

# **NORTH SOUTH UNIVERSITY**

Department of Electrical and Computer Engineering

## **PROJECT REPORT**

CSE 299

Section 13

Group 3

## **Online Hotel Booking System**

**Submitted to**

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# ONLINE HOTEL BOOKING

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Junior Project Design



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## **ABSTRACT**

The project “Online Hotel Booking System” is a system based on accessing the internet to book for rooms in a hotel. The purpose of this study is to develop and implement an online hotel reservation system for hotels that will replace the manual method of booking for hotel rooms. The previous system for booking rooms were faced with so many problems like, delay in processing the customer booking or paying for rooms that is below or beyond his standard, causes difficulty for emergency booking.

The objects-oriented analysis and design methodology (OOADM) was therefore used to analysis the system in order to discover the various objects involved and how they interact with one another so that a new and improved system can be defined.

The use of online view of room rates and uploading of available rooms and facilities was used for the new system so that the customer can view and make his choice before arrival, and also in the case of emergency travelling. This new system assisted the hotel owners in managing their hotels, because they can also regulate the receptionist moves and avoid fraudulent activities. It also increased the efficiency of the hotel managers and also their profit margin, once they have a better and good facilities.

# **Chapter 1:**

## **1.1 Introduction :**

This Online Hotel Reservation System is an automated system that allows customers to plan their bookings of a particular hotel. The aim of this system is to keep booking of rooms of a particular hotel. Now, hotel bookings are easily accessible anytime and anywhere as long as you have an internet connection and a laptop, smartphone or tablet because it has a very responsive design.

Customers who wants to book room using online, they can book their room by visiting hotel web site. And customers can see which room is available, and book their room. They can also see the price of every room. And they can see the facilities as well. And they can also comment in the hotel website.

And the Hotel managers also can see the customer those who booked rooms, can see their details. They can edit hotel room, price, available rooms and details. And they can also add and delete rooms.

## **1.2 Related Work :**

There are many website for online hotel booking. There are some websites where all the hotel have been shown or there are website for individuals. But customers face many difficulties. Sometimes proper details did not find whose websites. We build this website for individual hotels. From this website customers will get all the information about that hotel. They can see all the facilities available there. And there is a review feature, where customers get the review about that hotel. This website also helpful for admin of the hotel. They can easily use it and add, edit or delete their information. They can manage all those activities from this website. This website is beneficial for both admin and customer.

## **Chapter 2:**

### **2.1 Purpose & Benefits**

- It is a beneficial for customers and hotel owners.
- Users can get the complete information about the hotel from the Internet.
- Easy for customers to find available rooms
- Customers can see the details, price and facilities.
- Customers can also see the review of that hotel, and also comment about that hotel.
- Hotel managers can see the database of the customers.
- Hotel managers can view customer's details and then confirm their booking.
- Hotel managers also can edit the room details, price and facilities.

## **2.2 : Objective of study**

- Customers can easily go online with their mobile phones or laptops to browse about hotels within their vicinity.
- Guests can be able to book for rooms within their budgets after seeing and accessing these hotels within their vicinity.
- Receptionists can easily access customer's information online without delay or with little delay.
- Fraud done by the receptionist by not registering every customer will not occur because the customers details will be online and can be accessed by the managers too.

## **2.3: Scope of study**

This study is aimed at finding out how effective the online room reservation or booking system will improve the operations of room reservations in hotels. However, out of the several departments that makes up the hotel, this research project is restricted to only one section (room reservation) section

## **Chapter 3: Methodology**

### **3.1: Features & Details**

**There will be two parts:**

- **User view**
- **Admin view**

User view means that when a person visit the hotel website they see the hotel web page only.

They can also see the hotel details which is given by the admin.

And the another one is admin view. That means that who control the hotel web page. Admin can see how many people book the hotel rooms and see the customers database.



### **3.1.1: Admin view**

This is for the admin who control the system. Admin can see the database of the customer's details. And their check in and check out date.

- View customers booking details. They can also see the customer's personal details. And then confirm their booking.
- They can add rooms. Admin can add rooms whenever they need.
- They can also delete rooms. Admin can delete rooms whenever they need.
- They can also edit facilities. Admin can edit room's facilities whenever they need.
- They can add new user.
- They can also see customer's comments about their hotel.

### **3.1.2: Users view:**

After visiting the hotel website customers can see the hotel home page.

- Firstly customers can the home page when they visit the hotel website.
- Customers can see the room category. Which type of rooms the hotel have.

- They can see the room facilities.
- After that customers can book their desire room. After the select the room customer have to give their personal details such as :  
Email id  
Phone number  
Full name  
Address  
Check in and out date
- When their booking will be confirm, they get notification.
- Customers can see their booking details both present and past.

## 3.2: The Software/Tools we will use

### 3.2.1 Front-End:

**HTML:** Hypertext Markup Language is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript.

**CSS:** Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript

**Bootstrap:** Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

### 3.2.2 Back-End:

**PHP:** PHP is a general-purpose scripting language especially suited to web development. It was originally created by Danish-Canadian programmer Rasmus Lerdorf in 1994. The PHP reference implementation is now produced by The PHP Group.

**Javascript:** JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm.

**Mysql:** MySQL is an open-source relational database management system. Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language.

### 3.3: Use case diagram

It is also called behavioral UML diagram. It gives a graphic overview of the actors involved in a system directly. It shows how different functions needed by the actors how they are interacted.

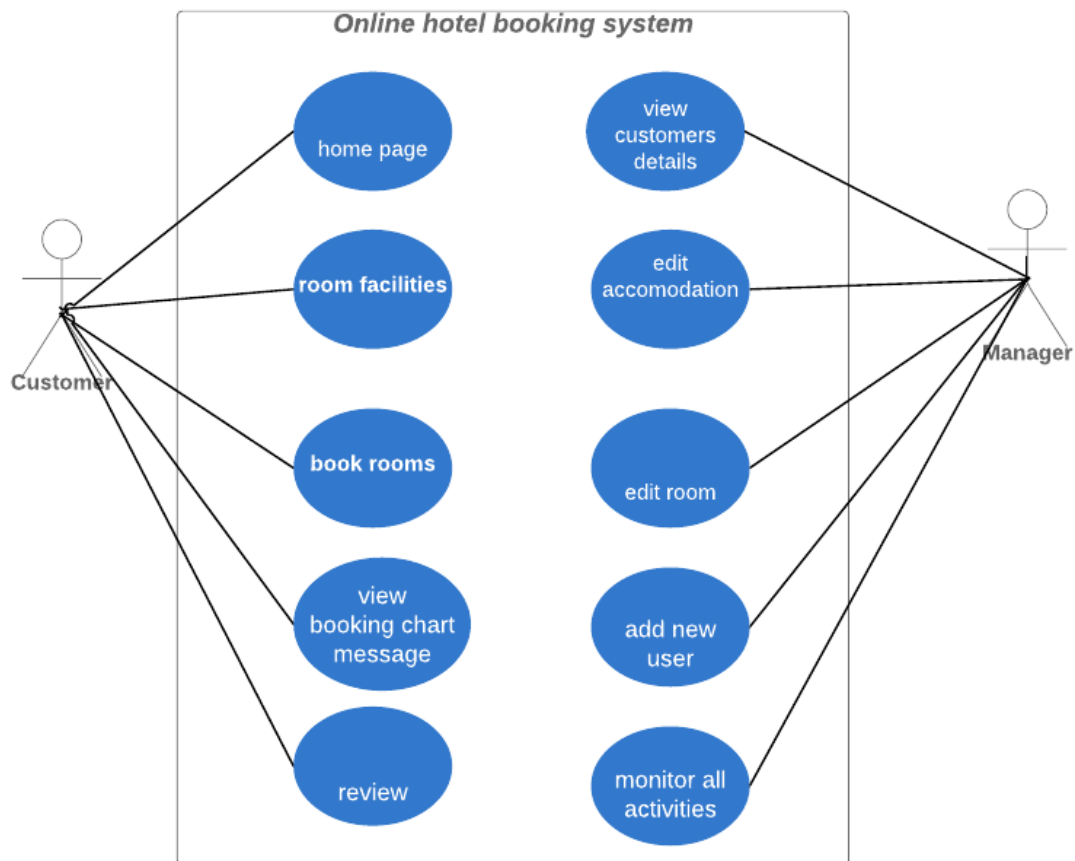


Figure: Use Case Diagram

### 3.4: UML class diagram

UML design is the shortest form of “Unified Modelling Language”. The purpose of this modelling language is to visualize the design of the system.

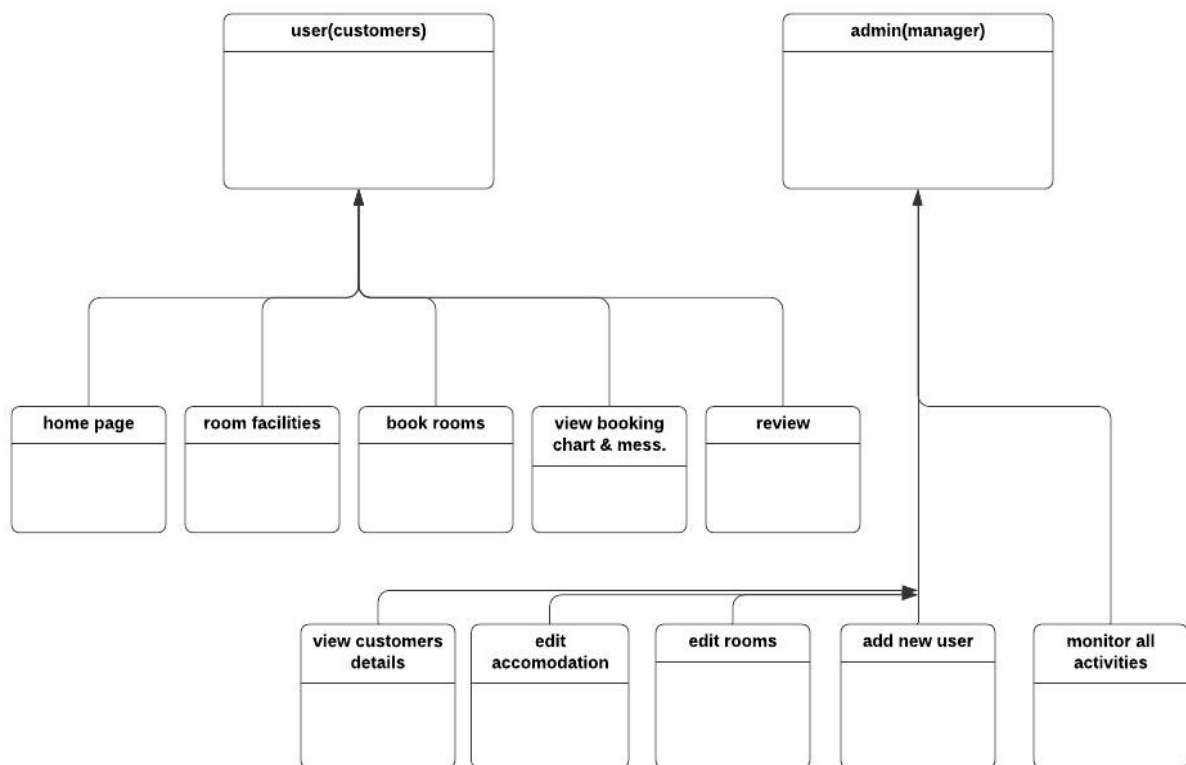


Figure: UML class diagram

## 3.5: Project Management

- **GitHub:** GitHub is a provider of Internet hosting for software development and version control using Git. We use GitHub for our project work, such as sharing codes.
- **Trello:** Trello is a web-based, Kanban-style, list-making application and is a subsidiary of Atlassian. We use this software to distribute and manage weekly work.
- **Slack:** Slack is a proprietary business communication platform developed by American software company Slack Technologies. We use this application for our daily communication

### 3.6: Work distribution

A complete workflow diagram of our work.

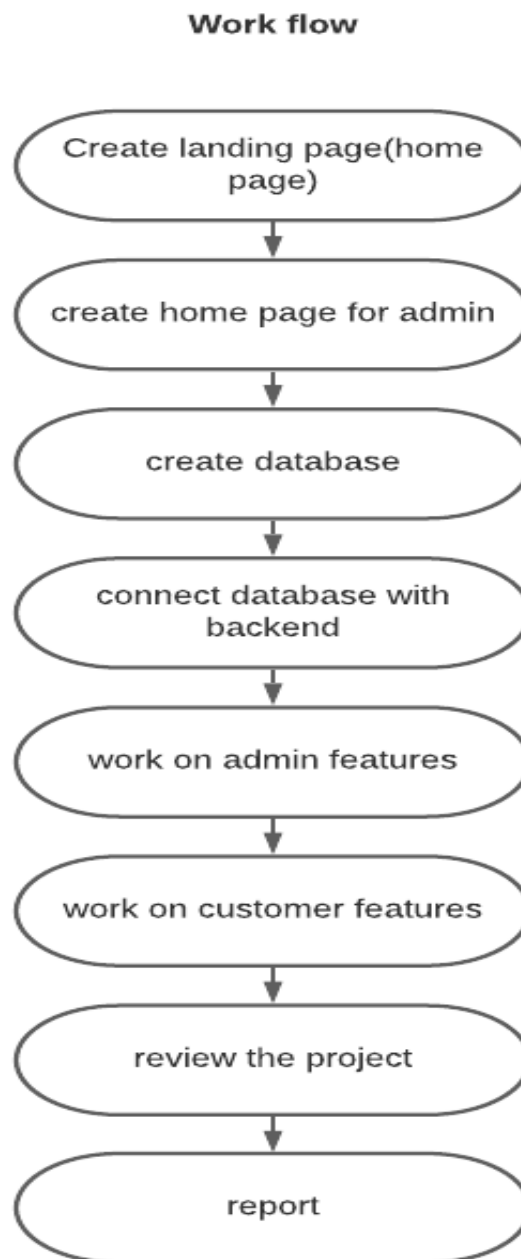


Figure – Work Flow

Asif Anan	Saraf Tasnim
<b>Report</b>  <b>Features-</b> database, connect database with backend, make home page, login for admin, add admin, add rooms, login and reg. for customers, search rooms for user(backend), show rooms, book rooms, reservation action (for admin) (backend), show user booking list (backend & database), Check message(notification) (for user), review (for customer)  <b>*Frontend, backend, database (mainly work on backend &amp; database part)</b>	<b>Report</b>  <b>Features-</b> create database, create home page for admin, edit rooms, search rooms for user(frontend), login and reg. for user(frontend), reservation action for admin(frontend), show user booking list(frontend)  <b>*Frontend, Backend, database (mainly work on frontend part)</b>



## Chapter 4: Results

After the implementation of all the points, we get a visual website. All the codes are written in PHP for backend and html and css for frontend. The database is used MySQL. So, users can now visit the website without any registration. But if they want to reserve a hotel then they have to register in the first place. After login they can do everything which is saved in the database.

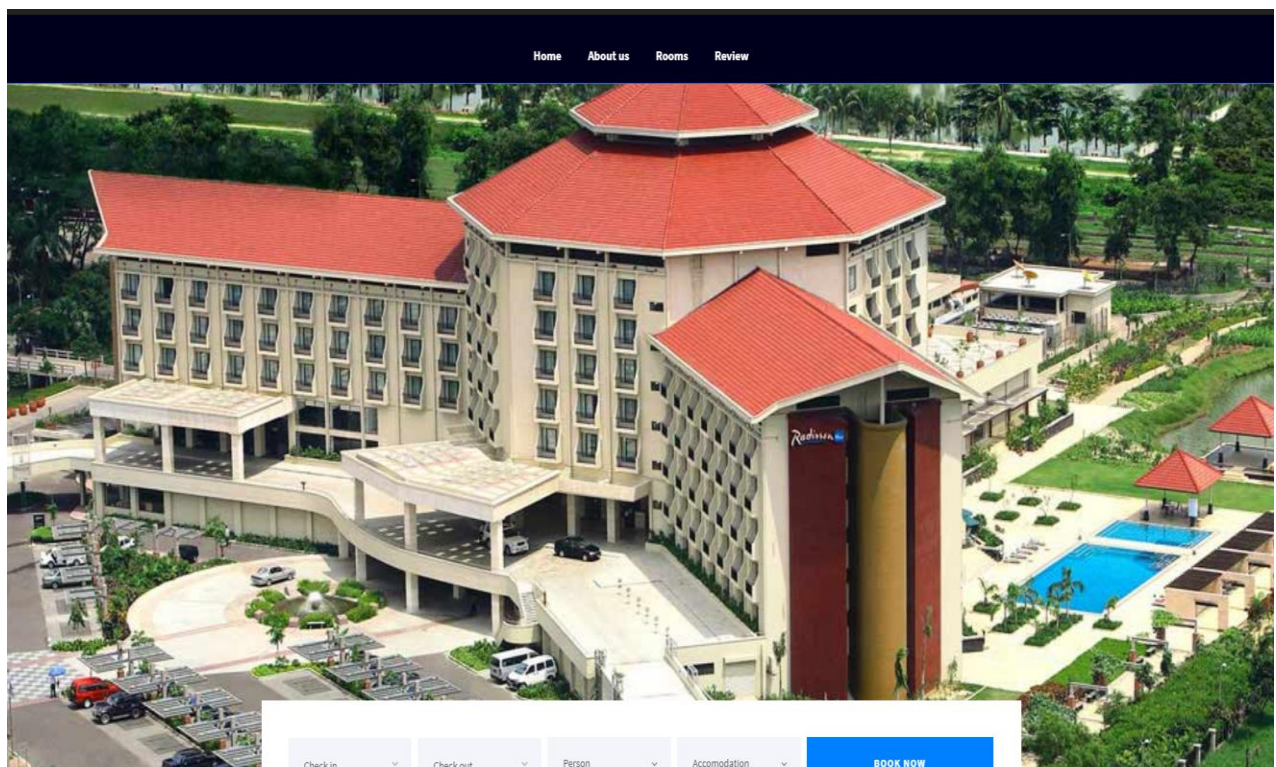


Figure - Home Page

This is the Home page of the online hotel booking Website. If the user enters the site they would see an amazing background picture.

## WELCOME TO HOTEL RADISSON

Situated on seven acres of lush gardens in the heart of Dhaka's primary commercial hub, the Radisson Blu Dhaka Water Garden provides a serene escape from the bustle of the city. The hotel provides the perfect balance of supreme comfort and business-minded functionality, with five-star resort amenities and incredible conveniences, such as the short ten-minute drive to Hazrat Shahjalal International Airport (DAC). Located near major business and tourist attractions, such as the National Assembly Building or Ahsan Manzil, our hotel is perfect for any guest, business or leisure.



### What we offer



LUXURY ROOMS



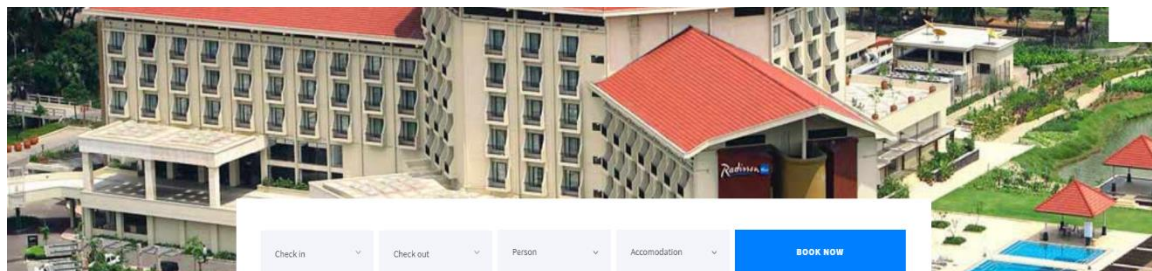
RESTAURANT



WEDDING

Figure- About us

This is the feature of what this hotel offer.



Check in	Check out	Person	Accommodation	BOOK NOW
<b>Superior Room (BED ROOMS)</b>				
WIFI, AC, SINGLE BED				
Number of Person - 1				
Total Rooms :5				
<b>100/ Night</b>				
<a href="#">Book Now</a>				
<b>Deluxe Room (BED ROOMS)</b>				
WIFI, AC, DOUBLE BED				
Number of Person - 2				
Total Rooms :5				
<b>200/ Night</b>				
<a href="#">Book Now</a>				
<b>Business Class Room (BED ROOMS)</b>				
WIFI, AC, DOUBLE BED, LIVING AREA				
Number of Person - 4				
Total Rooms :5				
<b>500/ Night</b>				
<a href="#">Book Now</a>				

Figure – Rooms feature

This is the feature of which room are available in this hotel.

Review

Enter Name

Enter Comment

Submit

By Asif Anan on 2021-01-30 16:37:20

Nice service

Reply

By MANAGER on 2021-01-30 16:38:11

THANK YOU

Reply

Figure- Review Feature

Check In

Login

Register

Username

Username

Password

Password

Sign In

Register New Guest

FIRST NAME:

LAST NAME:

CITY:

ADDRESS:

PHONE:

NATIONALITY:

E-MAIL:

USERNAME:

PASSWORD:

I ☐ Agree the TERMS AND CONDITION of this Hotel

Confirm

BOOK NOW

Contact Us

Email: info@gmail.com

Figure – Registration

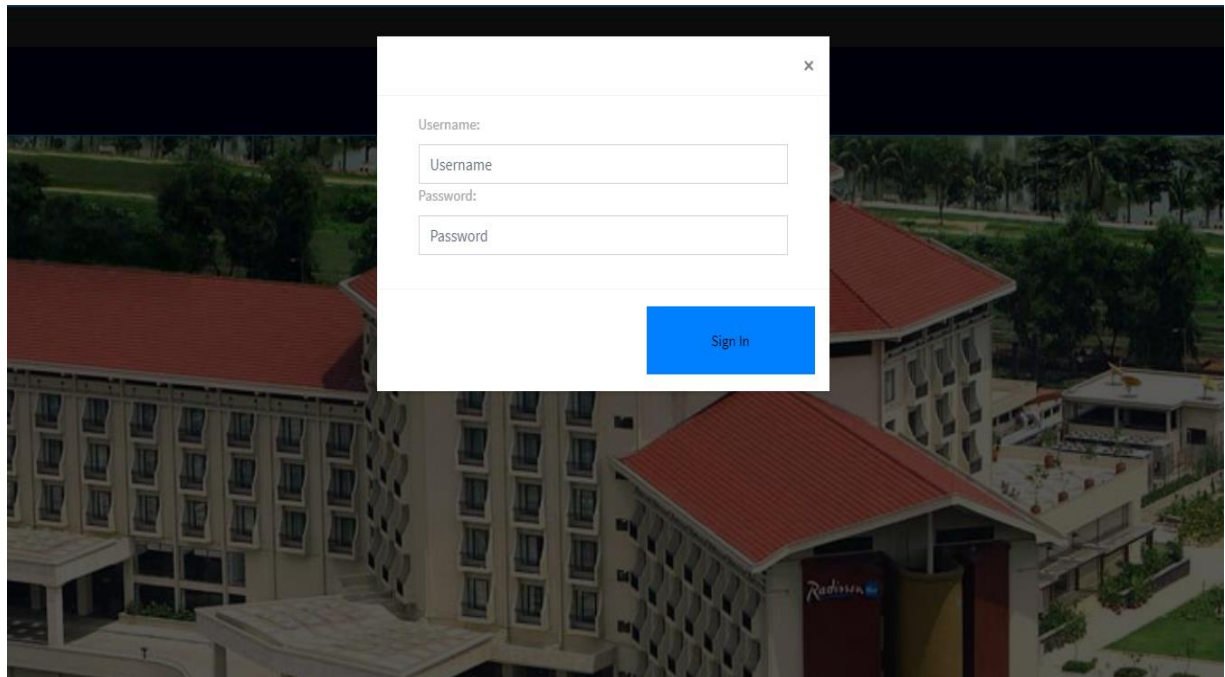


Figure – Login/sign in

Home Rooms Accommodation Reservation Users Logout					
List of Rooms					
No.	<input type="checkbox"/> Image	Room	Accommodation	Person	Price
	<input type="checkbox"/> Superior	Superior Room (WIFI, AC, SINGLE BED)	(BED ROOMS)	1	€100
	<input type="checkbox"/> Deluxe Room	Deluxe Room (WIFI, AC, DOUBLE BED)	(BED ROOMS)	2	€200
	<input type="checkbox"/> Business	Business Class Room (WIFI, AC, DOUBLE BED, LIVING AREA)	(BED ROOMS)	4	€500
<input type="button" value="New"/> <input type="button" value="Delete Selected"/>					

Figure – List of Rooms (for admin)



<a href="#">Home</a> <a href="#">Rooms</a> <a href="#">Accommodation</a> <a href="#">Reservation</a> <a href="#">Users</a> <a href="#">Logout</a>							
#	Guest	Transaction Date	Confirmation Code	Total Rooms	Total Price	Status	Action
	Asif Anan	2020-04-03 04:50:32	2q3skghd	1	€200	Pending	<a href="#">View</a> <a href="#">Cancel</a> <a href="#">Confirm</a> <a href="#">Delete</a> <a href="#">Edit</a>
	Asif Anan	2020-04-03 04:49:45	gvsocait	1	€500	Pending	<a href="#">View</a> <a href="#">Cancel</a> <a href="#">Confirm</a> <a href="#">Delete</a> <a href="#">Edit</a>
	Mark	2020-04-06 05:00:23	k07c7wda	1	€200	Confirmed	<a href="#">View</a> <a href="#">Cancel</a> <a href="#">Check in</a> <a href="#">Delete</a> <a href="#">Edit</a>
	Mark	2020-04-03 04:53:09	hbn82df	1	€100	Checkedout	<a href="#">View</a> <a href="#">Delete</a> <a href="#">Edit</a>
	Asif Anan	2020-04-03 04:50:51	y3ss7TQ	1	€100	Confirmed	<a href="#">View</a> <a href="#">Cancel</a> <a href="#">Check in</a> <a href="#">Delete</a> <a href="#">Edit</a>

Figure – View customer’s details (for admin)

<a href="#">Home</a> <a href="#">Rooms</a> <a href="#">Accommodation</a> <a href="#">Reservation</a> <a href="#">Users</a> <a href="#">Logout</a>	
<div> <div>New User Account</div> <div> <div>Name: <input type="text" value="Asif Anan"/></div> <div>Username: <input type="text" value="anan"/></div> <div>Password: <input type="password" value="Account Password"/></div> <div>Role: <input type="text" value="Administrator"/></div> <div>Contact #: <input type="text" value="12345"/></div> <div>Save</div> </div> </div>	

Figure- Add, edit, delete user (For admin)

## Chapter 5: Conclusion

The system have a great benefits for customers too. In home page customers can also share their experience. So, overall this system will give the customers a better user friendly environment to book online.

**5.1 Discussion:** First we build our landing page (home page) for the particular hotel. Then we create the database. Then we connect the database with backend. After that we work for admin features. After completed all the admin features, then we work on customer features. At last we work on review feature. At first, some features didn't working properly. After solve the problem in our code, now all features working properly.

**5.2 Future Scope:** There is a lot of opportunities to get better. The project might be changed and upgraded into something progressively delightful and easy to use after some time. In the future, we would also like to add more data to test our database to make it more credible for real-world use. The website may be modified and enhanced into something more beautiful and user-friendly over time.

## Chapter 6: Reference

1. Hotel Radisson website – This is the official website of hotel Radisson, [URL:https://www.radissonhotels.com/en-us/hotels/radisson-blu-dhaka](https://www.radissonhotels.com/en-us/hotels/radisson-blu-dhaka).
2. Hotel Pan Pacific website – This is the official website of hotel Pan Pacific, [URL:https://www.panpacific.com/en/hotels-and-resorts/pp-dhaka.html](https://www.panpacific.com/en/hotels-and-resorts/pp-dhaka.html).
3. Online hotel booking features, which features should be include in this website. URL: <https://qloapps.com/top-20-features-for-online-hotel-reservation-system/>
4. Online hotel booking websites. URL: <https://www.booking.com/>