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* 1. Room Availability
  2. Details of Previous Customer

1. Bibliography
2. **Introduction**

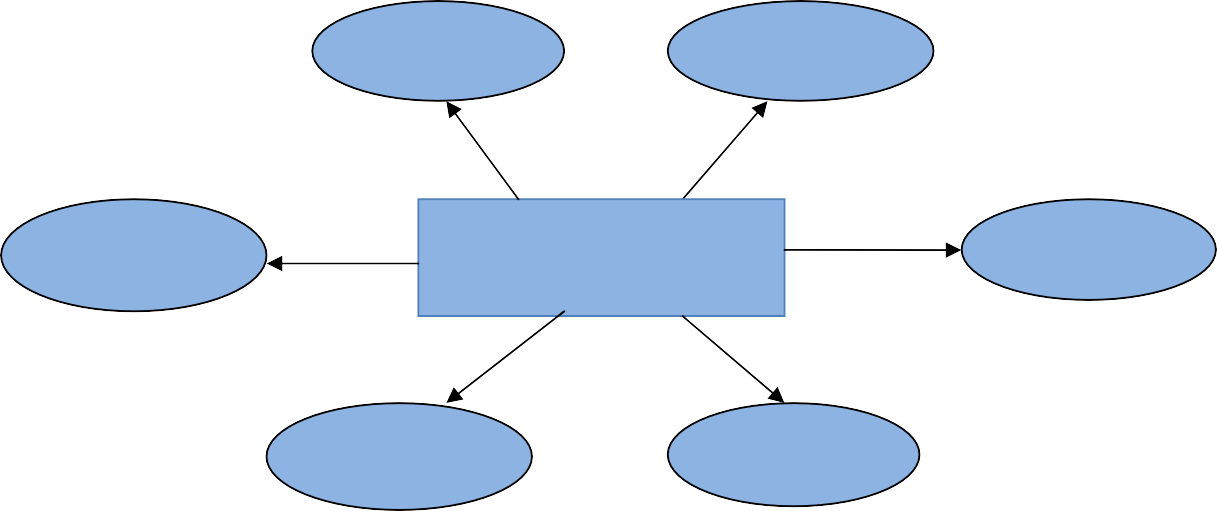
This project is based on a GUI application used in hotel management system. The application contains many jFrameForms used to manage data through database connectivity. The application is connected to a database in mysql .The database contains two tables which contain records of customers. The application can be used to add new customer entry which contains details like name, phone number, booking number, room type, etc. Details of all present and previous customers can be obtained along with details of date and time of entry. During check out existing entries can be deleted. Room availability can be also checked through this application.

Thus, application is very much useful in managing the data records of customers in the hotel.

## Analysis and Design :

**ENTITIES**

**Customer**



Customer

Name

Room Number

Booking

Number

CUSTOMER

Number of

Days

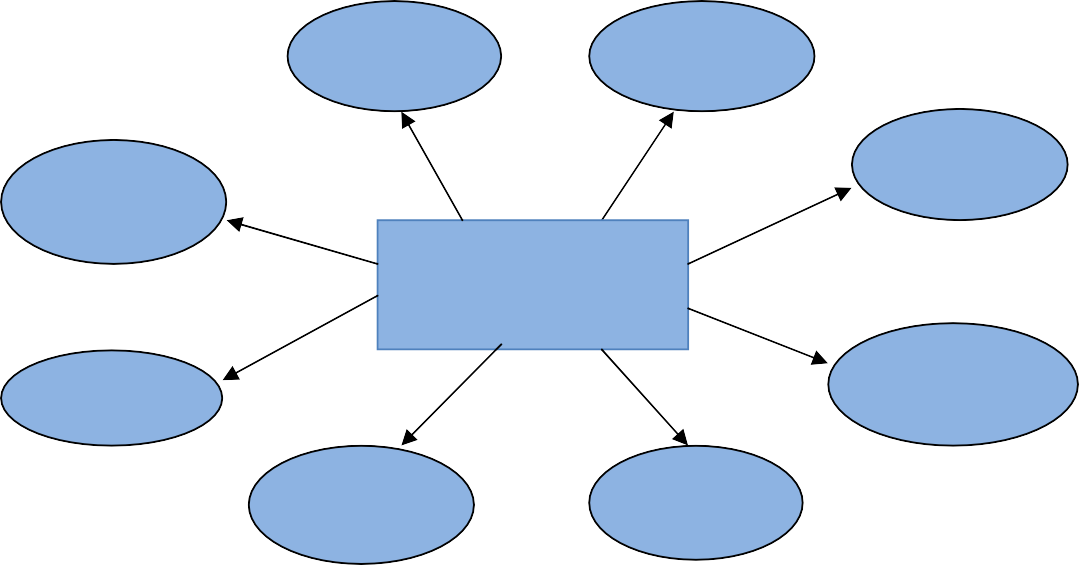
Date of check In

Time

Date of check

In Date

**Hotel**



Customer

Name

Room

Number

Booking

Number

Number of

Days

Hotel

Room

Phone

Number

Room Charge

Per Day

Total

Charges

Hotel room

Deluxe Room

Double Room

**E‐R DIAGRAM (Entity relationship diagram)**

Booked

Single Room

Customer

# Design

Following Technology is used to develop this system

Database : MySQL Community Server (GPL) – Version 5.5.17 Software/Language : NetBeans IDE 8.2

**Database Design:**

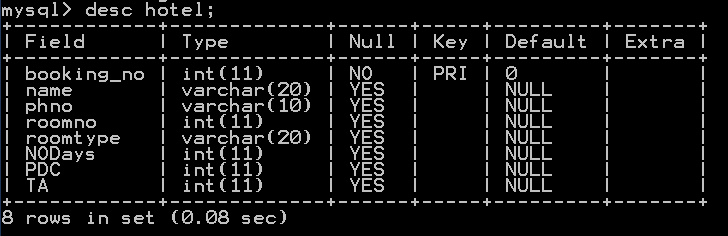
This project contain following two tables Hotel

Customer

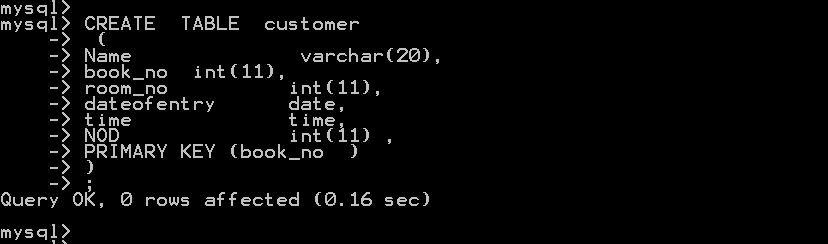
The structure of tables is as follow

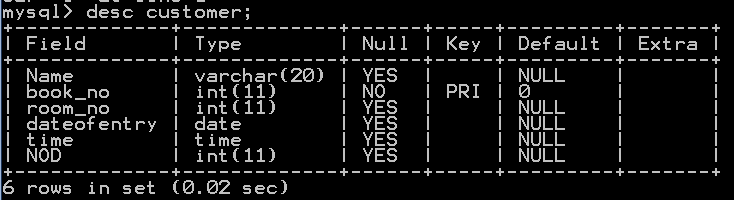
* 1. **Table Structure Table : Hotel**



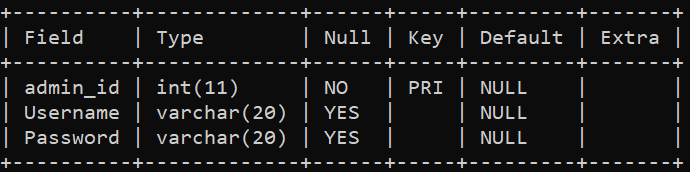


**Table: Customer**

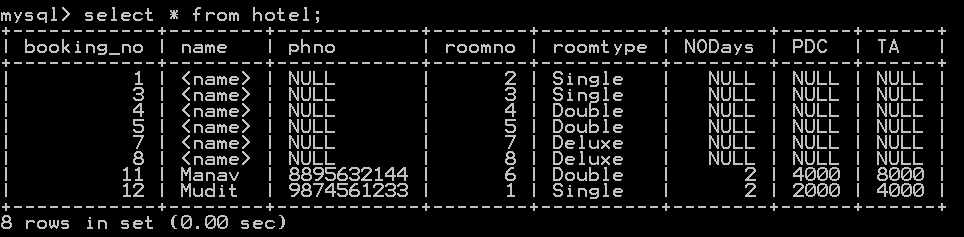


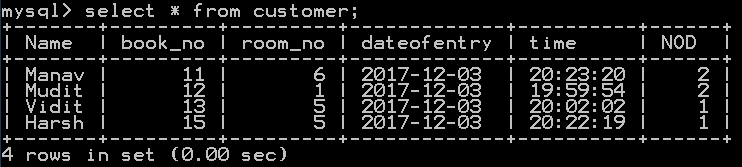


**Table: Admin**

****

* 1. **Sample Table Data**



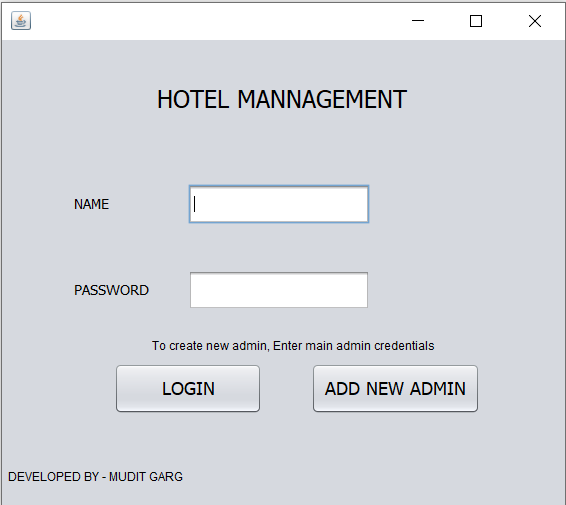


1. **Activities**
   1. **Login Screen**

Initially Hotel staff have to login into system using this screen It contain two input field User name and the password .

New Admin can be also be created.

* + 1. **Screen Shot**

****

* + 1. **code**

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

### //LOGIN BUTTON

### String a = jTextField1.getText();

### String b = jTextField2.getText();

### if (!a.isEmpty() || !b.isEmpty()) {

### try {

### Class.forName("java.sql.Driver");

### java.sql.Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/mudit", "root", "madhu304");

### Statement stmt = (Statement) con.createStatement();

### String query = "select \* from admin;";

### ResultSet rs = stmt.executeQuery(query);

### 

### int t = 0;

### while (rs.next()) {

### String name = rs.getString("Username");

### String pass = rs.getString("Password");

### if (a.equals(name) && b.equals(pass)) {

### this.setVisible(false);

### Hotel\_Mannagement n = new Hotel\_Mannagement();

### n.setVisible(true);

### t = 1;

### break;

### }

### }

### 

### if(t == 0){

### JOptionPane.showMessageDialog(this,"Incorrect Username or Password");

### jTextField1.setText("");

### jTextField2.setText("");

### }

### } catch (Exception e) {

### JOptionPane.showMessageDialog(this, e.getMessage());

### }

### } else {

### JOptionPane.showMessageDialog(this, "Please enter Username and Password");

### }

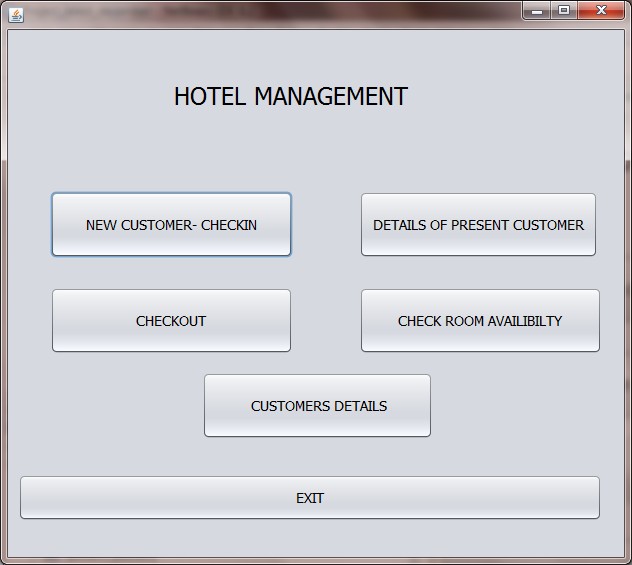
## Hotel Management

This is main screen for Hotel Management system. It contain following main sub function

* New Customer – Check in
* Details of present Customer
* Checkout
* Check room Availability
* Customer Details
* Exit

Functionality of each function will explain in further in this document.

## Screen Shot



* + 1. **Code**

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

### //EXIT BUTTON

System.exit(0);

// TODO add your handling code here:

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

### //NEW CUSTOMER BUTTON

this.setVisible(false);

Newcustomer n = new Newcustomer(); n.setVisible(true);

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

### //DETAILS OF ALL present CUSTOMERS BUTTON

this.setVisible(false); DETAILS m = new DETAILS();

m.setVisible(true);

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

### //DELETE BUTTON

this.setVisible(false); Delete d = new Delete(); d.setVisible(true);

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

### //ROOM AVALAIBILTY BUTTON

this.setVisible(false);

room\_availaible d = new room\_availaible(); d.setVisible(true);

// TODO add your handling code here:

}

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

### //DETAILS OF ALL PREVIOUS CUSTOMERS BUTTON

this.setVisible(false); alldetails d = new alldetails(); d.setVisible(true);

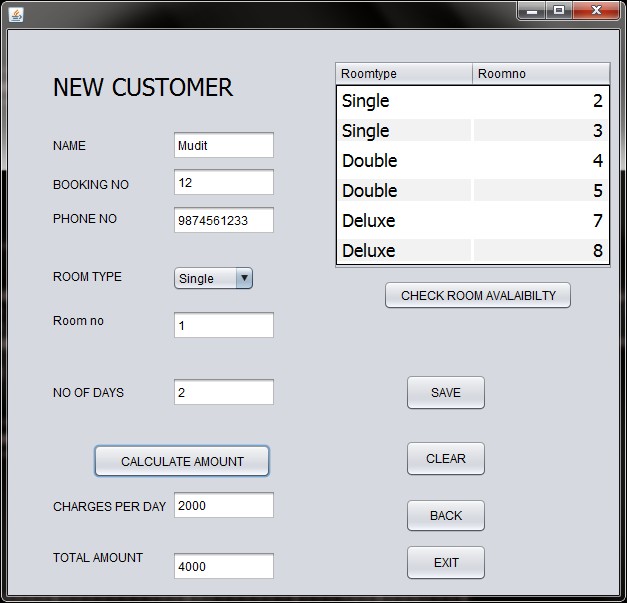
// TODO add your handling code here:

}

## Add New Customer

This Screen is used for Adding new customer in the hotel management system.

## Screen Shot



* + 1. **Code**

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

### //ROOM AVAILAIBILITY BUTTON

DefaultTableModel model = (DefaultTableModel) jTable1.getModel(); int l = model.getRowCount();

for (int i = 0; i < l; i++)

{

model.removeRow(0);

}

try {

Class.forName("java.sql.Driver"); java.sql.Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/your\_database\_name”, “root”, “mysql password”);

Statement stmt = (Statement) con.createStatement();

String query = "select roomtype,roomno from hotel where name='<name>' order by roomno;";

ResultSet rs = stmt.executeQuery(query);

while (rs.next())

{

String roomtype = rs.getString("roomtype"); int roomno = rs.getInt("roomno");

model.addRow(new Object[]{roomtype, roomno});

}

int a = model.getRowCount();

JOptionPane.showMessageDialog(null, "There are " + a + " rooms availaible ");

}

catch (Exception e)

{

JOptionPane.showMessageDialog(null, "error"); JOptionPane.showMessageDialog(this, e.getMessage());

}

// TODO add your handling code here:

}

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

### //CALCULATE AMOUNT BUTTON

int k;

String c = jComboBox1.getSelectedItem().toString(); int nod = Integer.parseInt(jTextField5.getText());

if (c.equals("Single")) { k = 2000;

jTextField7.setText(Integer.toString(k \* nod)); jTextField6.setText("2000");

} else if (c.equals("Double")) { k = 4000;

jTextField7.setText(Integer.toString(k \* nod)); jTextField6.setText("4000");

} else if (c.equals("Deluxe")) { k = 6000;

jTextField7.setText(Integer.toString(k \* nod)); jTextField6.setText("6000");

}

jButton1.setEnabled(true);

// TODO add your handling code here:

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

### //SAVE BUTTON

try {

Class.forName("java.sql.Driver"); java.sql.Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/your\_database\_name”, “root”, “mysql password”);

int g, k = 0;

String rt;//room type

rt = jComboBox1.getSelectedItem().toString(); switch (rt) {

case "Single": k = 2000;

break;

case "Double": k = 4000;

break;

case "Deluxe": k = 6000;

break; default:

break;

}

jTextField6.setText("" + k);

String b = jTextField1.getText();//name

int a = Integer.parseInt(jTextField2.getText());//booking no Long c = Long.parseLong(jTextField3.getText());//phno

int d = Integer.parseInt(jTextField4.getText());//room no int e = Integer.parseInt(jTextField5.getText());// no of days g = k \* e;

jTextField7.setText("" + g);

Statement stmt = (Statement) con.createStatement();

String query = "select name from hotel where roomno=" + d + ";"; String query1 = "select \* from customer where book\_no=" + a + ";";

ResultSet rs2 = stmt.executeQuery(query1); if(rs2.next())

JOptionPane.showMessageDialog(null, "Booking number is used before"); else

{

ResultSet rs = stmt.executeQuery(query); if (rs.next())

{

String n = rs.getString("name"); if (n.equals("<name>"))

{

String query2 = "update hotel set booking\_no=" + a + ",name='" + b + "',phno='" + c + "',NODays=" + e + ",PDC=" + k + ",TA=" + g + " where roomno=" + d + " and roomtype='" + rt + "' order by roomno;";

stmt.executeUpdate(query2); JOptionPane.showMessageDialog(null, query2);

ResultSet rs1 = stmt.executeQuery(query); if (rs1.next())

{

n = rs1.getString("name"); if (n.equals("<name>"))

{

JOptionPane.showMessageDialog(null, "room " + d + " is not availaible for selected room type");

} else

{

String query3 = "insert into customer values('" + b + "'," + a + "," + d + ",curdate(),curtime()," + e + ");";

stmt.executeUpdate(query3); JOptionPane.showMessageDialog(null, "Saved Successfully");

}

}

}

else

{

JOptionPane.showMessageDialog(null, "Room is not availaible");

}

}

}

stmt.close();

con.close();

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this, e.getMessage()); JOptionPane.showMessageDialog(this, "enter correct value");

}

jButton1.setEnabled(false);

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

### //CLEAR BUTTON

jTextField1.setText(""); jTextField2.setText(""); jTextField3.setText(""); jTextField4.setText(""); jTextField5.setText(""); jTextField6.setText(""); jTextField7.setText("");

// TODO add your handling code here:

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

### //BACK BUTTON

this.setVisible(false);

Hotel\_Mannagement d = new Hotel\_Mannagement(); d.setVisible(true);

// TODO add your handling code here:

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

### //EXIT BUTTON

System.exit(0);

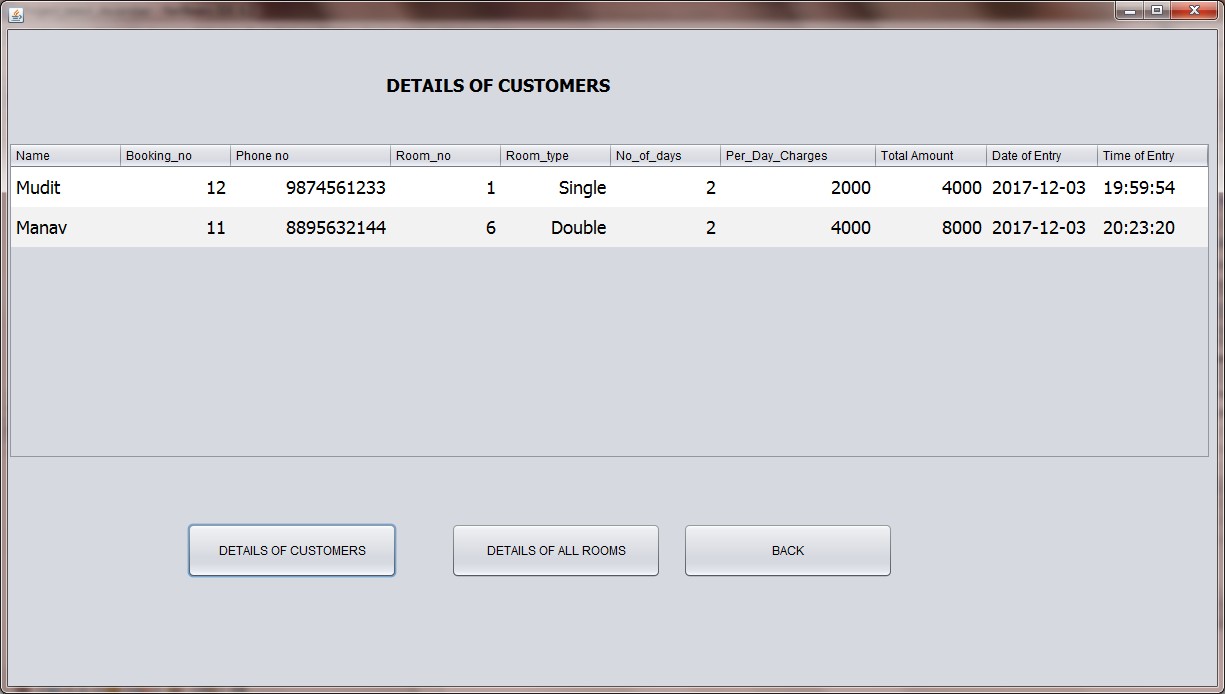
// TODO add your handling code here:

}

## Details of present Customer

This screen use for searching detail of present customer’s staying in hotel.

## Screen Shot



* + 1. **Code**

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

### //DETAILS OF ALL CUSTOMERS BUTTON

DefaultTableModel model1 = (DefaultTableModel) jTable1.getModel(); int l = model1.getRowCount();

for (int i = 0; i < l; i++)

{

model1.removeRow(0);

}

try

{

Class.forName("java.sql.Driver"); java.sql.Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/your\_database\_name”, “root”, “mysql password”);

Statement stmt = (Statement) con.createStatement();

String query = "select \* from hotel,customer where not hotel.name='<name>' and booking\_no=book\_no order by roomno;";

ResultSet rs = stmt.executeQuery(query);

while (rs.next()) {

String name = rs.getString("name"); int Book = rs.getInt("booking\_no"); String phno = rs.getString("phno"); int roomno = rs.getInt("roomno");

String roomtype = rs.getString("roomtype"); int nod = rs.getInt("NODays");

int pdc = rs.getInt("PDC"); int ta = rs.getInt("TA");

String date = rs.getString("dateofentry"); String time = rs.getString("time");

model1.addRow(new Object[]{name, Book, phno, roomno, roomtype, nod, pdc, ta, date, time});

}

}

catch (Exception e)

{

JOptionPane.showMessageDialog(null, "error"); JOptionPane.showMessageDialog(this, e.getMessage());

}

// TODO add your handling code here:

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

### //DETAILS OF ALL ROOMS BUTTON

DefaultTableModel model1 = (DefaultTableModel) jTable1.getModel(); int l = model1.getRowCount();

for (int i = 0; i < l; i++)

{

model1.removeRow(0);

}

jTable1.getModel();

try {

Class.forName("java.sql.Driver"); java.sql.Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/your\_database\_name”, “root”, “mysql password”);

Statement stmt = (Statement) con.createStatement();

String query = "select \* from hotel order by roomno;"; ResultSet rs = stmt.executeQuery(query);

while (rs.next()) {

String name = rs.getString("name"); int Book = rs.getInt("booking\_no"); String phno = rs.getString("phno"); int roomno = rs.getInt("roomno");

String roomtype = rs.getString("roomtype"); int nod = rs.getInt("NODays");

int pdc = rs.getInt("PDC"); int ta = rs.getInt("TA");

model1.addRow(new Object[]{name, Book, phno, roomno, roomtype, nod, pdc, ta});

}

}

catch (Exception e)

{

JOptionPane.showMessageDialog(null, "error"); JOptionPane.showMessageDialog(this, e.getMessage());

}

// TODO add your handling code here:

}

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

### //BACK BUTTON

this.setVisible(false);

Hotel\_Mannagement d = new Hotel\_Mannagement(); d.setVisible(true);

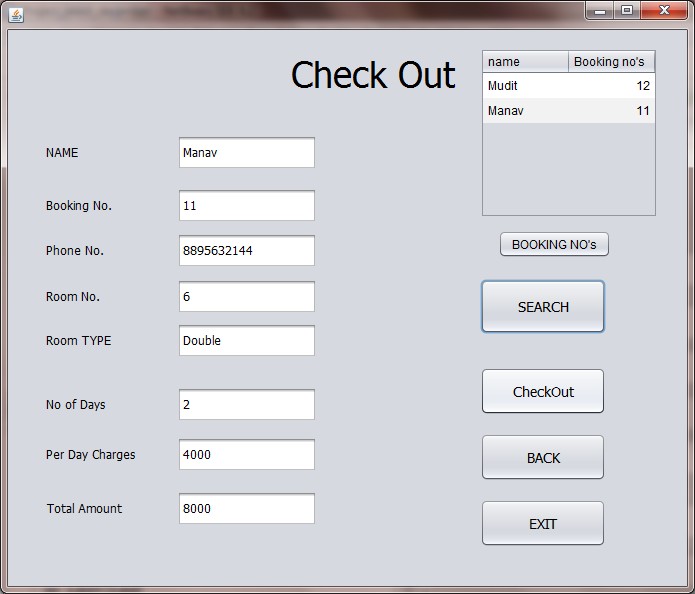
// TODO add your handling code here:

}

## Checkout

When customer checkout the hotel , User can Delete the Entry from present customer record**.**

## Screen Shot



* + 1. **Code**

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

### //BOOKING NO BUTTON

DefaultTableModel model = (DefaultTableModel) jTable1.getModel(); int l = jTable1.getRowCount();

for(int i=0;i<l;i++)

{

model.removeRow(0);

}

try {

Class.forName("java.sql.Driver"); java.sql.Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/your\_database\_name”, “root”, “mysql password”);

Statement stmt = (Statement) con.createStatement();

String query = "select Booking\_no,name from hotel where not name='<name>' order by roomno;";

ResultSet rs = stmt.executeQuery(query);

while (rs.next())

{

int Book = rs.getInt("booking\_no"); String name = rs.getString("name");

model.addRow(new Object[]{name, Book});

}

} catch (Exception e)

{

JOptionPane.showMessageDialog(null, "error"); JOptionPane.showMessageDialog(this, e.getMessage());

}

// TODO add your handling code here:

}

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

### //SEARCH BUTTON

try {

Class.forName("java.sql.Driver"); java.sql.Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/your\_database\_name”, “root”, “mysql password”);

Statement stmt = (Statement) con.createStatement(); String bkn = jTextField2.getText();

String query = "select \* from hotel where booking\_no=" + bkn + ";";

ResultSet rs = stmt.executeQuery(query); int a, d, f, g, h;

String b, c, e; if (rs.next())

{

b = rs.getString("name"); if (b.equals("<name>"))

{

JOptionPane.showMessageDialog(null, "No such record found");

} else

{

a = rs.getInt("booking\_no"); b = rs.getString("name");

c = rs.getString("phno"); d = rs.getInt("roomno");

e = rs.getString("roomtype"); f = rs.getInt("NODays");

g = rs.getInt("PDC");

h = rs.getInt("TA"); jTextField1.setText(b); jTextField3.setText("" + c); jTextField4.setText("" + d); jTextField5.setText("" + e); jTextField6.setText("" + f); jTextField7.setText("" + g); jTextField8.setText("" + h);

JOptionPane.showMessageDialog(null, "Searched Successfully"); jButton3.setEnabled(true);

}

} else

{

JOptionPane.showMessageDialog(null, "No such record found");

}

JOptionPane.showMessageDialog(null, query);

stmt.close();

con.close();

} catch (Exception e)

{

JOptionPane.showMessageDialog(null, "error"); JOptionPane.showMessageDialog(this, e.getMessage());

}

// TODO add your handling code here:

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

### //DELETE BUTTON

try {

Class.forName("java.sql.Driver"); java.sql.Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/your\_database\_name”, “root”, “mysql password”);

int a = Integer.parseInt(jTextField2.getText());//booking no

int d = Integer.parseInt(jTextField4.getText());//room no String query = "update hotel set booking\_no=" + d +

",name='<name>',phno=null,NODays=null,PDC=null,TA=null where booking\_no=" + a + "

;";

JOptionPane.showMessageDialog(null, query);

Statement stmt = (Statement) con.createStatement(); stmt.executeUpdate(query); JOptionPane.showMessageDialog(null, "Deleted Successfully"); stmt.close();

con.close();

} catch (Exception e) { JOptionPane.showMessageDialog(null, "error"); JOptionPane.showMessageDialog(this, e.getMessage());

}

// TODO add your handling code here:

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

### //BACK BUTTON

this.setVisible(false);

Hotel\_Mannagement d = new Hotel\_Mannagement(); d.setVisible(true);

// TODO add your handling code here:

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

### //EXIT BUTTON

System.exit(0);

// TODO add your handling code here:

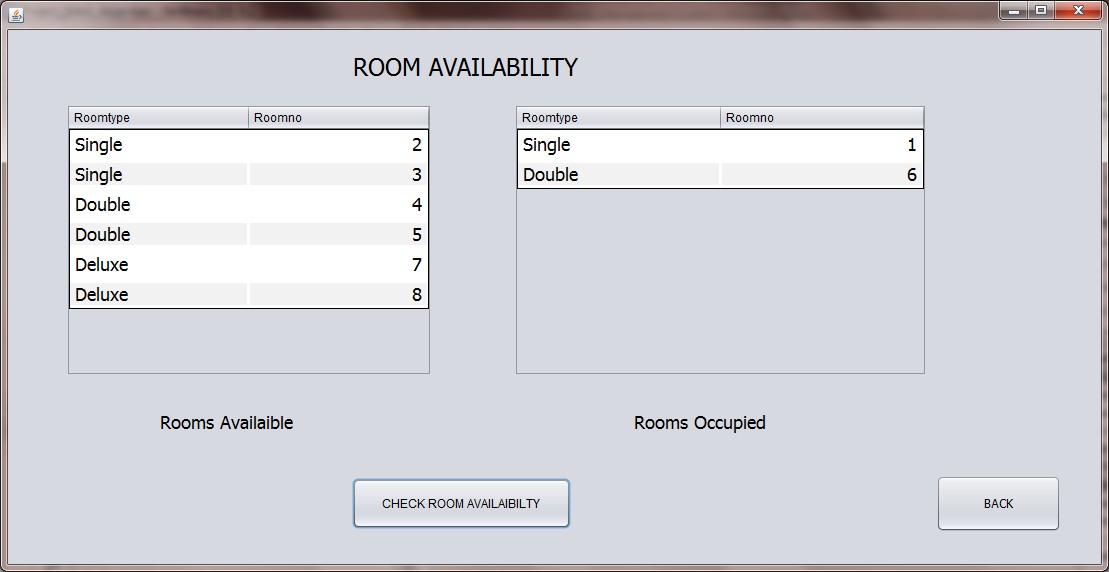
}

## Room Availability

This will show the status of all rooms

* Rooms Available
* Rooms Occupied

## Screen Shot



* + 1. **Code**

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

### //ROOM AVAILAIBLE BUTTON

DefaultTableModel model = (DefaultTableModel) jTable1.getModel(); try {

Class.forName("java.sql.Driver"); java.sql.Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/your\_database\_name”, “root”, “mysql password”);

Statement stmt = (Statement) con.createStatement();

String query = "select roomtype,roomno from hotel where name='<name>' order by roomno;";

ResultSet rs = stmt.executeQuery(query);

while (rs.next())

{

String roomtype = rs.getString("roomtype"); int roomno = rs.getInt("roomno");

model.addRow(new Object[]{roomtype, roomno});

}

int a = model.getRowCount();

JOptionPane.showMessageDialog(null, "There are " + a + " rooms availaible ");

}

catch (Exception e)

{

JOptionPane.showMessageDialog(null, "error"); JOptionPane.showMessageDialog(this, e.getMessage());

}

DefaultTableModel model1 = (DefaultTableModel) jTable2.getModel(); try {

Class.forName("java.sql.Driver"); java.sql.Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/your\_database\_name”, “root”, “mysql password”);

Statement stmt = (Statement) con.createStatement();

String query = "select roomtype,roomno from hotel where not name='<name>' order by roomno;";

ResultSet rs = stmt.executeQuery(query);

while (rs.next())

{

String roomtype = rs.getString("roomtype"); int roomno = rs.getInt("roomno");

model1.addRow(new Object[]{roomtype, roomno});

}

int a = model1.getRowCount();

JOptionPane.showMessageDialog(null, "There are " + a + " rooms occupied");

}

catch (Exception e)

{

JOptionPane.showMessageDialog(null, "error"); JOptionPane.showMessageDialog(this, e.getMessage());

}

// TODO add your handling code here:

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

### //BACK BUTTON

this.setVisible(false);

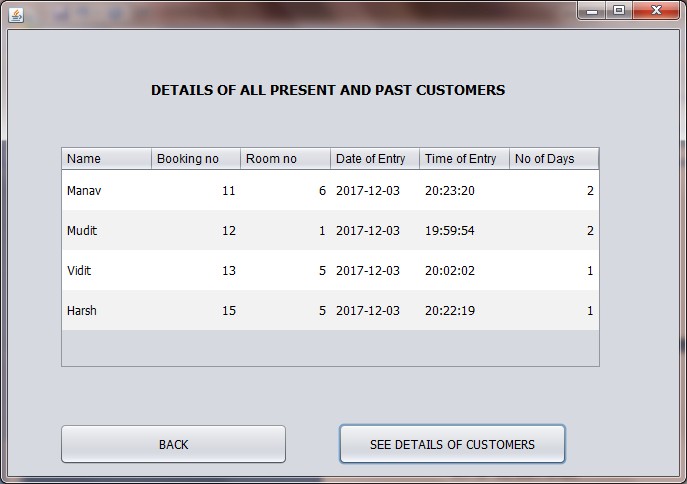
Hotel\_Mannagement d = new Hotel\_Mannagement(); d.setVisible(true);

// TODO add your handling code here:

}

## Customer Details

* + 1. **Screen Shot**



* + 1. **Code**

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

### //DETAILS OF ALL CUSTOMERS BUTTON

DefaultTableModel model1 = (DefaultTableModel) jTable1.getModel(); int l = model1.getRowCount();

for (int i = 0; i < l; i++)

{

model1.removeRow(0);

}

try {

Class.forName("java.sql.Driver"); java.sql.Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/your\_database\_name”, “root”, “mysql password”);

Statement stmt = (Statement) con.createStatement();

String query = "select \* from customer order by dateofentry"; ResultSet rs = stmt.executeQuery(query);

while (rs.next())

{

String name = rs.getString("name"); int Book = rs.getInt("book\_no");

int roomno = rs.getInt("room\_no"); String date = rs.getString("dateofentry"); String time = rs.getString("time");

int NOD = rs.getInt("NOD");

model1.addRow(new Object[]{name, Book, roomno, date, time, NOD});

}

}

catch (Exception e)

{

JOptionPane.showMessageDialog(null, "error"); JOptionPane.showMessageDialog(this, e.getMessage());

}

// TODO add your handling code here:

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

### //BACK BUTTON

this.setVisible(false);

Hotel\_Mannagement d = new Hotel\_Mannagement();

d.setVisible(true);

// TODO add your handling code here:

}