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AMRAVATI**

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**SIPNA COLLEGE OF ENGINEERING & TECHNOLOGY,  
AMRAVATI.**

Department of Computer Science and Engineering

Academic Year : 2023-2024

Semester: Fifth

A PROJECT REPORT ON

**HOTEL MANAGEMENT SYSTEM**

Submitted for

**DATABASE MANAGEMENT SYSTEM LAB**

Submitted in

**November 2023**

Under The Guidance Of

**Prof. H. Vyawhare**

**SIPNA COLLEGE OF ENGINEERING & TECHNOLOGY,  
AMRAVATI**

**CERTIFICATE**

This is to certify that this mini project report entitled

**“HOTEL MANAGEMENT SYSTEM”**

has been completed by the following students in the partial fulfillment of project work of the fifth semester, Department of Computer Science and Engineering, During the Academic Session of 2023-2024. This is the record of their work under my guidance and to my immense satisfaction.

Guided by:-  
Prof. H. Vyawhare

HOD:-  
V. K. Shandilya  
(Dept. Of Computer Science and  
Engineering.)

## ACKNOWLEDGEMENT

We take this opportunity to express our deep sense of gratitude and heartfelt thanks to our project guide **Prof. H. Vyawhare** for her invaluable guidance, inspiration and encouragement. It is because of her that we could synchronize our efforts. We also express our sincere thanks to our Head of Department **Dr. V.K. Shandilya** and Principal **Dr. Sanjay M. Kherde** for their tremendous support, encouragement and invaluable guidance throughout our project. We shall be failing in our duties until and unless we express our sincere thanks to all the faculty members, both teaching and non-teaching Staff, and our friends who have directly or indirectly contributed of our project work.

Group members:

1. Jagrut Thakare
2. Ankit Raut
3. Sarang Khode

SIPNA C.O.E.T., Amravati.

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## **Abstract**

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 solution for hotel to manage most there work using computerized process. 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.

## **Introduction**

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. The hotel manager is a very busy person and does not have the time to sit and manage

the entire activities manually on paper. This application gives him 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 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 include 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.

## **Software Requirements**

The technology selected for implementing Employee Database Management System is PHP,MySQL. Apache is used as the HTTP server. The Development was done in Visual Studio Code.

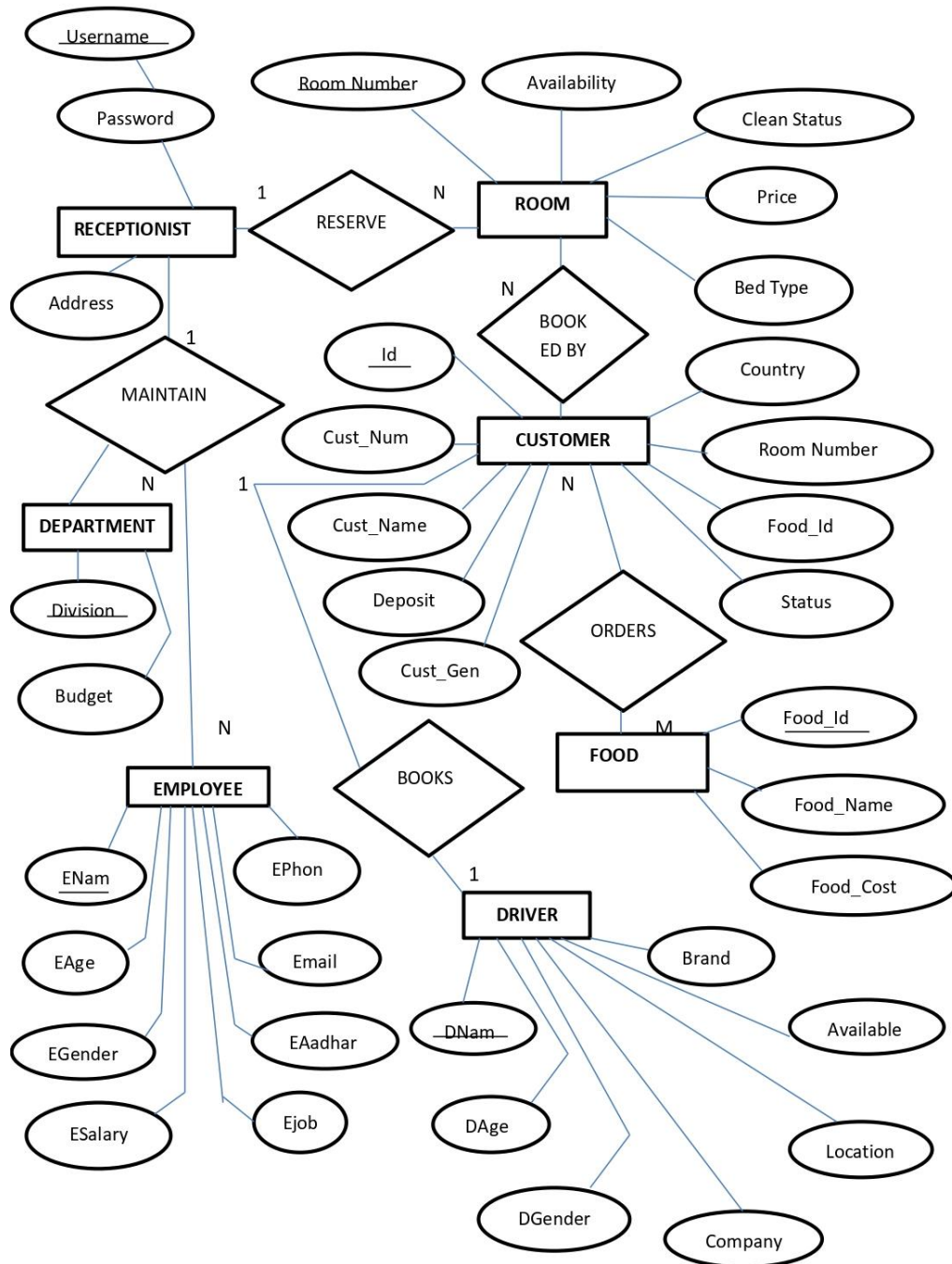
### Frontend Technologies :-

- 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.

### Backend Technologies :-

- **MYSQL :-** 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. A relational database organizes data into one or more data tables in which data types may be related to each other; these relations help structure the data.

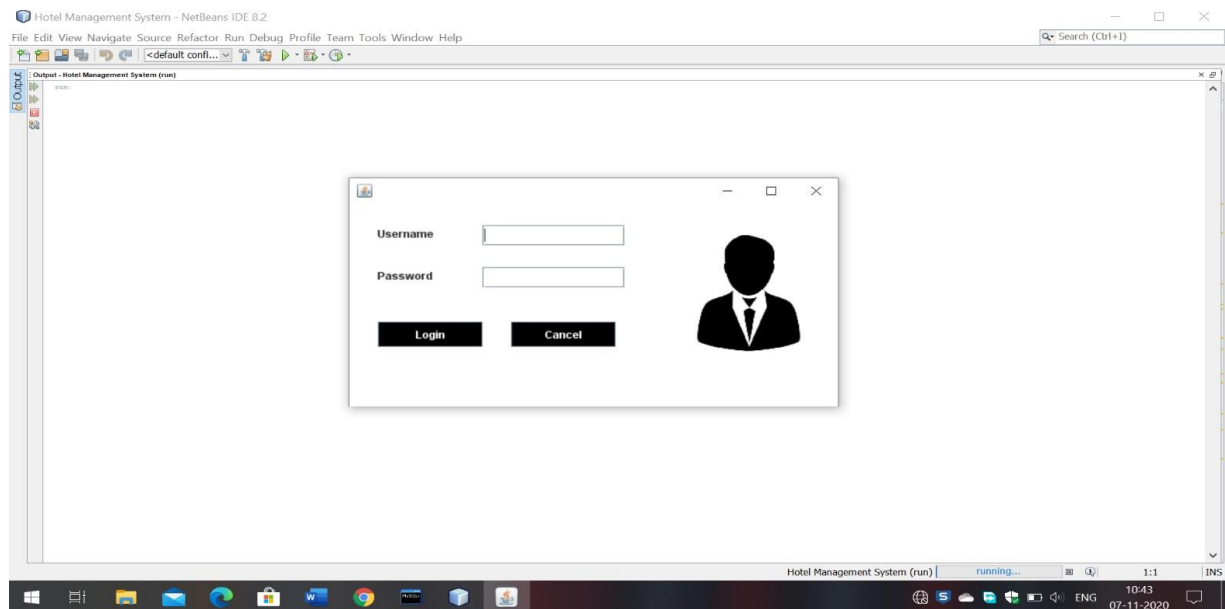
## E-R Diagram



## 1. Start Screen

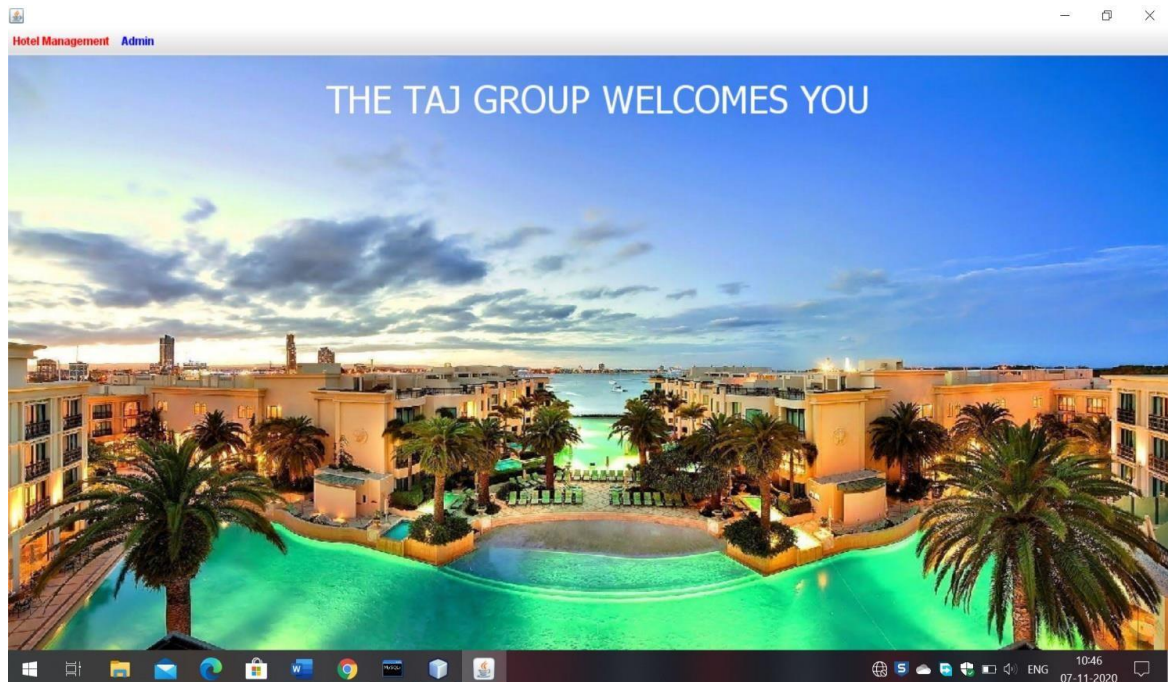


## 2. Login Page

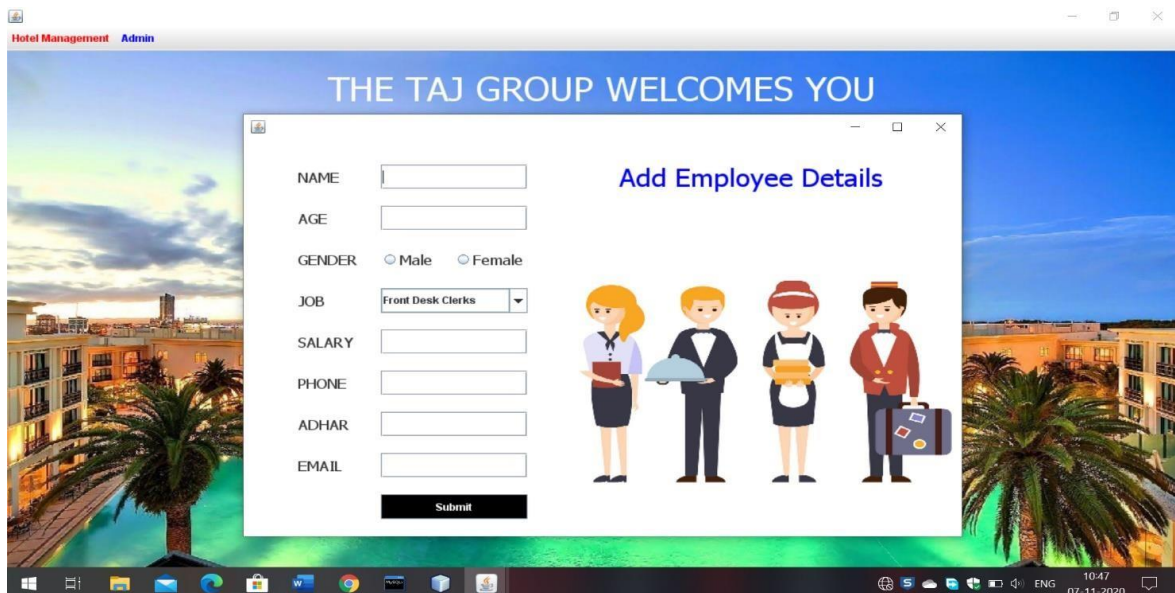




### 3.Dash Board Page



### 4.Add Employee



## 5.Add Rooms

Hotel Management Admin

THE TAJ GROUP WELCOMES YOU

### Add Rooms


Room Number

Available

Cleaning Status

Price

Bed Type



10:50 07-11-2020

## 6.Add Driver

Hotel Management Admin

THE TAJ GROUP WELCOMES YOU

### Add Driver

Name

Age


Gender ☐ Male ☐ Female

Car Company

Car Model

Available

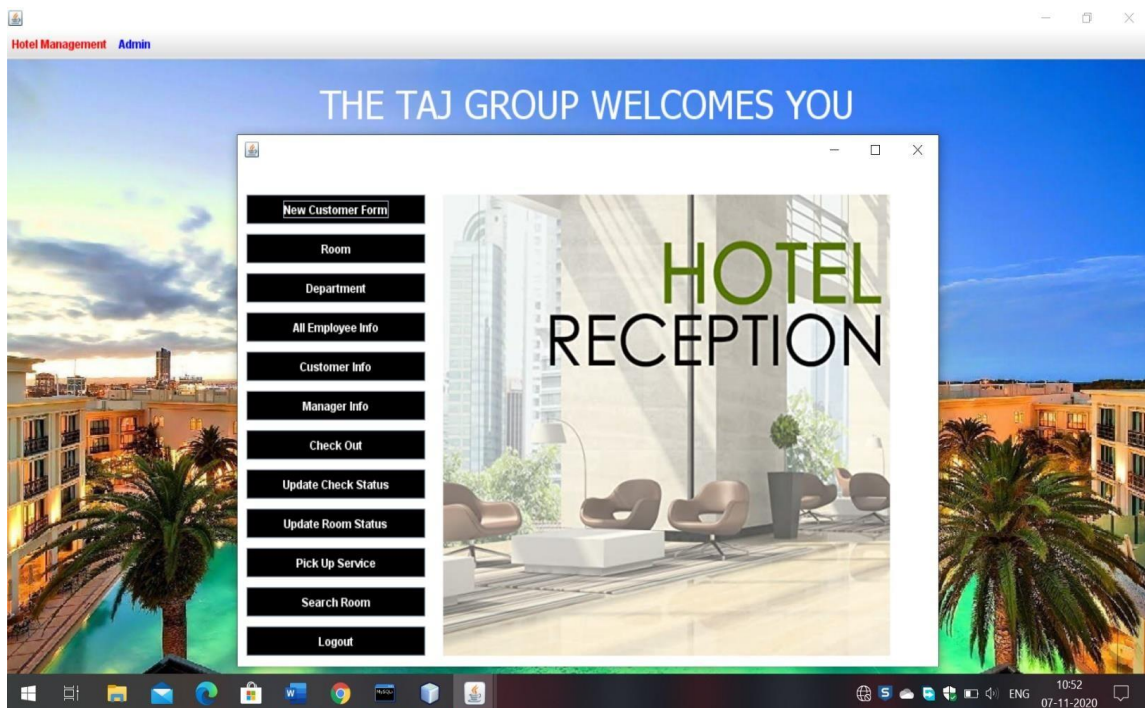
Location



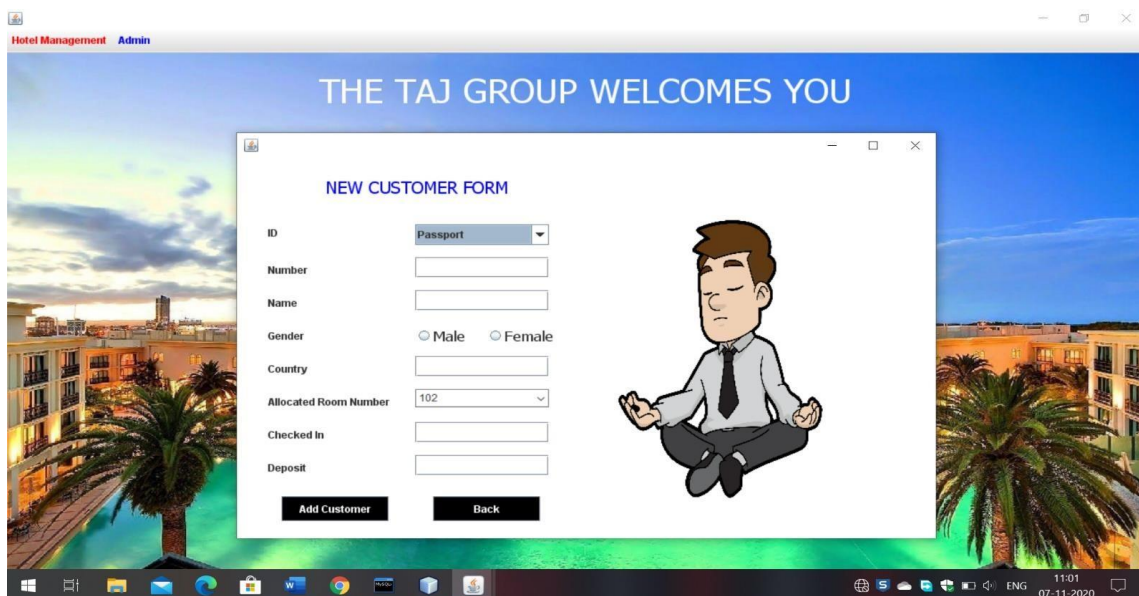
10:51 07-11-2020



## 7.Reception



## 8.Add new Customer



## 9.Room Details

The screenshot displays a web application titled "Hotel Management Admin". The main header reads "THE TAJ GROUP WELCOMES YOU". A central window shows a table of room details and a photograph of a hotel room.

Room Number	Availability	Status	Price	Bed Type
101	Available	Clean	30000	Single Bed
102	Available	Clean	50000	Double Bed
103	Occupied	Clean	30000	Single Bed
104	Occupied	Clean	50000	Double Bed
105	Available	Clean	30000	Single Bed
106	Available	Clean	32000	Single Bed

Below the table are two buttons: "Load Data" and "Back". The background of the interface features a scenic view of a hotel building at night.

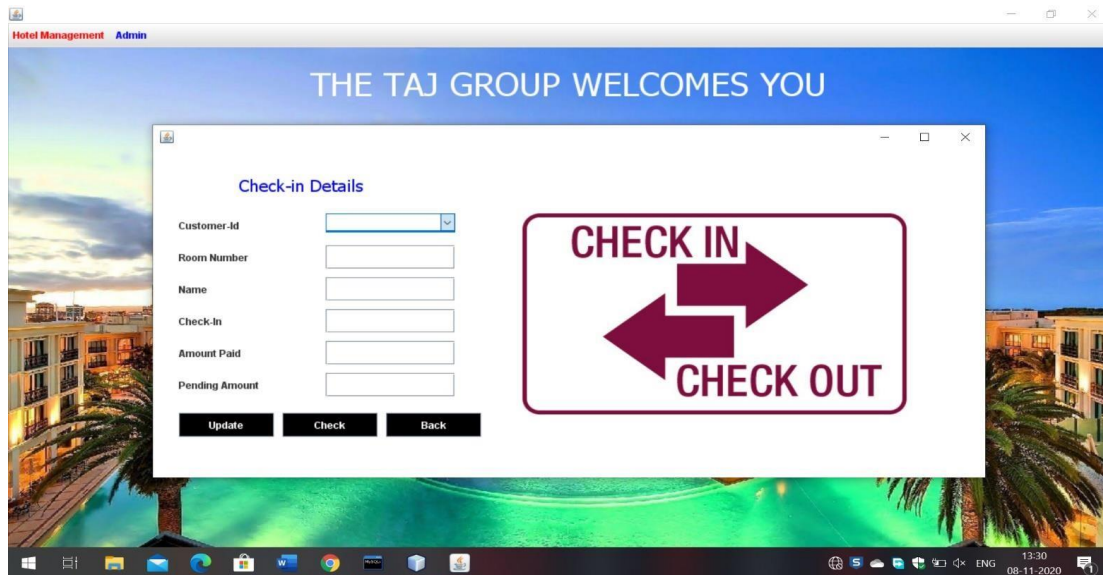
## 10.Employee Details

The screenshot displays the same web application as above, but with a table of employee details instead of room details.

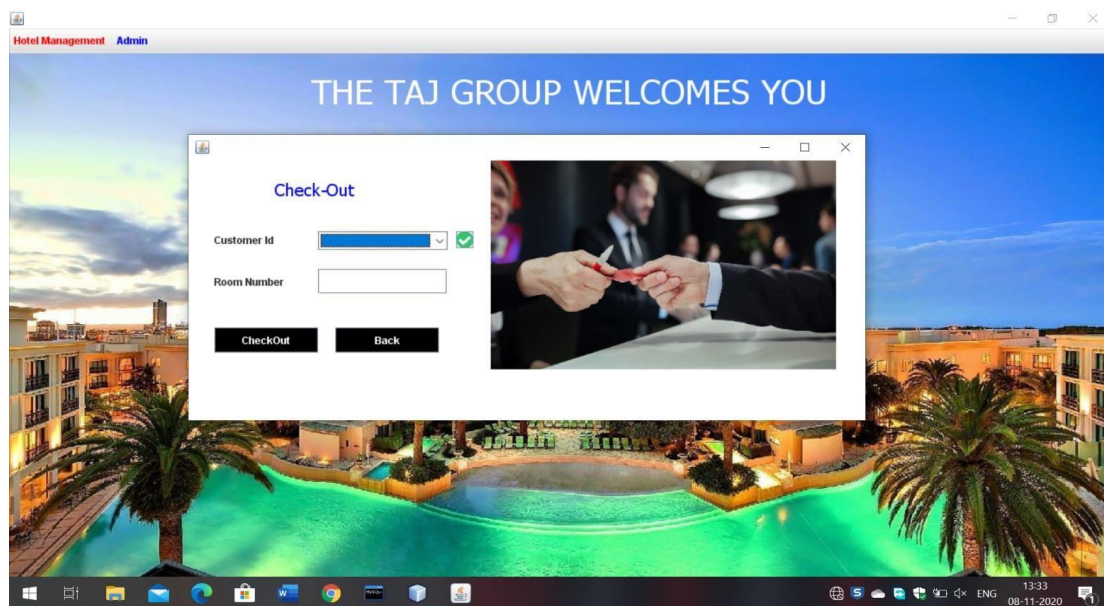
Name	Age	Gender	Department	Salary	Phone	Aadhar	Email
Aakash Jain	23	Male	Waiter/Waitress	12000	6125634289	509742312589	aakash@gmail.com
Vansh Soni	34	Male	Housekeeping	12000	9876543210	4222267891234	vansh@gmail.com
Radha Singh	28	Female	Waiter/Waitress	12000	9567346123	341267985409	radha@gmail.com
Parth Mishra	30	Male	Manager	30000	9341278645	965412378901	parth@gmail.com
Jay Bhatt	34	Male	Room Service	17000	9342167854	426189034567	jay@gmail.com

Below the table are two buttons: "Load Data" and "Back". The background of the interface features a scenic view of a hotel building at night.

## 11. Check In Details



## 12. Check out



## Conclusion

In this project I 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 I have tried to meet most of the requirements of the present hotel management system including maintaining details of customers, rooms, employees and drivers. I also keep provision to update the details of customers, rooms and employees. In my effort I have tried to make my software all the more user friendly but there may some features which I would like to include in my continuous attempts.