

# **Hotel Management System**

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## **Synopsis:**

- This software project is developed to automate the functionalities of a Hotel. It is a form of electronic commerce whereby customer can book rooms and decide his/her hotel booking over the internet.
- Customers are attracted to online booking rooms not only because of the broader selection but also because of greater access to information.
- This project is based upon hotel management, wherein it allows the user to book rooms, type of room of his/her choice and select the particular dates he needs it on. The user then selects his/her choice of room and enters his/her payment details to complete the booking process.
- THE PRINCIPLE GOAL OF THIS PACKAGE IS TO ENSURE THAT THE ENTIRE HOTEL MANAGEMENT SCHEME, LIKE ROOM ACTIONS, ASSIGNING ROOMS, ADMISSION OF A NEW CUSTOMER ETC IS AUTOMATED AND DIGITIZED.

➤ OUR PROJECT INCLUDES THE FEATURES MENTIONED  
BELOW:

1. ROOM TYPE SELECTION
2. ROOM NUMBER INFORMATION
3. BILLING AND PAYMENT
4. FEEDBACK

# **SOFTWARE SPECIFICATIONS:**

## **SOFTWARE SPECIFICATIONS**

PLATFORM	WINDOWS 10
FRONT END	NETBEANS IDE 6
BACK END	MYSQL

**NETBEANS IDE 6.5.1(JAVA)**

The hardest part of building a software system is deciding precisely what to build. NetBeans refers to both a platform framework for java desktop applications, and an Integrated Development Environment(IDE) for developing with Java, Javascript, PHP and others.

The NetBeans IDE is written in java and runs everywhere where a JVM is installed, including Windows , MAC OS, Linux, and Solaris. A JDK is required for development in other programming languages.

Netbeans is the front end tool.

## **MYSQL:**

MYSQL is a Relational Database Management System(RDBMS) that runs as a server providing multi user access to a number of databases. MYSQL is officially pronounced (“MY S-Q-L”).

It is named after developer Michael Widenius , MY. The SQL phrase stands for Structured Query Language. The MYSQL development project has made its source code available under the terms of GNU General Public License, as under a variety of proprietary agreements. MYSQL is now owned by Oracle Corporation. Free-Software projects that require a full-featured database management system often use MYSQL. Such projects include LAMP software stack.

MySQL is the back-end tool.

## **Table Structure and Database:**

Create database if not exists resort;

Use resort;

- FOR TABLE ROOM:

Create table ROOM(

Roomno int(11) primary key,

Type code varchar(22));

Insert into mariot values(001,"SN");

Insert into marriot values(002,"SL");

Insert into marriot values(003,"DM");

Insert into marriot values(004,"DL");

- FOR TABLE BOOKING:

Create table booking(

Bookingno int(11) primary key,

CustName varchar(20),

Address varchar(30),

Sex varchar(1),

Age int(11),

Roomno int(11),

Fromd date,

Tod date,

Advance int(11),

Total int(11));

Insert into booking values(10,"Natasha","Hyderabad","F",21,001,"2010-12-15","2010-12-31",2000,20000);

Insert into booking values(11,"Disha","Hyderabad","F",22,002,"2011-12-15","2011-12-31",2000,40000);

Insert into booking values(13,"Sumreen","Hyderabad","F",23,003,"2012-12-15","2012-12-31",2000,60000);

Insert into booking values(14,"Veronica","Hyderabad","F",24,003,"2010-02-30","2010-03-15",2000,80000);

- FOR TABLE TYPE:

```
CREATE TABLE TYPE(  
Typecode char(2) primary key,  
Description varchar(30),  
Charges int(11));
```

Insert into type values("SN","SINGLE BED NON AC",4000);

Insert into type values("SL","SINGLE BED AC",8000);

Insert into type values("DM","DOUBLE BED NON AC",6000);

Insert into type values("DL","DOUBLE BED AC",10000);

- FOR STATUS1.....STATUS4(4 TABLES FOR STORING STATUS OF 4 ROOMS)

```
CREATE TABLE STATUS1(  
ROOMNO INT(11),  
Type code char(20),  
D1 char(1),  
D2 char(1),  
D3 char(1),  
D4 char(1));
```

Insert into status1 values (001,"SL","YES","NO","NO","NO");

Insert into status1 values (002,"SN","NO","YES","NO","NO");

Insert into status values (003,"DM","NO","NO","YES","NO");

Insert into status1 values (004,"DL","NO","NO","NO","YES");

- DO THE SAME FOR STATUS2,STATUS3,STATUS4 tables.

- Table structure: room

```
mysql> describe room;
```

Field	Type	Null	Key	Default	Extra
RoomNo	int(11)	NO	PRI	NULL	
TypeCode	varchar(2)	YES		NULL	

2 rows in set (0.00 sec)

- Table structure: booking

```
mysql> describe booking;
```

Field	Type	Null	Key	Default	Extra
BookingNo	int(11)	NO	PRI	NULL	
CustName	varchar(20)	YES		NULL	
address	varchar(30)	YES		NULL	
sex	varchar(1)	YES		NULL	
age	int(11)	YES		NULL	
RoomNo	int(11)	YES		NULL	
FromD	date	YES		NULL	
ToD	date	YES		NULL	
Advance	int(11)	YES		NULL	
Total	int(11)	YES		NULL	

10 rows in set (0.00 sec)

- Table structure type:

```
mysql> describe type;
```

Field	Type	Null	Key	Default	Extra
TypeCode	char(2)	NO	PRI	NULL	
Description	varchar(20)	YES		NULL	
charges	int(11)	YES		NULL	

## PROGRAM CODES:

## **CODE FOR FRAME 1:**

Code:

```
public class MainMenu extends javax.swing.JFrame {
    /** Creates new form MainMenu */
    public MainMenu() {
        initComponents();
    }
    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        RPMenu rp = new RPMenu();
        rp.setVisible(true);
        this.setVisible(false);
    }
    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        BookCancel bc = new BookCancel();
        bc.setVisible(true);
        this.setVisible(false);
    }
    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        Report rp = new Report();
        rp.setVisible(true);
        this.setVisible(false);
    }
    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        System.exit(0);
    }
    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        AboutMe.setVisible(false);
    }
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        AboutMe.setVisible(true);
    }
    public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new MainMenu().setVisible(true);
            }
        });
    }
}
```



```
    }  
    });}
```

## **CODE FOR FRAME 2:**

```
import java.awt.Container;  
import java.sql.*;  
public class RPMenu extends javax.swing.JFrame {  
  
    /** Creates new form RPMenu */  
    public RPMenu() {  
        initComponents();  
        EnterRoomDetailsPanel.setVisible(false);  
        EnterRoomNoPanel.setVisible(false);  
        EnterNewChargesPanel.setVisible(false);  
        RoomProcessingOptionsPanel.setVisible(true);  
    }  
    private void AddBActionPerformed(java.awt.event.ActionEvent evt) {  
        // TODO add your handling code here:  
        error.setText(" ");  
        String Rnum = RNumTF.getText();  
        String Tcode = TCode.getSelectedItemAt(0).toString();  
        try  
        {  
            Class.forName("java.sql.Driver");  
            String database = "jdbc:mysql://localhost:3306/Hotal";  
            Connection conn = DriverManager.getConnection(database, "root", "pace");  
            Statement stmt = conn.createStatement();  
            String sql = "Insert into Room values ( '" + Rnum + "', '" + Tcode + "')" ;  
            stmt.executeUpdate(sql);  
            for(int i=1; i<13;i++)  
            {  
                String sql2 = "Insert into Status" + i + "(RoomNo, TypeCode) values ( '" + Rnum + "', '" +  
Tcode + "')" ;  
                Statement stmt2 = conn.createStatement();  
                stmt2.executeUpdate(sql2);  
            }  
            error.setText("Information added");  
            stmt.close();  
            conn.close();  
        }  
        catch (Exception e) { error.setText("Incorrect Entry");}  
    }  
  
    private void TCode2ItemStateChanged(java.awt.event.ItemEvent evt) {  
        // TODO add your handling code here:
```

```

String code = TCode2.getSelectedItem().toString();
try
{

    Class.forName("java.sql.Driver");
    String database = "jdbc:mysql://localhost:3306/Hotal";
    Connection conn = DriverManager.getConnection(database, "root", "pace");
    Statement stmt = conn.createStatement();
    String sql = "select Charges from Type where TypeCode = " + code + """;
    ResultSet rs = stmt.executeQuery(sql);
    rs.next();
    int str = rs.getInt("Charges");
    rs.close();
    stmt.close();
    conn.close();
    curCharges.setText("Rs " + str);
} catch (Exception e) { }
}

private void ChangeBActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String code = TCode2.getSelectedItem().toString();
    int charges =Integer.parseInt( ChargesTF.getText());
    try
    {
        Class.forName("java.sql.Driver");
        String database = "jdbc:mysql://localhost:3306/Hotal";
        Connection conn = DriverManager.getConnection(database, "root", "pace");
        Statement stmt = conn.createStatement();
        String sql = "update Type set Charges = " + charges + " where TypeCode = " + code + """;
        stmt.executeUpdate(sql);
        stmt.close();
        conn.close();
        error1.setText("Information added");
    } catch (Exception e) { error1.setText("Invalid Data");}
}

private void SearchBActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    int rnum =Integer.parseInt(RNoTF.getText());
    try
    {
        Class.forName("java.sql.Driver");
        String database = "jdbc:mysql://localhost:3306/Hotal";

```

```

        Connection conn = DriverManager.getConnection(database, "root", "pace");
        Statement stmt = conn.createStatement();
        String sql = "select Type.TypeCode, Description, Charges from Type , Room where RoomNo
= " + rnum + " and Type.TypeCode = Room.TypeCode";
        ResultSet rs = stmt.executeQuery(sql);
        rs.next();
        String str = rs.getString("TypeCode");
        roomDetailsTA.setText(str);
        String str1 = rs.getString("Description");
        String str2 = rs.getString("Charges");
        roomDetailsTA.setText("Room Number : " + rnum + "\nType: " + str + "\nDescription: " + str1
+ "\nCharges : " + str2);
        rs.close();
        stmt.close();
        conn.close();
    } catch (Exception e) { error2.setText("Room Number Not Found");}
}

```

```

private void BackActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    MainMenu m = new MainMenu();
    m.setVisible(true);
    this.setVisible(false);
}

```

```

private void NewRoomBActionPerformed(java.awt.event.ActionEvent evt) {
    EnterNewChargesPanel.setVisible(false);
    RoomProcessingOptionsPanel.setVisible(false);
    EnterRoomNoPanel.setVisible(false);
    EnterRoomDetailsPanel.setVisible(true);
}

```

```

private void CChargesBActionPerformed(java.awt.event.ActionEvent evt) {
    EnterRoomDetailsPanel.setVisible(false);
    RoomProcessingOptionsPanel.setVisible(false);
    EnterRoomNoPanel.setVisible(false);
    EnterNewChargesPanel.setVisible(true);
}

```

```

private void RDetailsBActionPerformed(java.awt.event.ActionEvent evt) {
    EnterRoomDetailsPanel.setVisible(false);
    EnterNewChargesPanel.setVisible(false);
    RoomProcessingOptionsPanel.setVisible(false);
    EnterRoomNoPanel.setVisible(true);
}

```

```

private void back2MainMItemActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    MainMenu m = new MainMenu();
    m.setVisible(true);
    this.setVisible(false);
}

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

private void AddRoomMItemActionPerformed(java.awt.event.ActionEvent evt) {
    EnterNewChargesPanel.setVisible(false);
    RoomProcessingOptionsPanel.setVisible(false);
    EnterRoomNoPanel.setVisible(false);
    EnterRoomDetailsPanel.setVisible(true);
}

private void ChangeChargesMItemActionPerformed(java.awt.event.ActionEvent evt) {
    EnterRoomDetailsPanel.setVisible(false);
    RoomProcessingOptionsPanel.setVisible(false);
    EnterRoomNoPanel.setVisible(false);
    EnterNewChargesPanel.setVisible(true);
}

private void RoomDetailsMItemActionPerformed(java.awt.event.ActionEvent evt) {
    EnterRoomDetailsPanel.setVisible(false);
    EnterNewChargesPanel.setVisible(false);
    RoomProcessingOptionsPanel.setVisible(false);
    EnterRoomNoPanel.setVisible(true);
}

```

### **CODE FOR FRAME 3:**

```

import java.sql.*;
import javax.swing.JOptionPane;
public class Report extends javax.swing.JFrame {

    /** Creates new form Report */
    public Report() {
        initComponents();
        Entry4ResStatusPanel.setVisible(false);
    }

```

```

        Entry4BillPanel.setVisible(false);
        Entry4ResSlipPanel.setVisible(false);
        ReportingOptionsPanel.setVisible(true);
    }
    private void SearchBTNActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        int month = Integer.parseInt(MonthCB.getSelectedItem().toString());
        new Status(month).setVisible(true);
        //this.setVisible(false);
    }
    private boolean search(int bno)
    {
        try {
            Class.forName("java.sql.Driver");
            String database = "jdbc:mysql://localhost:3306/Hotal";
            Connection conn = DriverManager.getConnection(database, "root", "pace");
            Statement stmt = conn.createStatement();
            String sql = "select * from Booking where BookingNo = " + bno;
            ResultSet rs = stmt.executeQuery(sql);
            if(rs.next())
            {
                return true;
            }
            else
            {
                return false;
            }
        } catch (Exception e) { JOptionPane.showMessageDialog(null, "" + e);
            return false; }
    }
    private void GenerateResSlipBTNActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        int bno = Integer.parseInt( BokingNo4ResSlipTF.getText());
        if(search(bno))
        {
            new ReservaTionSlip(bno).setVisible(true);
            this.setVisible(false);
        }
        else
        {
            error1.setText("Unable to fine Booking number");
        }
    }
}

```

```

private void BackActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    MainMenu m = new MainMenu();
    m.setVisible(true);
    this.setVisible(false);
}

private void StatusBTNActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Entry4ResSlipPanel.setVisible(false);
    Entry4BillPanel.setVisible(false);
    ReportingOptionsPanel.setVisible(false);
    Entry4ResStatusPanel.setVisible(true);
}

private void RSlipBTNActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Entry4ResStatusPanel.setVisible(false);
    Entry4BillPanel.setVisible(false);
    ReportingOptionsPanel.setVisible(false);
    Entry4ResSlipPanel.setVisible(true);
}

private void BillBTNActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Entry4ResStatusPanel.setVisible(false);
    ReportingOptionsPanel.setVisible(false);
    Entry4ResSlipPanel.setVisible(false);
    Entry4BillPanel.setVisible(true);
}

private void GenerateBillBTNActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    int bno = Integer.parseInt( BokingNo4BillTF.getText());
    if(search(bno))
    {
        new Bill(bno).setVisible(true);
        this.setVisible(false);
    }
    else
    {
        error2.setText("Unable to fine Booking number");
    }
}

```

```

private void back_MainMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    MainMenu m = new MainMenu();
    m.setVisible(true);
    this.setVisible(false);
}

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

private void view_StatusMItemActionPerformed(java.awt.event.ActionEvent evt) {
    Entry4ResSlipPanel.setVisible(false);
    Entry4BillPanel.setVisible(false);
    ReportingOptionsPanel.setVisible(false);
    Entry4ResStatusPanel.setVisible(true);
}

private void view_ResSlipMItemActionPerformed(java.awt.event.ActionEvent evt) {
    Entry4ResStatusPanel.setVisible(false);
    ReportingOptionsPanel.setVisible(false);
    Entry4BillPanel.setVisible(false);
    Entry4ResSlipPanel.setVisible(true);
}

private void view_BillMItemActionPerformed(java.awt.event.ActionEvent evt) {
    Entry4ResStatusPanel.setVisible(false);
    ReportingOptionsPanel.setVisible(false);
    Entry4ResSlipPanel.setVisible(false);
    Entry4BillPanel.setVisible(true);
}

private void BokingNo4ResSlipTFActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

## **CODE FOR FRAME 4:**

```
import java.sql.*;
```

```

import javax.swing.JOptionPane;
import java.text.*;

public class ReservaTionSlip extends javax.swing.JFrame {
    int bookingNo;
    /** Creates new form ReservaTionSlip */
    public ReservaTionSlip(int bno) {
        initComponents();
        bookingNo = bno;
        BNoL.setText(bno + "");
        java.util.Date D = new java.util.Date();
        DateFormat df = DateFormat.getDateInstance(DateFormat.SHORT);
        dateL.setText(df.format(D));
        try {
            Class.forName("java.sql.Driver");
            String database = "jdbc:mysql://localhost:3306/Hotal";
            Connection conn = DriverManager.getConnection(database, "root", "pace");
            Statement stmt = conn.createStatement();
            String sql = "select * from Booking where BookingNo = " + bookingNo;
            ResultSet rs = stmt.executeQuery(sql);
            if(rs.next())
            {
                RNoL.setText(rs.getString("RoomNo"));
                NameL.setText(rs.getString("CustName"));
                AddressL.setText(rs.getString("Address"));
                FromL.setText(df.format(rs.getDate("FromD")));
                ToL.setText(df.format(rs.getDate("ToD")));
                String s = rs.getString("Sex");
                if(s.equals("m"))
                    s = "Male";
                else
                    s = "Female";
                SexL.setText(s);
                AgeL.setText(rs.getString("Age"));
                AdvanceL.setText(rs.getString("Advance"));
            }
            rs.close();
            stmt.close();
            conn.close();
        }
        catch (Exception e) { JOptionPane.showMessageDialog(null,"" + e);
        }
    }

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

```



```

        new Bill(bookingNo).setVisible(true);
        this.setVisible(false);
    }

```

## **CODE FOR FRAME 5:**

```

import java.sql.*;
import javax.swing.table.*;
import javax.swing.JOptionPane;
public class Status extends javax.swing.JFrame {
    int month;

    /** Creates new form Status */
    public Status(int m) {
        initComponents();
        month=m;
        int SNo = 1;
        jLabel2.setText(jLabel2.getText() + month + "/2011");
        dateLBL.setText(month+ "/2010");
        try {
            Class.forName("java.sql.Driver");
            String database = "jdbc:mysql://localhost:3306/Hotal";
            Connection conn = DriverManager.getConnection(database, "root", "pace");
            Statement stmt = conn.createStatement();
            String sql = "select * from Status" + m;
            ResultSet rs = stmt.executeQuery(sql);
            Object[] newrow = new Object[34];
            while(rs.next())
            {
                newrow[0] = SNo + "";
                int max =0;
                if(m==2)
                    max = 28;
                else if(m==4 || m==6 || m==9 || m==11)
                    max=30;
                else
                    max =31;
                for(int i=1;i<max+3;i++)
                    newrow[i]=rs.getObject(i);
                for(int j=33;j>max+2;j--)
                    newrow[j]="-";
                DefaultTableModel tm = (DefaultTableModel)statusTBL.getModel();
                tm.addRow(newrow);
                SNo++;
            }
            rs.close();

```

```

        stmt.close();
        conn.close();
    }
    catch (Exception e) { JOptionPane.showMessageDialog(null,"" + e);
    }

}

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

```

## **CODE FOR FRAME 6:**

```

import java.sql.*;
import javax.swing.JOptionPane;
import java.util.*;

public class BookCancel extends javax.swing.JFrame {

    /** Creates new form BookCancel */
    int stayTime;
    int aMonth,dMonth;
    int aDay;
    int dDay;
    int aYear;
    int dYear;
    public BookCancel() {
        initComponents();
        BookingDetailsPart2Panel.setVisible(false);
        cancelBookingPanel.setVisible(false);
        EnterBookingDetailsPanel.setVisible(false);
        bookCancelOptionsPanel.setVisible(true);
        String m ="0";
        for(int i=1; i<=12; i++)
        {
            if(i>9)
                m="";
            Month.addItem(m+ i);
            Month1.addItem(m+ i);
        }
        ContinueBtn.setVisible(false);
        cancelBtn.setVisible(false);
    }
}

```

```

private void CancelBookingActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    EnterBookingDetailsPanel.setVisible(false);
    BookingDetailsPart2Panel.setVisible(false);
    bookCancelOptionsPanel.setVisible(false);
    cancelBookingPanel.setVisible(true);
}

```

```

private void BookingActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    BookingDetailsPart2Panel.setVisible(false);
    cancelBookingPanel.setVisible(false);
    bookCancelOptionsPanel.setVisible(false);
    EnterBookingDetailsPanel.setVisible(true);
}

```

```

private void BackActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    MainMenu m = new MainMenu();
    m.setVisible(true);
    this.setVisible(false);
}

```

```

private int getMax(int month1,int month2, int d2)
{
    if(month1 == month2)
        return d2;
    else if(month1 == 2)
        return 28;
    else if(month1==4 || month1==6 || month1==9 || month1==11)
        return 30;
    else
        return 31;
}

```

```

private int search(int month, int month2, int day1, int day2, String Tcode)
{
    String avail="f";
    boolean found = false;
    int rNo = 0;
    int max = getMax(month,month2,day2);
    try {
        Class.forName("java.sql.Driver");
        String database = "jdbc:mysql://localhost:3306/Hotal";

```

```

Connection conn = DriverManager.getConnection(database, "root", "pace");
Statement stmt = conn.createStatement();
String sql = "select * from Status" + month + " where TypeCode = '" + Tcode + "'";
ResultSet rs = stmt.executeQuery(sql);
while(rs.next())
{
    int i;
    for(i=day1; i<=max; i++)
    {
        avail = rs.getString(i+2);

        if (avail.equals("b") || avail.equals("o"))
            break;
    }
    if(i == max+1)
    {
        rNo = rs.getInt(1);
        if(month != month2)
            found = search2(month+1,month2,1,day2,Tcode,rNo);
        else
            break;
        if(found)
            break;
    }
}
rs.close();
stmt.close();
conn.close();
} catch (Exception e) { ReportLBL.setText("Incorrect Entry" + e);}
return rNo;
}

private boolean search2(int month1 , int month2,int day1,int day2, String Tcode , int rno)
{
    String avail="f";
    boolean found = false;
    int rNo = 0;
    int max = getmax(month1,month2,day2);
    try {
        Class.forName("java.sql.Driver");
        String database = "jdbc:mysql://localhost:3306/Hotal";
        Connection conn = DriverManager.getConnection(database, "root", "pace");
        Statement stmt = conn.createStatement();

```

```

        String sql = "select * from status" + month1 + " where TypeCode = '" + Tcode + "' and RoomNo
= " + rno;
        ResultSet rs = stmt.executeQuery(sql);
        rs.next();
        int i;
        for(i=day1; i<=max; i++)
        {
            avail = rs.getString(i+2);
            if (avail.equals("b") || avail.equals("o"))
                break;
        }
        if(i == max+1)
        {
            if(month1 != month2)
                found = search2(month1+1,month2,1,day2,Tcode,rNo);
            else
                return true;
        }
        rs.close();
        stmt.close();
        conn.close();
    } catch (Exception e) { ReportLBL.setText("Incorrect Entry");}
    return found;
}

private void SearchBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    ReportLBL.setText(" ");
    boolean found = false;
    ContinueBtn.setVisible(false);
    int roomNo=0;
    int month = Integer.parseInt(Month.getSelectedItem().toString());
    aMonth=month;
    int month2 = Integer.parseInt(Month1.getSelectedItem().toString());
    dMonth=month2;
    int day1 = Integer.parseInt(Date.getSelectedItem().toString());
    aDay=day1;
    int day2 = Integer.parseInt(Date1.getSelectedItem().toString());
    dDay=day2;
    int y1 = Integer.parseInt(year.getSelectedItem().toString());
    aYear=y1;
    int y2 = Integer.parseInt(year1.getSelectedItem().toString());
    dYear=y2;

```

```

char avail = 'n';
String Tcode = TCode.getSelectedItem().toString();
roomNo = search(month,month2,day1,day2,Tcode);
if(roomNo ==0)
    ReportLBL.setText("No Room available.");
else
{
    ReportLBL.setText("Room No. " + roomNo + " is Available. Click continue to book the
room.");
    ContinueBtn.setVisible(true);
    RNoLBL.setText(roomNo + "");
    ArrivalTF.setText(""+y1 + "/" + month + "/" + day1);
    DepartureTF.setText(""+y2 + "/" + month2 + "/" + day2);
}
Calendar c = Calendar.getInstance();
c.set(y1,month,day1);
Calendar c2 = Calendar.getInstance();
c2.set(y2,month2,day2);
stayTime = (int)((c2.getTimeInMillis() - c.getTimeInMillis())/(1000*60*60*24));
Stay.setText(""+stayTime);
}

```

```

private void continueBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    cancelBtn.setVisible(false);
    int bno =Integer.parseInt( BookingNoTF.getText());
    try {
        Class.forName("java.sql.Driver");
        String database = "jdbc:mysql://localhost:3306/Hotal";
        Connection conn = DriverManager.getConnection(database, "root", "pace");
        Statement stmt = conn.createStatement();
        String sql = "select RoomNo, FromD, ToD from Booking where BookingNo = " + bno ;
        ResultSet rs = stmt.executeQuery(sql);
        if(rs.next())
        {
            int rno = rs.getInt("RoomNo");
            Calendar c = Calendar.getInstance();
            Calendar c2 = Calendar.getInstance();
            c.setTime(rs.getDate(2));
            c2.setTime(rs.getDate(3));
            int month1 = c.get(Calendar.MONTH) + 1;
            int month2 = c2.get(Calendar.MONTH) + 1;

```

```

int day1 = c.get(Calendar.DATE);
int day2 = c2.get(Calendar.DATE);
while(month1<=month2)
{
    int max=getmax(month1,month2,day2);
    int min=0;
    if(month1==month2)
        min=day1;
    else
        min=1;
    for(int d=min;d<=max;d++)
    {
        String sql3 = "update Status" + month1 + " set D" + d + " = 'f' where RoomNo = " + rno;
        stmt.executeUpdate(sql3);
    }
    month1++;
}
error1.setText("Click continue to genrate calcelation slip");
cancelBtn.setVisible(true);
}
else
{
    error1.setText("Unable to find booking number");
}
stmt.close();
conn.close();
} catch (Exception e) { error1.setText("Unable to find booking number");
    JOptionPane.showMessageDialog(null,"Invalid Data" + e);
}
}

```

```

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

```

```

private void MonthItemStateChanged(java.awt.event.ItemEvent evt) {
    // TODO add your handling code here:
    Date.removeAllItems();
    String m="0";
    int mon =0,days=0;
    int yr = Integer.parseInt(year.getSelectedItem().toString());
    if(Month.getSelectedIndex()>=1)

```

```

{
    mon = Integer.parseInt(Month.getSelectedItem().toString());
}
if(mon==2)
    if(yr%4 != 0)
        days = 28;
    else
        days = 29;
else if( mon==4 || mon ==6 || mon==9 || mon==11)
    days = 30;
else
    days = 31;
for(int i =1; i<=days ;i++)
{
    if(i>9)
        m="";
    Date.addItem(m+i);
}
}

```

```

private void Month1ItemStateChanged(java.awt.event.ItemEvent evt) {
    Date1.removeAllItems();
    String m="0";
    int mon =0,days=0;
    int yr = Integer.parseInt(year1.getSelectedItem().toString());
    if(Month1.getSelectedIndex()>=1)
    {
        mon = Integer.parseInt(Month1.getSelectedItem().toString());
    }
    if(mon==2)
        if(yr%4 != 0)
            days = 28;
        else
            days = 29;
    else if( mon==4 || mon ==6 || mon==9 || mon==11)
        days = 30;
    else
        days = 31;
    for(int i =1; i<=days ;i++)
    {
        if(i>9)
            m="";

```



```

        Date1.addItem(m+i);
    }
}

private void ContinueBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String code = TCode.getSelectedItem().toString();
    try {
        Class.forName("java.sql.Driver");
        String database = "jdbc:mysql://localhost:3306/Hotal";
        Connection conn = DriverManager.getConnection(database, "root", "pace");
        Statement stmt = conn.createStatement();
        String sql = "select Charges from Type where TypeCode = '" + code + "'";
        ResultSet rs = stmt.executeQuery(sql);
        rs.next();
        int charge = rs.getInt("Charges");
        charge = charge * stayTime;
        totalChargesLBL.setText(charge+"");
        rs.close();
        stmt.close();
        conn.close();
    } catch (Exception e) { }
    EnterBookingDetailsPanel.setVisible(false);
    cancelBookingPanel.setVisible(false);
    BookingDetailsPart2Panel.setVisible(true);
}

```

```

private void BookBTNActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    char gender = 'n';
    int month=aMonth;
    if(MaleRB.isSelected())
        gender = 'm';
    else if(FemaleRB.isSelected())
        gender = 'f';
    int age = Integer.parseInt(AgeTF.getText());
    int rno =Integer.parseInt(RNoLBL.getText());
    int advance =Integer.parseInt(AdvanceTF.getText());
    int tot =Integer.parseInt(totalChargesLBL.getText());
    try
    {
        Class.forName("java.sql.Driver");

```

```

String database = "jdbc:mysql://localhost:3306/Hotal";
Connection conn = DriverManager.getConnection(database, "root", "pace");
Statement stmt2 = conn.createStatement();
String sql2 = "Select max(BookingNo) from Booking";
ResultSet rs = stmt2.executeQuery(sql2);
rs.next();
int bno = rs.getInt(1)+1;
Statement stmt = conn.createStatement();
String sql = "insert into Booking values (" + bno + ", '" + nameTF.getText() + "', '" +
AddressTF.getText() + "', '" + gender + "', '" + age + "', '" + rno + "', '" + ArrivalTF.getText() + "', '" +
DepartureTF.getText() + "', '" + advance + "', '" + tot + "')";
stmt.executeUpdate(sql);
while(month<=dMonth)
{
    int max=getmax(month,dMonth,dDay);
    int min=0;
    if(month==aMonth)
        min=aDay;
    else
        min=1;
    for(int d=min;d<=max;d++)
    {
        String sql3 = "update status" + month + " set D" + d + " = 'b' where RoomNo = " + rno;
        stmt.executeUpdate(sql3);
    }
    month++;
}
JOptionPane.showMessageDialog(null,"Room booked. Booking number is: "+ bno);
stmt.close();
stmt2.close();
conn.close();
new ReservaTionSlip(bno).setVisible(true);
this.setVisible(false);
}
catch (Exception e) { JOptionPane.showMessageDialog(null,"Invalid Data" + e); }
}

```

```

private void cancelBtnActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    int bookingNo =Integer.parseInt( BookingNoTF.getText());
    new CancellationSlip(bookingNo).setVisible(true);
    this.setVisible(false);
}

```

```

}

private void back_MainMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    MainMenu m = new MainMenu();
    m.setVisible(true);
    this.setVisible(false);
}

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

private void edit_BookMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
    BookingDetailsPart2Panel.setVisible(false);
    cancelBookingPanel.setVisible(false);
    bookCancelOptionsPanel.setVisible(false);
    EnterBookingDetailsPanel.setVisible(true);
}

private void edit_CancelMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
    EnterBookingDetailsPanel.setVisible(false);
    BookingDetailsPart2Panel.setVisible(false);
    bookCancelOptionsPanel.setVisible(false);
    cancelBookingPanel.setVisible(true);
}

```

## **CODE FOR FRAME 7:**

```

import java.sql.*;
import javax.swing.JOptionPane;
import java.text.*;

public class CancellationSlip extends javax.swing.JFrame {
    int bookingNo;
    /** Creates new form CancellationSlip */
    public CancellationSlip(int bno) {
        initComponents();
        bookingNo = bno;
        BNoL.setText(bno + "");
        java.util.Date D = new java.util.Date();
        DateFormat df = DateFormat.getDateInstance(DateFormat.SHORT);
    }

```

```

dateL.setText(df.format(D));
try {
    Class.forName("java.sql.Driver");
    String database = "jdbc:mysql://localhost:3306/Hotal";
    Connection conn = DriverManager.getConnection(database, "root", "pace");
    Statement stmt = conn.createStatement();
    String sql = "select * from Booking where BookingNo = " + bno;
    ResultSet rs = stmt.executeQuery(sql);
    if(rs.next())
    {
        RNoL.setText(rs.getString("RoomNo"));
        NameL.setText(rs.getString("CustName"));
        AddressL.setText(rs.getString("Address"));
        FromL.setText(df.format(rs.getDate("FromD")));
        ToL.setText(df.format(rs.getDate("ToD")));
        String s = rs.getString("Sex");
        if(s.equals("m"))
            s = "Male";
        else
            s = "Female";
        SexL.setText(s);
        AgeL.setText(rs.getString("Age"));
        int tot = rs.getInt("Total");
        int fee = (int)(tot * 0.1);
        CanL.setText(fee + "");
    }
    String sqlD = "delete from Booking where BookingNo = " + bookingNo;
    stmt.executeUpdate(sqlD);
    stmt.close();
    conn.close();
}
catch (Exception e) { JOptionPane.showMessageDialog(null, "" + e);
}
}

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

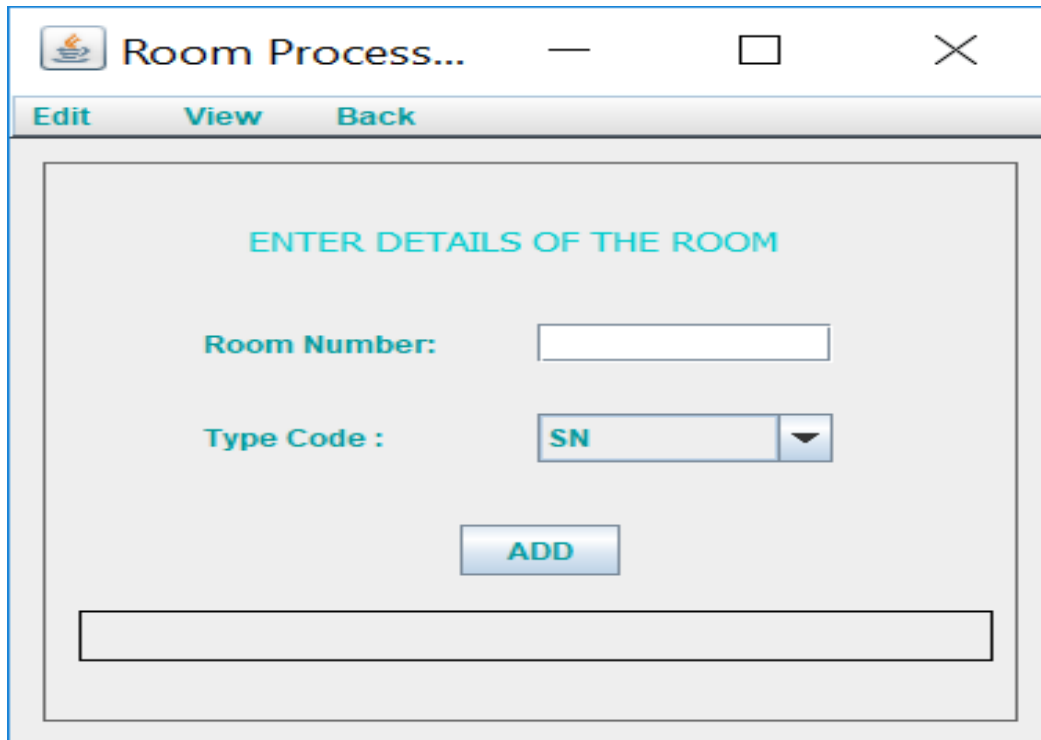
```

## Application Screenshots:

- **FRAME 1:**



- **FRAME 2:**



- **FRAME 3:**

Room Process...

Edit View Back

ENTER DETAILS OF THE ROOM

Room Number:

Type Code :

ADD

- **FRAME 4:**

Design Preview [ReservaTionSlip]

MARRIOT RESORT  
RESERVATION SLIP

Booking No.:	Date:
Room No.	From :
Name:	To :
Address:	Sex :
Advance	Age :
/- Rs	
Authorised Sig...	

- **FRAME 5:**

**MARRIOT RESORT**  
**RESERVATION STATUS FOR THE MONTH 1/2011**  
 DATE: 1/2010

S. No.	Room No.	Type	D1	D2	D3	D4	D5
--------	----------	------	----	----	----	----	----

<< Back

- **FRAME 6:**

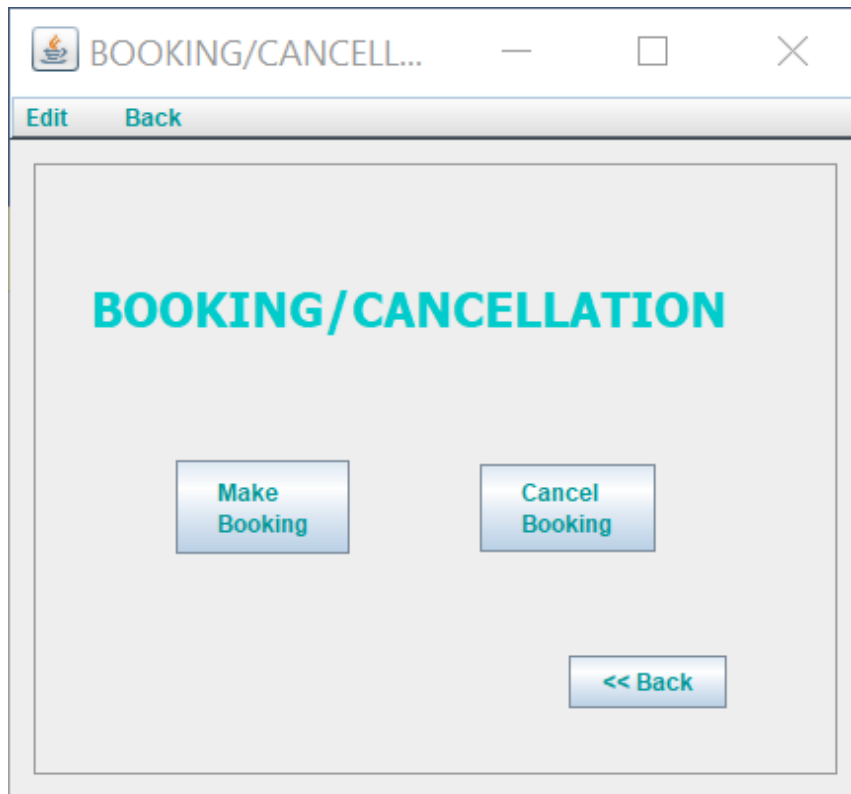
**MARRIOT RESORT**  
**BILL**  
 DATE:

S. No.	Booking No.	Room ...	Charges Per Day	From	To	Advance	Total Charges
--------	-------------	----------	-----------------	------	----	---------	---------------

Total Amount :


<< Back

- **FRAME 7:**



- **FRAME 8:**



 Design Preview [CancellationSlip]

<div>MARRIOT RESORT</div> <div>CANCELLATION SLIP</div>			
Booking No.:			
Room No.	From :		
Name:	Sex :	To :	Age :
Address:			
Cancellation	/- Rs		

<< Back