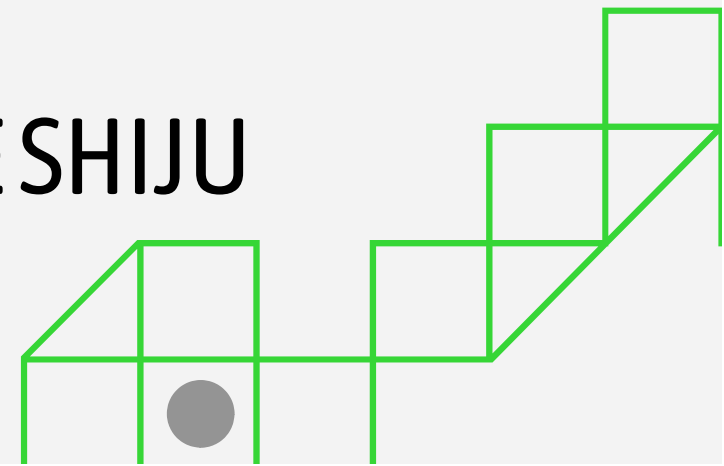# DATABASE MANAGEMENT PROJECT ON HOTEL MANAGEMENT
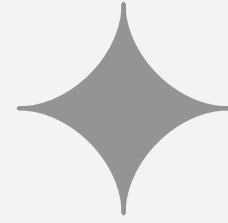
5.ABHINAV REJI

7.ABIN JACOB

18.ALDRIN VARGHESE SHIJU
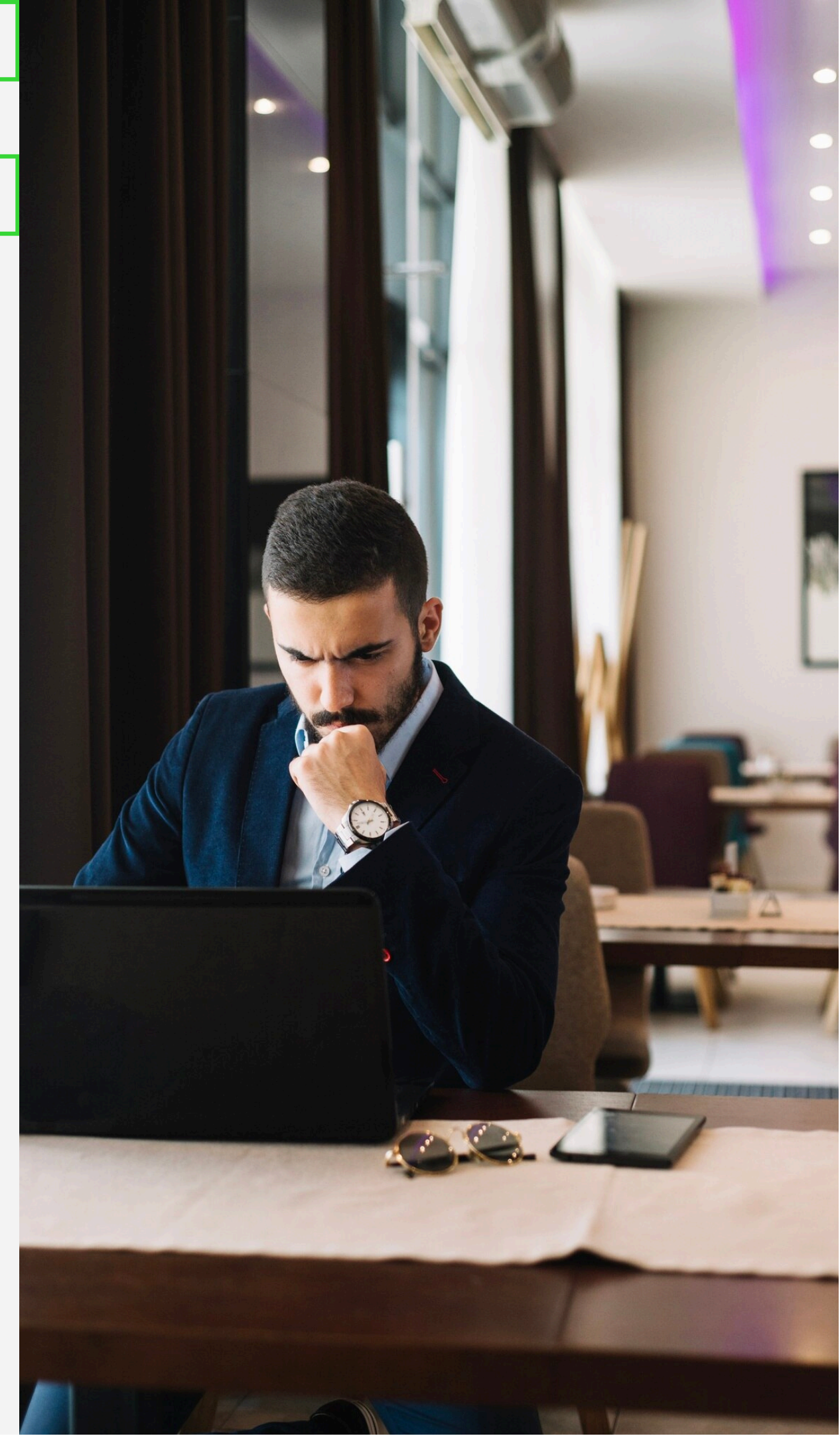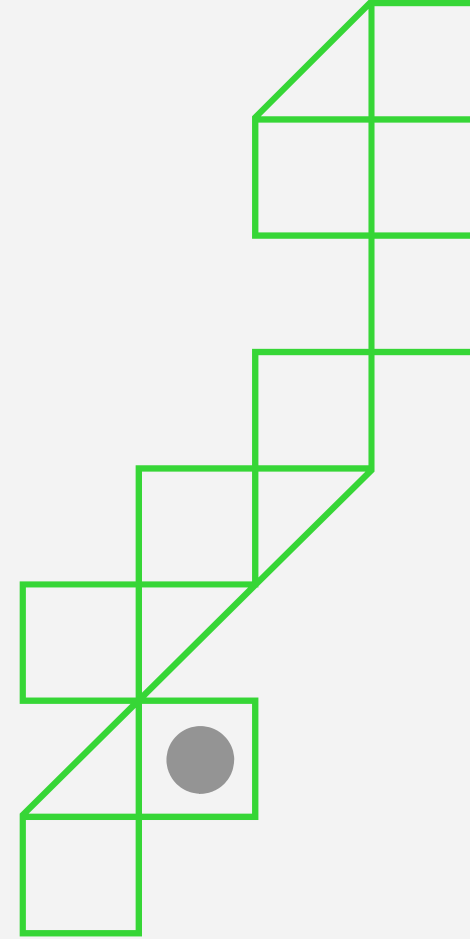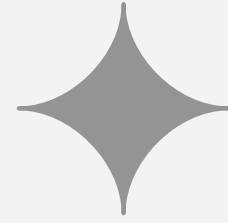
51.BASIL JIBY

## Current Challenges in Hotel Operations

Hotels face numerous **challenges** such as **overbooking**, inefficient **staff allocation**, and poor **data management**. These issues can lead to decreased guest satisfaction and revenue loss. Identifying these challenges is the first step towards effective solutions through database management.

Introduction to Database Management

Database Management is crucial for optimizing hotel operations. It enables efficient handling of **reservations**, **guest information**. This presentation will explore the role of a comprehensive database in enhancing service quality and operational efficiency in the hospitality industry.
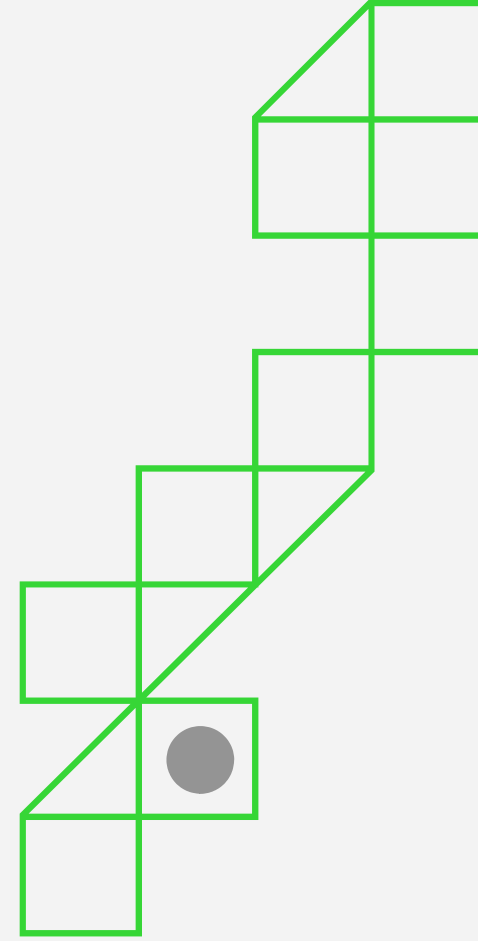
LANGUAGES USED

- HTML
- CSS
- JAVASCRIPT
- SQL

HOST

INFINITYFREE.COM

TABLES

CREATE TABLE Rooms (id INT AUTO_INCREMENT PRIMARY KEY, category VARCHAR(20) NOT NULL, price DECIMAL(10, 2) NOT NULL, availability BOOLEAN NOT NULL DEFAULT TRUE);

CREATE TABLE Managers (id INT PRIMARY KEY, username VARCHAR(20) NOT NULL UNIQUE, password VARCHAR(10) NOT NULL, FOREIGN KEY (id) REFERENCES Employees(id) ON DELETE CASCADE);
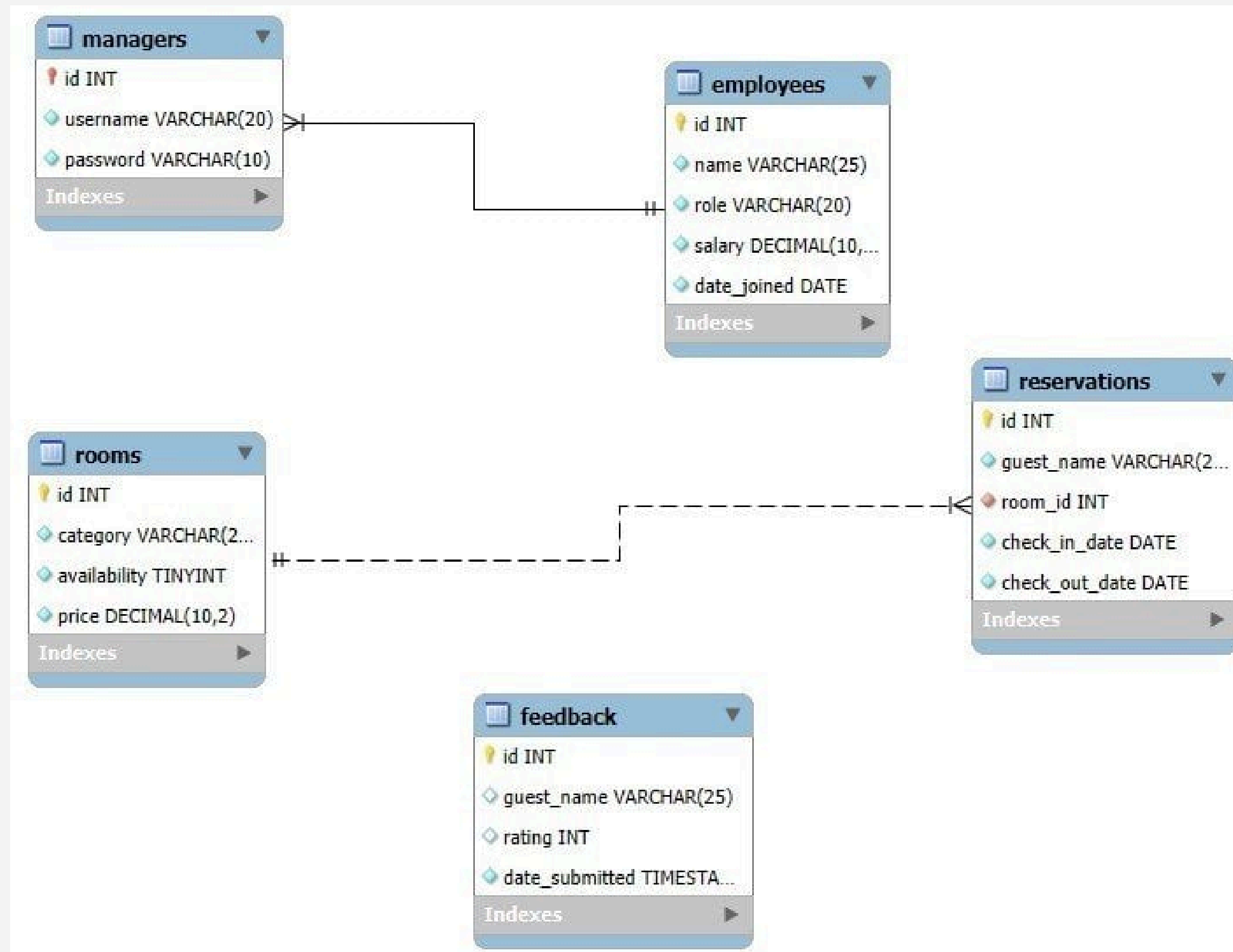
CREATE TABLE Reservations (id INT AUTO_INCREMENT PRIMARY KEY, room_id INT NOT NULL, check_in_date DATE NOT NULL, check_out_date DATE NOT NULL, guest_name VARCHAR(25), FOREIGN KEY (room_id) REFERENCES Rooms(id) ON DELETE CASCADE);
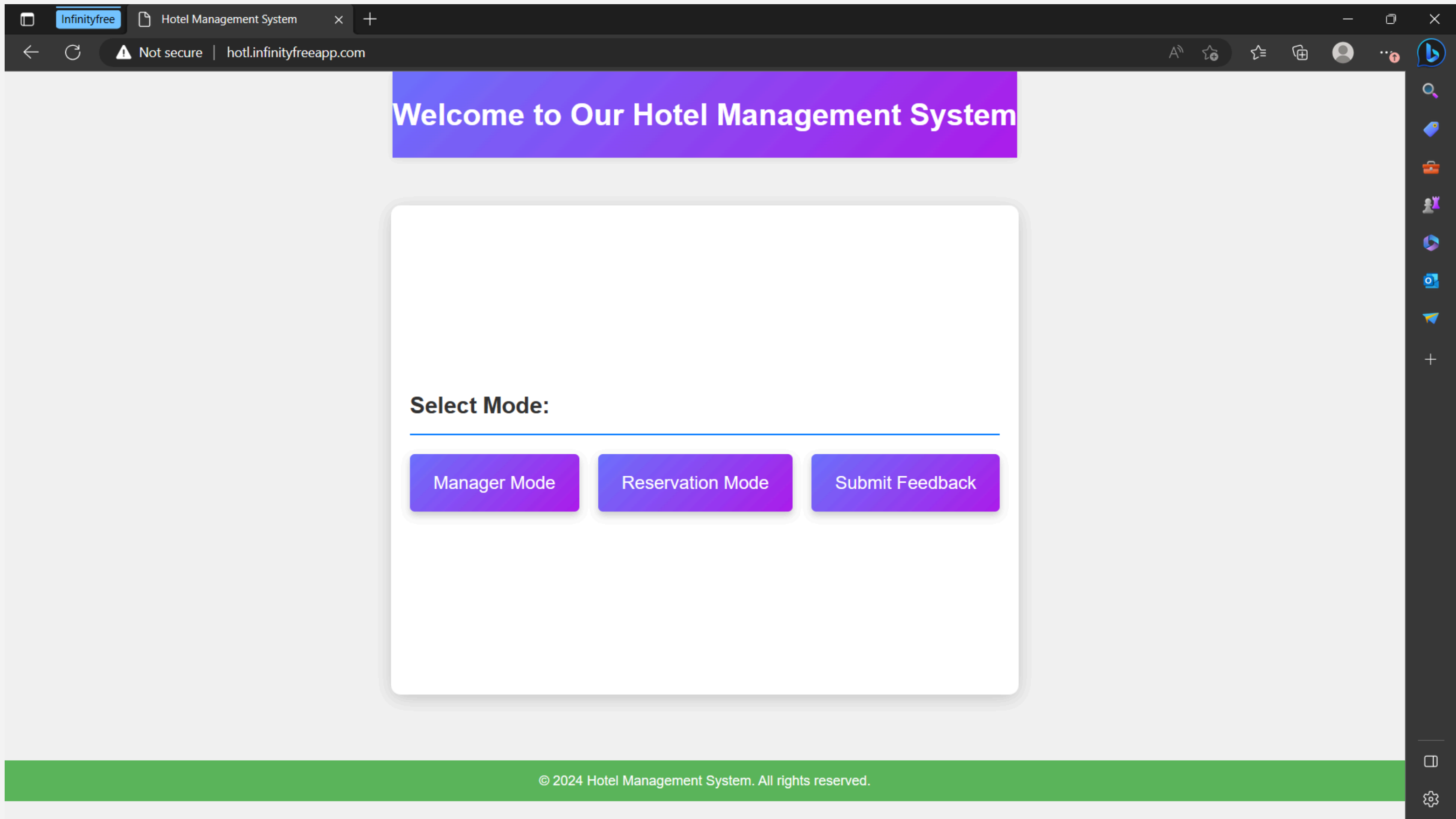
CREATE TABLE Feedback (id INT NOT NULL AUTO_INCREMENT, guest_name VARCHAR(25), rating INT, date_submitted TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP, PRIMARY KEY (id), CHECK (rating >= 1 AND rating <= 5));

CREATE TABLE Employees (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(25) NOT NULL, role VARCHAR(20) NOT NULL, salary DECIMAL(10, 2) NOT NULL, date_joined DATE NOT NULL);

ER DIAGRAM

Welcome to Our Hotel Management System

Select Mode:

Manager Mode | Reservation Mode | Submit Feedback

Room Reservation

Make a Reservation

Room Type:

Single Room

Check-in Date:

dd - mm - yyyy

Check-out Date:

dd - mm - yyyy

Guest Name:

Check Availability and Book

Home

Not secure | hotl.infinityfreeapp.com/manager.html

Manager Login

username:

password:

Login

Manager Dashboard

Welcome, Manager

Add Employee	Delete Employee	View Reservations	Logout

Add New Employee

Employee Name:

Role:

Salary:

Add Employee

Back to Dashboard

Delete Employee

Remove Employee

Employee ID:

Delete Employee

View Reservations

Room Category	Check-in Date	Check-out Date	Guest Name
Deluxe Room	2024-11-05	2024-11-07	james
Deluxe Room	2024-11-05	2024-11-07	ann
Deluxe Room	2024-11-05	2024-11-07	Alexander
Single Room	2024-11-05	2024-11-07	Abhinav
Single Room	2024-11-05	2024-11-07	Basil

WEBPAGE

Welcome to Our Hotel Management System

Submit Your Feedback

We value your feedback!

Your Name:

Rating (1-5):

| 1 |

Submit Feedback

Home

Thanks!