.SCALE_DEFAULT);
                ImageIcon i2 = new ImageIcon(i3);
                JLabel l15 = new JLabel(i2);
                l15.setBounds(400,30,500,370);
                add(l15);
```

```java
JLabel l10 = new JLabel("Add Rooms");
l10.setFont(new Font("Tahoma", Font.BOLD, 18));
l10.setBounds(194, 10, 120, 22);
contentPane.add(l10);



JLabel l1 = new JLabel("Room Number");
l1.setForeground(new Color(25, 25, 112));
l1.setFont(new Font("Tahoma", Font.BOLD, 14));
l1.setBounds(64, 70, 102, 22);
contentPane.add(l1);


t4 = new JTextField();
t4.setBounds(174, 70, 156, 20);
contentPane.add(t4);


JLabel l2 = new JLabel("Availability");
l2.setForeground(new Color(25, 25, 112));
l2.setFont(new Font("Tahoma", Font.BOLD, 14));
l2.setBounds(64, 110, 102, 22);
contentPane.add(l2);

comboBox = new JComboBox(new String[] { "Available", "Occupied" });
comboBox.setBounds(176, 110, 154, 20);
contentPane.add(comboBox);


JLabel l3 = new JLabel("Cleaning Status");
l3.setForeground(new Color(25, 25, 112));
l3.setFont(new Font("Tahoma", Font.BOLD, 14));
l3.setBounds(64, 150, 102, 22);
contentPane.add(l3);

comboBox_2 = new JComboBox(new String[] { "Cleaned", "Dirty" });
comboBox_2.setBounds(176, 150, 154, 20);
contentPane.add(comboBox_2);

JLabel l4 = new JLabel("Price");
l4.setForeground(new Color(25, 25, 112));
l4.setFont(new Font("Tahoma", Font.BOLD, 14));
l4.setBounds(64, 190, 102, 22);
```

```java
        contentPane.add(l4);

        t2 = new JTextField();
        t2.setBounds(174, 190, 156, 20);
        contentPane.add(t2);

        JLabel l5 = new JLabel("Bed Type");
        l5.setForeground(new Color(25, 25, 112));
        l5.setFont(new Font("Tahoma", Font.BOLD, 14));
        l5.setBounds(64, 230, 102, 22);
        contentPane.add(l5);


        comboBox_3 = new JComboBox(new String[] { "Single Bed", "Double Bed"});
        comboBox_3.setBounds(176, 230, 154, 20);
        contentPane.add(comboBox_3);




        b1 = new JButton("Add");
        b1.addActionListener(this);
        b1.setBounds(64, 321, 111, 33);
        b1.setBackground(Color.BLACK);
        b1.setForeground(Color.WHITE);
        contentPane.add(b1);

        b2 = new JButton("Back");
        b2.addActionListener(this);
        b2.setBounds(198, 321, 111, 33);
        b2.setBackground(Color.BLACK);
        b2.setForeground(Color.WHITE);
        contentPane.add(b2);


        contentPane.setBackground(Color.WHITE);

    }

    public void actionPerformed(ActionEvent ae){
        try{

            if(ae.getSource() == b1){
                try{
```

```java
                conn c = new conn();
                String room = t4.getText();
                String available = (String)comboBox.getSelectedItem();
                String status = (String)comboBox_2.getSelectedItem();
                String price  = t2.getText();
                String type = (String)comboBox_3.getSelectedItem();
                String str = "INSERT INTO room values( '"+room+"',
'"+available+"', '"+status+"','"+price+"', '"+type+"')";


                c.s.executeUpdate(str);
                JOptionPane.showMessageDialog(null, "Room Successfully Added");
                this.setVisible(false);

                }catch(Exception ee){
                    System.out.println(ee);
                }
            }
            else if(ae.getSource() == b2){
                this.setVisible(false);
            }
        }catch(Exception eee){

        }
    }
}


ADDDRIVERS.JAVA

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


import java.awt.*;
import javax.swing.*;
import javax.swing.border.*;
import java.awt.event.*;
import java.sql.*;
import java.util.*;
```

```java
public class AddDrivers extends JFrame implements ActionListener{

    private JPanel contentPane;
    private JTextField t1,t2,t3,t4, t5;
    private JComboBox comboBox, comboBox_1;
    JButton b1,b2;
    Choice c1;

    public static void main(String[] args) {
        new AddDrivers().setVisible(true);
    }


    public AddDrivers() {
        setBounds(450, 200, 1000, 500);
    contentPane = new JPanel();
    setContentPane(contentPane);
    contentPane.setLayout(null);

        ImageIcon i1  = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/eleven.j
pg"));
                Image i3 = i1.getImage().getScaledInstance(500,
300,Image.SCALE_DEFAULT);
                ImageIcon i2 = new ImageIcon(i3);
                JLabel l15 = new JLabel(i2);
                l15.setBounds(400,30,500,370);
                add(l15);

        JLabel l10 = new JLabel("Add Drivers");
        l10.setFont(new Font("Tahoma", Font.BOLD, 18));
    l10.setBounds(194, 10, 120, 22);
    contentPane.add(l10);



    JLabel l1 = new JLabel("Name");
    l1.setForeground(new Color(25, 25, 112));
    l1.setFont(new Font("Tahoma", Font.BOLD, 14));
    l1.setBounds(64, 70, 102, 22);
    contentPane.add(l1);


        t1 = new JTextField();
    t1.setBounds(174, 70, 156, 20);
```

```java
contentPane.add(t1);


JLabel l2 = new JLabel("Age");
l2.setForeground(new Color(25, 25, 112));
l2.setFont(new Font("Tahoma", Font.BOLD, 14));
l2.setBounds(64, 110, 102, 22);
contentPane.add(l2);

    t2 = new JTextField();
t2.setBounds(174, 110, 156, 20);
contentPane.add(t2);


JLabel l3 = new JLabel("Gender");
l3.setForeground(new Color(25, 25, 112));
l3.setFont(new Font("Tahoma", Font.BOLD, 14));
l3.setBounds(64, 150, 102, 22);
contentPane.add(l3);

    comboBox = new JComboBox(new String[] { "Male", "Female" });
comboBox.setBounds(176, 150, 154, 20);
contentPane.add(comboBox);

JLabel l4 = new JLabel("Car Company");
l4.setForeground(new Color(25, 25, 112));
l4.setFont(new Font("Tahoma", Font.BOLD, 14));
l4.setBounds(64, 190, 102, 22);
contentPane.add(l4);

    t3 = new JTextField();
t3.setBounds(174, 190, 156, 20);
contentPane.add(t3);

    JLabel l5 = new JLabel("Car Brand");
l5.setForeground(new Color(25, 25, 112));
l5.setFont(new Font("Tahoma", Font.BOLD, 14));
l5.setBounds(64, 230, 102, 22);
contentPane.add(l5);


    t4 = new JTextField();
t4.setBounds(174, 230, 156, 20);
contentPane.add(t4);
```

```java
    JLabel l6 = new JLabel("Available");
l6.setForeground(new Color(25, 25, 112));
l6.setFont(new Font("Tahoma", Font.BOLD, 14));
l6.setBounds(64, 270, 102, 22);
contentPane.add(l6);


    comboBox_1 = new JComboBox(new String[] { "Yes", "No" });
comboBox_1.setBounds(176, 270, 154, 20);
contentPane.add(comboBox_1);


    JLabel l7 = new JLabel("Location");
l7.setForeground(new Color(25, 25, 112));
l7.setFont(new Font("Tahoma", Font.BOLD, 14));
l7.setBounds(64, 310, 102, 22);
contentPane.add(l7);


    t5 = new JTextField();
t5.setBounds(174, 310, 156, 20);
contentPane.add(t5);



b1 = new JButton("Add");
b1.addActionListener(this);
b1.setBounds(64, 380, 111, 33);
    b1.setBackground(Color.BLACK);
    b1.setForeground(Color.WHITE);
contentPane.add(b1);

b2 = new JButton("Back");
b2.addActionListener(this);
b2.setBounds(198, 380, 111, 33);
    b2.setBackground(Color.BLACK);
    b2.setForeground(Color.WHITE);
contentPane.add(b2);


    contentPane.setBackground(Color.WHITE);

}
```

```java
    public void actionPerformed(ActionEvent ae){
        try{

            if(ae.getSource() == b1){
                try{
                conn c = new conn();
                String name = t1.getText();
                String age = t2.getText();
                String gender = (String)comboBox.getSelectedItem();
                String company  = t3.getText();
                String brand = t4.getText();
                String available = (String)comboBox_1.getSelectedItem();
                String location = t5.getText();
                String str = "INSERT INTO driver values( '"+name+"', '"+age+"',
'"+gender+"','"+company+"', '"+brand+"', '"+available+"','"+location+"')";


        c.s.executeUpdate(str);
        JOptionPane.showMessageDialog(null, "Driver Successfully Added");
                this.setVisible(false);

                }catch(Exception ee){
                    System.out.println(ee);
                }
            }
            else if(ae.getSource() == b2){
                this.setVisible(false);
            }
        }catch(Exception eee){

        }
    }
}
```

Results

**Upon the successful implementation of the Hotel Management System (HMS), several key
outcomes were observed, significantly improving various operational aspects of the hotel.**

1. Operational Efficiency

- Streamlined Booking Process: The HMS facilitated a seamless booking process, allowing guests to check room availability and book rooms online in real-time. This reduced manual errors and increased booking accuracy.
- Efficient Check-in/Check-out: The automated check-in and check-out processes minimized wait times and improved guest satisfaction. The system also allowed for digital check-ins, further enhancing convenience.
- Optimized Housekeeping: Task scheduling and room status tracking enabled better management of housekeeping duties, ensuring rooms were cleaned and prepared promptly.

2. Financial Management

- Automated Billing: The system generated accurate invoices and tracked guest expenses automatically, reducing the burden on staff and minimizing billing errors.
- Integrated Payments: Secure integration with multiple payment gateways allowed for smooth and secure financial transactions, catering to various payment preferences of guests.

3. Inventory Control

- Effective Inventory Management: The HMS provided real-time tracking of inventory levels, which helped in maintaining adequate stock levels for housekeeping, kitchen, and other departments. This reduced instances of overstocking and stockouts.

4. Data Management and Reporting

- Comprehensive Reporting: The system generated detailed reports on occupancy rates, revenue, expenses, and other key metrics. This facilitated better decision-making and strategic planning.
- Enhanced Analytics: The use of data visualization tools provided insights into guest behaviors and preferences, enabling more targeted marketing efforts and personalized guest experiences.

5. Security and Compliance

- Data Security: Implementation of robust security measures, including data encryption and role-based access control, ensured the protection of sensitive guest information and compliance with data protection regulations.
- Audit Trails: The system maintained comprehensive audit logs, enhancing accountability and enabling detailed tracking of user actions within the system.

Discussion

The implementation of the HMS brought about several notable improvements and presented some challenges that were addressed effectively.

Key Improvements

- Guest Experience: The overall guest experience was significantly enhanced due to the streamlined booking and check-in/check-out processes. The ability to manage guest profiles and preferences allowed for a more personalized service.
- Staff Productivity: By automating routine tasks such as billing, inventory management, and housekeeping scheduling, staff were able to focus more on guest services and other critical areas, thereby increasing productivity.
- Decision Making: The detailed reporting and analytics capabilities of the HMS provided management with valuable insights into hotel operations, enabling data-driven decision-making and strategic planning.

Challenges and Solutions

- System Integration: Integrating the HMS with existing Property Management Systems (PMS) and other third-party services posed challenges. These were addressed through the use of robust APIs and middleware solutions that facilitated seamless data exchange.
- User Training: Initial resistance from staff due to the new system was mitigated through comprehensive training programs and user-friendly interfaces that made the transition smoother.
- Scalability: As the hotel expanded, ensuring that the HMS could scale accordingly was crucial. This was managed by leveraging cloud infrastructure and scalable database solutions that could handle increased loads efficiently.

Future Enhancements

- IoT Integration: Incorporating IoT devices for smart room controls (e.g., smart thermostats, lighting) could further enhance guest comfort and operational efficiency.
- Advanced Analytics: Implementing machine learning algorithms for predictive analytics could provide deeper insights into guest behaviors and operational trends, leading to even more personalized services and optimized operations.
- Mobile Applications: Developing mobile applications for guests and staff could improve accessibility and convenience, allowing for tasks such as mobile check-ins and real-time service requests.

Conclusion

The Hotel Management System has proven to be a transformative tool for hotel operations, significantly enhancing efficiency, guest satisfaction, and data-driven decision-making. By addressing the initial challenges and continually evolving with technological advancements, the HMS can maintain its role as a critical asset in the hospitality industry.