Project Report

On

HOTEL MANAGEMENT SYSTEM

Submitted To

Bharati Vidyapeeth Deemed University, Pune

In partial fulfillment of the requirement of

BACHELOR OF COMPUTER APPLICATION BCA III (SEM-V)

2023-24

Submitted By,

Miss. AARTI MALLAYYA SWAMI

Miss. ANUSHKA SANJAY YADAV

Under the Guidance of

DR. P.P.Patil

Through

THE DIRECTOR

BHARATI VIDYAPEETH DEEMED UNIVERSITY, PUNE

YASHWANTRAO MOHITE INSTITUTE OF MANAGEMENT,KARAD

(2023-24)

BHARATI VIDYAPEETH DEEMED UNIVERSITY, PUNE

YASHWANTRAO MOHITE INSTITUTE OF MANAGEMENT, KARAD

CERTIFICATE

This is to certify that the project entitled "**HOTEL MANAGEMENT SYSTEM**" submitted by **Miss. AARTI MALLAYYA SWAMI, Miss. ANUSHKA SANJAY YADAV,** in partial fulfillment of the requirement for award of **BACHELOR OF COMPUTER APPLICATIONS BCA Ill (SEM-V)** to **BHARATI VIDYAPEETH DEEMED UNIVERSITY, PUNE** has been completed satisfactorily by them for academic year 2023-2024.

To the best of my knowledge and belief, this is their original work and have not been submitted earlier, anywhere for any purpose.

Date: / /2023

Place: Karad

Director

(Dr. Ajim Shaikh)

BHARATI VIDYAPEETH DEEMED UNIVERSITY, PUNE

YASHWANTRAO MOHITE INSTITUTE OF MANAGEMENT, KARAD

CERTIFICATE

This is to certify that the project entitled "**HOTEL MANAGEMENT SYSTEM**" submitted by **Miss. AARTI MALLAYYA SWAMI, Miss. ANUSHKA SANJAY YADAV** in partial fulfillment of the requirement for award of **BACHELOR OF COMPUTER APPLICATIONS BCA III (SEM-V)** to **BHARATI VIDYAPEETH DEEMED UNIVERSITY, PUNE** has been completed satisfactorily by them for academic year 2023-2024.

To the best of my knowledge and belief, this is their original work and have not been submitted earlier, anywhere for any purpose.

Date: / /2023

Place: Karad

Head of Department

(Dr. . Rahul Jadhav)

BHARATI VIDYAPEETH DEEMED UNIVERSITY, PUNE

YASHWANTRAO MOHITE INSTITUTE OF MANAGEMENT, KARAD

CERTIFICATE

This is to certify that the project entitled " **HOTEL MANAGEMENT SYSTEM**" submitted by **Miss. AARTI MALLAYYA SWAMI, Miss. ANUSHKA SANJAY YADAV** in partial fulfillment of the requirement for award of **BACHELOR OF COMPUTER APPLICATIONS BCA III (SEM-V)** to **BHARATI VIDYAPEETH DEEMED UNIVERSITY, PUNE** has been completed satisfactorily by them for academic year 2023-2024.

To the best of my knowledge and belief, this is their original work and have not been submitted earlier, anywhere for any purpose.

Date: / /2023

Place: Karad

Project Guide

(DR. P.P.Patil)

Declaration

To,

The Director,

Bharati Vidyapeeth University,Pune,

Yashwantrao Mohite Institute of Management,

Karad.

Respected Sir,

We undersigned hereby declare that the project report on " **HOTEL MANAGEMENT SYSTEM** " written and submitted under the guidance of **DR. P.P.Patil** is our original work. The finding in the case is based on the data collected by us while preparing this project we have not copied from any other project.

We understand that any such copying is liable to be punished in the way that centre university authority may be deem fit.

Date: / /2023
Place : Karad

Miss. AARTI MALLAYYA SWAMI

Miss. ANUSHKA SANJAY YADAV

ACKNOWLEDGEMENT

We extend our sincerest gratitude to respected teacher **DR. P. P. PATIL** under whose supervision and direction this project is undertaken. She is the guiding force and prime inspiration to lift us from the initialization state to the successful completion of the project.

Her friendly guidance and discussion over the complexities of a real time project have invoked a deep thought in us. she solved all our problems and queries related to the project. she made our project more meaningful.

Undertaking a project such as this places an equal if not greater pressure on friends and family members close to us. Our Chemistry made it more simpler to learn. So we are thanking to each other in our team.

Thanks to all those who helped us in one-way or other, and to all whose names go unmentioned.

Miss. AARTI MALLAYYA SWAMI

Miss. ANUSHKA SANJAY YADAV

HOTEL MANAGEMENT SYSTEM

INDEX

1.	**Introduction**	**9**
1.1	Objective	11
1.2	Advantages of Hotel Management System	12
1.3	Drawbacks in existing software	12
1.4	Requirement Specification	13
2	**Design Phase**	
2.1	Flowchart	15
2.2	ER Diagram	16
2.3	Database Table	17
3.	**Program Code**	19
4.	**Output Screen**	101
5.	**Conclusion**	111
6.	**Future Scope**	112

1.0 INTRODUCTION

In my project "Hotel Management System" I have tried to show how the data/information in hotels is managed. This is just an overview of management in hotels. It manages and maintains the records of customers, rooms, employees and drivers in the hotel. The project is aimed to maintain the day-to-day state of admission/vacation of Residents, List of employees, room details etc. Main objective of this project is to provide a solution for hotels to manage most their work using computerized processes.

This software application will help admin to handle customer information, room allocation details, Payment details etc.

The rooms have different categories like single bed, double bed etc. so their charges and records will be maintained accordingly.

This software has been made in a user friendly interface, so that anyone can add, delete, update the entries and handle all the transactions easily. As a security I have provided Admin username and Password.

The project, Hotel Management System is a desktop-based application that allows the hotel manager to handle all hotel activities online. Interactive GUI and the ability to manage various rooms, employees, drivers and customers make this system very flexible and convenient. This application gives managers the power and flexibility to manage the entire system from a single online system. Hotel management project provides room booking, staff management and other necessary hotel management features. The system allows the manager to post available rooms in the system.

The application of the Hotel Management System bears the following functions to use by the Administrator:

- To add a new Room
- To add an Employee
- To add a new Customer
- To check room status
- To check all employees details
- To check all Customers details
- To update room status
- To update check status etc.

Administrative Modules

There are 2 modules I have included in this project :

1. **Admin** : Admin can add a new room and a new employee.

2. **Receptionist** : Receptionist can add a new customer and allocate rooms, can check all room details, customers details, employee details, search for a particular room etc.

1.1 OBJECTIVE

The objective of the Hotel Management System is to develop a project which maintains booking of rooms, providing drivers, etc. It is a windows based application to be implemented in Java

The Purpose of the whole process is to ease the daily or regular activities of the Hotel Management into an automatic computerized retrievable process. The daily activities includes the Room activities, Entering details of the new customer check in, To allocate a room as per the customer need and interest, Recording the checkout time and details, Releasing or Empty of room and to record the process in a computer system for future.

Main objective of this project is to provide a solution for hotels to manage most their work using computerized processes. This software application will help admin to handle customer information, room allocation details, Payment details etc.

- To keeping records of admission of customers.
- To facilities provided by hotels are fully utilized in an effective and efficient manner.

FEATURES

1. Hotel Room Bookings and Reservation
2. Front Desk Operations
3. Managing Guest Profile
4. User Privilege and security control
5. Keeping a tab on guest check-in check-out status
6. Maintenance of hotel rooms.
7. Providing a user friendly interface.

1.2 ADVANTAGES OF HOTEL MANAGEMENT SYSTEM

- It saves user time in searching a room.
- It saves organization resources and expenses.
- This system is effective and saves time and cost of users.
- It is less time consuming and provides maximum accuracy.

1.3 DRAWBACKS OF HOTEL MANAGEMENT SYSTEM

- The booking process usually requires a customer identity, which the system cannot detect.
- It requires a reliable internet connection

1.4 REQUIREMENT SPECIFICATION

User Requirements

There should be software which allocates rooms automatically and maintains records of customers.

System Requirements

There should be a database backup of the hotel management system. There should be a Java supported framework for the system. Operating system should be WindowsXP or a higher version of windows.

User Interface

The User interface required to be developed for the system should be user friendly and attractive.

There are two sets of java APIs for graphics programming:

AWT (Abstract Windowing Toolkit) and Swing.

- AWT API was introduced in JDK 1.0. Most of the AWT components have become obsolete and should be replaced by newer Swing components.

- Swing API, a much more comprehensive set of graphics libraries that enhances the AWT, was introduced as part of Java Foundation Classes (JFC) after the release of JDK 1.1. JFC consists of Swing, Java2D, Accessibility, Internationalization, and Pluggable Look-and-Feel Support APIs. JFC was an add-on to JDK 1.1 but has been integrated into core Java since JDK 1.2.

For the development of this project both hardware and software were required. The hard required is any machine compatible for running the softwares and resources required.

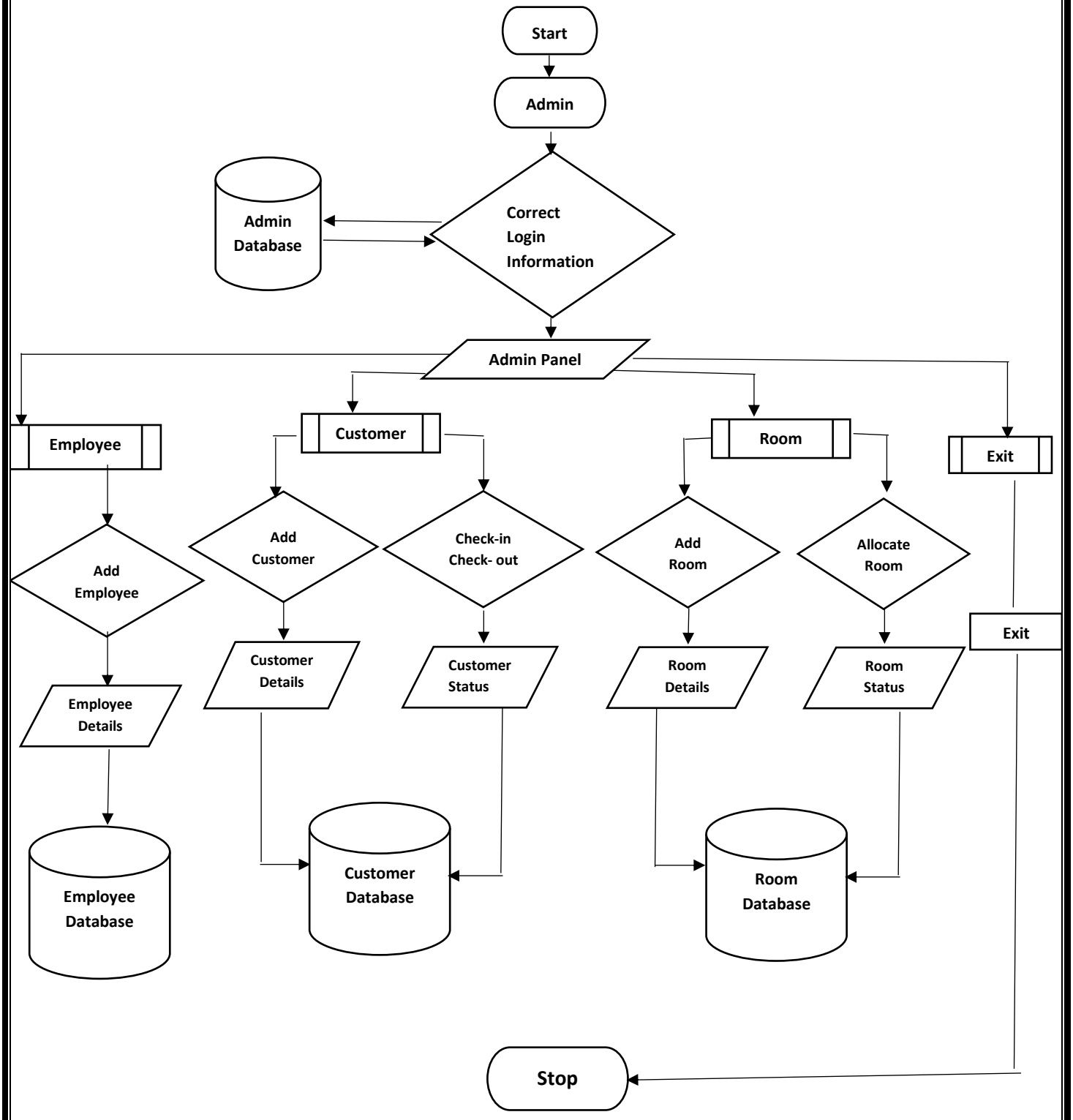
Software Requirements

- Operating System : Windows 11
- Front End : Java, NetBeans 18
- Back End : MySQL

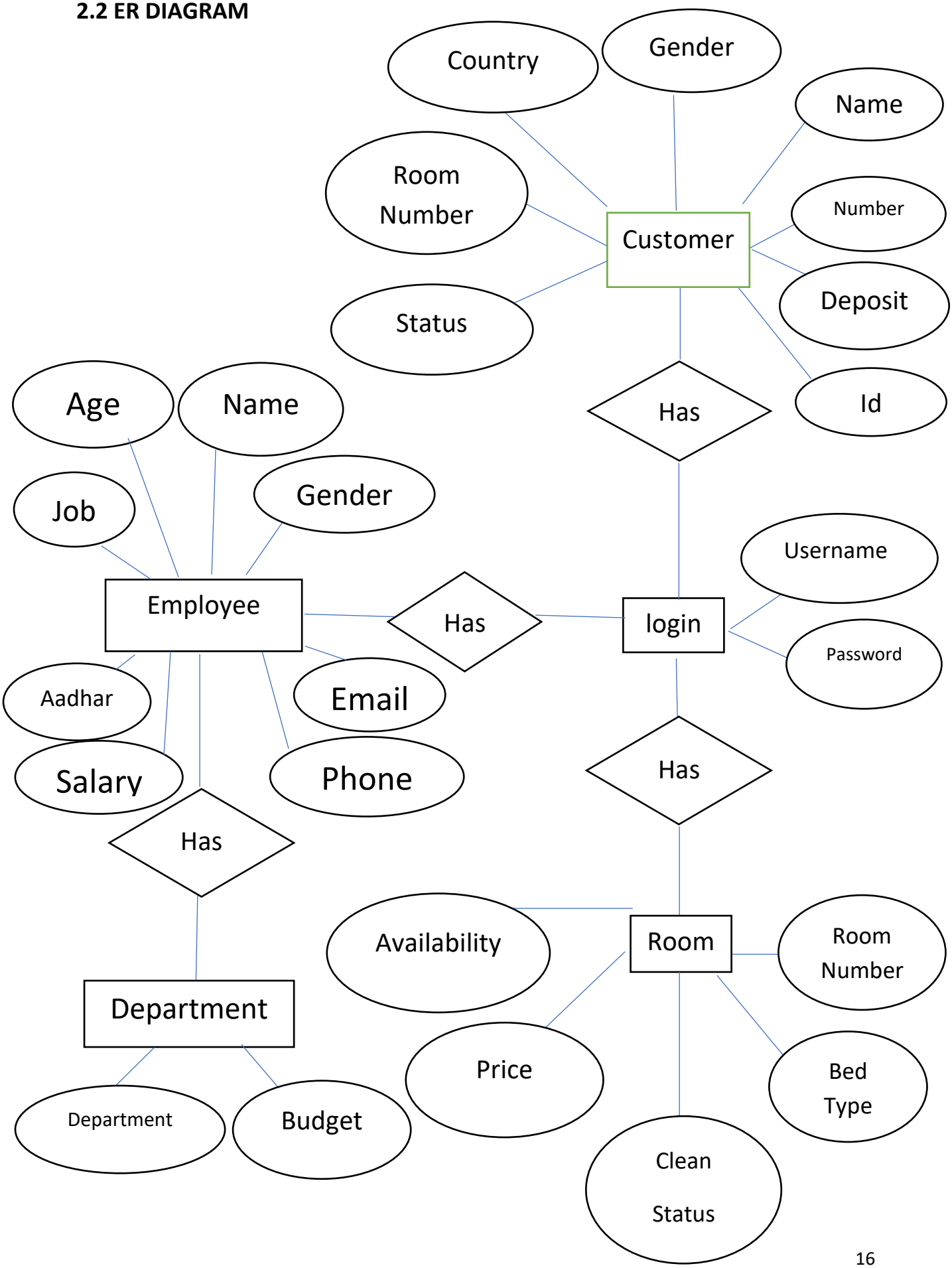
Hardware Requirements

- Desktop PC or a Laptop
- Printer
- Operating System – Windows 11
- 12th Gen Intel(R) Core(TM) i5-1235U 1.30 GHz
- 8.00 GB RAM
- 64-bit operating system, x64 based processor
- 1024 x 768 monitor resolution
- Keyboard and Mouse

2.1 Flowchart



2.2 ER DIAGRAM



2.3 Database Tables

1. Customer

Field	Datatype	Constraint
id	Varchar(30)	NN
number	Numeric(30)	PK
name	Varchar(30)	NN
gender	Varchar(30)	NN
country	Varchar(30)	NN
Room number	Numeric(30)	NN
Status	Varchar(30)	NN
Deposit	Numeric(30)	NN

2. Room

Field	Datatype	Constraint
Room_number	Numeric(30)	PK
availability	Varchar(30)	NN
Clean status	Varchar(30)	NN
Price	Number(30)	NN
BedType	Varchar(30)	NN

3.Employee

Field	DataType	Constraint
Name	Varchar(30)	NN
Age	Numeric(30)	NN
Gender	Varchar(30)	NN
Job	Varchar(30)	NN
Salary	Number(30)	NN
Phone	Number(30)	NN
Adhar	Number(30)	PK
Email	Varchar(30)	NN

4.Login

Field	DataType	Constraint
Username	Varchar(30)	PK
Password	Varchar(30)	NN

5.Department

Field	DataType	Constraint
Department	Varchar(30)	PK
Budget	Numeric(30)	NN

PROGRAM CODE

Connection

```
package hotel.management.system;

Import java.sql.*;

public class conn{

    public connection conn;

    public Statement s;

    public PreparedStatement pstmt;

    public conn(){

try{

Class.forName(“com.mysql.cj.jdbc.Driver”);

String connectionurl=”jdbc:mysql:/localhost:3306/hms?user=root
&password=anu29”;

Conn=DriverManager.getConnection(connectionurl);

System.out.println(“Connected”);

S = conn.createStatement();

} catch(Exception e){

 e.printStackTrace();

}

}

}
```

FIRSTPAGE (INTRODUCTION)

```
package hotel.management.system;

import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

import java.awt.Color;

public class FirstPage extends JFrame implements Runnable  {

   Thread t;


   FirstPage(){

      getContentPane().setBackground(Color.WHITE);

      setLayout(null);


       setBounds(0,0,3000,1000);


     ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/BVDU1.png"));

     Image i2 = i1.getImage().getScaledInstance(450, 200,
Image.SCALE_DEFAULT);

     ImageIcon i3=new ImageIcon(i2);

     JLabel image=new JLabel(i3);

     image.setBounds(550,0,400,200);

     add(image);
```

```
 //setSize(2000,2000);


 JTextArea t1=new JTextArea("A");
t1.setFont(new Font("Tohoma",Font.PLAIN,20));
t1.setBounds(745,180,250,30);
t1.setForeground(Color.BLACK);
add(t1);

JTextArea t2=new JTextArea("Project Report");
t2.setFont(new Font("Tohoma",Font.PLAIN,20));
t2.setBounds(685,205,250,30);
t2.setForeground(Color.BLACK);
add(t2);

JTextArea t3=new JTextArea("On");
t3.setFont(new Font("Tohoma",Font.PLAIN,20));
t3.setBounds(740,230,250,30);
t3.setForeground(Color.BLACK);
add(t3);

JTextArea t4=new JTextArea("HOTEL MANAGEMENT SYSTEM");
t4.setFont(new Font("Tohoma",Font.BOLD,20));
t4.setBounds(600,260,310,30);
```

```
        t4.setForeground(Color.DARK_GRAY);
        add(t4);

        JTextArea t5=new JTextArea("Submitted To");
        t5.setFont(new Font("Tohoma",Font.PLAIN,20));
        t5.setBounds(690,290,250,30);
        t5.setForeground(Color.BLACK);
        add(t5);

        JTextArea t6=new JTextArea("Bharati Vidyapeeth Deemed
University,Pune");
        t6.setFont(new Font("Tohoma",Font.BOLD,20));
        t6.setBounds(550,320,435,30);
        t6.setForeground(Color.ORANGE);
        add(t6);

        JTextArea t7=new JTextArea("In partial fulfillment of the requirement of");
        t7.setFont(new Font("Tohoma",Font.PLAIN,20));
        t7.setBounds(575,350,450,30);
        t7.setForeground(Color.BLACK);
        add(t7);
        JTextArea t8=new JTextArea("BACHLOR OF COMPUTER APPLICATION BCA-
III(SEM-V)");
        t8.setFont(new Font("Tohoma",Font.BOLD,20));
```

```
t8.setBounds(490,380,550,30);
t8.setForeground(Color.BLACK);
add(t8);

JTextArea t9=new JTextArea("2023-24");
t9.setFont(new Font("Tohoma",Font.PLAIN,20));
t9.setBounds(710,410,250,30);
t9.setForeground(Color.BLACK);
add(t9);

JTextArea t10=new JTextArea("Submitted By,");
t10.setFont(new Font("Tohoma",Font.PLAIN,20));
t10.setBounds(685,440,250,30);
t10.setForeground(Color.BLACK);
add(t10);

JTextArea t11=new JTextArea("Miss.AARTI MALLAYYA SWAMI");
t11.setFont(new Font("Tohoma",Font.BOLD,20));
t11.setBounds(600,470,550,30);
t11.setForeground(Color.BLACK);
add(t11);

JTextArea t12=new JTextArea("Miss.ANUSHKA SANJAY YADAV");
```

```
t12.setFont(new Font("Tohoma",Font.BOLD,20));
t12.setBounds(600,500,550,30);
t12.setForeground(Color.BLACK);
add(t12);

JTextArea t13=new JTextArea("Under the Guidance of");
t13.setFont(new Font("Tohoma",Font.PLAIN,20));
t13.setBounds(640,525,250,30);
t13.setForeground(Color.BLACK);
add(t13);

JTextArea t14=new JTextArea("DR.P.P.PATIL");
t14.setFont(new Font("Tohoma",Font.BOLD,20));
t14.setBounds(680,555,550,30);
t14.setForeground(Color.BLACK);
add(t14);

JTextArea t15=new JTextArea("Through");
t15.setFont(new Font("Tohoma",Font.PLAIN,20));
t15.setBounds(710,580,250,30);
t15.setForeground(Color.BLACK);
add(t15);
```

```
JTextArea t16=new JTextArea("THE DIRECTOR");
t16.setFont(new Font("Tohoma",Font.PLAIN,20));
t16.setBounds(670,610,550,30);
t16.setForeground(Color.BLACK);
add(t16);

JTextArea t20=new JTextArea("Dr.Ajim Shaikh");
t20.setFont(new Font("Tohoma",Font.BOLD,20));
t20.setBounds(670,640,550,30);
t20.setForeground(Color.BLACK);
add(t20);

JTextArea t17=new JTextArea("BHARATI VIDYAPEETH DEEMED
UNIVERSITY,PUNE");
t17.setFont(new Font("Tohoma",Font.BOLD,20));
t17.setBounds(490,670,600,30);
t17.setForeground(Color.BLACK);
add(t17);
JTextArea t18=new JTextArea("YASHWANTRAO MOHITE INSTITUTE OF
MANAGEMENT,KARAD");
t18.setFont(new Font("Tohoma",Font.BOLD,20));
t18.setBounds(440,700,650,30);
t18.setForeground(Color.BLACK);
add(t18);
```

```
        JTextArea t19=new JTextArea("(2023-24)");
        t19.setFont(new Font("Tohoma",Font.PLAIN,20));
        t19.setBounds(700,730,250,30);
        t19.setForeground(Color.BLACK);
        add(t19);
        t=new Thread(this);
        t.start();
setVisible(true);
 }
    public void run(){
        try{
            Thread.sleep(10000);
            setVisible(false);
               new HotelManagementSystem();
        }
        catch(Exception e){}
    }
     public static void main(String[]args){
        new FirstPage();

}
}
```

HOTEL MANAGEMENT SYSTEM (MAIN PAGE) –

```
package hotel.management.system;


import javax.swing.*;

import java.awt.*;

import java.awt.event.*;


public  class HotelManagementSystem extends JFrame implements
ActionListener{


   HotelManagementSystem(){

      setBounds(0,0,1550,1000);

      setLayout(null);


      ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/first.jpg"));

      JLabel image=new JLabel(i1);

      image.setBounds(80,120,1366,565);

      add(image);


      JLabel text=new JLabel("HOTEL MANAGEMENT SYSTEM");

      text.setBounds(20, 430, 1000, 90);

      text.setForeground(Color.WHITE);
```

```
text.setFont(new Font("serif",Font.PLAIN,50));
image.add(text);

JButton next=new JButton("Next");
next.setBounds(1150,450,150,50);
next.setBackground(Color.WHITE);
next.setForeground(Color.MAGENTA);
next.addActionListener(this);
next.setFont(new Font("serif",Font.PLAIN,24));
image.add(next);

setVisible(true);

while(true){
   text.setVisible(false);
 try{
    Thread.sleep(500);
 }  catch(Exception e){
    e.printStackTrace();
 }
 text.setVisible(true);
 try{
    Thread.sleep(500);
```

```
        } catch(Exception e){
            e.printStackTrace();
        }
      }
    }
    public void actionPerformed(ActionEvent ae){
     setVisible(false);
     new Login();
    }
public static void main(String[] args) {
        new HotelManagementSystem();
        }
    }
```

LOGIN –

```
package hotel.management.system;


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


public class Login extends JFrame implements ActionListener {


   JTextField username;
   JPasswordField password;
   JButton login,cancel;


   Login(){
     // getContentPane().setBackground(Color.WHITE);


      setLayout(null);


      JLabel user=new JLabel("Username");
      user.setBounds(230,300,100,30);
      user.setFont(new Font("serif",Font.PLAIN,20));
```

```
add(user);


username=new JTextField();
username.setBounds(450,300,250,40);
username.setFont(new Font("serif",Font.PLAIN,20));
add(username);


 JLabel pass=new JLabel("Password");
pass.setBounds(230,450,100,30);
pass.setFont(new Font("serif",Font.PLAIN,20));
add(pass);
        password=new JPasswordField ();
password.setBounds(450,450,250,40);
password.setFont(new Font("serif",Font.PLAIN,20));
add(password);
login=new JButton("Login");
login.setBounds(200,600,250,60);
login.setBackground(Color.BLACK);
login.setForeground(Color.WHITE);
login.setFont(new Font("serif",Font.PLAIN,20));
login.addActionListener(this);
add(login);
```

```
        cancel=new JButton("Cancel");
        cancel.setBounds(480,600,220,60);
        cancel.setBackground(Color.BLACK);
        cancel.setForeground(Color.WHITE);
        cancel.setFont(new Font("serif",Font.PLAIN,20));
        cancel.addActionListener(this);
        add(cancel);
        ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/second.jpg"));
        Image i2=i1.getImage().getScaledInstance(600, 600,
Image.SCALE_DEFAULT);
        ImageIcon i3=new ImageIcon(i2);
        JLabel image=new JLabel(i3);
        image.setBounds(800,150,600,600);
        add(image);
        setBounds(0,0,1550,1000);
        setVisible(true);
        }
        public void actionPerformed(ActionEvent ae){
          if(ae.getSource() == login){
            String user = username.getText();
            String pass = password.getText();
            try{
              Conn c=new Conn();
```

```
            String query="select * from login where username = '" + user + "' and
password = '" + pass +"'";


            ResultSet rs = c.s.executeQuery(query);
            if(rs.next()){
               setVisible(false);
               new Dashboard();
            }else{
               JOptionPane.showMessageDialog(null,"Invalid username or
password");
               setVisible(false);
            }
          }catch(Exception e){
             e.printStackTrace();
          }
        }else if(ae.getSource() == cancel){
           setVisible(false);
        }
       }


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

DASHBOARD –

```
package hotel.management.system;


import javax.swing.*;

import java.awt.*;

import java.awt.event.*;


public class Dashboard extends JFrame implements ActionListener{


   Dashboard(){

      setBounds(0,0,1550,1000);


      setLayout(null);


      ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/third.jpg"));

      Image i2=i1.getImage().getScaledInstance(1550, 1000,
Image.SCALE_DEFAULT);

      ImageIcon i3=new ImageIcon(i2);

      JLabel image=new JLabel(i3);

      image.setBounds(0,0,1550,1000);

      add(image);


      JLabel text=new JLabel("THE TAJ GROUP WELCOMES YOU");
```

```
text.setBounds(400,80,1000,50);
image.add(text);
text.setFont(new Font("Tahoma",Font.PLAIN,46));
text.setForeground(Color.WHITE);
image.add(text);

JMenuBar mb=new JMenuBar();
mb.setBounds(0,0,1550,30);
image.add(mb);

JMenu hotel=new JMenu("HOTEL MANAGEMENT");
hotel.setForeground(Color.RED);
mb.add(hotel);

JMenuItem reception=new JMenuItem("RECEPTION");
reception.addActionListener(this);
hotel.add(reception);

JMenu admin=new JMenu("ADMIN");
admin.setForeground(Color.BLUE);
mb.add(admin);

JMenuItem addemployee=new JMenuItem("ADD EMPLOYEE");
```

```
        addemployee.addActionListener(this);
        admin.add(addemployee);

        JMenuItem addrooms=new JMenuItem("ADD ROOMS");
        addrooms.addActionListener(this);
        admin.add(addrooms);

        setVisible(true);
         }

    public void actionPerformed(ActionEvent ae){
        if(ae.getActionCommand().equals("ADD EMPLOYEE")){
            new AddEmployee();
        }else if(ae.getActionCommand().equals("ADD ROOMS")){
            new AddRooms();
        }else if(ae.getActionCommand().equals("RECEPTION")){
            new Reception();
    }
    }
    public static void main(String[] args){
        new Dashboard();
}
}
```

RECEPTION –

```
package hotel.management.system;


import javax.swing.*;

import java.awt.*;

import java.awt.event.*;


public class Reception extends JFrame implements ActionListener{


   JButton
newCustomer,rooms,department,allEmployee,customers,managerInfo,search
Room,update,roomStatus,checkout,logout;

   Reception(){


      getContentPane().setBackground(Color.WHITE);

      setLayout(null);

      newCustomer=new JButton("New Customer Form");

      newCustomer.setBounds(10,30,200,30);

      newCustomer.setBackground(Color.BLACK);

      newCustomer.setForeground(Color.WHITE);

      newCustomer.addActionListener(this);

      add(newCustomer);


      rooms=new JButton("Rooms");
```

```
rooms.setBounds(10,70,200,30);
rooms.setBackground(Color.BLACK);
rooms.setForeground(Color.WHITE);
rooms.addActionListener(this);

add(rooms);
department=new JButton("Department");
department.setBounds(10,110,200,30);
department.setBackground(Color.BLACK);
department.setForeground(Color.WHITE);
department.addActionListener(this);
add(department);

allEmployee=new JButton("All Employee");
allEmployee.setBounds(10,150,200,30);
allEmployee.setBackground(Color.BLACK);
allEmployee.setForeground(Color.WHITE);
allEmployee.addActionListener(this);
add(allEmployee);

customers=new JButton("Customer Info");
customers.setBounds(10,190,200,30);
customers.setBackground(Color.BLACK);
```

```
customers.setForeground(Color.WHITE);
customers.addActionListener(this);
add(customers);

 managerInfo=new JButton("Manager Info");
managerInfo.setBounds(10,230,200,30);
managerInfo.setBackground(Color.BLACK);
managerInfo.setForeground(Color.WHITE);
managerInfo.addActionListener(this);
add(managerInfo);

checkout=new JButton("Checkout");
checkout.setBounds(10,270,200,30);
checkout.setBackground(Color.BLACK);
checkout.setForeground(Color.WHITE);
checkout.addActionListener(this);
add(checkout);

update=new JButton("Update Status");
update.setBounds(10,310,200,30);
update.setBackground(Color.BLACK);
update.setForeground(Color.WHITE);
update.addActionListener(this);
```

```
        add(update);

        roomStatus=new JButton("Update Room Status");
        roomStatus.setBounds(10,350,200,30);
        roomStatus.setBackground(Color.BLACK);
        roomStatus.setForeground(Color.WHITE);
        roomStatus.addActionListener(this);
        add(roomStatus);

        searchRoom=new JButton("Search Room");
        searchRoom.setBounds(10,390,200,30);
        searchRoom.setBackground(Color.BLACK);
        searchRoom.setForeground(Color.WHITE);
        searchRoom.addActionListener(this);
        add(searchRoom);

        logout=new JButton("Logout");
        logout.setBounds(10,430,200,30);
        logout.setBackground(Color.BLACK);
        logout.setForeground(Color.WHITE);
        logout.addActionListener(this);
        add(logout);
        ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/fourth.jpg"));
```

```
    JLabel image=new JLabel(i1);
    image.setBounds(250,30,500,470);
    add(image);
    setBounds(350,200,800,570);
    setVisible(true);
}
public void actionPerformed(ActionEvent ae){
    if(ae.getSource() == newCustomer){
        setVisible(false);
        new AddCustomer();
    }else if(ae.getSource() == rooms) {
        setVisible(false);
        new Room();
    }else if(ae.getSource() == department) {
        setVisible(false);
        new Department();
    }else if(ae.getSource() == allEmployee) {
        setVisible(false);
        new EmployeeInfo();
    }else if(ae.getSource() == managerInfo) {
        setVisible(false);
        new ManagerInfo();
    }else if(ae.getSource() == customers) {
```

```
            setVisible(false);
            new CustomerInfo();
        }else if(ae.getSource() == searchRoom) {
            setVisible(false);
            new SearchRoom();
        }else if(ae.getSource() == update) {
            setVisible(false);
            new UpdateCheck();
        }else if(ae.getSource() == roomStatus) {
            setVisible(false);
            new UpdateRoom();
        }else if(ae.getSource() == checkout) {
            setVisible(false);
            new Checkout();
        }else if(ae.getSource() == logout) {
            setVisible(false);
            System.exit(0);
        }
    }
    public static void main(String[]args){
        new Reception();
    }
}
```

CUSTOMER FORM(ADD CUSTOMER) -

```
package hotel.management.system;


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


public class AddCustomer extends JFrame implements ActionListener{


    JComboBox comboid;
    JTextField tfnumber,tfname,tfcountry,tfdeposit;
    JRadioButton rmale,rfemale;
    Choice croom;
    JLabel checkintime;
    JButton add,back;


    AddCustomer(){


      getContentPane().setBackground(Color.WHITE);
      setLayout(null);
```

```
JLabel text=new JLabel("NEW CUSTOMER FORM");
text.setBounds(100,20,300,30);
text.setFont(new Font("Ralelway",Font.PLAIN,20));
add(text);

JLabel lblid=new JLabel("ID");
lblid.setBounds(35,80,100,20);
lblid.setFont(new Font("Ralelway",Font.PLAIN,20));
add(lblid);

String options[]={"Aadhar card","Passport","Driving License","Voter-id
Card","Ration Card"};
comboid=new JComboBox(options);
comboid.setBounds(200,80,150,25);
comboid.setBackground(Color.WHITE);
add(comboid);

JLabel lblnumber=new JLabel("Number");
lblnumber.setBounds(35,120,100,20);
lblnumber.setFont(new Font("Ralelway",Font.PLAIN,20));
add(lblnumber);

tfnumber=new JTextField();
tfnumber.setBounds(200,120,150,25);
```

```
add(tfnumber);

JLabel lblname=new JLabel("Name");
lblname.setBounds(35,160,100,20);
lblname.setFont(new Font("Ralelway",Font.PLAIN,20));
add(lblname);

tfname=new JTextField();
tfname.setBounds(200,160,150,25);
add(tfname);

JLabel lblgender=new JLabel("Gender");
lblgender.setBounds(35,200,100,20);
lblgender.setFont(new Font("Ralelway",Font.PLAIN,20));
add(lblgender);

rmale=new JRadioButton("MALE");
rmale.setBackground(Color.WHITE);
rmale.setBounds(200,200,60,25);
add(rmale);

rfemale=new JRadioButton("FEMALE");
rfemale.setBackground(Color.WHITE);
```

```
rfemale.setBounds(270,200,100,25);
add(rfemale);

JLabel lblcountry=new JLabel("COUNTRY");
lblcountry.setBounds(35,240,100,20);
lblcountry.setFont(new Font("Ralelway",Font.PLAIN,20));
add(lblcountry);

tfcountry=new JTextField();
tfcountry.setBounds(200,240,150,25);
add(tfcountry);

JLabel lblroom=new JLabel("Room Number");
lblroom.setBounds(35,280,150,20);
lblroom.setFont(new Font("Ralelway",Font.PLAIN,20));
add(lblroom);

croom = new Choice();

try{
   Conn conn=new Conn();
   String query ="select * from room where availability = 'Available'";
   ResultSet rs = conn.s.executeQuery(query);
```

```
    while(rs.next()){
        croom.add(rs.getString("roomnumber"));
    }
}catch(Exception e){
    e.printStackTrace();
}

croom.setBounds(200,280,150,25);
add(croom);

JLabel lbltime=new JLabel("Checkin time");
lbltime.setBounds(35,320,150,20);
lbltime.setFont(new Font("Ralelway",Font.PLAIN,20));
add(lbltime);

Date date = new Date();

 checkintime=new JLabel(""+ date);
checkintime.setBounds(200,320,150,25);
checkintime.setFont(new Font("Ralelway",Font.PLAIN,16));
add(checkintime);

JLabel lbldeposite=new JLabel("DEPOSITE");
```

```
        lbldeposite.setBounds(35,360,100,20);
        lbldeposite.setFont(new Font("Ralelway",Font.PLAIN,20));
        add(lbldeposite);

        tfdeposit=new JTextField();
        tfdeposit.setBounds(200,360,150,25);
        add(tfdeposit);

        add=new JButton("ADD");
        add.setBackground(Color.BLACK);
        add.setForeground(Color.WHITE);
        add.setBounds(50,410,120,25);
        add.addActionListener(this);
        add(add);

        back=new JButton("BACK");
        back.setBackground(Color.BLACK);
        back.setForeground(Color.WHITE);
        back.setBounds(200,410,120,25);
        back.addActionListener(this);
        add(back);

        ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/fifth.png"));
```

```
    Image i2 = i1.getImage().getScaledInstance(300, 400,
Image.SCALE_DEFAULT);
    ImageIcon i3=new ImageIcon(i2);
    JLabel image=new JLabel(i3);
    image.setBounds(4000,50,300,400);
    add(image);



    setBounds(350,200,800,550);
    setVisible(true);


  }
  public void actionPerformed(ActionEvent ae){
     if (ae.getSource() == add){
       String id = (String) comboid.getSelectedItem();
       String number=tfnumber.getText();
       String name = tfname.getText();
       String gender = null;


        if(name.equals("")){
        JOptionPane.showMessageDialog(null, "Name should not be empty");
        return;
     }
        if(number.equals("")){
```

```
    JOptionPane.showMessageDialog(null, "Number should not be empty");
    return;
  }

 if(name.equals("")){
    JOptionPane.showMessageDialog(null, "Name should not be empty");
    return;
  }
 if(gender.equals("")){
    JOptionPane.showMessageDialog(null, "Gender should not be empty");
    return;
  }
if(rmale.isSelected()){
       gender ="MALE";
   } else {
       gender = "FEMALE";
   }
   String country = tfcountry.getText();
   String room = croom.getSelectedItem();
   String time = checkintime.getText();
   String deposit = tfdeposit.getText();
   try{
```

```
            String query = "insert into customer values('"+id+"', '"+number+"'
,'"+name+"' ,'"+gender+"' ,'"+country+"' ,'"+room+"' ,'"+time+"'
,'"+deposit+"')";

            String query2 = "update room set availability = 'Occupied' where
roomnumber = '"+room+"'";

            Conn conn = new Conn();

            conn.s.executeUpdate(query);

            conn.s.executeUpdate(query2);

            JOptionPane.showMessageDialog(null, "New Customer Added
Successfully")

            setVisible(false);

            new Reception();


          }catch(Exception e){

              e.printStackTrace();

          }

        }else if(ae.getSource() == back){

            setVisible(false);

            new Reception();

        }

    }

    public static void main(String[]args){

        new AddCustomer();

    }

}
```

ROOM (ADD ROOMS) –

```
package hotel.management.system;


import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import net.proteanit.sql.*;
public class Room extends JFrame implements ActionListener{
   JTable table;
   JButton back;
   Room(){
     getContentPane().setBackground(Color.WHITE);
     setLayout(null);
     ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/eight.jpg"));
     Image i2 = i1.getImage().getScaledInstance(600, 600,
Image.SCALE_DEFAULT);
     ImageIcon i3=new ImageIcon(i2);
     JLabel image=new JLabel(i3);
     image.setBounds(500,0,600,600);
     add(image);
     JLabel l1 = new JLabel("Room Number");
     l1.setBounds(10,10,100,20);
```

```
add(l1);
JLabel l2 = new JLabel("Availability");
l2.setBounds(120,10,100,20);
add(l2);
JLabel l3 = new JLabel("Status");
l3.setBounds(230,10,100,20);
add(l3);

JLabel l4 = new JLabel("Price");
l4.setBounds(330,10,100,20);
add(l4);

JLabel l5 = new JLabel("Bed Type");
l5.setBounds(410,10,100,20);
add(l5);

table = new JTable();
table.setBounds(0,40,500,400);
add(table);
try {
   Conn c= new Conn();
  ResultSet rs = c.s.executeQuery("select * from room");
  table.setModel(DbUtils.resultSetToTableModel(rs));
```

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

        back = new JButton("Back");
        back.setBackground(Color.BLACK);
        back.setForeground(Color.WHITE);
        back.addActionListener(this);
        back.setBounds(200,500,120,50);
        add(back);

        setBounds(300,200,1050,600);
        setVisible(true);
    }

    public void actionPerformed(ActionEvent ae){
        setVisible(false);
        new Reception();
    }
    public static void main(String[]args){
        new Room();
    }
}
```

DEPARTMENT –

```
package hotel.management.system;


import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import net.proteanit.sql.*;
public class Department extends JFrame implements ActionListener{
    JTable table;
    JButton back;
    Department(){
      getContentPane().setBackground(Color.WHITE);
      setLayout(null);
      JLabel l1 = new JLabel("Department");
      l1.setBounds(100,10,100,20);
      add(l1);
      JLabel l2 = new JLabel("Budget");
      l2.setBounds(420,10,100,20);
      add(l2);
      table = new JTable();
      table.setBounds(0,50,700,350);
      add(table);
```

```
  try {
     Conn c= new Conn();
    ResultSet rs = c.s.executeQuery("select * from department");
    table.setModel(DbUtils.resultSetToTableModel(rs));
  }catch(Exception e){
      e.printStackTrace();
  }
  back = new JButton("Back");
  back.setBackground(Color.BLACK);
  back.setForeground(Color.WHITE);
  back.addActionListener(this);
  back.setBounds(280,400,120,30);
  add(back);
   setBounds(400,200,700,480);
   setVisible(true);
}
public void actionPerformed(ActionEvent ae){
    setVisible(false);
    new Reception();
}
public static void main(String[]args){
    new Department();
    }}
```

EMPLOYEE INFO –

```
package hotel.management.system;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import net.proteanit.sql.*;
public class EmployeeInfo extends JFrame implements ActionListener{
    JTable table;
    JButton back;
    EmployeeInfo(){
      getContentPane().setBackground(Color.WHITE);
      setLayout(null);
      JLabel l1 = new JLabel("Name");
      l1.setBounds(40,10,100,20);
      add(l1);
      JLabel l2 = new JLabel("Age");
      l2.setBounds(170,10,100,20);
      add(l2);
      JLabel l3 = new JLabel("Gender");
      l3.setBounds(290,10,100,20);
      add(l3);
```

```
JLabel l4 = new JLabel("Job");
l4.setBounds(400,10,100,20);
add(l4);

JLabel l5 = new JLabel("Salary");
l5.setBounds(540,10,100,20);
add(l5);

JLabel l6 = new JLabel("Phone");
l6.setBounds(670,10,100,20);
add(l6);

JLabel l7 = new JLabel("Email");
l7.setBounds(790,10,100,20);
add(l7);
 JLabel l8 = new JLabel("Aadhar");
l8.setBounds(910,10,100,20);
add(l8);
table = new JTable();
table.setBounds(0,40,1000,400);
add(table);

try {
```

```
        Conn c= new Conn();
        ResultSet rs = c.s.executeQuery("select * from employee");
        table.setModel(DbUtils.resultSetToTableModel(rs));
      }catch(Exception e){
         e.printStackTrace();
      }
      back = new JButton("Back");
      back.setBackground(Color.BLACK);
      back.setForeground(Color.WHITE);
      back.addActionListener(this);
      back.setBounds(420,500,120,50);
      add(back);
       setBounds(300,200,1000,600);
       setVisible(true);
    }
    public void actionPerformed(ActionEvent ae){
       setVisible(false);
       new Reception();
    }
    public static void main(String[]args){
       new EmployeeInfo();
    }
}
```

CUSTOMER INFO –

```
package hotel.management.system;


import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import net.proteanit.sql.*;
public class CustomerInfo extends JFrame implements ActionListener{
    JTable table;
    JButton back;
    CustomerInfo(){
      getContentPane().setBackground(Color.WHITE);
      setLayout(null);
      JLabel l1 = new JLabel("Document Type");
      l1.setBounds(10,10,100,20);
      add(l1);
      JLabel l2 = new JLabel("Number");
      l2.setBounds(160,10,100,20);
      add(l2);
      JLabel l3 = new JLabel("Name");
      l3.setBounds(290,10,100,20);
      add(l3);
```

```
JLabel l4 = new JLabel("Gender");
l4.setBounds(410,10,100,20);
add(l4);
JLabel l5 = new JLabel("Country");
l5.setBounds(540,10,100,20);
add(l5);
JLabel l6 = new JLabel("Room Number");
l6.setBounds(640,10,100,20);
add(l6);
JLabel l7 = new JLabel("Checkin time");
l7.setBounds(760,10,100,20);
add(l7);
JLabel l8 = new JLabel("Deposit");
l8.setBounds(900,10,100,20);
add(l8);
table = new JTable();
table.setBounds(0,40,1000,400);
add(table);
try {
   Conn c= new Conn();
  ResultSet rs = c.s.executeQuery("select * from customer");
  table.setModel(DbUtils.resultSetToTableModel(rs));
```

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

        back = new JButton("Back");
        back.setBackground(Color.BLACK);
        back.setForeground(Color.WHITE);
        back.addActionListener(this);
        back.setBounds(420,500,120,50);
        add(back);

         setBounds(300,200,1000,600);
         setVisible(true);
      }

      public void actionPerformed(ActionEvent ae){
         setVisible(false);
         new Reception();
      }
      public static void main(String[]args){
         new CustomerInfo();
          }
  }
```

MANAGER INFO –

```
package hotel.management.system;

import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

import java.sql.*;

import net.proteanit.sql.*;

public class ManagerInfo extends JFrame implements ActionListener{

   JTable table;

   JButton back;

   ManagerInfo(){

     getContentPane().setBackground(Color.WHITE);

     setLayout(null);

     JLabel l1 = new JLabel("Name");

     l1.setBounds(40,10,100,20);

     add(l1);

     JLabel l2 = new JLabel("Age");

     l2.setBounds(170,10,100,20);

     add(l2);

     JLabel l3 = new JLabel("Gender");

     l3.setBounds(290,10,100,20);

     add(l3);
```

```
JLabel l4 = new JLabel("Job");
l4.setBounds(400,10,100,20);
add(l4);
JLabel l5 = new JLabel("Salary");
l5.setBounds(540,10,100,20);
add(l5);
JLabel l6 = new JLabel("Phone");
l6.setBounds(670,10,100,20);
add(l6);
JLabel l7 = new JLabel("Email");
l7.setBounds(790,10,100,20);
add(l7);
 JLabel l8 = new JLabel("Aadhar");
l8.setBounds(910,10,100,20);
add(l8);
table = new JTable();
table.setBounds(0,40,1000,400);
add(table);
try {
   Conn c= new Conn();
  ResultSet rs = c.s.executeQuery("select * from employee where job =
   'Manager'");
  table.setModel(DbUtils.resultSetToTableModel(rs));
```

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

        back = new JButton("Back");
        back.setBackground(Color.BLACK);
        back.setForeground(Color.WHITE);
        back.addActionListener(this);
        back.setBounds(420,500,120,50);
        add(back);

         setBounds(300,200,1000,600);
         setVisible(true);
      }

      public void actionPerformed(ActionEvent ae){
         setVisible(false);
         new Reception();
      }
      public static void main(String[]args){
         new ManagerInfo();
          }
  }
```

CHECKOUT –

```
package hotel.management.system;
import javax.swing.*;
import java.awt.*;
import java.sql.*;
import java.util.Date;
import java.awt.event.*;
public class Checkout extends JFrame implements ActionListener{
    Choice ccustomer;
    JLabel lblroomnumber,lblcheckintime,lblcheckouttime;
    JButton checkout,back;
    Checkout(){
        getContentPane().setBackground(Color.WHITE);
        setLayout(null);
        JLabel text = new JLabel("Checkout");
        text.setBounds(100,20,100,30);
        text.setForeground(Color.BLUE);
        text.setFont(new Font("Tahoma",Font.PLAIN,20));
        add(text);
        JLabel lblid = new JLabel("Customer Id");
        lblid.setBounds(30,80,100,30);
        add(lblid);
```

```
        ccustomer = new Choice();
        ccustomer.setBounds(150,80,150,25);
        add(ccustomer);
    ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/tick.png"));
        Image i2 = i1.getImage().getScaledInstance(20, 20,
Image.SCALE_DEFAULT);
        ImageIcon i3 = new ImageIcon(i2);
        JLabel tick=new JLabel(i3);
        tick.setBounds(310,80,20,20);
        add(tick);
        JLabel lblroom = new JLabel("Room Number");
        lblroom.setBounds(30,130,100,30);
        add(lblroom);
        lblroomnumber = new JLabel();
        lblroomnumber.setBounds(150,130,100,30);
        add(lblroomnumber);
        JLabel lblcheckin = new JLabel("Checkin Time");
        lblcheckin.setBounds(30,180,100,30);
        add(lblcheckin);
        lblcheckintime = new JLabel();
        lblcheckintime.setBounds(150,180,100,30);
        add(lblcheckintime);
```

```
 JLabel lblcheckout = new JLabel("Checkout Time");
 lblcheckout.setBounds(30,230,100,30);
 add(lblcheckout);
 Date date = new Date();
 lblcheckouttime = new JLabel("" + date);
 lblcheckouttime.setBounds(150,230,150,30);
 add(lblcheckouttime);
checkout = new JButton("Checkout");
checkout.setBackground(Color.BLACK);
checkout.setForeground(Color.WHITE);
checkout.setBounds(30,280,120,30);
checkout.addActionListener(this);
add(checkout);
back = new JButton("Back");
back.setBackground(Color.BLACK);
back.setForeground(Color.WHITE);
back.setBounds(170,280,120,30);
back.addActionListener(this);
add(back);
try{
    Conn c = new Conn();
    ResultSet rs = c.s.executeQuery("select * from customer");
    while(rs.next()){
```

```
            ccustomer.add(rs.getString("number"));
            lblroomnumber.setText(rs.getString("room"));
            lblcheckintime.setText(rs.getString("checkintime"));
          }
       }catch(Exception e){
          e.printStackTrace();
       }
      ImageIcon i4=new
ImageIcon(ClassLoader.getSystemResource("icons/sixth.jpg"));
       Image i5 = i4.getImage().getScaledInstance(400, 250,
Image.SCALE_DEFAULT);
       ImageIcon i6 = new ImageIcon(i5);
       JLabel image=new JLabel(i6);
       image.setBounds(350,50,400,250);
       add(image);

       setBounds(300,200,800,400);
       setVisible(true);
    }

    public void actionPerformed(ActionEvent ae){
       if (ae.getSource() == checkout){
          String query1 = "delete from customer where number =
'"+ccustomer.getSelectedItem()+"'";
```

```
        String query2 ="update room set availability = 'Available' where
roomnumber = '"+lblroomnumber.getText()+"'";
          try{
            Conn c= new Conn();
            c.s.executeUpdate(query1);
            c.s.executeUpdate(query2);
              JOptionPane.showMessageDialog(null, "Checkout done");

            setVisible(false);
            new Reception();

          }catch(Exception e){
             e.printStackTrace();
          }
       }else{
          setVisible(false);
          new Reception();
       }
    }
    public static void main(String[]args){
      new Checkout();
    }
}
```

UPDATE STATUS –

```
package hotel.management.system;


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


public class UpdateCheck extends JFrame implements ActionListener{


    Choice ccustomer;
    JTextField tfroom,tfname,tfcheckin,tfpaid,tfpending;
    JButton check,update,back;


    UpdateCheck(){


        getContentPane().setBackground(Color.WHITE);
        setLayout(null);


        JLabel text = new JLabel("Update Status");
        text.setFont(new Font("Tahoma",Font.PLAIN,20));
        text.setBounds(90,20,200,30);
```

```
text.setForeground(Color.BLUE);
add(text);

JLabel lblid = new JLabel("Customer Id");
lblid.setBounds(30,80,100,20);
add(lblid);

ccustomer = new Choice();
ccustomer.setBounds(200,80,150,25);
add(ccustomer);

try{
   Conn c = new Conn();
   ResultSet rs = c.s.executeQuery("select * from customer");
   while(rs.next()){
      ccustomer.add(rs.getString("number"));
   }
}catch(Exception e){
   e.printStackTrace();
}
JLabel lblroom = new JLabel("Room Number");
lblroom.setBounds(30,120,100,20);
add(lblroom);
```

```
tfroom = new JTextField();
tfroom.setBounds(200,120,150,25);
add(tfroom);

JLabel lblname = new JLabel("Name");
lblname.setBounds(30,160,100,20);
add(lblname);

tfname = new JTextField();
tfname.setBounds(200,160,150,25);
add(tfname);
JLabel lblcheckin = new JLabel("Checkin Time");
lblcheckin.setBounds(30,200,100,20);
add(lblcheckin);

tfcheckin = new JTextField();
tfcheckin.setBounds(200,200,150,25);
add(tfcheckin);

JLabel lblpaid = new JLabel("Amount Paid");
lblpaid.setBounds(30,240,100,20);
add(lblpaid);
```

```
tfpaid = new JTextField();
tfpaid.setBounds(200,240,150,25);
add(tfpaid);

JLabel lblpending = new JLabel("Pending Amount");
lblpending.setBounds(30,280,100,20);
add(lblpending);

tfpending = new JTextField();
tfpending.setBounds(200,280,150,25);
add(tfpending);

check = new JButton("Check");
check.setBackground(Color.BLACK);
check.setForeground(Color.WHITE);
check.setBounds(30,340,100,30);
check.addActionListener(this);
add(check);

update = new JButton("Update");
update.setBackground(Color.BLACK);
update.setForeground(Color.WHITE);
```

```
        update.setBounds(150,340,100,30);
        update.addActionListener(this);
        add(update);

        back = new JButton("Back");
        back.setBackground(Color.BLACK);
        back.setForeground(Color.WHITE);
        back.setBounds(270,340,100,30);
        back.addActionListener(this);
        add(back);
        ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/nine.jpg"));
        JLabel image=new JLabel(i1);
        image.setBounds(400,50,500,300);
        add(image);
        setBounds(300,200,980,500);
        setVisible(true);
    }
    public void actionPerformed(ActionEvent ae){
        if(ae.getSource() == check){
            String id = ccustomer.getSelectedItem();
            String query = "select * from customer where number = '"+id+"'";
            try {
                Conn c = new Conn();
```

```
            ResultSet rs = c.s.executeQuery(query);
            while(rs.next()){
                tfroom.setText(rs.getString("room"));
                tfname.setText(rs.getString("name"));
                tfcheckin.setText(rs.getString("checkintime"));
                tfpaid.setText(rs.getString("deposit"));
            }
            ResultSet rs2 = c.s.executeQuery("select * from room where
roomnumber = '"+tfroom.getText()+"'");
            while(rs2.next()){
                String price = rs2.getString("price");
                int amountPaid = Integer.parseInt(price) -
Integer.parseInt(tfpaid.getText());
                tfpending.setText(""+ amountPaid);
              }
            }catch ( Exception e){
               e.printStackTrace();
            }
        }else if (ae.getSource() == update){
            String number = ccustomer.getSelectedItem();
            String room = tfroom.getText();
            String name = tfname.getText();
            String checkin = tfcheckin.getText();
            String deposit = tfpaid.getText();
```

```
        try{
            Conn c = new Conn();
            c.s.executeUpdate("update customer set room = '"+room+"',name =
'"+name+"',checkintime ='"+checkin+"',deposit ='"+deposit+"'where number =
'"+number+"'");

            JOptionPane.showMessageDialog(null, "Data Updated Successfully");
            setVisible(false);
            new Reception();

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

      }else{
         setVisible(false);
         new Reception();
       }
   }
   public static void main(String[]args){
     new UpdateCheck();
   }
   }
```

UPDATE ROOM STATUS -

```
package hotel.management.system;

import java.awt.Color;

import javax.swing.*;

import java.awt.*;

import java.sql.*;

import java.awt.event.*;

public class UpdateRoom extends JFrame implements ActionListener{

   Choice ccustomer;

   JTextField tfroom,tfavailable,tfstatus;

   JButton check,update,back;

   UpdateRoom(){

      getContentPane().setBackground(Color.WHITE);

      setLayout(null);

      JLabel text = new JLabel("Update Room Status");

      text.setFont(new Font("Tahoma",Font.PLAIN,25));

      text.setBounds(30,20,250,30);

      text.setForeground(Color.BLUE);

      add(text);

      JLabel lblid = new JLabel("Customer Id");

      lblid.setBounds(30,80,100,20);

      add(lblid);

      ccustomer = new Choice();
```

```
ccustomer.setBounds(200,80,150,25);
add(ccustomer);
try{
   Conn c = new Conn();
   ResultSet rs = c.s.executeQuery("select * from customer");
   while(rs.next()){
      ccustomer.add(rs.getString("number"));
   }
}catch(Exception e){
   e.printStackTrace();
}
JLabel lblroom = new JLabel("Room Number");
lblroom.setBounds(30,130,100,20);
add(lblroom);

tfroom = new JTextField();
tfroom.setBounds(200,130,150,25);
add(tfroom);
JLabel lblname = new JLabel("Availability");
lblname.setBounds(30,180,100,20);
add(lblname);
tfavailable = new JTextField();
tfavailable.setBounds(200,180,150,25);
```

```
add(tfavailable);
JLabel lblcheckin = new JLabel("Cleaning Status");
lblcheckin.setBounds(30,230,100,20);
add(lblcheckin);
tfstatus = new JTextField();
tfstatus.setBounds(200,230,150,25);
add(tfstatus);
check = new JButton("Check");
check.setBackground(Color.BLACK);
check.setForeground(Color.WHITE);
check.setBounds(30,300,100,30);
check.addActionListener(this);
add(check);
      update = new JButton("Update");
update.setBackground(Color.BLACK);
update.setForeground(Color.WHITE);
update.setBounds(150,300,100,30);
update.addActionListener(this);
add(update);

back = new JButton("Back");
back.setBackground(Color.BLACK);
back.setForeground(Color.WHITE);
```

```
        back.setBounds(270,300,100,30);
        back.addActionListener(this);
        add(back);

        ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/seventh.jpg"));
        Image i2 = i1.getImage().getScaledInstance(500, 300,
Image.SCALE_DEFAULT);
        ImageIcon i3 = new ImageIcon(i2);
        JLabel image=new JLabel(i3);
        image.setBounds(400,50,500,300);
        add(image);

        setBounds(300,200,980,450);
        setVisible(true);
    }

    public void actionPerformed(ActionEvent ae){
        if(ae.getSource() == check){
            String id = ccustomer.getSelectedItem();
            String query = "select * from customer where number = '"+id+"'";
            try {
                Conn c = new Conn();
                ResultSet rs = c.s.executeQuery(query);
```

```
            while(rs.next()){
                tfroom.setText(rs.getString("room"));
            }

            ResultSet rs2 = c.s.executeQuery("select * from room where
roomnumber = '"+tfroom.getText()+"'");
            while(rs2.next()){
              tfavailable.setText(rs2.getString("availability"));
              tfstatus.setText(rs2.getString("cleaning_status"));
            }
          }catch ( Exception e){
             e.printStackTrace();
          }

        }else if (ae.getSource() == update){
           String number = ccustomer.getSelectedItem();
           String room = tfroom.getText();
           String available = tfavailable.getText();
           String status = tfstatus.getText();

           try{
              Conn c = new Conn();
```

```
            c.s.executeUpdate("update room set availability =
'"+available+"',cleaning_status = '"+status+"'where roomnumber =
'"+room+"'");


            JOptionPane.showMessageDialog(null, "Data Updated Successfully");


            setVisible(false);

            new Reception();


        }catch(Exception e){

            e.printStackTrace();

        }


    }else{

        setVisible(false);

        new Reception();

    }

  }

   public static void main(String[]args){

    new UpdateRoom();

  }

  }
```

SEARCH ROOM –

```
package hotel.management.system;


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



public class SearchRoom extends JFrame implements ActionListener{
    JTable table;
    JButton back,submit;
    JComboBox bedType;
    JCheckBox available;
    SearchRoom(){

      getContentPane().setBackground(Color.WHITE);
      setLayout(null);

      JLabel text = new JLabel("Search for Room");
      text.setFont(new Font("Tahoma",Font.PLAIN,20));
      text.setBounds(400,30,200,30);
```

```
add(text);

JLabel lblbed = new JLabel("Bed Type");
lblbed.setBounds(10,10,100,20);
add(lblbed);

bedType = new JComboBox(new String[]{"Single Bed","Double Bed"});
bedType.setBounds(150,100,150,25);
bedType.setBackground(Color.WHITE);
add(bedType);

available =new JCheckBox("Only Display Available");
available.setBounds(650,100,150,25);
available.setBackground(Color.WHITE);
add(available);


JLabel l1 = new JLabel("Room Number");
l1.setBounds(50,160,100,20);
add(l1);

JLabel l2 = new JLabel("Availability");
l2.setBounds(270,160,100,20);
```

```
add(l2);

JLabel l3 = new JLabel("Cleaning Status");
l3.setBounds(450,160,100,20);
add(l3);

JLabel l4 = new JLabel("Price");
l4.setBounds(670,160,160,20);
add(l4);

JLabel l5 = new JLabel("Bed Type");
l5.setBounds(870,160,100,20);
add(l5);
table = new JTable();
table.setBounds(0,200,1000,300);
add(table);
try {
   Conn c= new Conn();
  ResultSet rs = c.s.executeQuery("select * from room");
  table.setModel(DbUtils.resultSetToTableModel(rs));
}catch(Exception e){
    e.printStackTrace();
}
```

```
    submit = new JButton("Submit");
    submit.setBackground(Color.BLACK);
    submit.setForeground(Color.WHITE);
    submit.addActionListener(this);
    submit.setBounds(300,520,120,30);
    add(submit);

    back = new JButton("Back");
    back.setBackground(Color.BLACK);
    back.setForeground(Color.WHITE);
    back.addActionListener(this);
    back.setBounds(500,520,120,30);
    add(back);
     setBounds(300,200,1000,600);
     setVisible(true);
   }
   public void actionPerformed(ActionEvent ae){
      if(ae.getSource()== submit){
      try{
        String query1 = "select * from room where bed_type =
'"+bedType.getSelectedItem()+"'";
        String query2 = "select * from room where availability = 'Available' AND
bed_type = '"+bedType.getSelectedItem()+"'";
```

```
        Conn conn = new Conn();
        ResultSet rs;
        if(available.isSelected()){
          rs = conn.s.executeQuery(query2);
        }else{
          rs=conn.s.executeQuery(query1);
        }
        table.setModel(DbUtils.resultSetToTableModel(rs));

      }catch(Exception e){
         e.printStackTrace();
      }
    } else{
      setVisible(false);
      new Reception();
    }
    }
    public static void main(String[]args){
      new SearchRoom();

    }
}
```

ADD EMPLOYEES –

```
package hotel.management.system;

import java.awt.Color;

import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

public class AddEmployee extends JFrame implements ActionListener  {

   JTextField tfname,tfemail,tfphone,tfage,tfsalary,tfaadhar;

   JRadioButton rbmale,rbfemale;

   JButton submit;

   JComboBox cbjob;

   AddEmployee(){

      setLayout(null);

      getContentPane().setForeground(Color.BLUE);

      getContentPane().setBackground(Color.WHITE);

      setTitle("ADD EMPLOYEE DETAILS");

     JLabel lblname=new JLabel("NAME");

      lblname.setBounds(60,30,120,30);

      lblname.setFont(new Font("Tahoma",Font.PLAIN,17));

      add(lblname);

      tfname=new JTextField();

      tfname.setBounds(200,30,150,30);

      add(tfname);
```

```
JLabel lblage=new JLabel("AGE");
lblage.setBounds(60,80,120,30);
lblage.setFont(new Font("Tahoma",Font.PLAIN,17));
add(lblage);
 tfage=new JTextField();
tfage.setBounds(200,80,150,30);
add(tfage);
JLabel lblgender=new JLabel("GENDER");
lblgender.setBounds(60,130,120,30);
lblgender.setFont(new Font("Tahoma",Font.PLAIN,17));
add(lblgender);
 rbmale=new JRadioButton("MALE");
rbmale.setBounds(200,130,70,30);
rbmale.setFont(new Font("Tahoma",Font.PLAIN,14));
rbmale.setBackground(Color.WHITE);
add(rbmale);
 rbfemale=new JRadioButton("FEMALE");
rbfemale.setBounds(300,130,100,30);
rbfemale.setFont(new Font("Tahoma",Font.PLAIN,14));
rbfemale.setBackground(Color.WHITE);
add(rbfemale);
ButtonGroup bg=new ButtonGroup();
```

```
bg.add(rbmale);
bg.add(rbfemale);
 JLabel lbljob=new JLabel("JOB");
lbljob.setBounds(60,180,120,30);
lbljob.setFont(new Font("Tahoma",Font.PLAIN,17));
add(lbljob);
String str[]={"Front Desk Clerks","Porters","Housekeeping","Kitchen Staff","Room Service","Chefs","Waiter/Waitress","Manager","Accountant"};
 cbjob=new JComboBox(str);
cbjob.setBounds(200,180,150,30);
cbjob.setBackground(Color.WHITE);
add(cbjob);
 JLabel lblsalary=new JLabel("SALARY");
lblsalary.setBounds(60,230,120,30);
lblsalary.setFont(new Font("Tahoma",Font.PLAIN,17));
add(lblsalary);
 tfsalary=new JTextField();
tfsalary.setBounds(200,230,150,30);
add(tfsalary);
 JLabel lblphone=new JLabel("PHONE");
lblphone.setBounds(60,280,120,30);
lblphone.setFont(new Font("Tahoma",Font.PLAIN,17));
add(lblphone);
```

```
 tfphone=new JTextField();
tfphone.setBounds(200,280,150,30);
add(tfphone);
 JLabel lblemail=new JLabel("EMAIL");
lblemail.setBounds(60,330,120,30);
lblemail.setFont(new Font("Tahoma",Font.PLAIN,17));
add(lblemail);
 tfemail=new JTextField();
tfemail.setBounds(200,330,150,30);
add(tfemail);
JLabel lblaadhar=new JLabel("AADHAR NO");
lblaadhar.setBounds(60,380,120,30);
lblaadhar.setFont(new Font("Tahoma",Font.PLAIN,17));
add(lblaadhar);
 tfaadhar=new JTextField();
tfaadhar.setBounds(200,380,150,30);
add(tfaadhar);
 submit=new JButton("SUBMIT");
submit.setBackground(Color.BLACK);
submit.setForeground(Color.WHITE);
submit.setBounds(200,430,150,30);
submit.addActionListener(this);
add(submit);
```

```
        ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/tenth.jpg"));
        Image i2=i1.getImage().getScaledInstance(450, 450,
Image.SCALE_DEFAULT);
        ImageIcon i3=new ImageIcon(i2);
        JLabel image=new JLabel(i3);
        image.setBounds(380,60,450,370);
        add(image);
        getContentPane().setBackground(Color.WHITE);
        setBounds(350,200,850,540);
        setVisible(true);
    }
    public void actionPerformed(ActionEvent ae){
        String name=tfname.getText();
        String age=tfage.getText();
        String salary=tfsalary.getText();
        String phone=tfphone.getText();
        String email=tfemail.getText();
        String aadhar=tfaadhar.getText();
        String gender=null;
        if(name.equals("")){
            JOptionPane.showMessageDialog(null, "Name should not be empty");
            return;
        }
```

```
        if(age.equals("")){
            JOptionPane.showMessageDialog(null, "Age should not be empty");
            return;
        }

        if(salary.equals("")){
            JOptionPane.showMessageDialog(null, "Salary should not be empty");
            return;
        }
        if(phone.equals("")){
            JOptionPane.showMessageDialog(null, "Phone Number should not be
empty");
            return;
        }

        if(email.equals("")){
            JOptionPane.showMessageDialog(null, "EMail should not be empty");
            return;
        }
        if(aadhar.equals("")){
            JOptionPane.showMessageDialog(null, "Aadhar Number should not be
empty");
            return;
```

```
        if(rbmale.isSelected()){
            gender="Male";
        }else if(rbfemale.isSelected()){
            gender="Feamle";
        }
        String job=(String)cbjob.getSelectedItem();
        try{
          Conn conn=new Conn();

          String query="insert into employee
values('"+name+"','"+age+"','"+gender+"','"+job+"','"+salary+"','"+phone+"','"+
email+"','"+aadhar+"')";
            conn.s.executeUpdate(query);
          JOptionPane.showMessageDialog(null, "Employee added successfully");
          setVisible(false);

        }catch(Exception e){
            e.printStackTrace();
        }
       }
    public static void main(String[]args){
        new AddEmployee();
      }
}
```

ADD ROOMS –

```
package hotel.management.system;


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


public class AddRooms extends JFrame implements ActionListener{


    JButton add,cancel;
    JTextField tfroom,tfprice;
    JComboBox typecombo,availablecombo,cleancombo;
    AddRooms(){


     getContentPane().setBackground(Color.WHITE);
     setLayout(null);


     JLabel heading=new JLabel("Add Rooms");
     heading.setFont(new Font("Tahoma",Font.BOLD,18));
     heading.setBounds(150,20,200,20);
     add(heading);
     JLabel lblroomno=new JLabel("Room Number");
     lblroomno.setFont(new Font("Tahoma",Font.PLAIN,16));
```

```
lblroomno.setBounds(60,80,120,30);
add(lblroomno);

 tfroom=new JTextField();
tfroom.setBounds(200,80,150,30);
add(tfroom);

JLabel lblavailable=new JLabel("Available");
lblavailable.setFont(new Font("Tahoma",Font.PLAIN,16));
lblavailable.setBounds(60,130,120,30);
add(lblavailable);

String availableOptions[] = {"Available","Occupied"};
 availablecombo=new JComboBox(availableOptions);
availablecombo.setBounds(200,130,150,30);
availablecombo.setBackground(Color.WHITE);
add(availablecombo);

JLabel lblclean=new JLabel("Cleaning Status");
lblclean.setFont(new Font("Tahoma",Font.PLAIN,16));
lblclean.setBounds(60,180,120,30);
add(lblclean);
String CleanOptions[] = {"Cleaned","Dirty"};
```

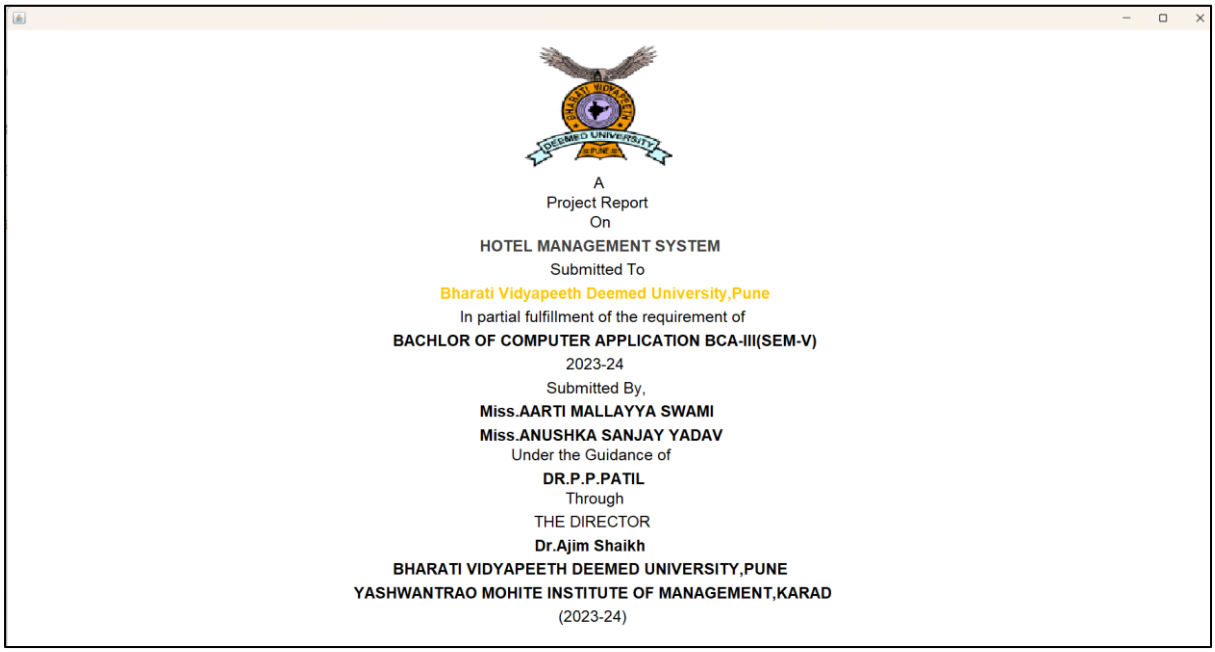
```
 cleancombo=new JComboBox(CleanOptions);
cleancombo.setBounds(200,180,150,30);
cleancombo.setBackground(Color.WHITE);
add(cleancombo);
JLabel lblprice=new JLabel("Price");
lblprice.setFont(new Font("Tahoma",Font.PLAIN,16));
lblprice.setBounds(60,230,120,30);
add(lblprice);
 tfprice=new JTextField();
tfprice.setBounds(200,230,150,30);
add(tfprice);
JLabel lbltype=new JLabel("Bed Type");
lbltype.setFont(new Font("Tahoma",Font.PLAIN,16));
lbltype.setBounds(60,280,120,30);
add(lbltype);
String TypeOptions[] = {"Single Bed","Double Bed"};
 typecombo=new JComboBox(TypeOptions);
typecombo.setBounds(200,280,150,30);
typecombo.setBackground(Color.WHITE);
add(typecombo);

 add=new JButton("Add Room");
add.setForeground(Color.WHITE);
```

```
    add.setBackground(Color.BLACK);
    add.setBounds(60,350,130,30);
    add.addActionListener(this);
    add(add);
     cancel=new JButton("Cancel");
    cancel.setForeground(Color.WHITE);
    cancel.setBackground(Color.BLACK);
    cancel.setBounds(220,350,130,30);
    cancel.addActionListener(this);
    add(cancel);
    ImageIcon i1=new
ImageIcon(ClassLoader.getSystemResource("icons/twelve.jpg"));
    JLabel image=new JLabel(i1);
    image.setBounds(400,30,500,300);
    add(image);
    setBounds(330,200,940,470);
    setVisible(true);
       }
   public void actionPerformed(ActionEvent ae){
      if(ae.getSource()== add){
         String roomnumber=tfroom.getText();
         String availability = (String)availablecombo.getSelectedItem();
         String status = (String) cleancombo.getSelectedItem();
         String price = tfprice.getText();
```

```
        String type = (String) typecombo.getSelectedItem();


        try{
          Conn conn=new Conn();
          String str="insert into room
values('"+roomnumber+"','"+availability+"','"+status+"','"+price+"','"+type+"')";
          conn.s.executeUpdate(str);


          JOptionPane.showMessageDialog(null, "New Room Added
Successfully");


          setVisible(false);
        }catch(Exception e){
           e.printStackTrace();
        }
      } else {
           setVisible(false);
      }
   }


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

4. Output Screen

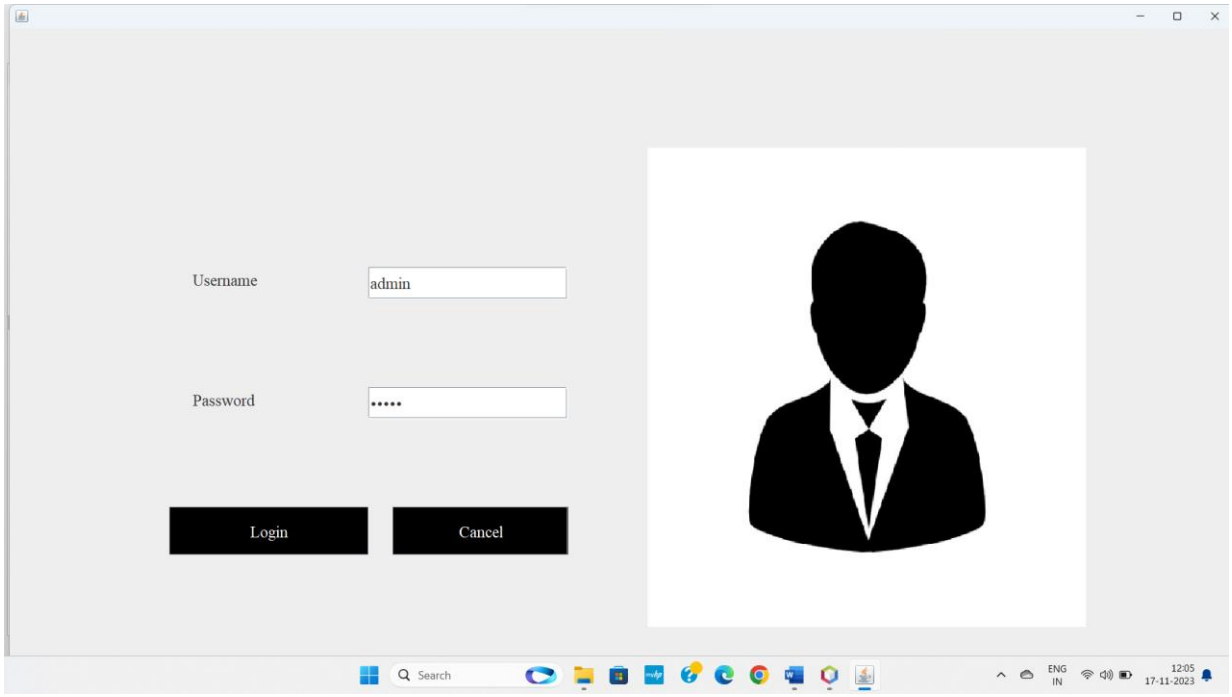
1.FIRSTPAGE (INTRODUCTION)



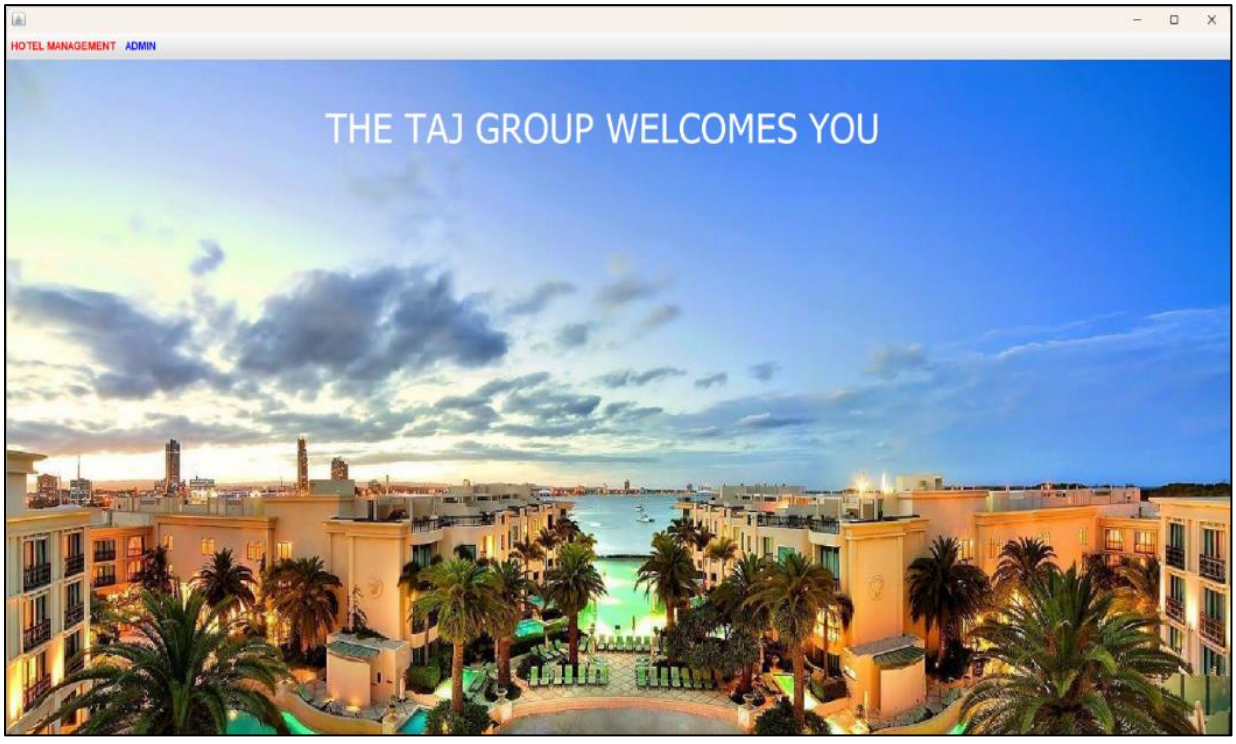
A
Project Report
On
HOTEL MANAGEMENT SYSTEM
Submitted To
Bharati Vidyapeeth Deemed University,Pune
In partial fulfillment of the requirement of
BACHLOR OF COMPUTER APPLICATION BCA-III(SEM-V)
2023-24
Submitted By,
Miss.AARTI MALLAYYA SWAMI
Miss.ANUSHKA SANJAY YADAV
Under the Guidance of
DR.P.P.PATIL
Through
THE DIRECTOR
Dr.Ajim Shaikh
BHARATI VIDYAPEETH DEEMED UNIVERSITY,PUNE
YASHWANTRAO MOHITE INSTITUTE OF MANAGEMENT,KARAD
(2023-24)

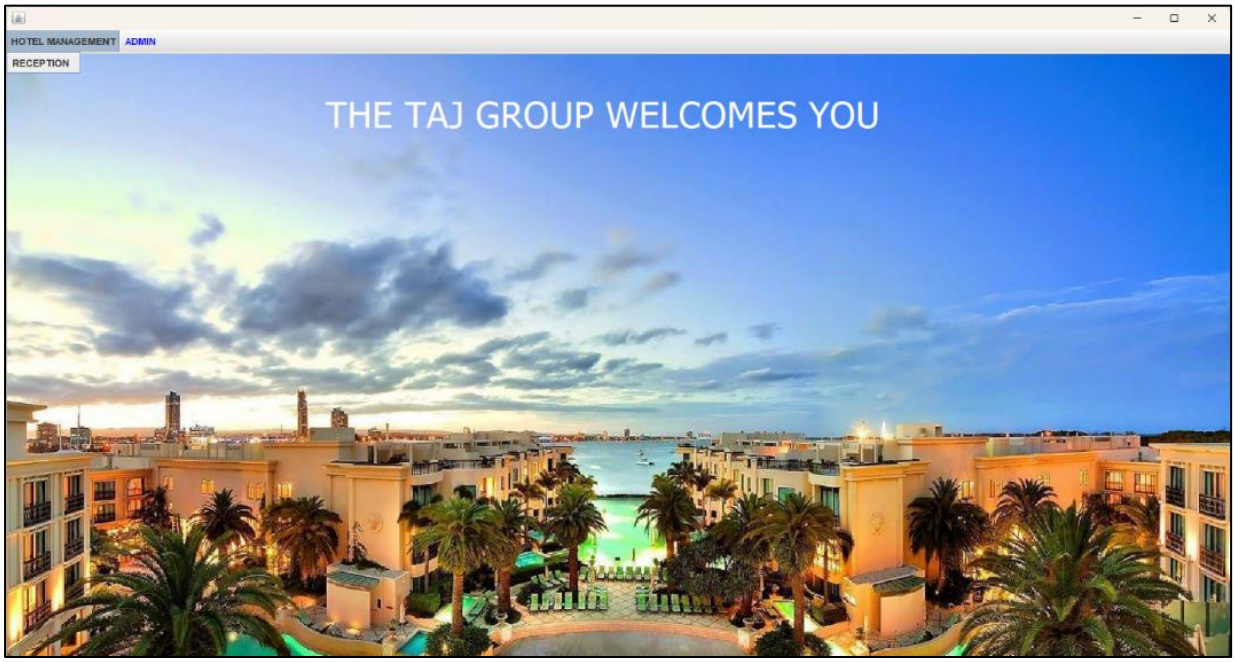
2.HOTEL MANAGEMENT SYSTEM (MAIN PAGE) –

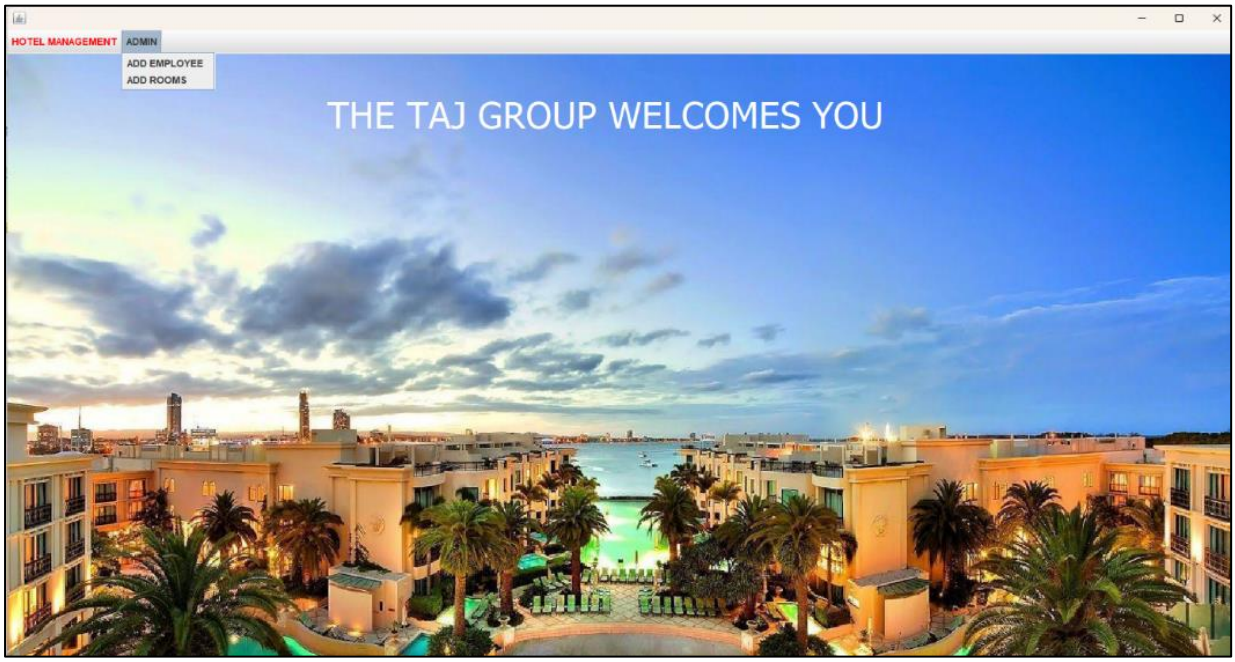
3.LOGIN –



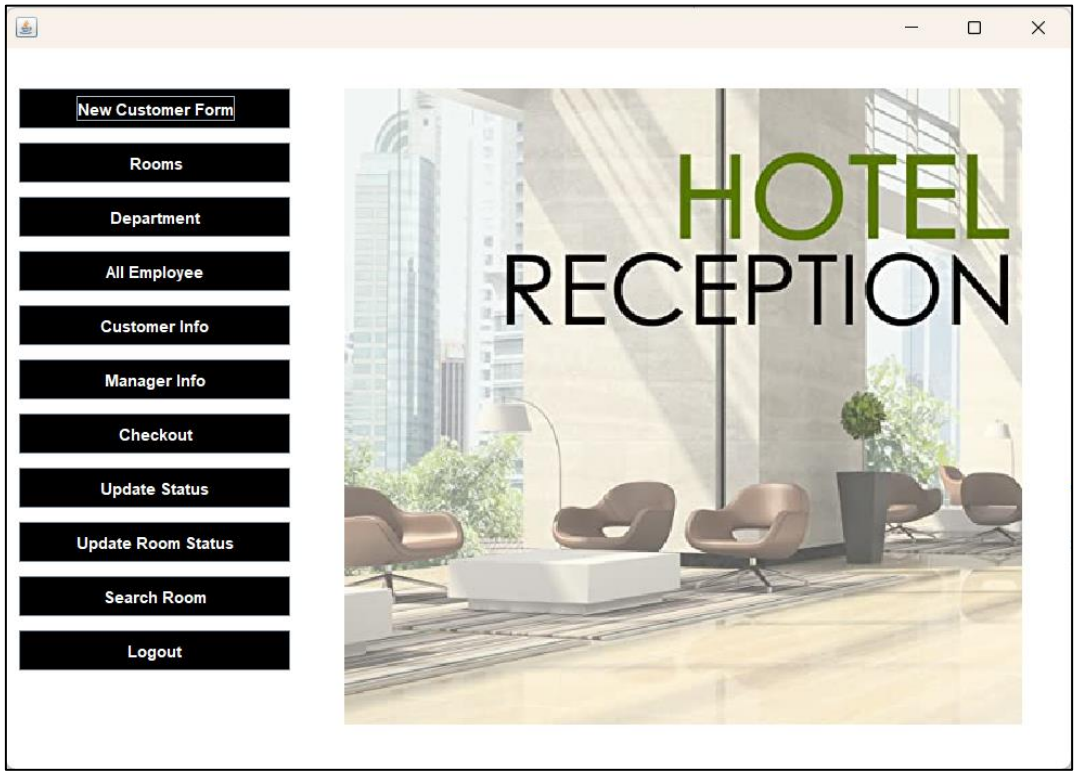
4.DASHBOARD –



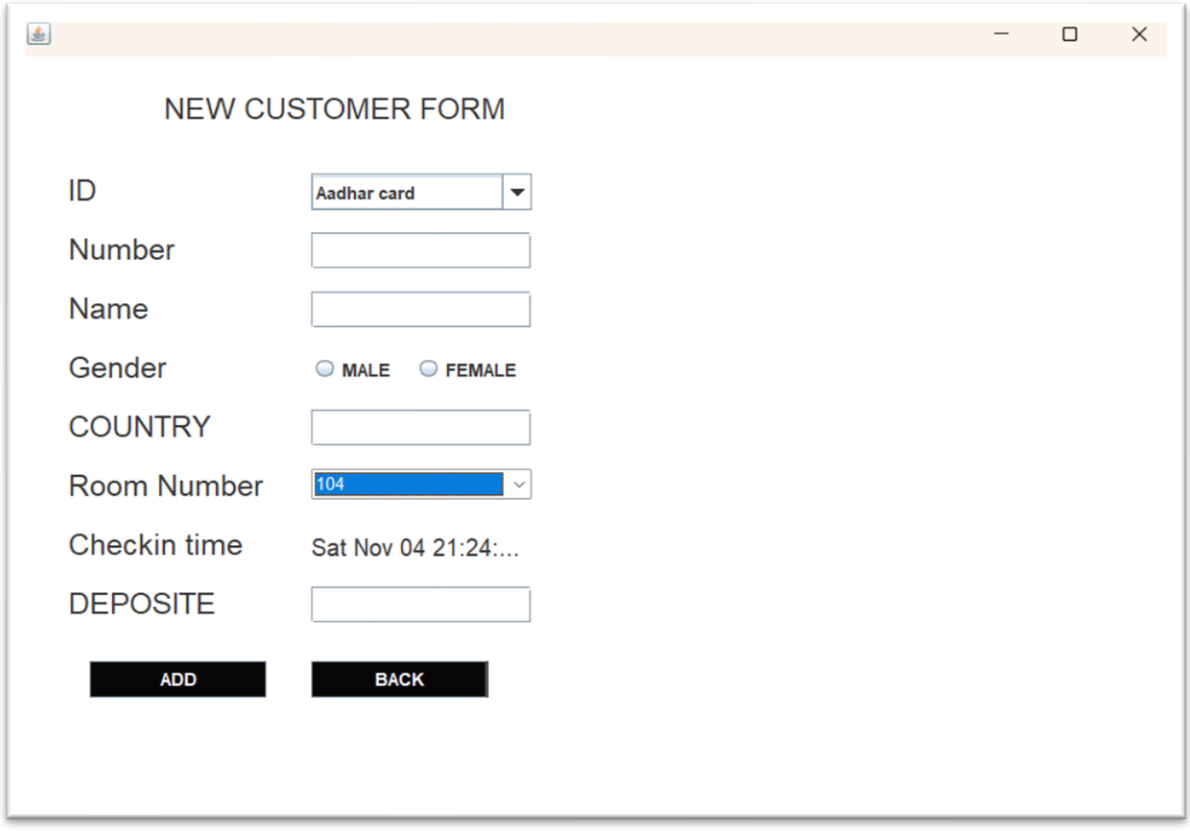

HOTEL MANAGEMENT
ADMIN
RECEPTION
THE TAJ GROUP WELCOMES YOU


HOTEL MANAGEMENT
ADMIN
ADD EMPLOYEE
ADD ROOMS
THE TAJ GROUP WELCOMES YOU

5.RECEPTION –



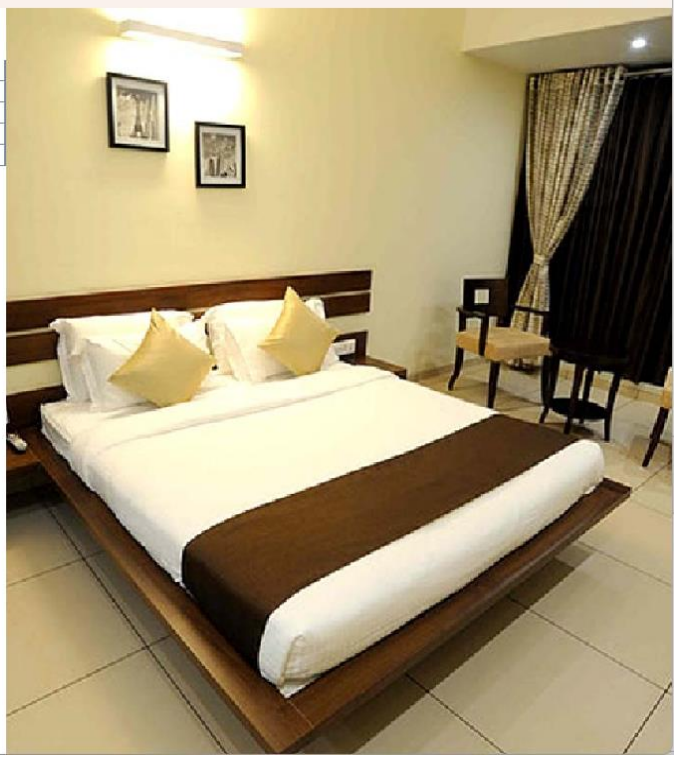
6.CUSTOMER FORM(ADD CUSTOMER) -



7.ROOM (ADD ROOMS) –

Room Number	Availability	Status	Price	Bed Type
101	Occupied	Cleaned	1200	Double Bed
102	Occupied	Dirty	3600	Single Bed
103	Occupied	Cleaned	5600	Single Bed
104	Available	Cleaned	2200	Double Bed
104	Available	Cleaned	1200	Single Bed

Back

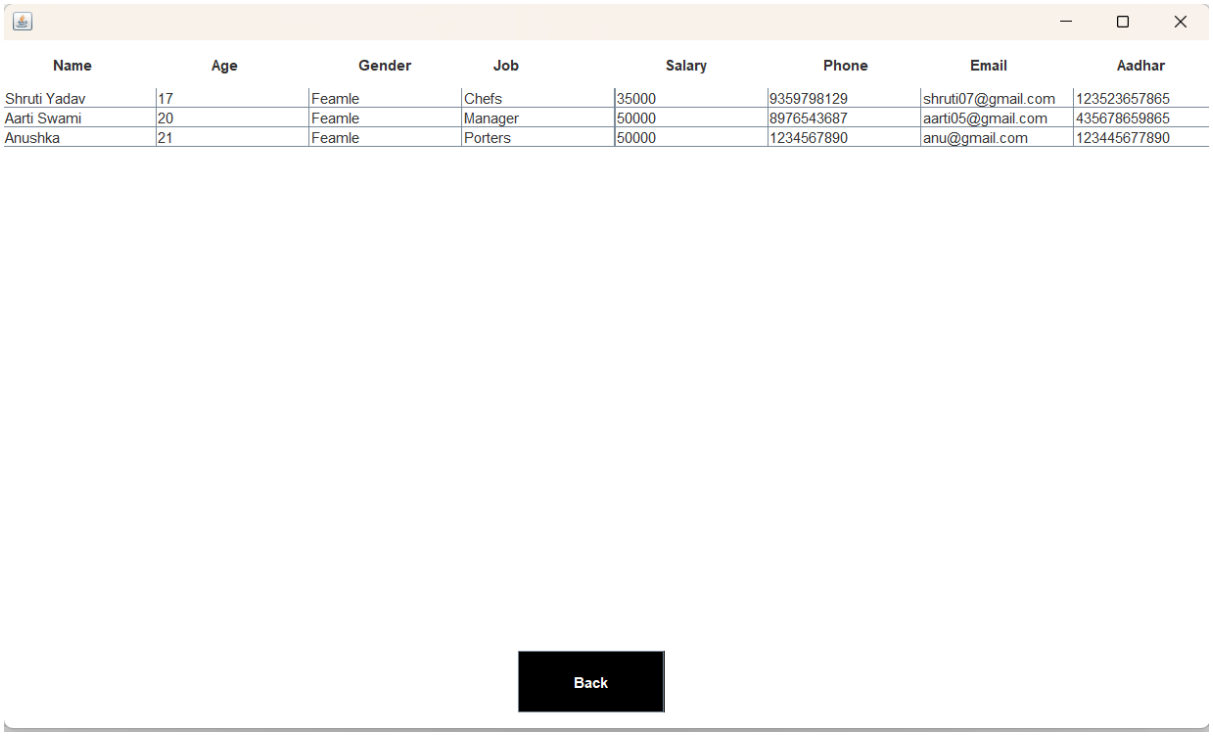


8.DEPARTMENT –

Department	Budget
Front Office	500000
Housekeeping	40000
Food and Beverage	23000
Kitchen or Food Production	540000
Security	320000

Back

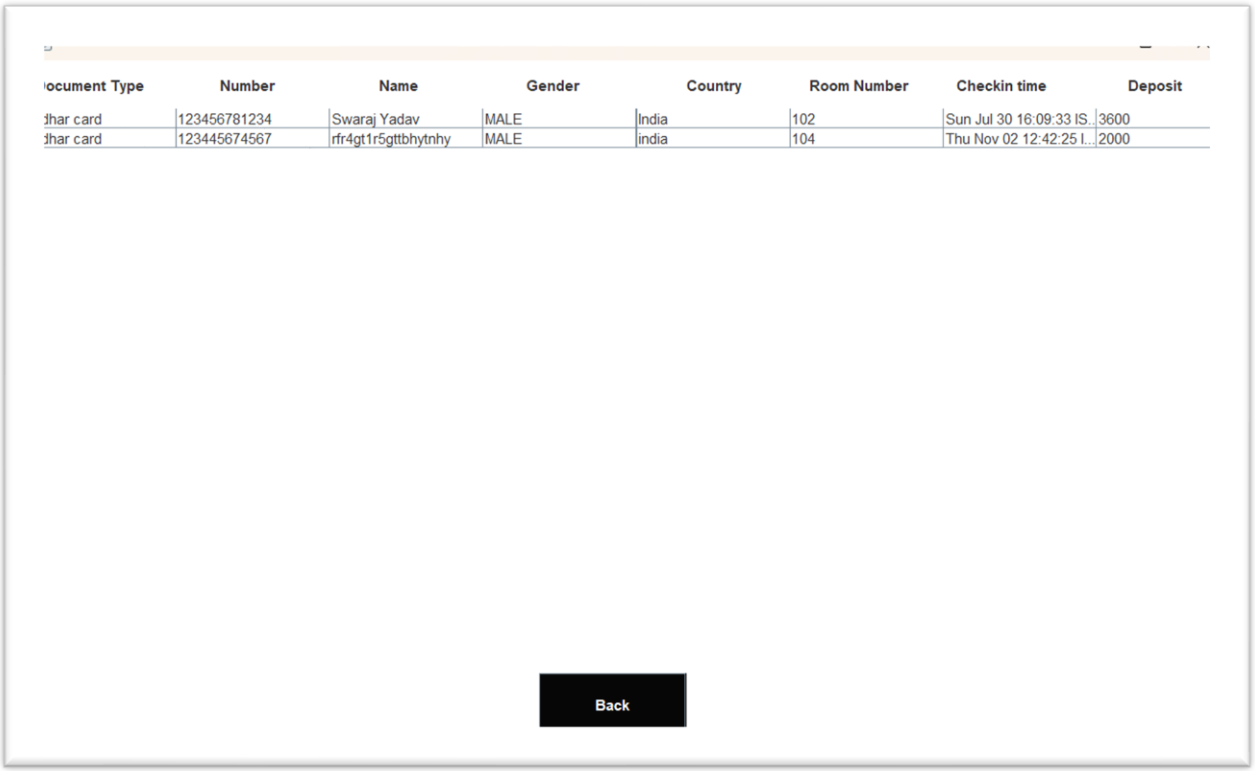
9.EMPLOYEE INFO –



Name	Age	Gender	Job	Salary	Phone	Email	Aadhar
Shruti Yadav	17	Feamle	Chefs	35000	9359798129	shruti07@gmail.com	123523657865
Aarti Swami	20	Feamle	Manager	50000	8976543687	aarti05@gmail.com	435678659865
Anushka	21	Feamle	Porters	50000	1234567890	anu@gmail.com	123445677890

Back

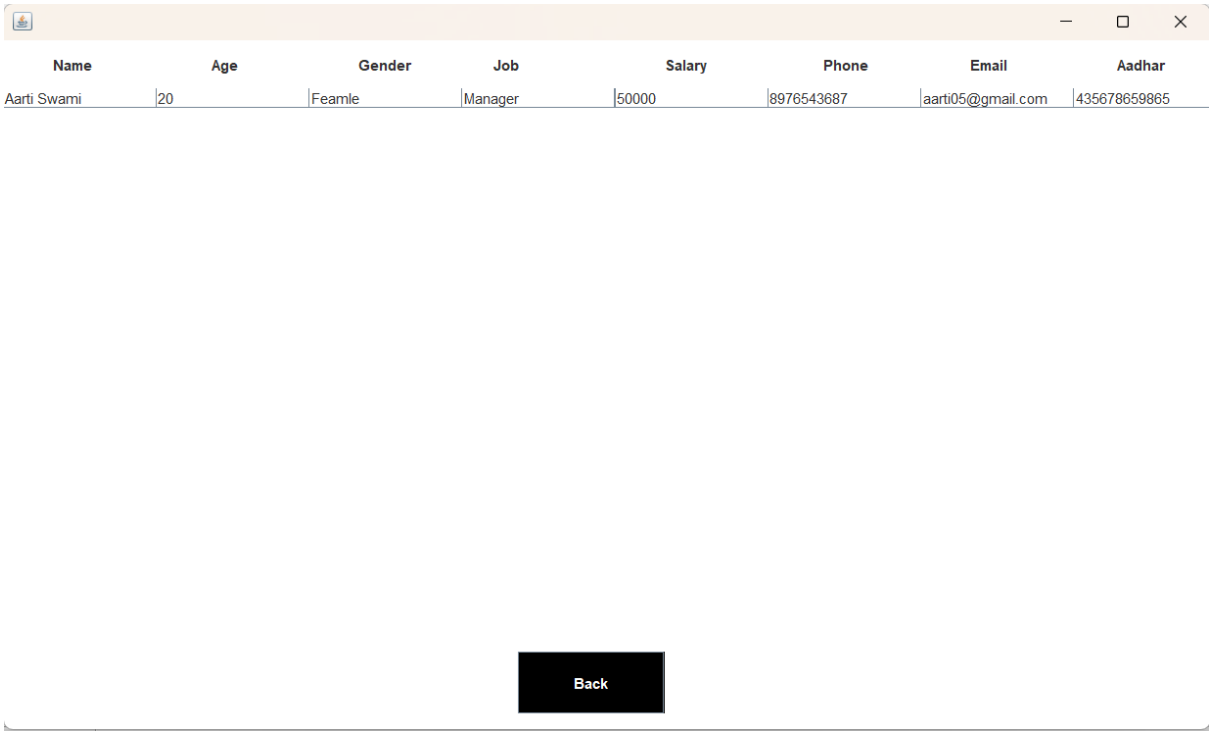
10.CUSTOMER INFO –



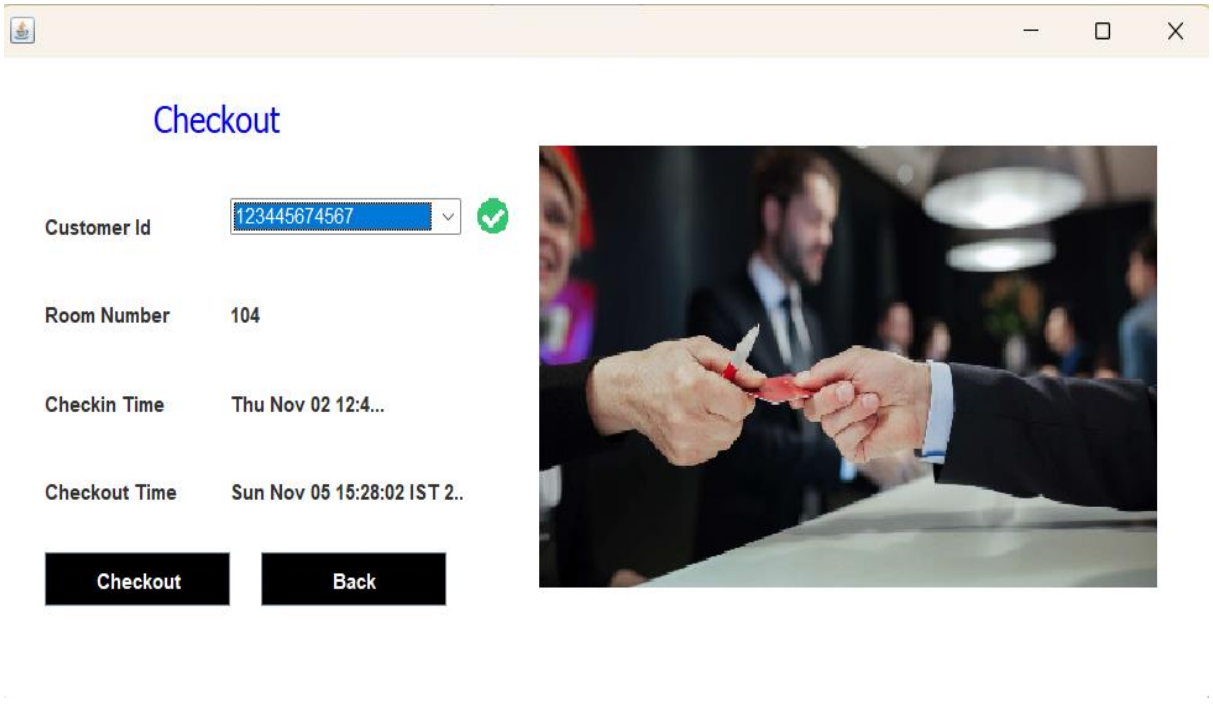
ocument Type	Number	Name	Gender	Country	Room Number	Checkin time	Deposit
dhar card	123456781234	Swaraj Yadav	MALE	India	102	Sun Jul 30 16:09:33 IS..	3600
dhar card	123445674567	rfr4gt1r5gttbhytnhy	MALE	india	104	Thu Nov 02 12:42:25 I...	2000

Back

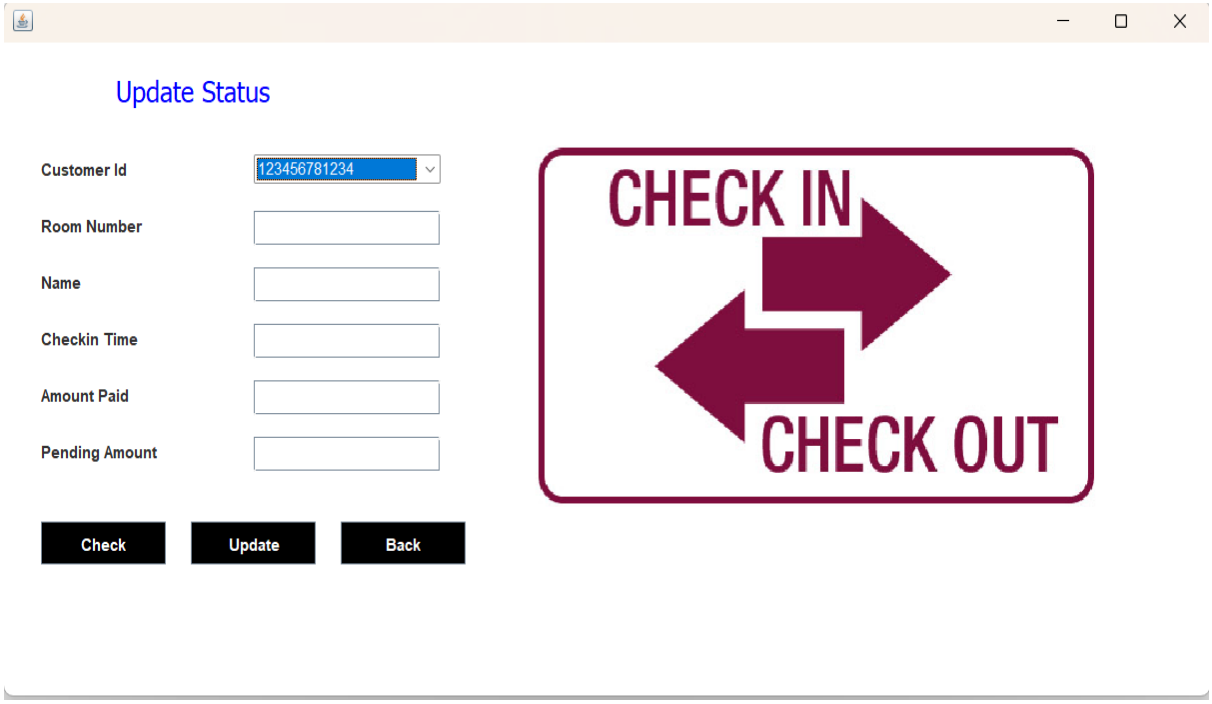
11.MANAGER INFO –



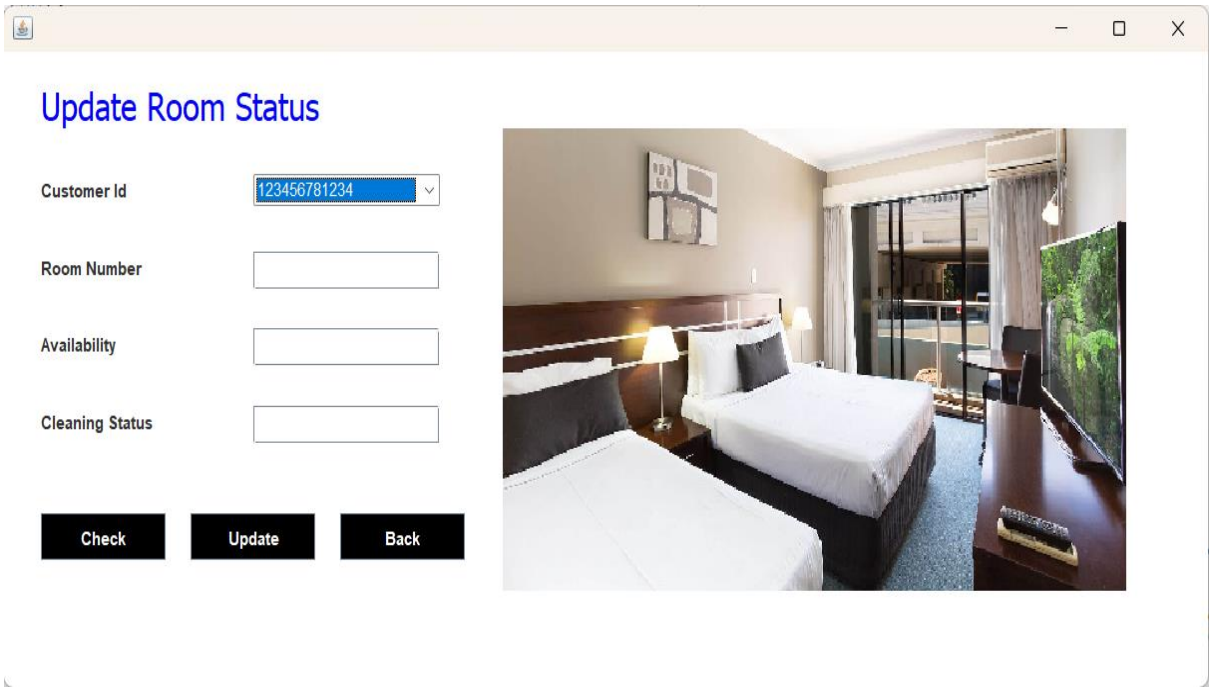
12.CHECKOUT –



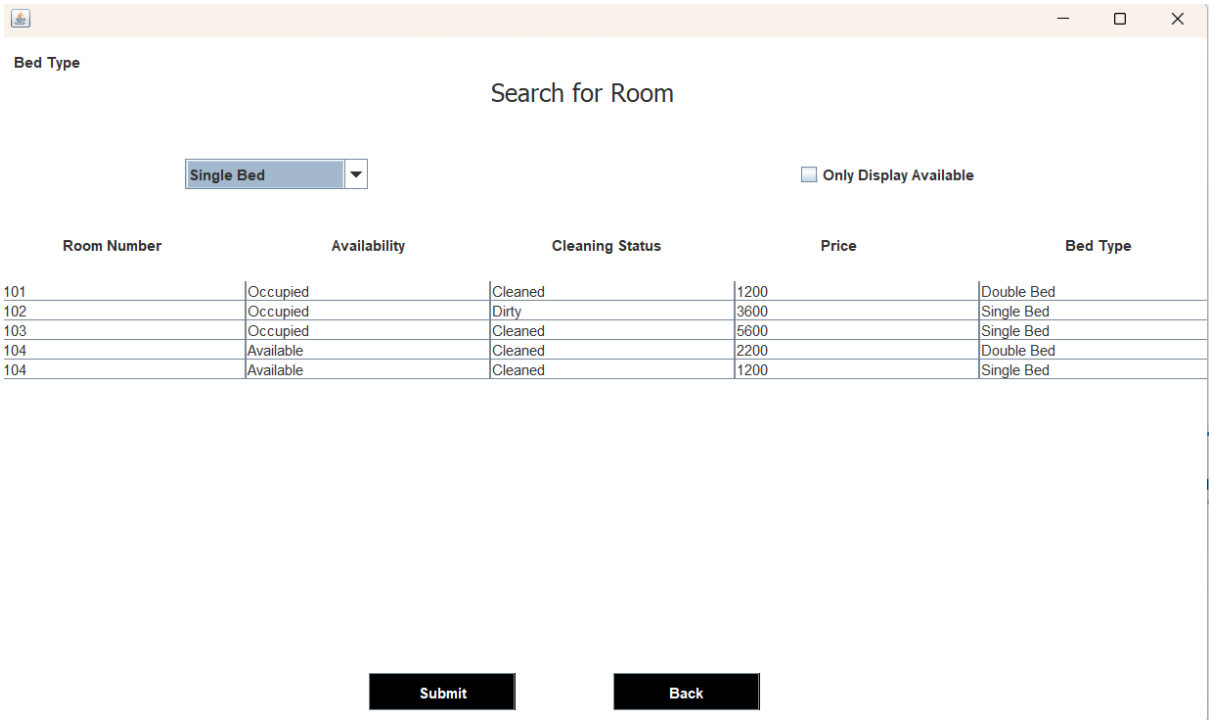
13.UPDATE STATUS –



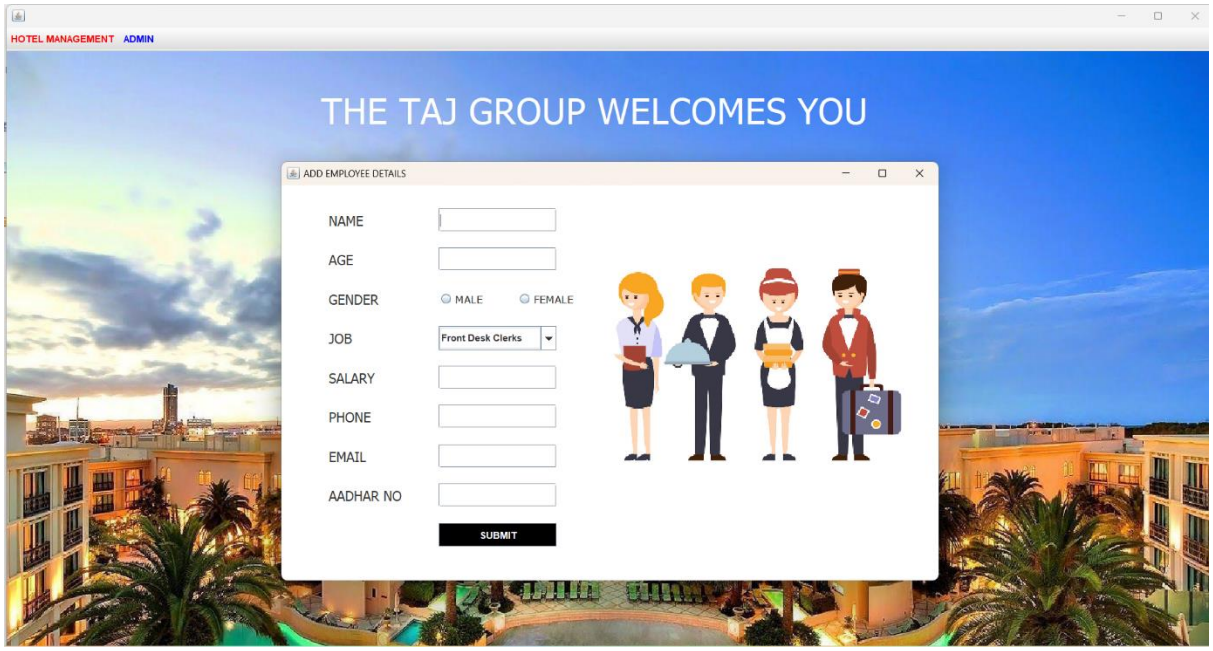
14.UPDATE ROOM STATUS -



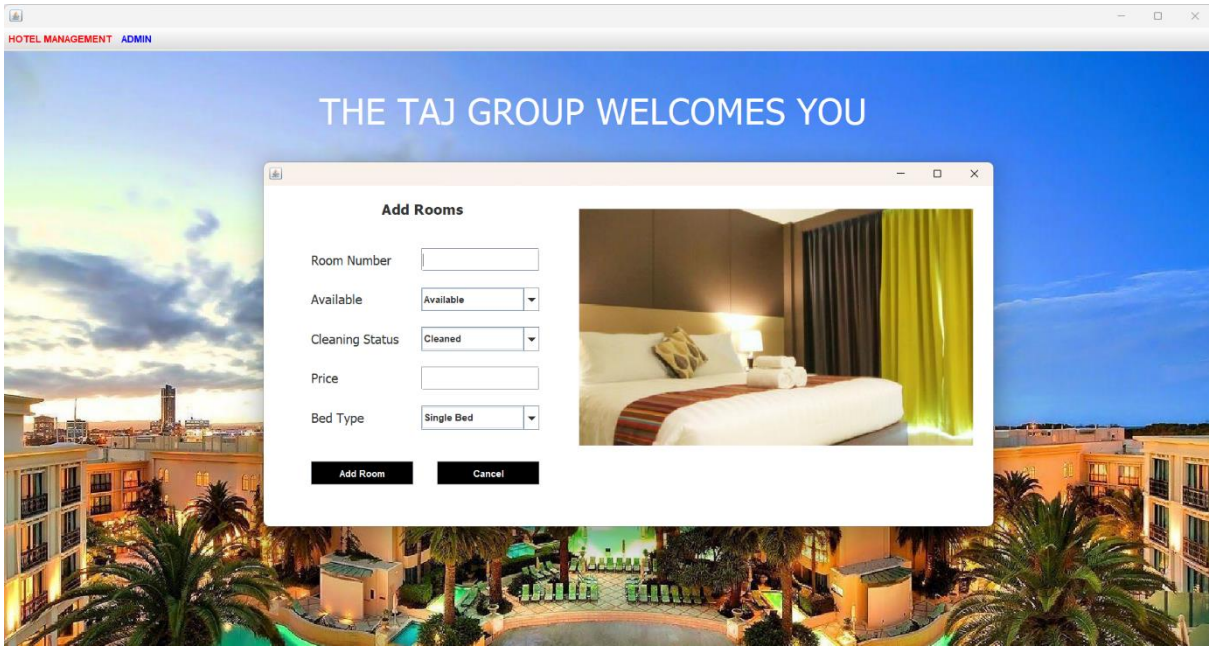
15.SEARCH ROOM –



16.ADD EMPLOYEES –



17.ADD ROOMS –


HOTEL MANAGEMENT ADMIN
THE TAJ GROUP WELCOMES YOU
Add Rooms
Room Number
Available
Available
Cleaning Status
Cleaned
Price
Bed Type
Single Bed
Add Room
Cancel

5.Conclusion

In this project we have tried my best to make user friendly software. This software can be handled by any person who has little bit of idea of computers. In this software we have tried to meet most of the requirements of the present hotel management system including maintaining details of customers, rooms and employees . We also keep provision to update the details of customers, rooms and employees. In my effort we have tried to make my software all the more user friendly but there may some features which we would like to include in my continuous attempts.

6.Future Scope

1. **Integrated Technology Solutions:**
    - The integration of various technologies such as artificial intelligence (AI), machine learning (ML), and the Internet of Things (IoT) will play a crucial role. AI can be used for personalized guest experiences, chatbots for customer service, and predictive analytics for demand forecasting.

2. **Mobile Applications:**
    - Mobile apps will continue to be a focal point for hotel management. Guests are increasingly relying on mobile devices for bookings, check-ins, and accessing hotel services. Future systems might include features like mobile room keys, mobile check-out, and real-time communication with hotel staff.

3. **Contactless Technology:**
    - The COVID-19 pandemic has accelerated the adoption of contactless technology in the hospitality industry. Future hotel management systems may further integrate touchless check-ins, keyless entry, and mobile payments to enhance the overall guest experience.

4. **Blockchain Technology:**
    - Blockchain can enhance security and transparency in hotel transactions. It can be utilized for secure and tamper-proof recording of guest information, reservations, and financial transactions. This could

improve data integrity and build trust between guests and hotels.

5. **Green and Sustainable Practices:**
    - With a growing emphasis on sustainability, hotel management systems may incorporate features to monitor and optimize energy consumption, waste management, and other eco-friendly practices. This aligns with the increasing demand for environmentally conscious travel.

6. **Cybersecurity:**
    - As hotel management systems become more interconnected, ensuring robust cybersecurity measures will be critical. Protecting guest data, financial transactions, and the overall system from cyber threats will be a top priority.