



North South University
Department of Electrical & Computer Engineering

Final Project Report

Course Title: Database Management Systems Lab

Course Code: CSE311L

Section: 03

Group No.: 04

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Submission Date: 03/01/22

Course Instructor: Intisar Tahmid Naheen

Lab Instructor: Md Saidur Rahman

Hotel Seabreeze

Booking System

Final Project Report

1. Introduction:

Our Project - Hotel Management System - concentrates on our Hotel Seabreeze's front office capabilities. There are 2 types of users - guests and admin. We have tried building an online platform for the guests to book their rooms of their choice and for the manager/admin to easily perform his/her designated tasks.

We have used HTML, CSS, and JS for the frontend development and PHP and MySQL for the backend and database development.

2. Background Research/Motivations:

There are many completed projects that are similar to our project of a Hotel Management Site. In those projects, we have seen that there are usually two types of users as well: manager/admin and guests.

There is a manager panel and a guest home page. The manager can oversee the data that is taken from the database - including room information, guest information, booking information, room availability etc. The guests cannot see the manager panel, but the manager can see the guest home page. Guests can look at rooms from the room catalogues and book any rooms they like. There is usually a payment method included as well.

The frontend work was done using HTML, CSS and the backend and database work was done using PHP, MySQL.

We have chosen this project because, in this digital age, almost every service/business has shifted to E-commerce websites and have digitized all their aspects to make it easier for people to reach them. So, hotels have also started using online booking systems to allow guests to book rooms of their liking before their arrival and have also made it easy to pay for the services however they like. Therefore, we thought it would be a relevant system to make a website for since such sites are now widely used and very popular in people's day-to-day lives.

3. Resources/technologies:

The technology we used to make our website includes:
Frontend: HTML, CSS, JavaScript
Backend & Database: PHP, MySQL

As for our resources, we have used our knowledge that we gained during this course. We have also used the internet to refer to already existing solutions of various details and aspects of our project code. Some websites that we have frequently referred to for assistance are: W3Schools, Stack Overflow, Tutorial Republic, and we have learned a lot from many videos on YouTube as well.

4. Project Design:

There are two types of users: guest and admin/manager.

a. Guest:

The website has a login option in the beginning for both the manager and customers. In case the customer is not registered, they can go to the registration page that is linked to the login page in order to create an account in the hotel database. Afterwards, they will be logging in every time before accessing the webpage.

After logging in, guests will see the website's guest home page. The home page has a description of the hotel, including some pictures. From the top panel of the page, the guests can choose to go to different pages. For instance, the "Rooms" page will take them to a page where they can choose the room of their choice and book it.

The "book room" option in the cards will take the guests into another page where they can book that particular room. After filling up the required information, they will receive a confirmation of their reservation. All the booking information will be inserted into the hotel database after booking is successful.

Guests can also check out "Facilities" and if they need any further information, they can contact the manager whose information will be provided in the "Help".

b. Manager:

Managers will overlook the entire hotel website. They will have an overview of the users' information from when they register into the database. They will be able to see all the rooms and their details and status. Manager can also see the booking information after a booking has completed and is inserted into the hotel database.

c. ER Diagram:

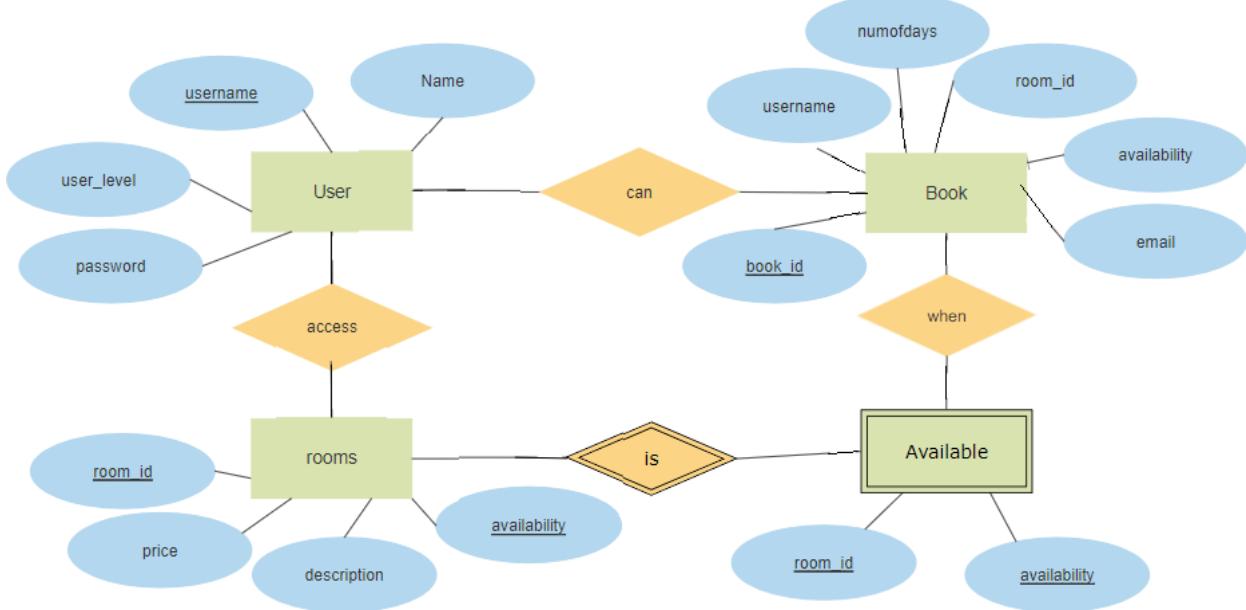


Fig. : ER Diagram

In this ER diagram, we can see that there are 4 entities: 3 entities and one weak entity. The weak entity is “Available” and its identifying entity is “rooms”. Here, the primary key of Users is `username`, the primary key of rooms is `room_id`, the primary key of Available is `room_id` and `availability`, and the primary key of Book is `book_id`.

In Users, there are the following attributes: `username`, `password`, `name`, and `user_level`. In rooms, the attributes are: `room_id`, `price`, `description`, and `availability`. The attributes of the available entity are: `room_id` and `availability`. The attributes of Book are: `book_id`, `room_id`, `username`, `email`, `numofdays`, and `availability`.

d. Relational table:

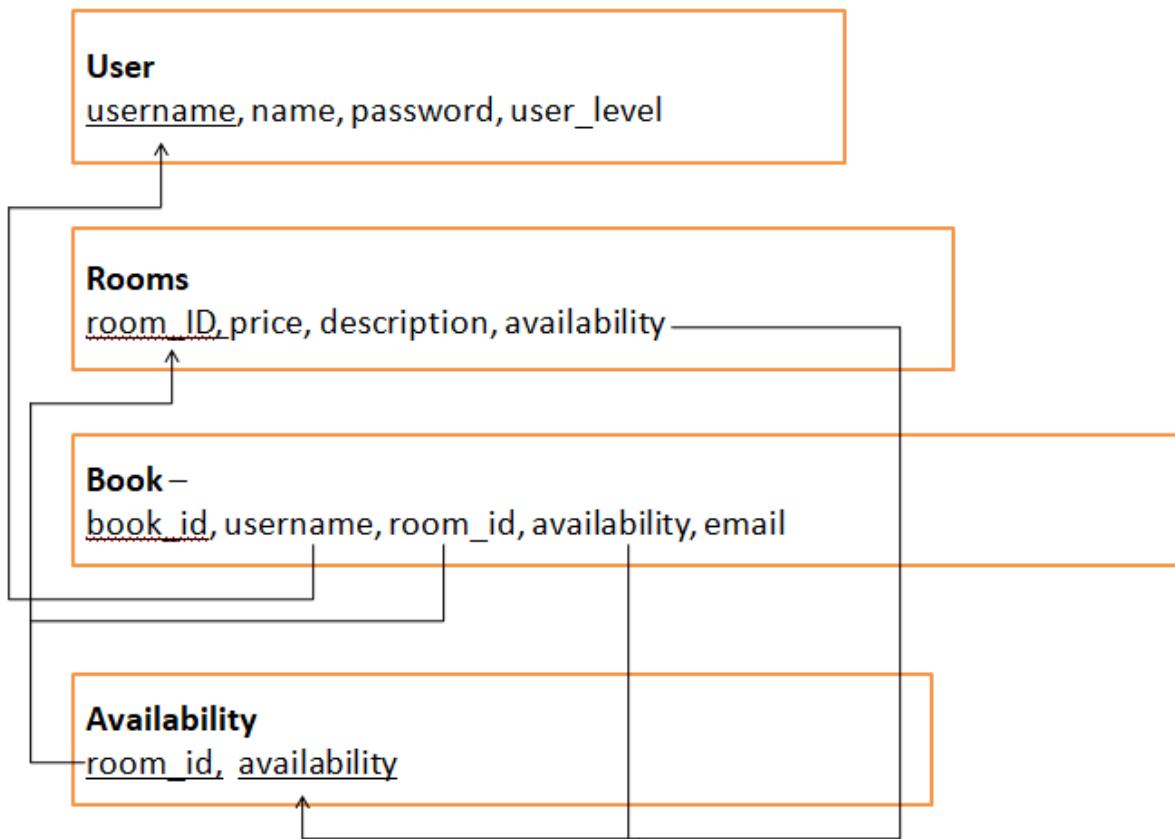


Fig. : Relational Table

5. Sitemap:

The overview of our website is given below:

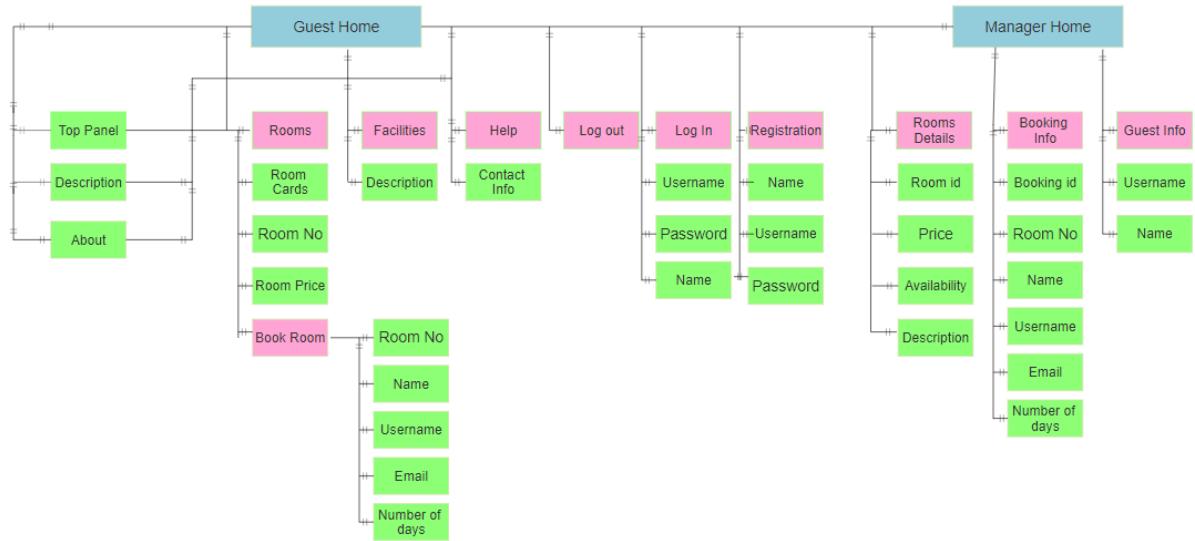
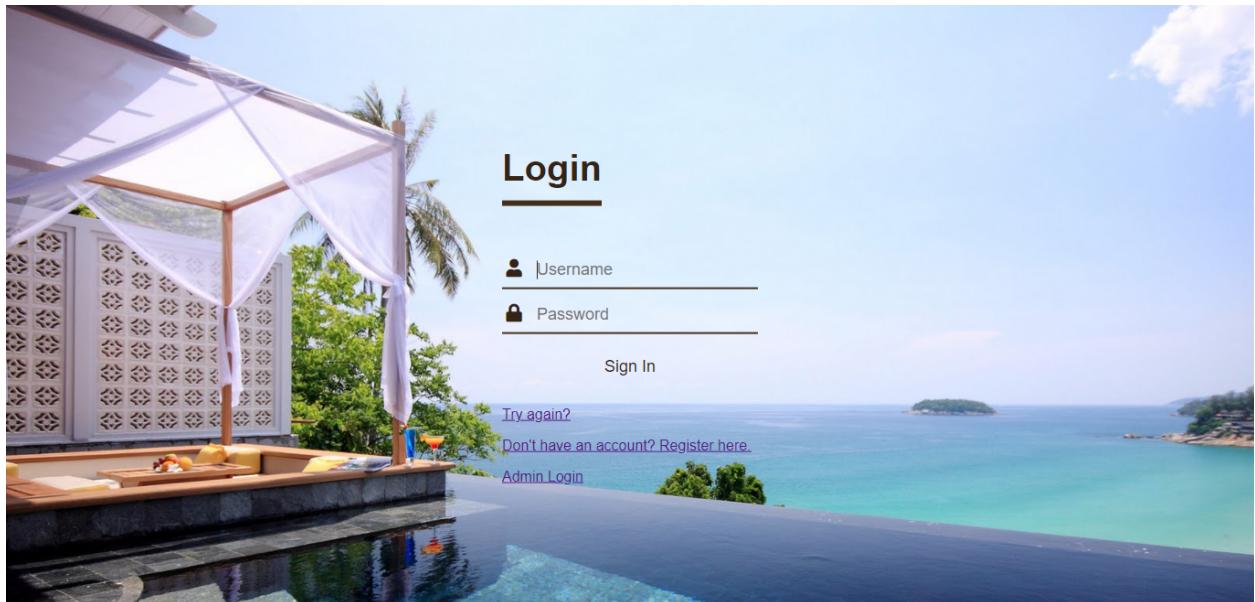


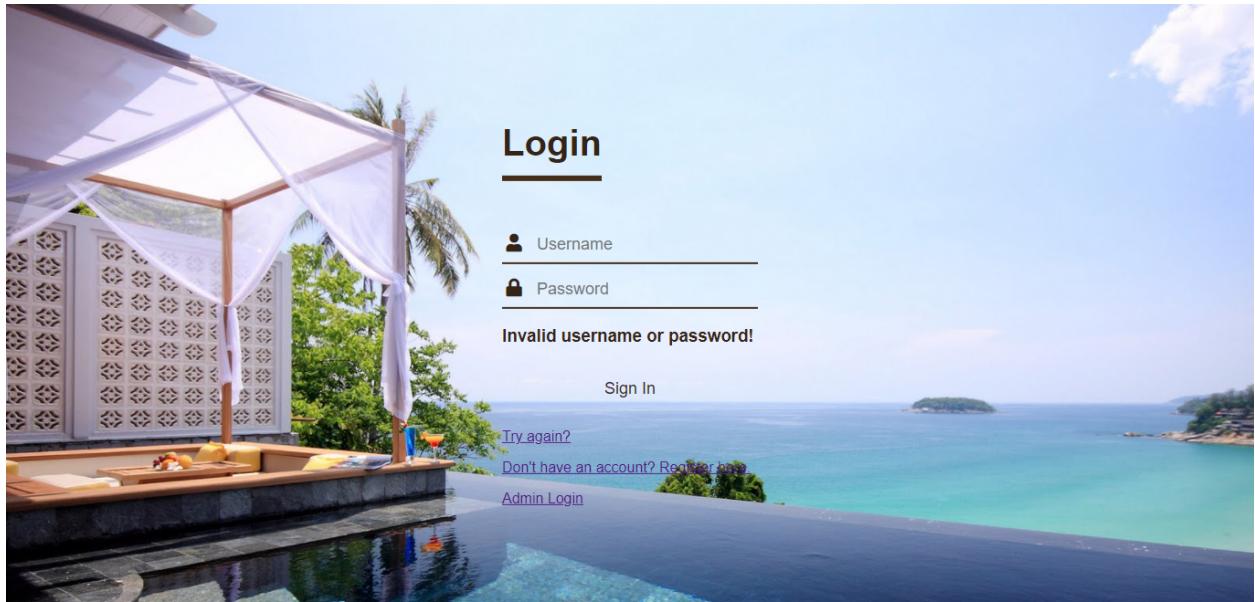
Fig. : Sitemap

6. Snapshots:

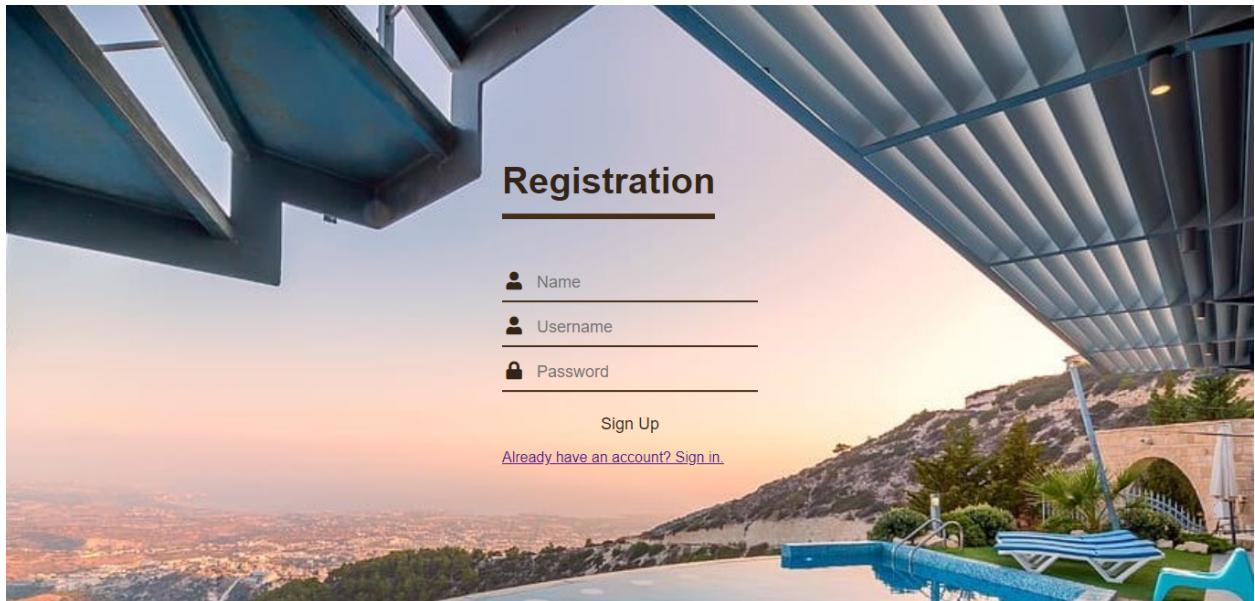
Login



In case of Invalid Username and/or Password



Registration



Guest Home Page

Welcome to Hotel Seabreeze

A few steps away from the longest sea beach of the world, Hotel Seabreeze is in a great location for enjoying the rural areas of Cox's Bazar. The 81 modern rooms and suites at our hotel include high-speed Wi-Fi as well as complimentary tea and coffee facilities. Along with a spacious lobby and a stunning outdoor swimming pool, our hotel provides daily breakfast buffet that sets you up for a successful day of business meetings or sightseeing.



Our Rooms and Suites

Deluxe

Double

Single

[Check our Room Details](#)

[Check our Room Details](#)

[Check our Room Details](#)



HOTEL SEABREEZE



123 Avenue, NorthSouth City, Dhaka

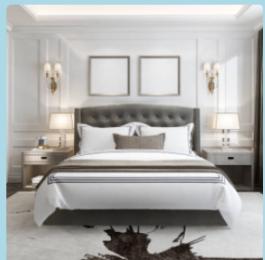
Contact: +8801712345678

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Rooms Page



[Home](#) [Rooms](#) [Facilities](#) [Help](#) [Log out](#)



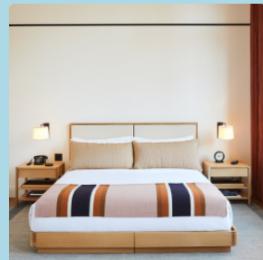
Room 101

Deluxe



Room 102

Deluxe



Room 103

Double



Room 104

Double

\$999.00

[Book Room](#)

\$999.00

[Book Room](#)

\$799.00

[Book Room](#)

\$799.00

[Book Room](#)



Room 105

Single

\$599.00

[Book Room](#)



Room 106

Single

\$599.00

[Book Room](#)



Room 107

Honeymoon Suite

\$899.00

[Book Room](#)



Room 108

Honeymoon Suite

\$899.00

[Book Room](#)

HOTEL SEABREEZE

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Facilities

FACILITIES



Lobby Lounge

Our newly renovated lobby lounge is a unique place to pass your idle time. You can watch people's movement over a cup of tea or enjoy the company of your partner in this sleek and soothing atmosphere of the lounge. Perhaps you may simply like to sit back and savor your refreshing beverage and light snack, and let your daily stress and tension melt away.

Swimming Pool

Hotel SeaBreeze rooftop swimming is a welcomed opportunity to savor a private moment with the elements of nature. The view, whether you are looking up to the endless sky or down at the winding city or runway, gives you the sense that you are hanging between the heavens and earth. To unwind, to seep away your anxieties while you bask in the sun or invigorate with a swim or even sit back with a book, we makes it all come true.

Start the day or cool off in the afternoon with an unhindered view of the airport runway, Changing & shower rooms, life Guard, Jacuzzi, add an inspirational twist with freshly squeezed juices.

Opening Hours: 6:30 am - 11:00 am, 7 days a week





Dining Hall

The hotel's cuisine is our pride and joy. You may appreciate this first thing in the morning with the abundant buffet that awaits you, which offers homemade cakes, yoghurt, fruit juices, cereals, marmalade and jam.

The menu for lunch and dinner, which is accompanied with a rich vegetable buffet, are prepared with attention and can be personalised without difficulty.

Conference Hall

The small details always make a grand impression during an event. And for any grand event, a befitting venue has to be hired. Here at Amrokanon, we are committed to little details and our dedicated event manager will

ensure your event shines with bounty of beautiful moments. Let us transform our banquet halls into a themed wedding night for you. Our attention to minute details are infectious, from decoration, to preparation of cakes and the accompanying food, we will ensure everything is timed and tastes to perfection.

MEETING VENUE FOR 80 GUESTS.



HOTEL SEABREEZE



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Help Page

CONTACT



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HOTEL
SEABREEZE

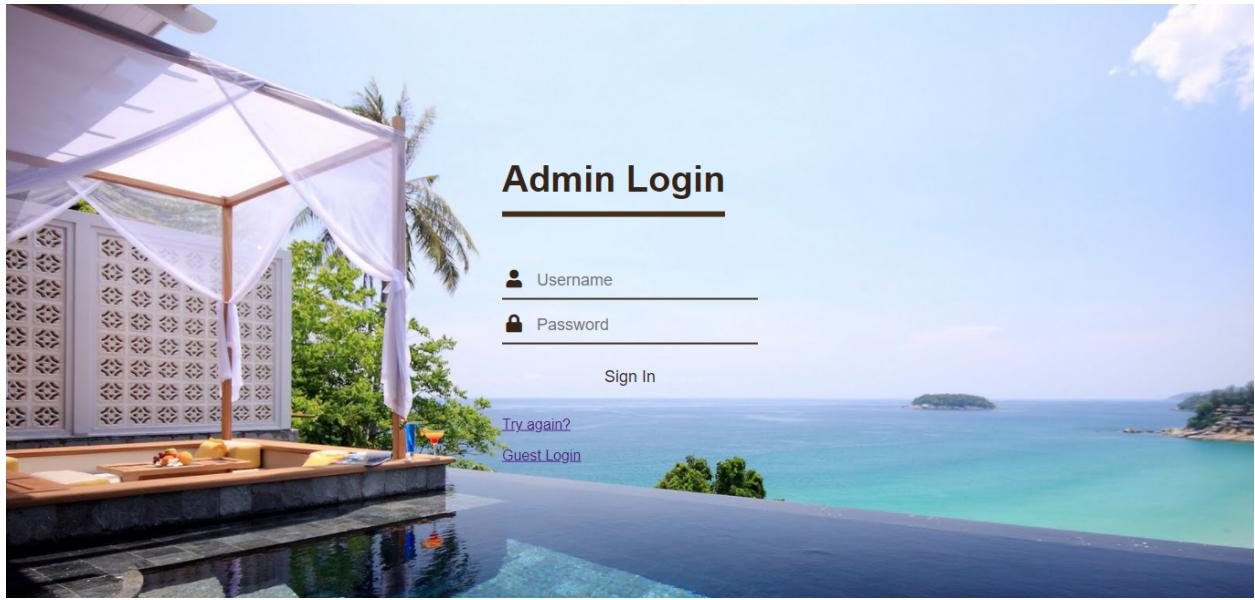


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[Admin Login](#)



Manager Home Page

HOTEL
SEABREEZE

[Guest Home](#)

[Room Details](#)

[Guest Info](#)

[Booking Details](#)

[Log out](#)



Name: Manager

Username: Admin

Contact:

+8801712345678

Email:

hotelseabreeze@gmail.com

HOTEL SEABREEZE



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Room Details Page

Room Details

Room Id	Price	Availability	Description
101	999.00	0	Deluxe
102	999.00	0	Deluxe
103	799.00	0	Double
104	799.00	0	Double
105	599.00	0	Single
106	599.00	0	Single
107	899.00	0	Honeymoon Suite
108	899.00	0	Honeymoon Suite

Guest Information

Guest Information

Name	Username
Manager	admin
Anisha Rahman	anisha21
Emon Islam	emon01
mayisha alam	mayisha2
meem islam	meem567
Mumu Islam	mumu99
Rafia Tamanna	rafia02

Booking Details

Booking Details

Booking ID	Room No	Guest Username	Email	Number of Days
4	101	Suraiya Meem	meem@gmail.com	3
5	102	Mayisha Muntaha	mayisha@gmail.com	2
6	103	Rafia Tamanna	rafia@gmail.com	2
7	103	Emon Islam	emon@gmail.com	3
8	104	Rafia Jahan	rafia9@gmail.com	4
9	105	Mumu Islam	mumu99@gmail.com	2

7. Conclusion and Future Work:

We have successfully created a website with two types of users - guest and admin, where guests can check out hotel rooms and book them if they want to. The manager can overlook the detailed information in the database from the manager/admin panel.

We have learned how to create a website using a local server and HTML, CSS, PHP, and MySQL languages. We have learned how to do frontend work as well as backend work. We have also learned how to handle a database.

This website would've been better and more polished if we could properly implement a few more things. We plan on working on this project even

further after our submission in order to improve it and make it into a decent website that has many useful functions and abilities.

8. Contributions:

The contributions of each member into every page/part of the hotel website is given below.

Suraiya Islam Meem (SM)

Rafia Tamanna (RT)

Mayisha Muntaha Alam (MA)

Guest Home Page: SM

Rooms: MA

Book Room: SM

Facilities: MA & RT

Help: RT

Logout: MA

Login: RT & MA

Registration: RT & MA

Booking Details: SM

Guest Info: MA (Backend) & SM (Frontend)

Room Details: MA(Backend) & SM (Frontend)

Database: MA & SM

Top Panel : SM & MA

Bottom Panel : MA