

Hotel Booking System

OCTOBER 17

Royal Blu Haven

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Executive Summary

The Hotel Booking Website aims to create a user-friendly and efficient online platform to browse, search and book hotels at user's convenience with best accommodation facilities and services. This online report gives a comprehensive overview of the project, its objectives, scope, features, methodology, technology stack and more.

The global field of travel and hospitality is evolving at an unprecedented pace. The advent of the digital age has fundamentally changed the way travelers research, select and book accommodation. In response to these changes and new trends, the Hotel Booking Website project tries to create a niche in this dynamic market.

In this era of convenience, our goal is simple yet profound: to develop a hotel booking website that offers travelers a user-friendly, efficient, and seamless experience, improving the way they communicate and make hotel accommodation decisions.

Introduction

The Hotel Booking Website project is aware of the growing demand for online hotel booking platforms and strives to offer an innovative solution to this demand. We recognize that travelers are increasingly relying on online platforms to find their ideal accommodation, and our project aims to transform this process into a more user-oriented and technologically advanced experience.

The hotel booking system enables customers to secure a bed in a hotel. Customers who wish to reserve a room in advance must complete a particular form on the hotel website, and all of the information is then entered into a system for managing hotel reservations. When a guest checks into a hotel or at the time of booking, payment can be made.

A customer can do so quickly and easily by using a credit card and hotel booking software. The client's electronic check serves as proof that the service has been paid for. They have various advantages over the reservation services they can acquire on arrival thanks to a hotel room booking system that is now taken for granted by the majority of customers.

The software/system used to reserve hotel rooms enables users to complete the activity quickly. They receive a confirmation from the hotel booking platform as soon as they submit the completed form on the hotel website. The client receives an electronic check if the services are paid for.

The services offered by a hotel are also included in the system of hotel accommodations. A customer may cancel a reservation using the hotel reservation software if their plans have changed. The dates for the time when it is possible to cancel a reservation without being charged a fee can be found on a hotel's website.

Project Objectives

The main objectives of the project are:

1. To create a user-friendly, responsive and intuitive hotel booking website.
2. To offer a wide selection of hotels, including room descriptions, pricing, and availability.
3. To provide users with secure payment options for booking.
4. To ensure seamless integration with third-party services (e.g., payment gateways, maps, and review services).
5. To implement a robust user management system, allowing users to create accounts, manage bookings and secure payments.

Scope and Requirements

The project's scope includes:

1. Admin registration and login functionality.
2. Hotel listing with detailed descriptions and photos.
3. Hotel search and filtering capabilities and availability options.
4. Booking and payment processing.
5. Booking History.
6. User reviews and ratings for hotels.
7. Integration with external APIs for maps and reviews.
8. Admin panel for managing hotels, users, and bookings.

Technology Stack

Our chosen technology stack for the project includes:

1. Front-end: HTML, CSS and JavaScript
2. Back-end: PHP
3. Database: MySQL
4. Server: Xampp

Database Schema

Our Hotel Booking System consist of a database with 3 tables in it.

```
Command Prompt - my x + v
mysql> show tables;
+-----+
| Tables_in_hotel_db |
+-----+
| admins              |
| bookings            |
| messages            |
+-----+
3 rows in set (0.00 sec)

mysql>
```

1. The admins table stores the details of the admins i.e the id, name and password

```
Command Prompt - my x + v
mysql> desc admins;
+-----+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | varchar(20) | NO   |     | NULL    |       |
| name  | varchar(20) | NO   |     | NULL    |       |
| password | varchar(50) | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.05 sec)

mysql>
```


2. The bookings table stores the information of the bookings made by the customers.

```
mysql> desc bookings;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| user_id    | varchar(20)   | NO   |     | NULL     |       |
| booking_id | varchar(20)   | NO   |     | NULL     |       |
| name       | varchar(50)   | NO   |     | NULL     |       |
| email      | varchar(50)   | NO   |     | NULL     |       |
| number     | varchar(10)   | NO   |     | NULL     |       |
| rooms      | int           | NO   |     | NULL     |       |
| check_in   | varchar(10)   | NO   |     | NULL     |       |
| check_out  | varchar(10)   | NO   |     | NULL     |       |
| adults     | int           | NO   |     | NULL     |       |
| childs     | int           | NO   |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

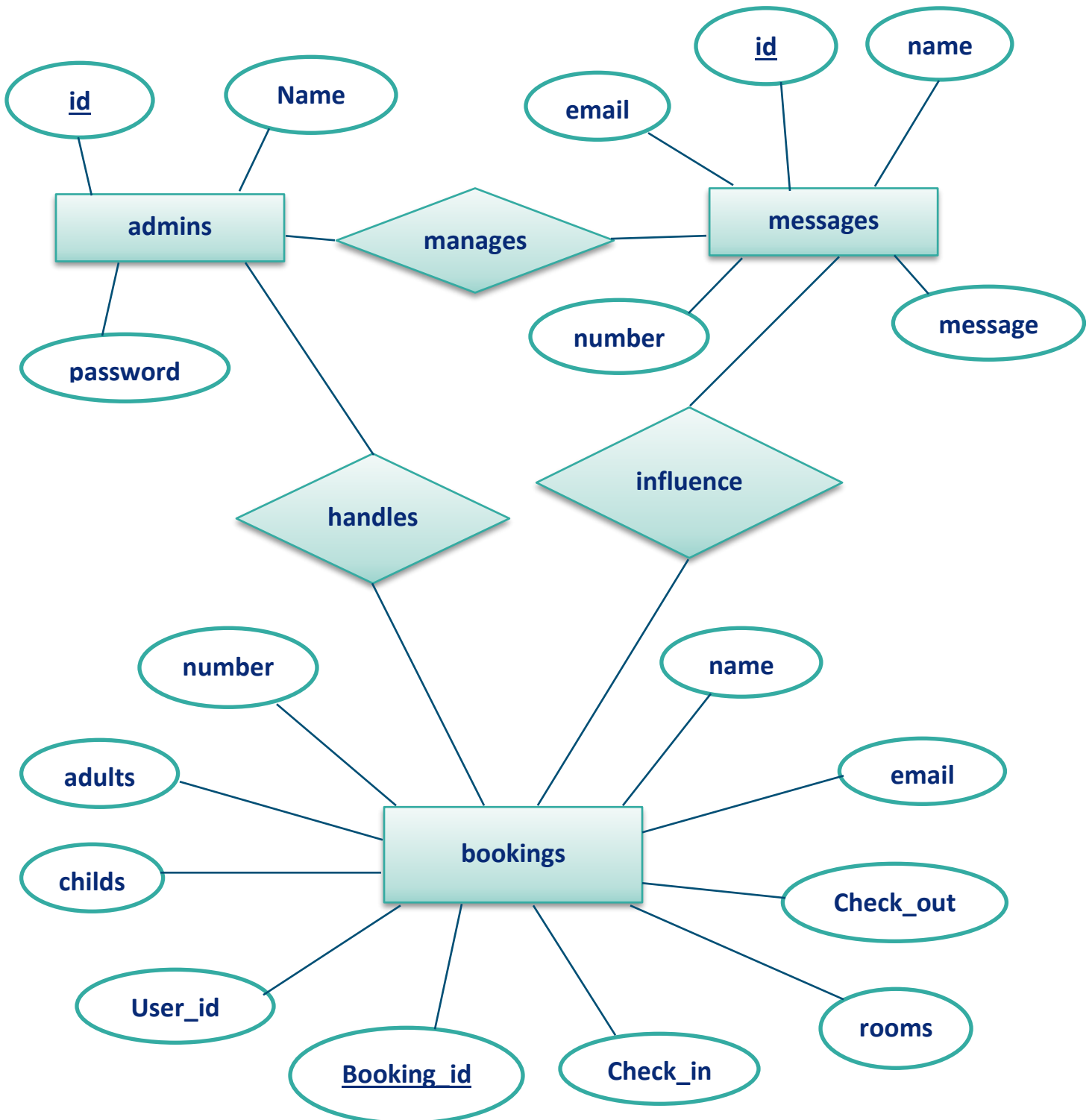
mysql> |
```

3. The messages tables stores the messages sent by the customers which can include feedbacks, complaints, reviews etc.

```
Command Prompt - my x + v
mysql> desc messages;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | varchar(20)   | NO   |     | NULL     |       |
| name       | varchar(50)   | NO   |     | NULL     |       |
| email      | varchar(50)   | NO   |     | NULL     |       |
| number     | varchar(10)   | NO   |     | NULL     |       |
| message    | varchar(1000) | NO   |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> |
```

ER Diagram

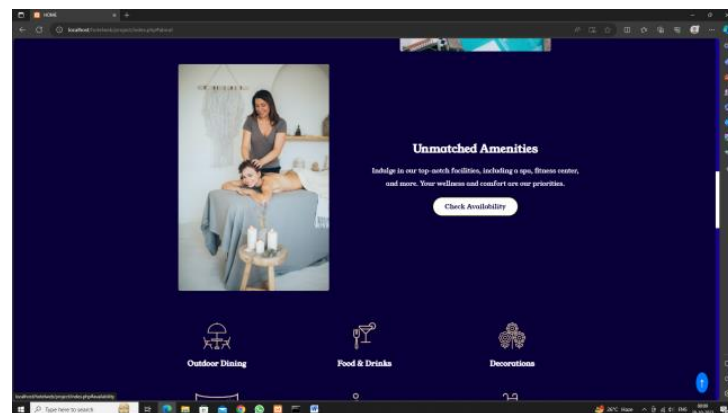
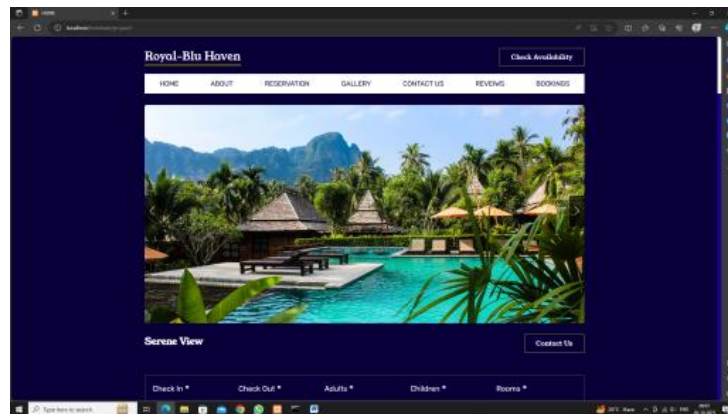


Key Features

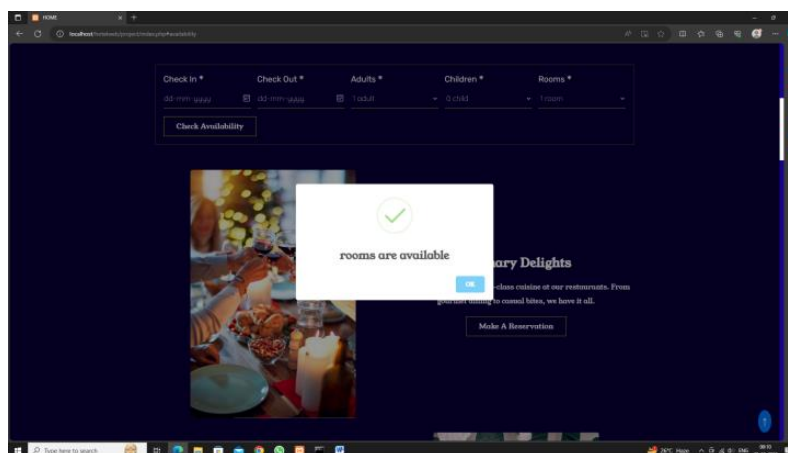
Our project implements the following features and functionalities :-

Customers

1. Our website is user-friendly and easy to use.



1. Users can check the availability of hotels



2. Booking of Hotels: Customers need to click the Reservation in the top bar of the home page or browse to the section manually where they have to enter their details and click Book Now button.

Make A Reservation

your name *
Aniket Paul

your email *
paulaniket@gmail.com

your number *
8475862233

rooms *
2 rooms

check in *
04-11-2023

check out *
04-11-2023

adults *
4 adults

Book Now

Make A Reservation

your name *
Aniket Paul

your email *
paulaniket@gmail.com

your number *
8475862233

rooms *
2 rooms

check in *
04-11-2023

check out *
04-11-2023

adults *
4 adults

Book Now

room booked successfully!

```
mysql> show tables;
+-----+
| Tables_in_hotel_db |
+-----+
| admins              |
| bookings             |
| messages             |
+-----+
3 rows in set (0.00 sec)

mysql> select * from bookings;
Empty set (0.00 sec)

mysql>
```

```
mysql> show tables;
+-----+
| Tables_in_hotel_db |
+-----+
| admins              |
| bookings             |
| messages             |
+-----+
3 rows in set (0.00 sec)

mysql> select * from bookings;
Empty set (0.00 sec)

mysql>
```

3. View Bookings

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HOME ABOUT RESERVATION GALLERY CONTACT US REVIEWS BOOKINGS

My Bookings

name	Aniket Paul
email	paulaniket@gmail.com
number	8475862233
check in	2023-11-04
check out	2023-11-04
rooms	2
adults	4
children	0
booking id	aTThap0VekVnYOCY7uW

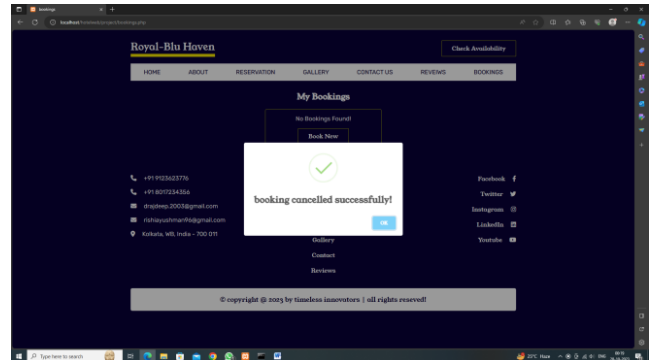
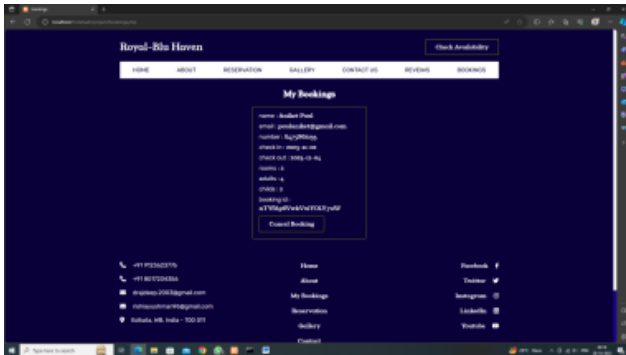
Cancel Booking

+91 903623776
+91 8017234366
chajdeep.2003@gmail.com
rishayashnar9@gmail.com
Kolkata, Wt, India - 700 011

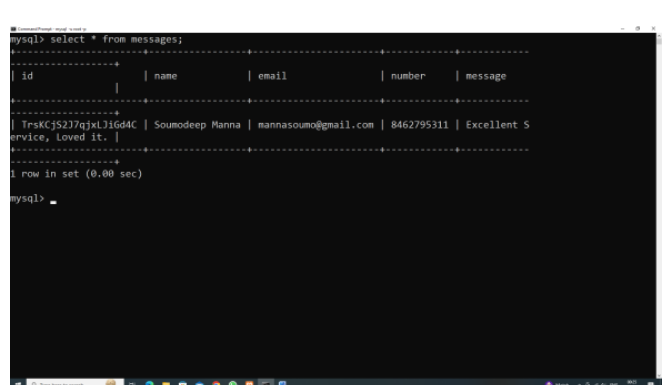
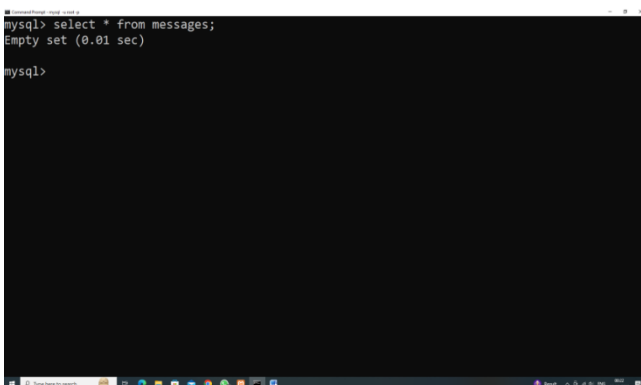
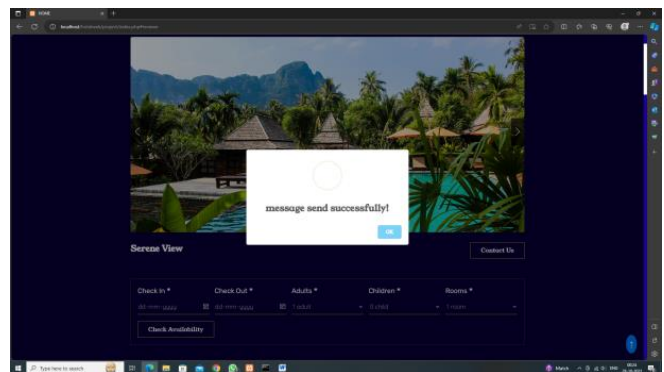
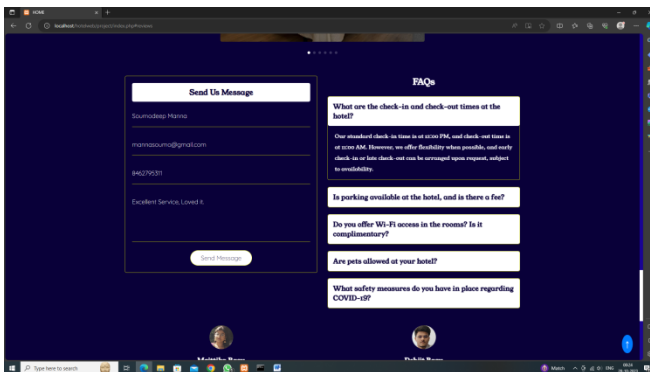
Home
About
My Bookings
Reservation
Gallery
Contact

Facebook
Twitter
Instagram
LinkedIn
Youtube

4. Cancel Bookings: For cancellation the user needs to click on the Bookings button to view the bookings and then press the cancel button.

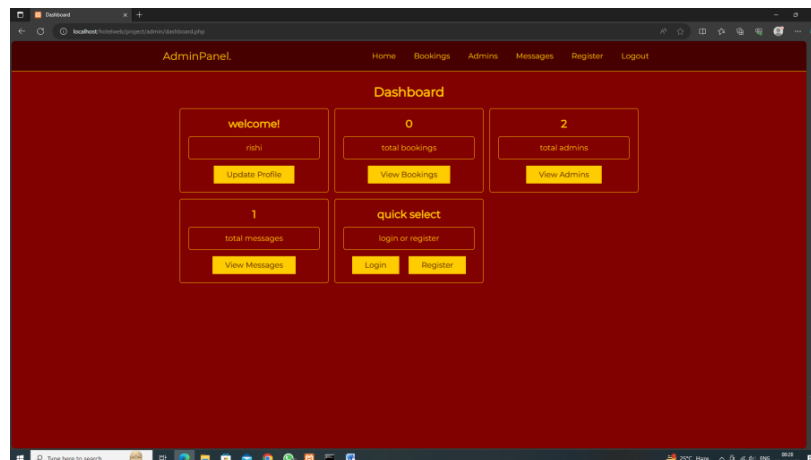
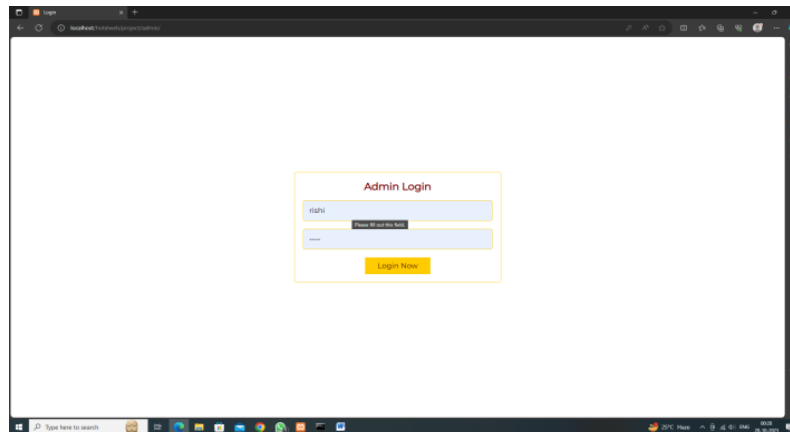


5. Send Reviews, Complaints or feedbacks.

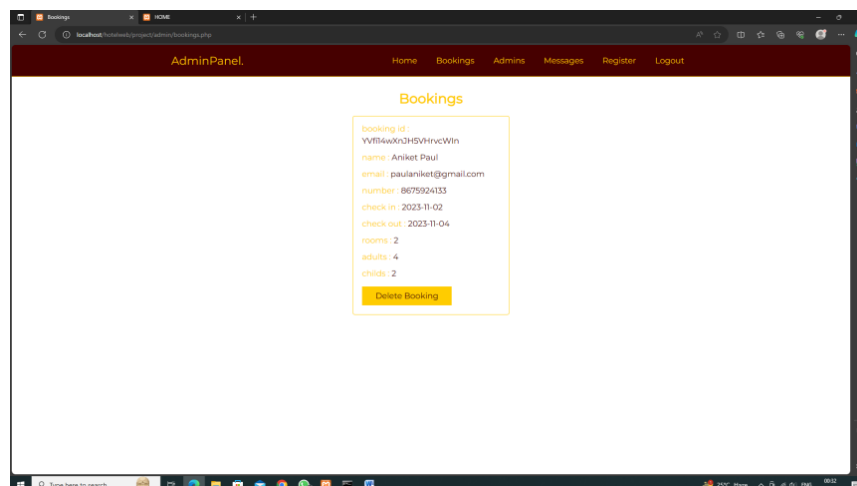


Administrators

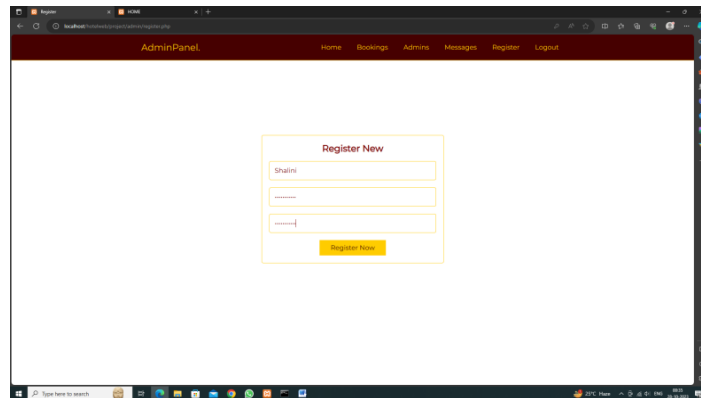
1. Admin Login and Authentication



2. View Bookings



3. Register an Admin



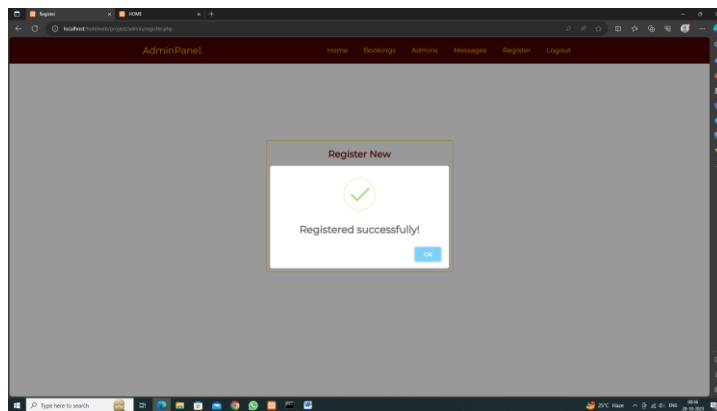
AdminPanel

Home Bookings Admins Messages Register Logout

Register New

Shalini

Register Now



AdminPanel

Home Bookings Admins Messages Register Logout

Register New

Registered successfully!

OK

```
mysql> select * from admins;
+----+-----+-----+
| id | name | password |
+----+-----+-----+
| EQVJaB96HcaTtxag6J7d | admin | 6216f8a75fd5bb3d5f22b6f9958cdede3fc086c2 |
| N0XoZx8ZM1OGEV56PM48 | rishi | e011a1521754d7b5780994ecc770be41f41e2e7f |
+----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

```
mysql> select * from admins;
+----+-----+-----+
| id | name | password |
+----+-----+-----+
| EQVJaB96HcaTtxag6J7d | admin | 6216f8a75fd5bb3d5f22b6f9958cdede3fc086c2 |
| N0XoZx8ZM1OGEV56PM48 | rishi | e011a1521754d7b5780994ecc770be41f41e2e7f |
| z70TtFEZogVzD0R7v6Qc | Shalini | bd2c5ca1444261de4fe1fdc92c27ea4ef142641b |
+----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

Maintenance and Future Enhancements

Post-launch, ongoing maintenance will be integral to the project's success. Continuous improvements and enhancements will be planned and executed to keep the website competitive and user-centric.

Future enhancements of the website include:

1. User Login and Authentication before booking.
2. Payment Gateways like Stripe or PayPal.
3. Will be hosted on a Cloud platform like Amazon AWS, Azure or Google Cloud Platform for security and reliability.
4. More Choices of Hotels and Locations.
5. A mobile app will be made to book hotels at the convenience of mobile phones.

Conclusion

In conclusion, the Hotel Booking Website project aspires to revolutionize the hotel booking experience for travelers. By offering a user-friendly platform with a comprehensive range of hotels, secure booking, and an integrated ecosystem, we aim to become a key player in the online hospitality industry. The success of this project hinges on the collaboration of a dedicated development team and the active participation of stakeholders.

References

The tools and Frameworks used for the successful completion of the project are:

1. Notepad Editor to design the front end using HTML, CSS and JavaScript.
2. Bootstrap
3. PHP to design the backend of the website and connect with the database.
4. MySQL Database to store the information and records.
5. Xampp Server to host the website.