

A Project Report  
*On*  
**Hotel Management System**

*By*

**Yash Pravin Pawar**

*Under the guidance of*

**Dr. K.S.Thakare**



**Department of Information  
TechnologySinhgad College of  
Engineering**

**SAVITRIBAI PHULE PUNE**

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Sinhgad Technical Education Society,  
Department of Information Technology  
Sinhgad College of Engineering , Pune-41



Date:

## **CERTIFICATE**

This is to certify that,

**Yash Pravin Pawar**

of class S.E IT; have successfully completed the project work on “**Hotel Management System**” at SINHGAD COLLEGE OF ENGINEERING in the partial fulfillment of the Graduate Degree course in S.E at the Department of Information Technology, in the academic Year 2017-2018 Semester – I as prescribed by the Savitribai Phule Pune University.

**Dr.K.S.Thakare**  
Guide

**Prof.G.R.Pathak**  
Head of the Department  
(Department of Information Technology)

## Acknowledgement

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Last but not least I would like to thanks all the Teaching, Non- Teaching staff members of my Department, my parent and my colleagues those who helped me directly or indirectly for completing of this Project successfully.

Name of Students

Yash Pravin Pawar

## **Abstract**

This is a Single User Application for Hotel Gran Canaria. This application provides an easy way to manage the room booking details, management of staff and resources. It's a solution to manage all the three problems.

Booking of rooms can be done on the reception by the administrator. The entire system can be accessed only by the admin. The availability of the rooms can be checked also simultaneously.

Management of staff, new registration and information retrieval and update can be done on this application. The resource stock or the resources left in the stock is also provided on this application.

Our project also include the module for employee information. A bill for customer will be generated when the customer will check out of the hotel. We have included only few modules,as our purpose is to only have the idea or to study about how the management is done in hotels.

# INDEX

## **1. TITLE OF THE PROJECT**

## **2. INTRODUCTION**

- Existing System and it's Disadvantages
- Problem definition

## **3. SPECIFIC REQUIRMENTS**

- Hardware Interface
- Software Interface

## **4. THEORY OF SOFTWARE USED**

- Java (JDK)
- MySql

## **5. ER DIAGRAM & SCHEMA DIAGRAM**

## **6. TABLE DESCRIPTION**

## **7. OUTPUT SCREEN (GUI)**

## **8. SAMPLE CODE**

## **9. CONCLUSIO**

**N**

## **10.REFERENCES**

# INTRODUCTION

## 1. Existing System And It's Disadvantages

There are many hotel applications available but the current hotel management system have a very complicated design. There is no single application that shows all the details together. Booking Registration and Staff management can be done by using a single application. Moreover all the resource details are provided in just one system on just a click of the button.

### 1.2. Disadvantages

- The word 'manual' itself makes the existing system outdated in today's high tech world.
- Processing of application manually takes a lot of time.
- Coordinating various departments in this respect is not only time taking but is also acumbersome process.
- The system is not deprived of common manual mistakes.
- The system is also prone to insecurities.
- Some time same activity happens multiple times due to lack of proper communicationamong(DBA's)

## 2. Problem Definition

The problem definition can be made with the aid of an illustrative scenario. Consider a newly started Hotel, the new administrator has to understand the entire system. Its very complicated to handle all the modules together. He/She finds it difficult to register manage staff at the same time book rooms according to the customer.

## **SPECIFIC REQUIREMENTS**

The proposed system analysis contains a planning and design phases where a logical design of system is developed and to work accordingly a plan is established. Also the requirements of system are identified and the operating environment is identified.

### **➤ Hardware**

- A computer acting as a stand alone device.
- Edition- Windows 8 Pro
- Intel core-i3 processor @1.60Ghz
- Installed Ram- 4.00 GB
- System type- 64bit operating system

### **➤ Software**

- Mysql Server 5.1
- Netbeans IDE 8.2
- MySql-Connector-Java-5.1.13-bin

## THEORY OF SOFTWARE USED

### 1. Java

Java is a programming language originally developed by James Gosling at Sun Microsystems (which is now a subsidiary of Oracle Corporation) and released in 1995 as a core component of Sun Microsystems' Java platform. The language derives much of its syntax from C and C++ but has a simpler object model and fewer low-level facilities. Java applications are typically compiled to byte code (class file) that can run on any Java Virtual Machine (JVM) regardless of computer architecture. Java is a general-purpose, concurrent, class-based, object-oriented language that is specifically designed to have as few implementation dependencies as possible. It is intended to let application developers "write once, run anywhere". The java is independent to platform so it's important. Java is currently one of the most popular programming languages in use, and is widely used from application software to web applications.

James Gosling, Mike Sheridan, and Patrick Naughton initiated the Java language project in June 1991. Java was originally designed for interactive television, but it was too advanced for the digital cable television industry at the time. The language was initially called Oak after an oak tree that stood outside Gosling's office; it went by the name Green later, and was later renamed Java, from a list of random words. Gosling aimed to implement a virtual machine and a language that had a familiar C/C++ style of notation.

Java is an object-oriented programming language developed by Sun Microsystems in 1990s. Since then, Java has gained enormous popularity as a computer language. Java was chosen as the programming language for network computers. It is a universal front end for enterprise database. Sun Microsystems states that, "Java is a simple, object-oriented, distributed, secure, architecture, robust, multi-threaded and dynamic language. The program can be written once, and run anywhere". One of the most significant advantages of Java is that, it has the ability to move easily from one computer to another. It also has the ability to run the same program on many different operating systems. With such exemplary benefits, Java is a hot favourite among techies and software professionals it allows you to create modular programs and reusable codes .



## 1.1. Java Features

### 1. Simple, Small and familiar

Java is a simple and small language. The Syntax of java is just like c++, so it is very easy to learn. It is simple because it

- i) does not use header files
- ii) eliminated the use of pointer
- iii) operator overloading and virtual base classes are eliminated.

### 2. Object oriented

Java is a pure Object oriented . everything in java is object. all programs and data reside inside objects and classes

### 3. Distributed

Java has networking facilities. so java can create application on network.

### 4. Robust

Java gives importance to memory management by using the technique called Garbage Collection and Exception handling.

### 5. Secure

Since java is used on internet, security is an important issue. A security code is asked before a java code is interpreted on internet.

### 6. Platform independent

Java compiler generates an platform independent code called byte code.

### 7. Portable

The Byte code generated by java can be used on any machine. So it can be portable.

### 8. Compiled and Interpreted

Generally computer languages are either compiled or interpreted. but java combines both compiler and interpreted.

## 9. High performance

The use of byte code makes the performance high. the speed is also high with comparing c, c++.

## 10. Multi Threading and interactive

Multithreading means handling more than one job at a time. Java supports Multithreading.

## 11. Dynamic and extensible

Java is a dynamic language. So it is capable of linking dynamic new classes, methods and objects. Java supports functions written in c and c++ also. These functions are called `nativemethods`. During Run-Time Native methods can be linked dynamically.

## 2. MySql Database

**MySQL** is an open-source relational database management system(RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation.

### 2.1. Ease of Use

MySQL is written in C and C++. Its SQL parser is written in yacc, but it uses a home-brewed lexical analyzer. MySQL works on many system platforms, including AIX, BSDi, FreeBSD, HP-UX, eComStation, i5/OS, IRIX, Linux, macOS, MicrosoftWindows, NetBSD, Novell NetWare, OpenBSD, OpenSolaris, OS/2 Warp, QNX, Oracle Solaris, Symbian, SunOS, SCO OpenServer, SCO UnixWare, Sanos and Tru64. A port of MySQL to OpenVMS also exists.

The MySQL server software itself and the client libraries use dual-licensing distribution. They are offered under GPL version 2, beginning from 28 June 2000 (which in 2009 has been extended with a FLOSS License Exception) or to use a proprietary license.

Support can be obtained from the official manual. Free support additionally is available in different IRC channels and forums. Oracle offers paid support via its MySQL Enterprise products. They differ in the scope of services and in price. Additionally, a number of third party organisations exist to provide support and services, including MariaDB and Percona.

MySQL has received positive reviews, and reviewers noticed it "performs extremely well in the average case" and that the "developer interfaces are there, and the documentation (not to mention feedback in the real world via Web sites and the like) is very, very good". It has also been tested to be a "fast, stable and true multi-user, multi-threaded sql database server".

## **2. Tons of Features...**

- A broad subset of ANSI SQL 99, as well as extensions
- Cross-platform support
- Stored procedures, using a procedural language that closely adheres to SQL/PSM
- Triggers
- Cursors
- Updatable views
- Online DDL when using the InnoDB Storage Engine.
- Information schema
- Performance Schema that collects and aggregates statistics about server execution and query performance for monitoring purposes.
- A set of SQL Mode options to control runtime behavior, including a strict mode to better adhere to SQL standards.
- X/Open XA distributed transaction processing (DTP) support; two phase commit as part of this, using the default InnoDB storage engine
- Transactions with savepoints when using the default InnoDB Storage Engine. The NDB Cluster Storage Engine also supports transactions.
- ACID compliance when using InnoDB and NDB Cluster Storage Engines
- SSL support
- Query caching
- Sub-SELECTs (i.e. nested SELECTs)

# 1. E-R Diagram

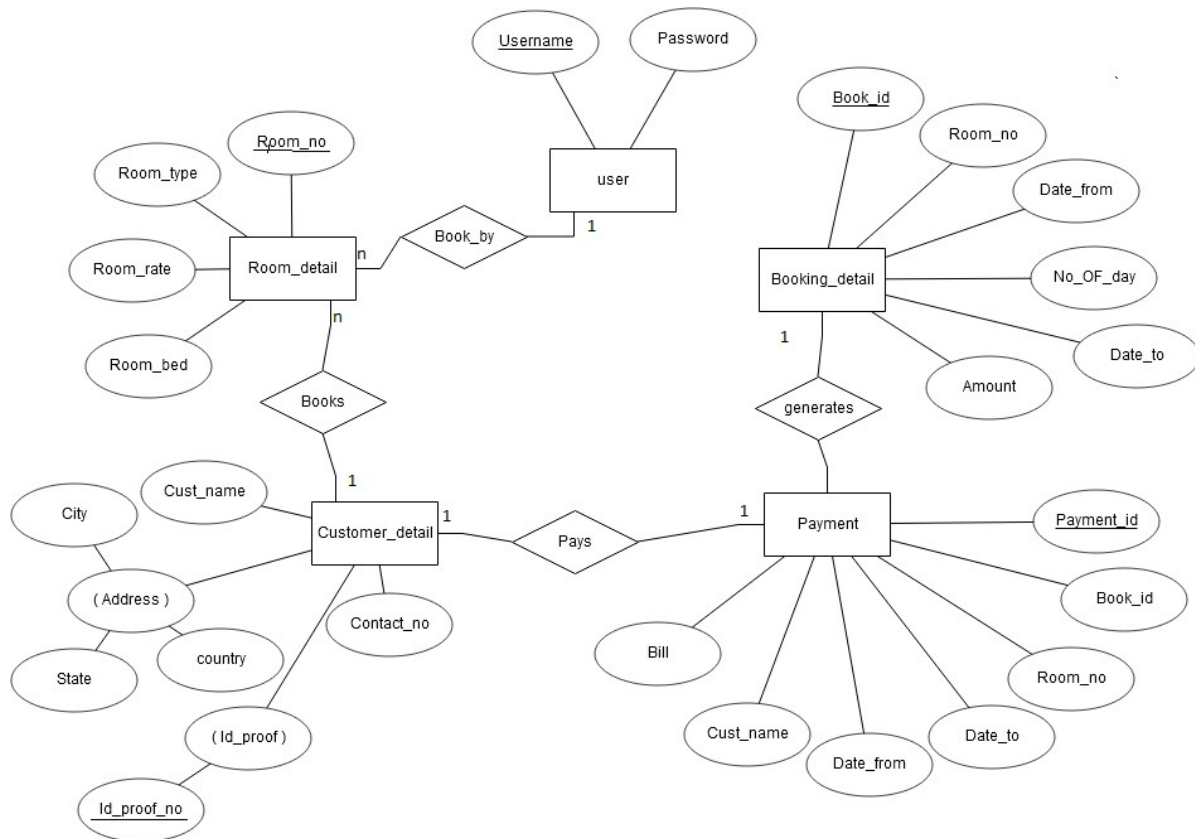
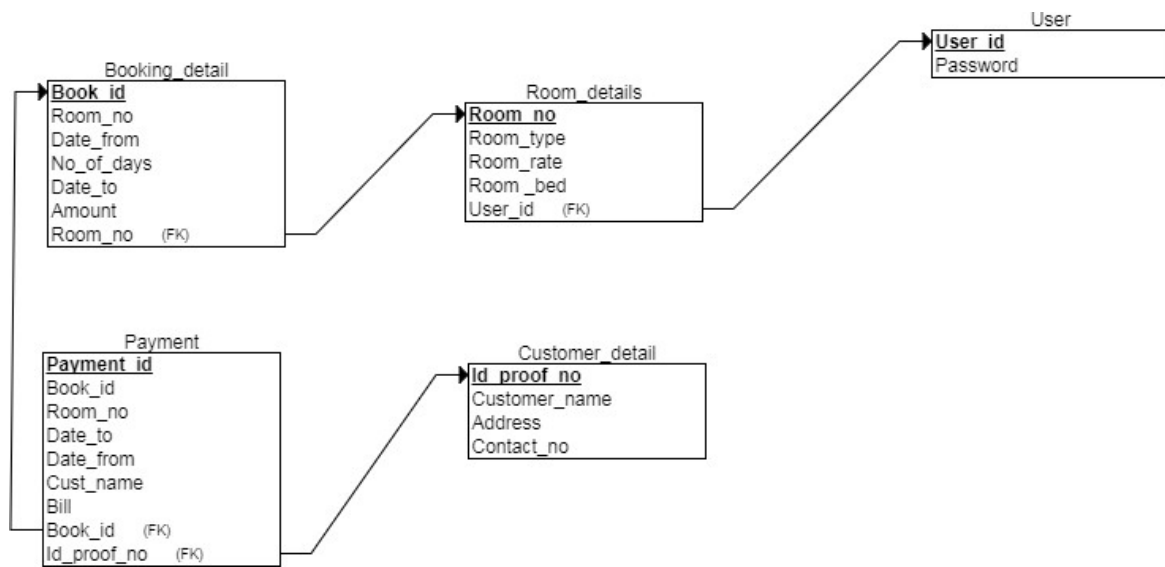


Figure 5.1.1 E-R Diagram

## 2. Schema Diagram



### 2.1. Schema Diagram

## 6.1 Table Description

```
mysql> show tables;
```

```
+-----+
| Tables_in_hotel |
+-----+
| bookinghistory |
| bookingtable   |
| custdetail     |
| login          |
| payment        |
| roomdetail     |
+-----+
```

```
mysql> desc bookinghistory;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| book_id | int(11) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> desc bookingtable;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| book_id | int(3) | NO   | PRI | NULL    |       |
| room_no | varchar(3) | YES |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

```
| date_fro | datetime | YES | | |
NULL
```

```
| date_to | datetime | YES | | |
NULL
```

```
| no_of_day | int(3) | YES | | |
NULL
```

```
| Bill | int(11) | YES | | NULL | |
```

```
+-----+-----+-----+-----+-----+
```

```
mysql> desc custdetail;
```

```
+-----+-----+-----+-----+-----+
```

```
| Field | Type | Null | Key | Default | Extra |
```

```
+-----+-----+-----+-----+-----+
```

```
| Cust_name | varchar(30) | YES | | NULL | |
```

```
| Cust_add | varchar(40) | YES | | NULL | |
```

```
| Cust_city | varchar(30) | YES | | NULL | |
```

```
| Cust_state | varchar(30) | YES | | NULL | |
```

```
| Cust_country | varchar(30) | YES | | NULL | |
```

```
| Cust_ph | varchar(10) | YES | | NULL | |
```

```
| Cust_proof | varchar(20) | YES | | NULL | |
```

```
| Cust_adult | varchar(2) | YES | | NULL | |
```

```
| Cust_mar_stat | varchar(15) | YES | | |
NULL
```

```
| Cust_id_no | varchar(30) | YES | | |
NULL
```

```
| Cust_nation | varchar(30) | YES | | |
NULL
```

```
| Cust_purpos | varchar(30) | YES | | |
NULL
```

```
| Cust_bill | int(5) | YES | | NULL |
```

```
| book_id | int(3) | YES | | NULL |
```

```
| Cust_child | varchar(2) | YES | | NULL |
```

```
|
```

```
|
```

```
|
```

```
      |  
      |  
+-----+-----+-----+-----+-----+-----+
```

```
mysql> desc login;
```



```

+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| userid | varchar(20) | NO   | PRI | NULL    |      |
| password | varchar(20) | NO   |     | NULL    |      |
+-----+-----+-----+-----+-----+

```

mysql> desc payment;

```

+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| payment_id | int(11) | NO   | PRI | NULL    | auto_increment |
| book_id    | int(11) | YES  |     | NULL    |               |
| room_no    | int(11) | YES  |     | NULL    |               |
| Cust_name  | varchar(30) | YES  |     | NULL    |               |
| Dfrom      | datetime | YES  |     | NULL    |               |
| dto        | datetime | YES  |     | NULL    |               |
| bill       | int(11) | YES  |     | NULL    |               |
+-----+-----+-----+-----+-----+

```

mysql> desc roomdetail;

```

+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| room_no | varchar(3) | NO   | PRI | NULL    |      |
| room_type | varchar(10) | NO   |     | NULL    |      |
| room_rate | int(4) | NO   |     | NULL    |      |
| room_bed | varchar(6) | NO   |     | NULL    |      |

```

## OUTPUT SCREEN (GUI)



Fig.6.1 Welcome Page

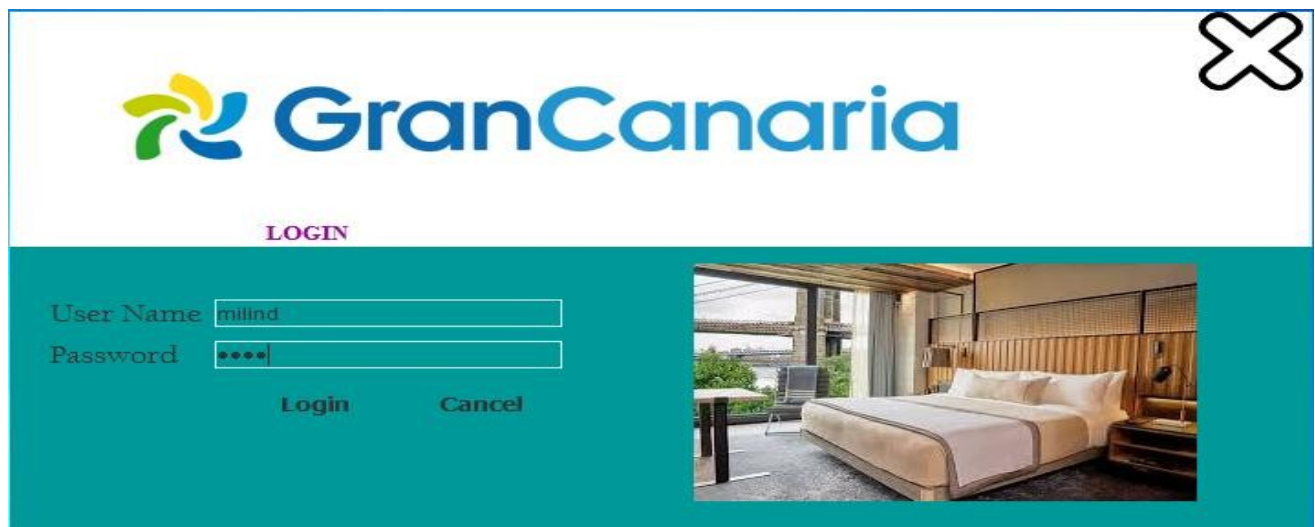


Fig.6.2 Login Page



Fig.6.3 Navigation Page

GranCanaria

Arrival Date  Departure Date  Booking for

List of Available Room


Room No.	Room Type	Bed Type	Tariff Per Room

Check Room

Book Room

Close

Fig.6.4 Availability Form



### Booked Room Mangement

Book ID	<input type="text" value="1"/>	<input type="button" value="First"/> <input type="button" value="Next &gt;&gt;"/> <input type="button" value="Last"/>	<input type="button" value="Modify Booking In..."/> <input type="button" value="Cancel Booking"/>
Room No.	<input type="text" value="106"/>		
Visitor No.	<input type="text" value="1"/>		
Visitor Name	<input type="text" value="1"/>		
Booked From	<input type="text" value="2017-10-09 00:00:00.0"/>		
Booked To	<input type="text" value="2017-10-10 00:00:00.0"/>		

Fig.6.5 Booked Room Management



Arrival Date 
 Departure Date 
 Booking for

**List of Available Rooms**

Room No.	Room Type	Bed Type	Tariff Per Room
101	Non AC	Single	700
102	Non AC	Single	700
103	Non AC	Single	700
104	Non AC	Single	700
105	Non AC	Single	700
106	Non AC	Single	700
107	Non AC	Single	700
108	Non AC	Single	700
109	Non AC	Single	700
110	Non AC	Single	700
111	Non AC	Double	1000
112	Non AC	Double	1000
113	Non AC	Double	1000
114	Non AC	Double	1000
115	Non AC	Double	1000
116	AC	Single	1500
117	AC	Single	1500

Fig.6.6 Check Room









Room No. <b>106</b>	Room Type <b>Non AC</b>	Bed Type <b>Single</b>	Tariff <b>700</b>
Check In <b>12-Oct-2017</b>		Check Out <b>13-Oct-2017</b>	

<p>Customer Name <input type="text"/></p> <p>Address <input type="text"/></p> <p>City <input type="text"/></p> <p>State <input type="text"/></p> <p>Country <input type="text"/></p> <p>Phone <input type="text"/></p> <p>Marital Status <input type="text"/></p> <p>Nationality <input type="text"/></p>	<p>ID Proof <input type="text"/></p> <p>ID Number <input type="text"/></p> <p>No of Adult <input type="text"/></p> <p>No of Minor <input type="text"/></p> <p>Purpose <input type="text"/></p> <p>No of days <input type="text" value="1 day(s)"/></p> <p><input type="text" value="784.00"/></p> <p style="color: green;">Bill (Inclusive tax 12%)</p> <p style="background-color: #008080; color: white; text-align: center; padding: 5px;">Book Ro...</p>
---	--

### 7. Book Room



**Room Management Form**

Room No.	<input type="text" value="101"/>	<input type="button" value="Add Room"/>	<input type="button" value="First"/>	
Room Type (AC/NON AC)	<input type="text" value="Non AC"/>	<input type="button" value="SAVE"/>	<input type="button" value="Next &gt;"/>	<input type="text"/>
Room Rate	<input type="text" value="700"/>	<input type="button" value="Edit Room"/>	<input type="button" value="Previous &lt;"/>	<input type="button" value="Search"/>
Bed Type (Single/Double)	<input type="text" value="Single"/>	<input type="button" value="Delete Room"/>	<input type="button" value="Last"/>	

### 8. Room Management



Visitor No.	Room No.	Visitor Management Form	
Visitor Name	1	Arrival	Departure
Visitor Address	1		
Visitor City	11		
Visitor State	1	First <<	Previous <
Visitor Country	1	Next >	Last >>
Visitor Phone	1	Search Visitor	
Visitor ID Proof	1		
Visitor ID Proof Number	1		
Visitor Marital Status	1	Bookid	
Visitor Nationality	1		
No. of Adult(s) with visitor	1	Search	
No. of Child(ren) with visitor	1		
Purpose of visit	1		
Booking ID	1		
Bill Amount	784		

## 9. Visitor Management



Staff Management Form			
Enter User ID	m1ind	New	First
Enter Password	m123	Edit	Next >
Re Enter Password			<Previous
Enter Designation		Delete	Last
Enter First Name		Search Specific Staff by his/ her	
Enter Last Name		User...	
Enter Contact No.		First N...	
Enter Address		Last N...	
		Search	

## 10. Staff Management

## SAMPLE CODE

### 1. Login Page

```

import java.sql.*;
import
java.awt.Color;
import javax.swing.ImageIcon;
import javax.swing.JOptionPane;

public class login extends javax.swing.JFrame {

    Connection con;
    Statement
    stmt,smt1;ResultSet
    rs; java.util.Date dt1;

    public login()
    { initComponents
    ();try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/hotel","root","mysql");
    }
    catch(Exception e)
    {
        System.out.println(e.getMessage());
    }
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">

```

```

private void initComponents() {

    popupMenu1 = new
    java.awt.PopupMenu();jPanel2 = new
    javax.swing.JPanel();jPanel1 = new
    javax.swing.JPanel();jLabel3 = new
    javax.swing.JLabel();jLabel4 = new
    javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jPasswordField1 = new
    javax.swing.JPasswordField();jButton1login = new
    javax.swing.JButton();jButton2cancel = new
    javax.swing.JButton();jButton3logo = new
    javax.swing.JButton();
    jLabel5 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jButton2 = new
    javax.swing.JButton();jButton3 = new
    javax.swing.JButton();jLabel1 = new
    javax.swing.JLabel();

    popupMenu1.setLabel("popupMenu1");

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setTitle("Hotel Room Booking System");
    setIconImage(new ImageIcon("F:\\IP\\Hotel\\src\\
    \\cbsecsnip.jpg").getImage());setUndecorated(true);
    setResizable(false);
    addWindowListener(new java.awt.event.WindowAdapter()
    { public void windowOpened(java.awt.event.WindowEvent evt)
    {
        formWindowOpened(evt);
    }
    }
    }

```



```
    }  
});  
getContentPane().setLayout(null);
```

```

jPanel2.setBackground(new java.awt.Color(0, 153, 153));

jPanel1.setBackground(new java.awt.Color(0, 153, 153));
jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel3.setFont(new java.awt.Font("Californian FB", 0, 14)); //
NOI18NjLabel3.setText("<html><font face=\"Californian FB\"
size=\"5\">User
Name</font></html>");
jPanel1.add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(10, 10, -1, -1));

jLabel4.setFont(new java.awt.Font("Californian FB", 0, 14)); //
NOI18NjLabel4.setText("<html><font face=\"Californian FB\"
size=\"5\">Password</font></html>");
jPanel1.add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(10, 40, -1, -1));

jTextField1.setBackground(new java.awt.Color(0, 153, 153));
jTextField1.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(204, 255, 255)));
jPanel1.add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(100, 10, 190,
20));

jPasswordField1.setBackground(new java.awt.Color(0, 153, 153));
jPasswordField1.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(204, 255, 255)));
jPanel1.add(jPasswordField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(100,
40,190, 20));

jButton1login.setBackground(new java.awt.Color(0, 153, 153));
jButton1login.setFont(new java.awt.Font("Tahoma", 1, 14)); //
NOI18NjButton1login.setText("Login");

```



```

jButton1login.setBorder(null);
jButton1login.setBorderPainted(false);
jButton1login.setCursor(new
java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton1login.setFocusPainted(false);
jButton1login.addActionListener(new java.awt.event.ActionListener()
    {public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1loginActionPerformed(evt);
    }
});
jPanel1.add(jButton1login, new org.netbeans.lib.awtextra.AbsoluteConstraints(120, 70, 70,
30));

```

```

jButton2cancel.setBackground(new java.awt.Color(0, 153, 153));
jButton2cancel.setFont(new java.awt.Font("Tahoma", 1, 14)); //
NOI18N jButton2cancel.setText("Cancel");
jButton2cancel.setBorder(null);
jButton2cancel.setCursor(new
java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton2cancel.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt)
        {jButton2cancelActionPerformed(evt);
    }
});
jPanel1.add(jButton2cancel, new org.netbeans.lib.awtextra.AbsoluteConstraints(200,
70,90, 30));

```

```

jButton3logo.setBorder(null);
jButton3logo.setBorderPainted(false);
jButton3logo.setContentAreaFilled(false);
jButton3logo.setCursor(new
java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));

```

```
jButton3logo.setFocusPainted(false);  
jButton3logo.addMouseListener(new java.awt.event.MouseAdapter()  
    {public void mouseEntered(java.awt.event.MouseEvent evt) {
```

```

        jButton3logoMouseEntered(evt);
    }
    public void mouseExited(java.awt.event.MouseEvent evt)
    {
        jButton3logoMouseExited(evt);
    }
});
jButton3logo.addActionListener(new java.awt.event.ActionListener()
{
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3logoActionPerformed(evt);
    }
});
jPanel1.add(jButton3logo, new org.netbeans.lib.awtextra.AbsoluteConstraints(90, 0, 140,
130));

jLabel5.setIcon(new javax.swing.ImageIcon(getClass().getResource("/
singlebed.jpg"))); //NOI18N

javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup( jPanel2Layout.createParallelGroup(javax.swing.GroupLayout
t.Alignment.LEADING)
.addGroup(jPanel2Layout.createSequentialGroup()
.addContainerGap()
.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
300,javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(62, 62, 62)
.addComponent(jLabel5)
.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);
jPanel2Layout.setVerticalGroup( jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.
Alignment.LEADING)

```

```

        .addGroup(jPanel2Layout.createSequentialGroup()
            .addContainerGap()

        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING
        )

            .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE,
172,javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
156,javax.swing.GroupLayout.PREFERRED_SIZE))
            .addContainerGap(27, Short.MAX_VALUE))
        );

        getContentPane().add(jPanel2);
        jPanel2.setBounds(0, 170, 720, 210);

        jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 14));
        jLabel2.setForeground(new java.awt.Color(153, 0,
153));jLabel2.setText("LOGIN");
        getContentPane().add(jLabel2);
        jLabel2.setBounds(140, 140, 50, 40);

        jButton2.setBackground(new java.awt.Color(255, 255, 204));
        jButton2.setForeground(new java.awt.Color(255, 255,
204));jButton2.setIcon(new
javax.swing.ImageIcon("C:\\Users\\Anand\\Desktop\\hotelimage\\cl2.png"));
        jButton2.setBorder(null);
        jButton2.addActionListener(new java.awt.event.ActionListener()
            {public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
    });

```

```

getContentPane().add(jButton2);
jButton2.setBounds(723, 10, 90, 57);

jButton3.setBackground(new java.awt.Color(255, 255, 255));
jButton3.setForeground(new java.awt.Color(255, 255, 255));
jButton3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/
cl2.png"))));jButton3.setBorder(null);
jButton3.setCursor(new
java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt)
        {jButton3ActionPerformed(evt);
    }
});
getContentPane().add(jButton3);
jButton3.setBounds(650, 0, 57, 57);

jLabel1.setBackground(new java.awt.Color(255, 255, 255));
jLabel1.setForeground(new java.awt.Color(204, 255, 204));
jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/
grancanaria.png"))));jLabel1.setOpaque(true);
getContentPane().add(jLabel1);
jLabel1.setBounds(0, -10, 710, 180);

setSize(new java.awt.Dimension(712,
380));setLocationRelativeTo(null);
}

private void jButton3logoActionPerformed(java.awt.event.ActionEvent evt) {

    jButton3logo.setVisible(false);
    jPanel1.setVisible(true);

```





```

        jLabel3.setVisible(true);
        jLabel4.setVisible(true);
        jTextField1.setVisible(true);
        jPasswordField1.setVisible(true);
        jButton1login.setVisible(true);
        jButton2cancel.setVisible(true);
        //x=jPanel1.getLocation();System.out.println(x);
    }

    private void formWindowOpened(java.awt.event.WindowEvent evt)
    {jPanel1.setOpaque(true);

        jPanel2.setOpaque(true);
        Color c=new Color(240, 153, 153);
        Color c1=new Color(170, 119,
        98);
        jButton3logo.setBackground(c1);

        jLabel3.setVisible(false);
        jLabel4.setVisible(false);
        jTextField1.setVisible(false);
        jPasswordField1.setVisible(false);
        jButton1login.setVisible(false);
        jButton2cancel.setVisible(false);
    }

    private void jButton1loginActionPerformed(java.awt.event.ActionEvent evt)
    {try{
        int flag=0;
        String sql="Select * from
        login;";
        smt1=con.createStatement();

```

```
rs=smt1.executeQuery(sql);
```

```

String log=jTextField1.getText();
String pass =new
String(jPasswordField1.getPassword());while(rs.next())
{
    if(log.equals(rs.getString(1)) && pass.equals(rs.getString(2)))
    {
        flag=1
        ;break;
    }
}
if(flag==1)
{
    jLabel3.setEnabled(false);
    jLabel4.setEnabled(false);
    jTextField1.setEnabled(false);
    jPasswordField1.setEnabled(false);
    jButton1login.setEnabled(false);
    jButton2cancel.setEnabled(false);
    new
    NavigationFrame().setVisible(true);
    this.dispose();
}
else
{
    JOptionPane.showMessageDialog(this, "Error", "Please check user
name /password",JOptionPane.ERROR_MESSAGE);
}
}
catch(Exception ex){
}
}

```

```
private void jButton3logoMouseClicked(java.awt.event.MouseEvent evt)
{
    Color c1=new Color(170, 119, 98);
    jButton3logo.setBackground(c1);
}

```

```
private void jButton3logoMouseExited(java.awt.event.MouseEvent evt)
{
    Color c1=new Color(170, 119, 98);
    jButton3logo.setBackground(c1);
}

```

```
private void jButton2cancelActionPerformed(java.awt.event.ActionEvent evt)
{
    jLabel3.setVisible(false);
    jLabel4.setVisible(false);
    jTextField1.setVisible(false);
    jPasswordField1.setVisible(false);
    jButton1login.setVisible(false);
    jButton2cancel.setVisible(false);
    jButton3logo.setVisible(true);
}

```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)
{
    System.exit(0);
}

```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt)
{
    System.exit(0);
}

```

```
public static void main(String args[])
{
    java.awt.EventQueue.invokeLater(new Runnable()
    {

        public void run() {

```

```

        new login().setVisible(true);
    }
});
}
private javax.swing.JButton jButton1login;
private javax.swing.JButton jButton2;
private javax.swing.JButton
jButton2cancel;private javax.swing.JButton
jButton3; private javax.swing.JButton
jButton3logo; private javax.swing.JLabel
jLabel1;
private javax.swing.JLabel
jLabel2;private javax.swing.JLabel
jLabel3;private javax.swing.JLabel
jLabel4;private javax.swing.JLabel
jLabel5;private javax.swing.JPanel
jPanel1; private javax.swing.JPanel
jPanel2;
private javax.swing.JPasswordField
jPasswordField1;private javax.swing.JTextField
jTextField1;
private java.awt.PopupMenu popupMenu1;
}

```

## 2. Trigger

delimiter ##

create trigger

book\_historyafter insert on

bookingtable for each row

begin

insert into bookinghistory

set

```
book_id=new.book_id;end
```

```
##
```

```
delimiter ;
```

## Conclusion

This application can be implemented in any Hotel. Its features can be expanded as per requirements, and so can the database. It has a very simple GUI and is very user friendly hiding the complicated part from the user. It has been developed in NetBeans keeping in mind specifications of the system. It combines the robustness of both Java and MySQL and hence can be implemented on a large scale and used for all kinds of hotel management purposes.

Overall the project teaches us the essential skills like.

- Using system analysis and design techniques like E-R diagram, Schema diagram in designing the system.
- Understanding the database handling and query processing.



## References

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