# CS257 DATABASE AND INFORMATION SYSTEMS

## PROJECT REPORT



T. RAM PREETHAM
VIVEK BHOJWANI

210001070 210001079



# Problem Statement

The main objective is to create a database management system for a hotel. We need an organised management system which can easily manage all operations and data of hotel. The following areas of the hotel database will be managed like customer details and their stay details, storing customer details for future reference, accessing staff details, etc.

## Solution

We made a Hotel database management system to simplify front desk office tasks, enhance management functions, and improve the experience of customers and guest reservations. With this software, a hotel can improve efficiency and effectively manage operations such as check-ins, check out and confirmation of reservations



# Tech Stacks

EJS
CSS
JavaScript
Bootstrap

Frontend

NodeJS ExpressJS

**Backend** 

MySQL

Database

## Features

Features our solution provide are:

Users will be able to browse the site without signing in.

They will be able to see vacancies available and various services provided by the hotel.

To book a room they have to login or sign up.

If user id is not available, action will be aborted

They will be able to book any available room according to their convenience.

If user id is not available, action will be aborted

An option will be given for cancellation aided with authentication

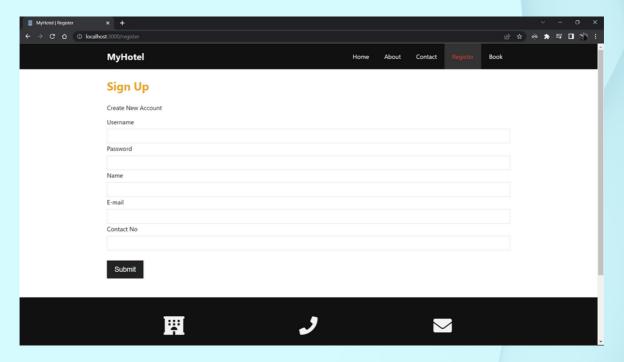
After booking, customers can print/download their confirmation receipt.

Cancellation and booking is aided by authentication.

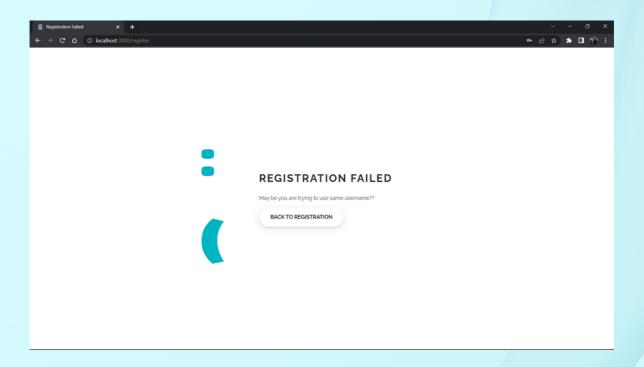
TFor digital assistance you can contact the hotel through the site.

# Features Glimpse

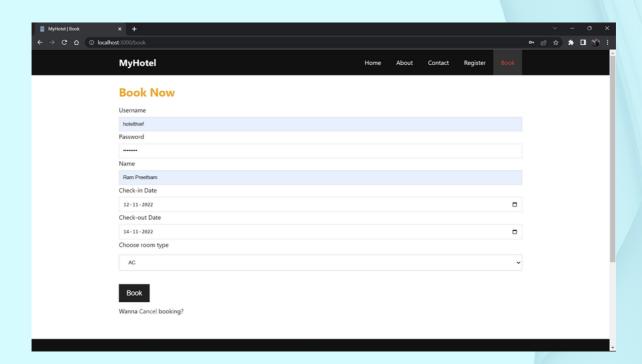
#### Registration



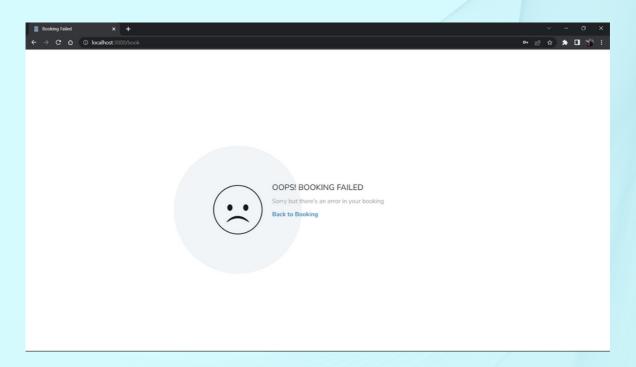
#### Unique username constraint



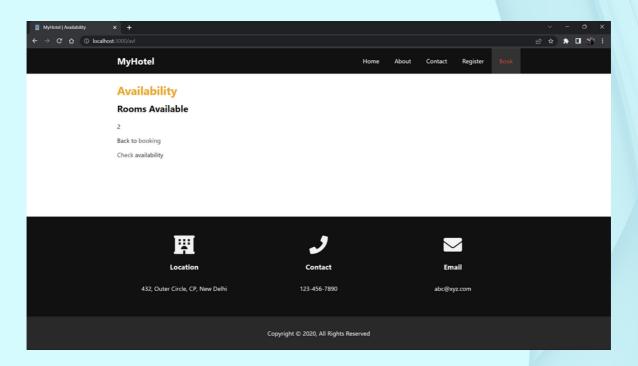
#### **Book Rooms**

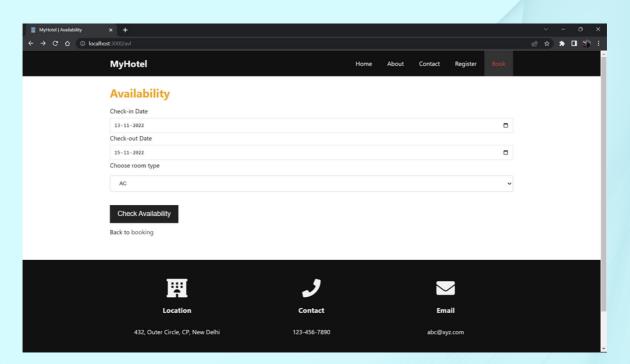


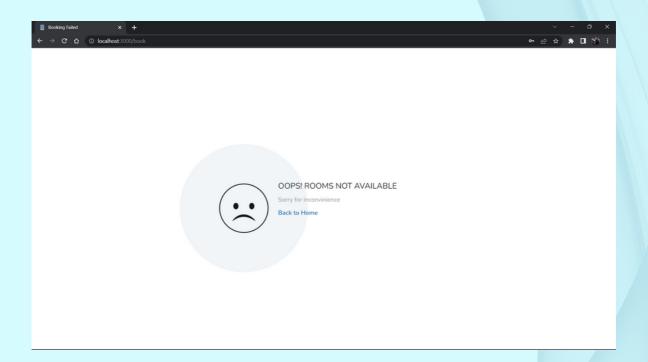
### Authentication while booking



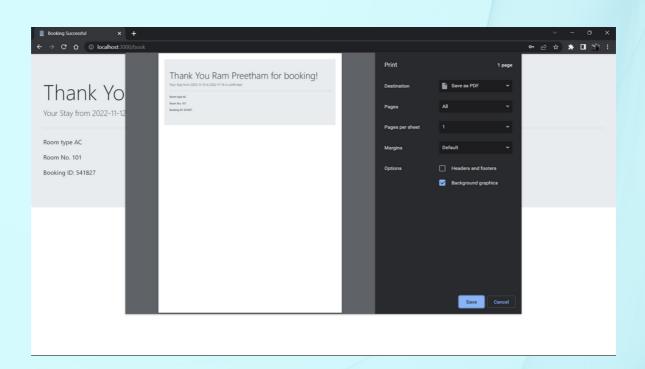
### Check Availability of rooms



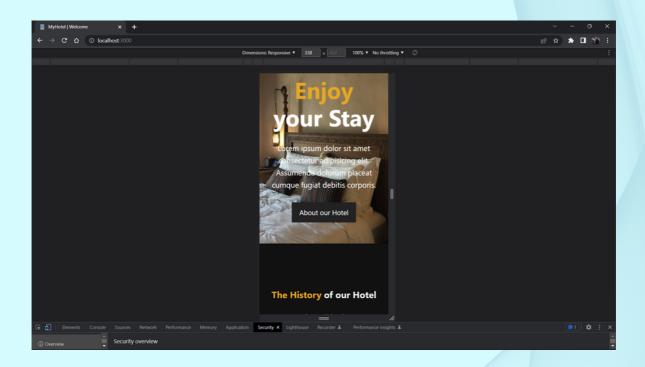




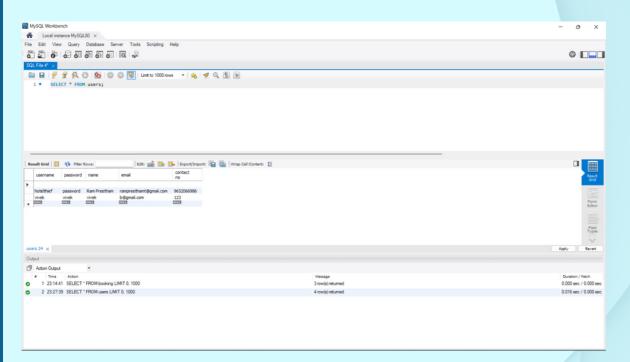
### **Print Confirmation**

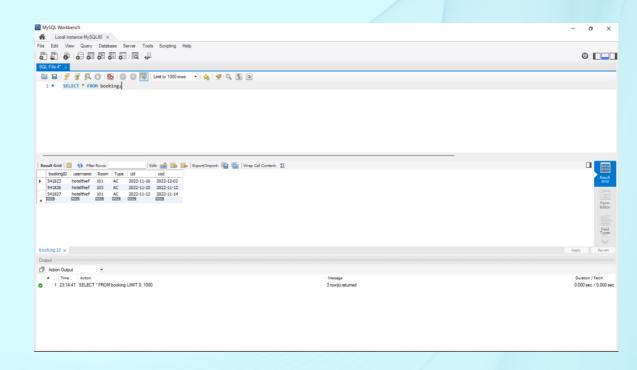


### Responsive Design



#### Database updates







# Queries

### **Booking**

#### Cancellation

```
app.post("/cancel",(req,res) => {
   const bookingid=req.body.bookingid;
   const password=req.body.password;
    connection.query(
        'SELECT username FROM booking WHERE bookingID=(?)',
        [bookingid],
        (err,results) => {
            if(err) throw err;
            var un=results[0].username;
            connection.query(
                'SELECT password FROM users where username=(?)',
                (err,results) => {
                    if(err) throw err;
                    var pwd=results[0].password;
                    if(password==pwd) {
                        connection.query(
                            'DELETE FROM booking WHERE bookingID=(?)',
                            bookingid,
                            res.redirect("/")
```

### **Availability**

# FUTURE UPDATES

# MyHotel

- Better user interface and user experience.
- Adding more filtering and searching options.
- Adding a payment gateway.
- Adding google map api to access user location for pickup services.
- Holiday.
   Management for Staff.
- Sending confirmation using e-mail

#### Conclusion

To conclude the description about the project: This project,

developed using nodejs and MySql, is based on a very easyto-use

booking system which is made after the analysis of the existing system and is flexible for future enhancement. This project was made to handle various room booking activities in the hotel and avoid the problems which occur when carried manually. Identification of the drawbacks of the existing system and improving them in our current project was the main objective of this project.