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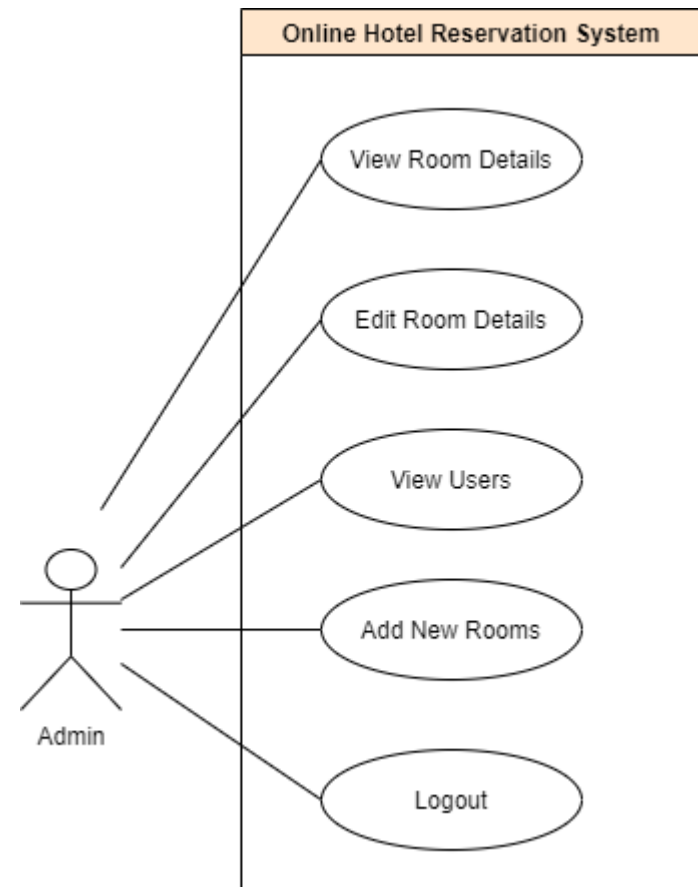
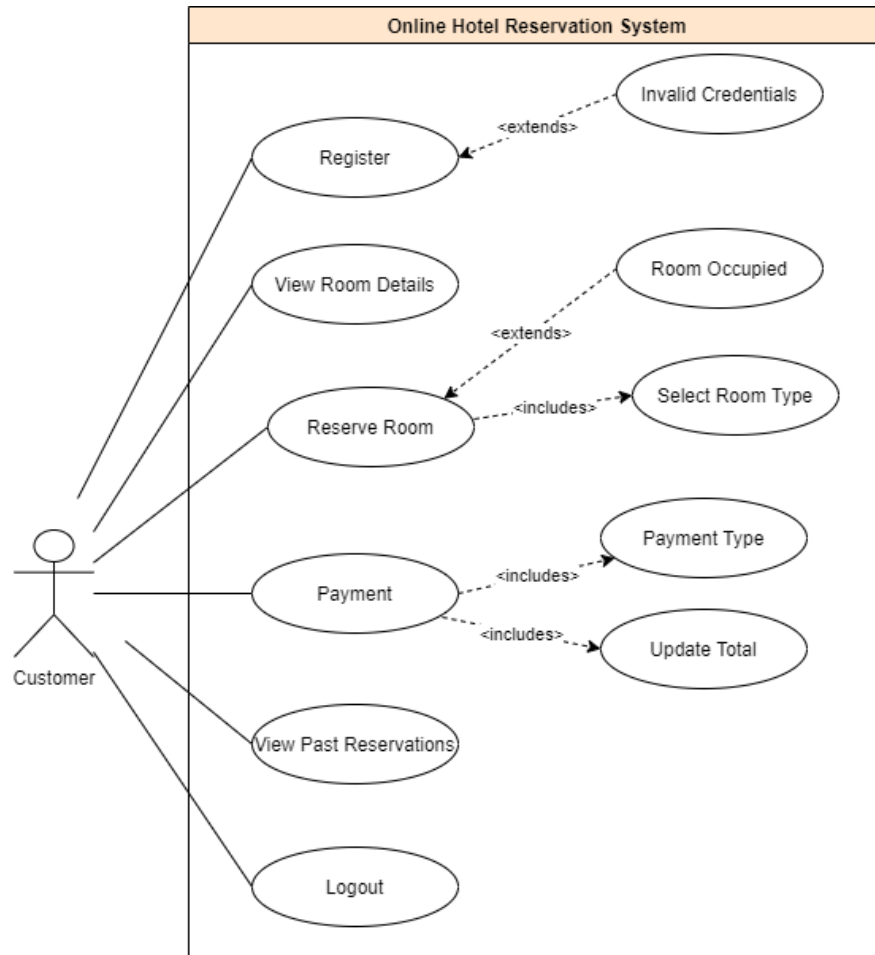
# Introduction

- Our project is a to create a hotel management system which will make booking a hotel a seamless and hassle-free experience.
- It also provides a smooth experience to the admin who is able to view all the information in regards to rooms, reservations and users currently using the system.
- With the increasing trend of “all things online” our system enables that and also reduces person to person contact through a digital method.

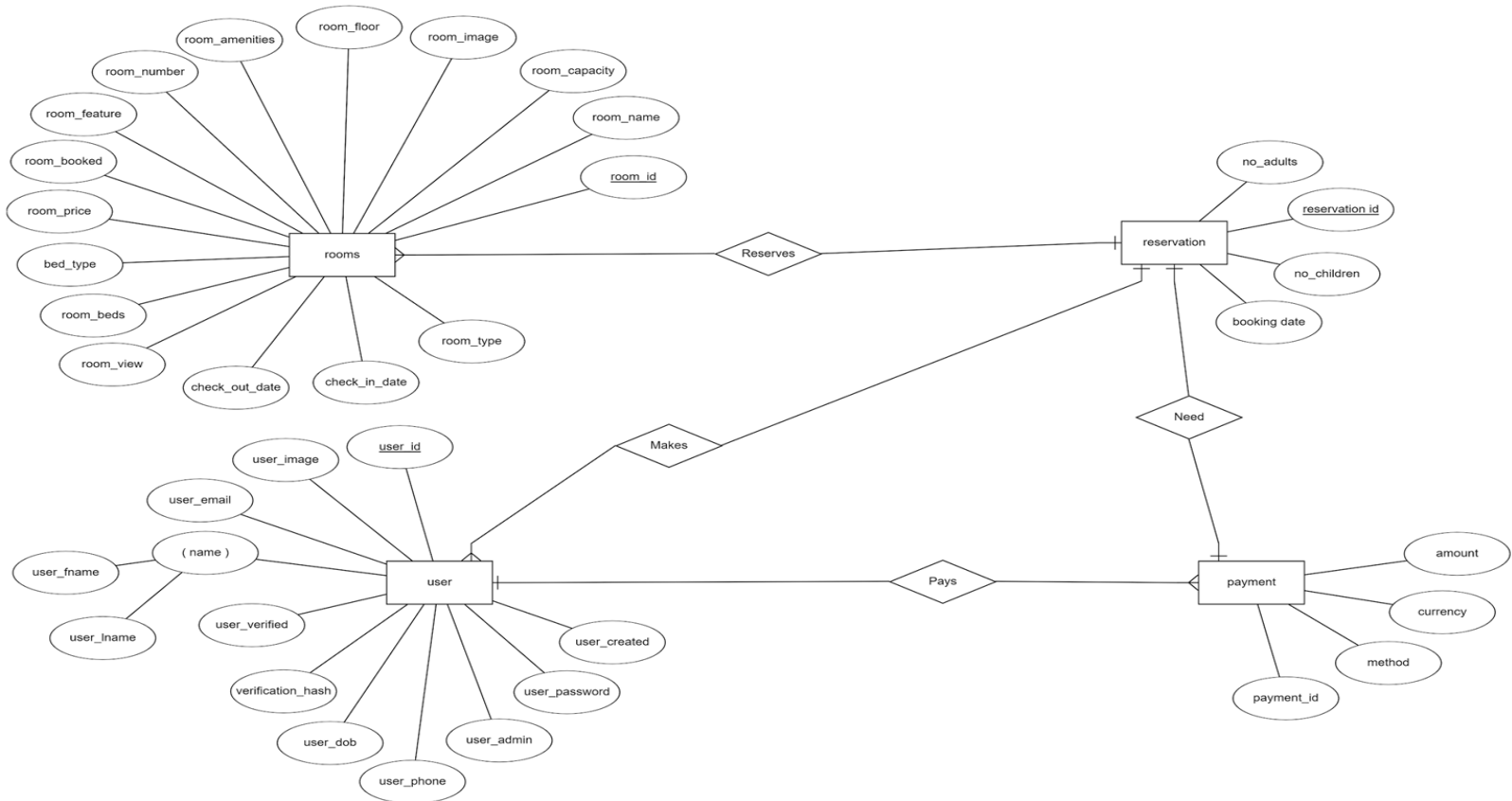
# Problem definition

- The purpose of this project is to make a hotel management system to make it easier to manage rooms in a hotel.
- Rooms can be booked based on their category and the capacity of people. When booking the system checks the check-in and the check-out dates to see if there the room is booked
- Users can book a hotel easily and with a seamless experience.
- An admin user can also manage the details of rooms, view bookings, view users, add rooms and delete rooms.

# System description



# System description



# System description

## USERS

<u>user_id</u>	user_fname	user_lname	user_email	user_verified	verification_hash	user_dob	user_phone	user_admin	user_password	user_image
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## PAYMENT

<u>Payment I.D.</u>	<u>user_id</u>	<u>Reservation I.D.</u>	Currency	Method	Amount
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## RESERVATION


<u>reservation_id</u>	<u>room_id</u>	<u>user_id</u>	booking_date	no_adults	no_children
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## ROOM

<u>room_id</u>	room_number	room_name	room_type	room_featured	room_price	room_booked	check_in_date	check_out_date	room_image	room_floor	room_view	room_beds	bed_type	room_capacity	room_amenities
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# Database Tables

## Room Table

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	<b>room_id</b> 	int(11)			No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	<b>room_number</b>	int(11)			No	None		
<input type="checkbox"/>	3	<b>room_name</b>	varchar(30)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	4	<b>room_type</b>	varchar(30)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	5	<b>room_featured</b>	int(1)			No	None		
<input type="checkbox"/>	6	<b>room_price</b>	double(10,3)			No	None		
<input type="checkbox"/>	7	<b>room_booked</b>	int(1)			Yes	0		
<input type="checkbox"/>	8	<b>check_in_date</b>	date			Yes	NULL		
<input type="checkbox"/>	9	<b>check_out_date</b>	date			Yes	NULL		
<input type="checkbox"/>	10	<b>room_image</b>	varchar(50)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	11	<b>room_floor</b>	int(11)			No	None		
<input type="checkbox"/>	12	<b>room_view</b>	varchar(20)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	13	<b>room_beds</b>	int(11)			No	None		
<input type="checkbox"/>	14	<b>bed_type</b>	varchar(30)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	15	<b>room_capacity</b>	int(11)			No	None		
<input type="checkbox"/>	16	<b>room_amenities</b>	varchar(200)	utf8mb4_general_ci		No	None		

# Database Tables




## User Table

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	<b>user_id</b> 	int(11)			No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	<b>user_email</b>	varchar(50)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	3	<b>user_fname</b>	varchar(20)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	4	<b>user_lname</b>	varchar(20)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	5	<b>user_verified</b>	int(1)			No	0		
<input type="checkbox"/>	6	<b>verification_hash</b>	varchar(500)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	7	<b>user_dob</b>	date			No	None		
<input type="checkbox"/>	8	<b>user_phone</b>	varchar(15)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	9	<b>user_admin</b>	int(1)			No	0		
<input type="checkbox"/>	10	<b>user_password</b>	varchar(500)	utf8mb4_general_ci		No	None		
<input type="checkbox"/>	11	<b>user_created</b>	timestamp			No	current_timestamp()		
<input type="checkbox"/>	12	<b>user_image</b>	varchar(20)	utf8mb4_general_ci		No	default_user.jpg		






# Database Tables

## Reservation Table

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	<b>reservation_id</b> 	int(11)			No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	<b>user_id</b> 	int(11)			Yes	NULL		
<input type="checkbox"/>	3	<b>room_id</b> 	int(11)			Yes	NULL		
<input type="checkbox"/>	4	<b>booking_date</b>	date			Yes	NULL		
<input type="checkbox"/>	5	<b>no_adults</b>	int(11)			Yes	NULL		
<input type="checkbox"/>	6	<b>no_children</b>	int(11)			Yes	NULL		
<input type="checkbox"/>	7	<b>reservation_created</b>	timestamp			No	current_timestamp()		

## Payments Table

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	<b>payment_id</b> 	int(11)			No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	<b>user_id</b> 	int(11)			No	None		
<input type="checkbox"/>	3	<b>reservation_id</b> 	int(11)			No	None		
<input type="checkbox"/>	4	<b>currency</b>	varchar(5)	utf8mb4_general_ci		Yes	INR		
<input type="checkbox"/>	5	<b>method</b>	varchar(10)	utf8mb4_general_ci		Yes	card		
<input type="checkbox"/>	6	<b>amount</b>	int(11)			Yes	NULL		

# Hardware & software requirements

## Software Requirements:

- Development Tools:
  - Front End : HTML, CSS, JAVASCRIPT, JQUERY, BOOTSTRAP
  - Back End : PHP, MySQL
- Operating System : Windows 10/11
- Web server : XAMPP
- Text Editor: VS Code



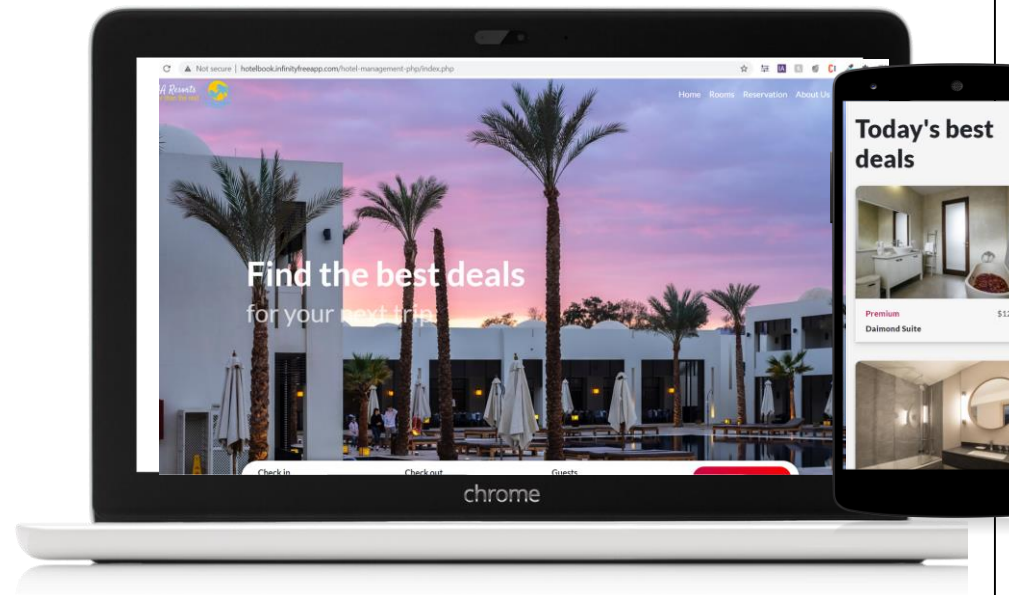
# Hardware & software requirements

## Hardware Requirements

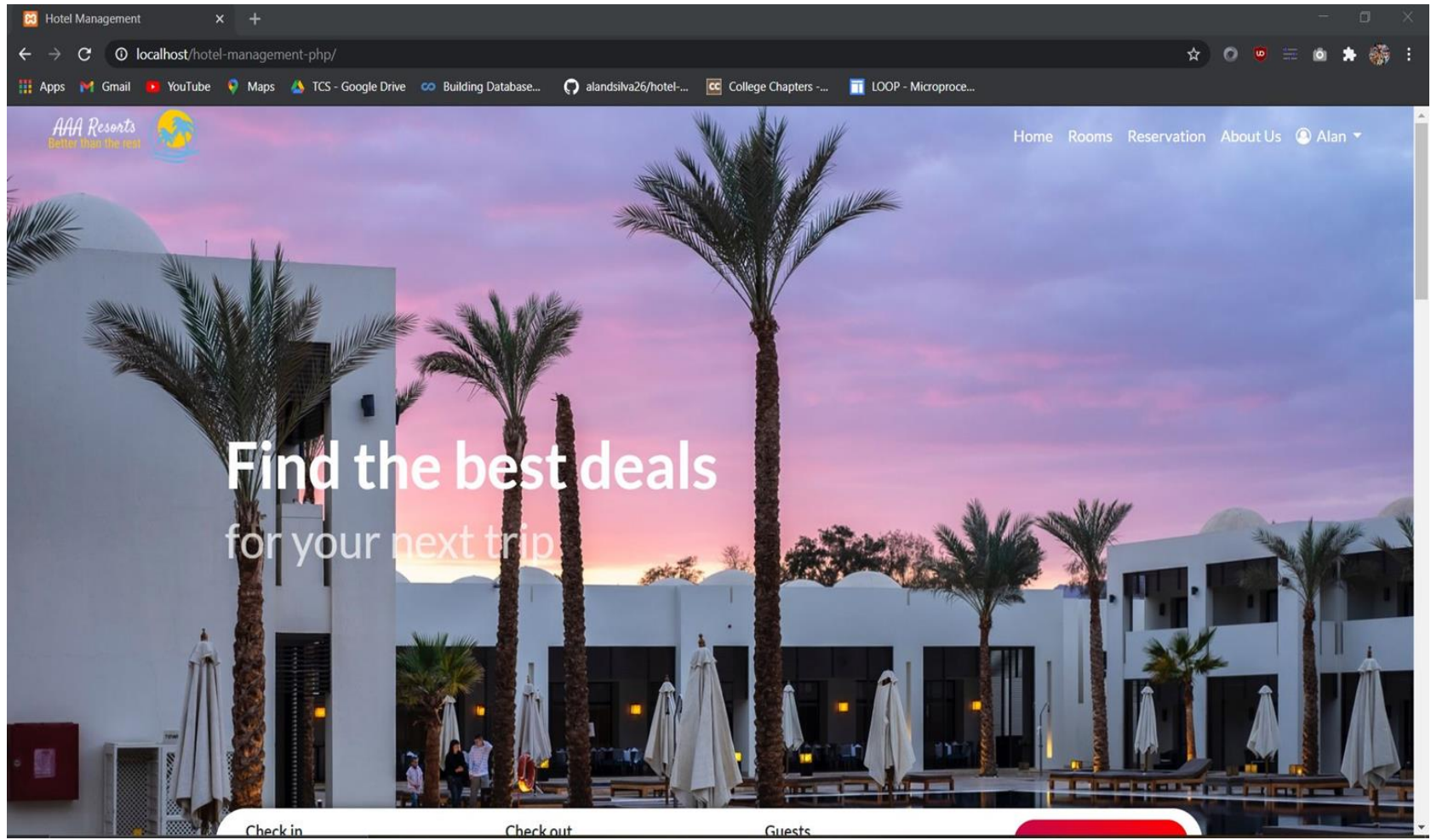
- I/O devices
  - Monitor
  - Keyboard
- Modern Computer with Modern Web Browser
- Internet Connection

# User Interface Design

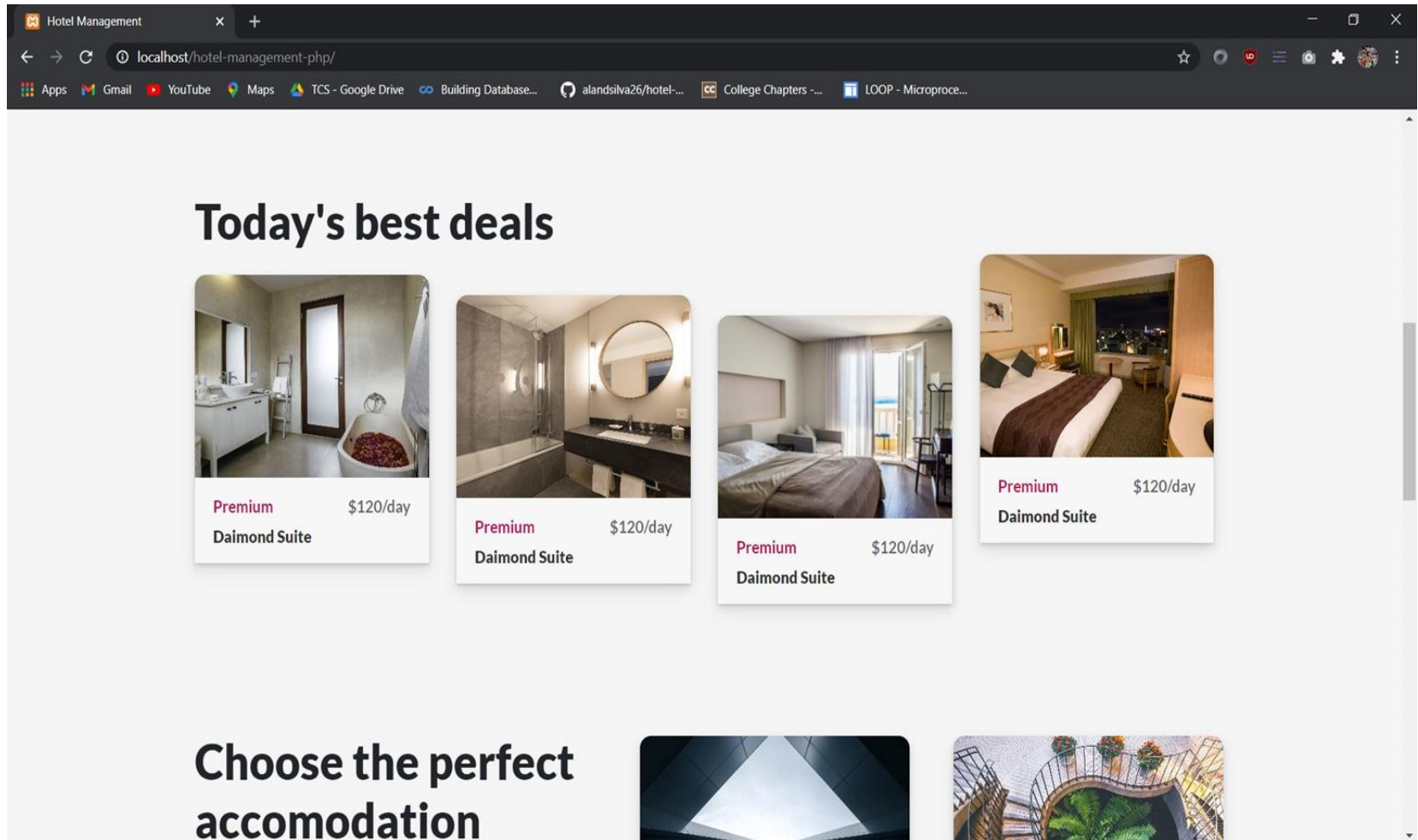
## Hotel Management System



# Homepage



# Homepage

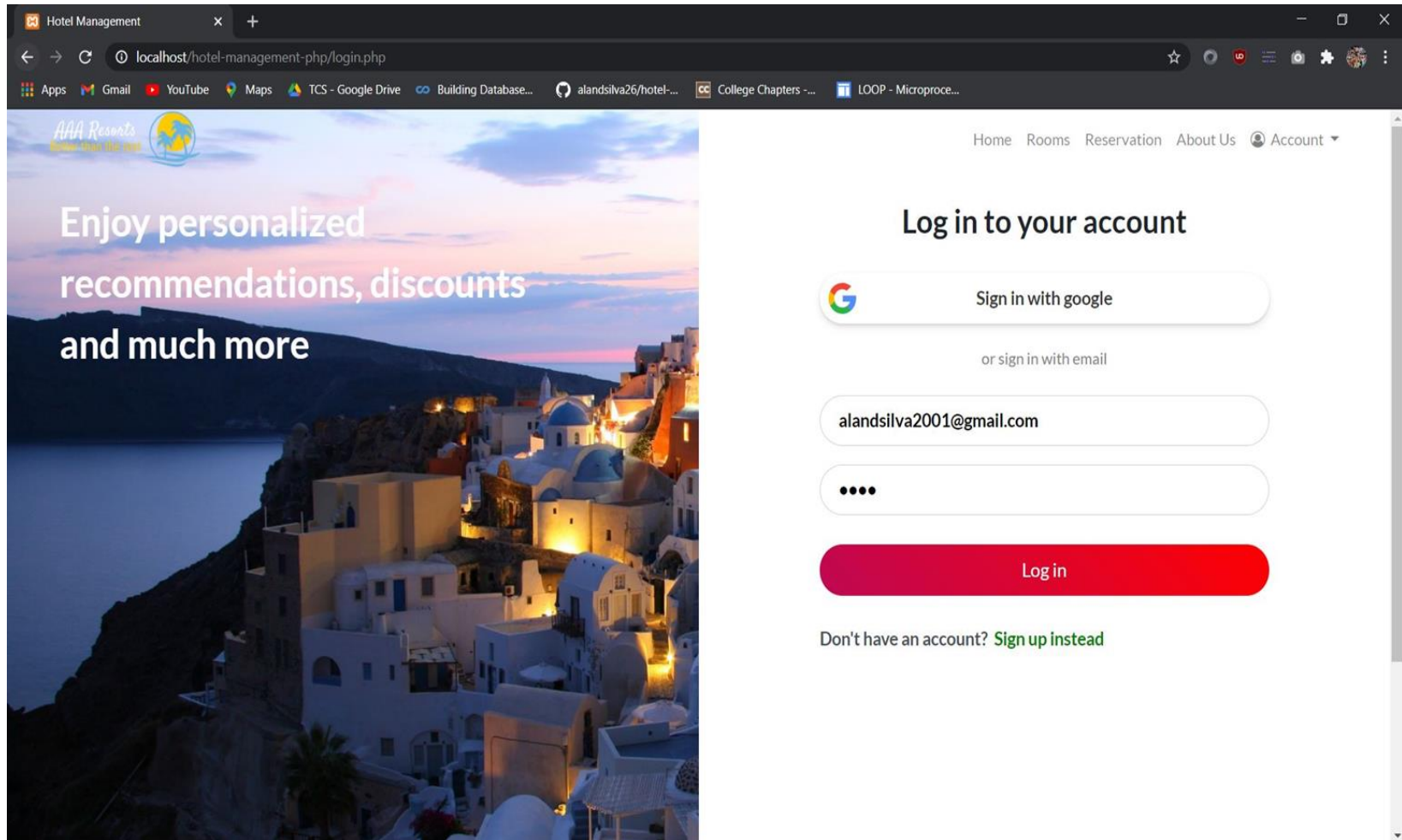




# Sign Up

The screenshot displays a web browser window with the title 'Hotel Management'. The address bar shows the URL 'localhost/hotel-management-php/signup.php'. The browser's tab bar includes links to 'Apps', 'Gmail', 'YouTube', 'Maps', 'TCS - Google Drive', 'Building Database...', 'alandsilva26/hotel...', 'College Chapters - ...', and 'LOOP - Microproce...'. The main content area is divided into two sections. The left section features a large banner with a sunset over a coastal town and the text 'Set up your account in 3 simple steps'. Below this text are three pink buttons labeled 'Phone number', 'Personal info', and 'Credentials', connected by a vertical line. The right section is titled 'Sign up' and contains a form with two input fields: one for email (containing 'alandsilva2001@gmail.com') and one for password (containing four dots). Below the input fields are two buttons: 'Back' and 'Signup'. At the bottom of the right section, there is a link that says 'Already have an account? [Login here](#)'.

# Login



Hotel Management

localhost/hotel-management-php/login.php

AAA Resorts

Enjoy personalized recommendations, discounts and much more

Home Rooms Reservation About Us Account

## Log in to your account

Sign in with google

or sign in with email

alandsilva2001@gmail.com

.....

Log in

Don't have an account? [Sign up instead](#)



# Reservation

Hotel Management

localhost/hotel-management-php/reservation.php

Apps Gmail YouTube Maps TCS - Google Drive Building Database... alandsilva26/hotel-... College Chapters -... LOOP - Microproce...

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Home Rooms Reservation About Us Alan

## Make your reservation

Our hotel is self-certified to follow a series of precautionary measures to make your hotel stay safe and healthy.

Check In

Check out

Room  
Select Room

Adults

Children

[Continue to payment](#)

**Hotel Lemon**  
[About us](#)  
[Developers](#)

**Links**  
[Rooms](#)  
[Services](#)  
[About](#)  
[News](#)

**Get in touch**  
[Toll Free no.](#)

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# View Rooms

The screenshot shows a web browser window with the address bar displaying `localhost/hotel-management-php/rooms.php`. The browser's address bar and tabs are visible at the top. The website's header includes the logo for "AAA Resorts" and a navigation menu with links for Home, Rooms, Reservation, About Us, and a user profile for Alan. The main content area is titled "Our finest collection of rooms" and features four room cards arranged in a 2x2 grid. Each card includes a room photo, a list of details (View, Bed type, Capacity, Amenities), a "Room Details" button, the room name, and the price per day.

Room Name	View	Bed type	Capacity	Amenities	Price/day
Daimond Daimond Suite	Beach	Double deluxe	4	breakfast, lunch, dinner, wifi	\$538.220
Silver Daimond Suite	Beach	Double deluxe	4	breakfast, lunch, dinner, wifi	\$538.220
Gold Ocean View Suite	Ocean	Queen Bed	2	Ocean View, Wifi, Double bathroom	\$788.000
Premium Premium	Ocean	Queen Bed	3	Ocean View, Wifi, Double bathroom, hairdryer	\$674.000

# Room Details


Hotel Management

localhost/hotel-management-php/roomdetails.php?room\_id=2

Apps Gmail YouTube Maps TCS - Google Drive Building Database... alandsilva26/hotel... College Chapters -... LOOP - Microproce...

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Home Rooms Reservation About Us Alan



### Reviews

Users

Lorem ipsum dolor sit amet consectetur, adipisicing elit. Eos illum veniam qui veritatis praesentium voluptates atque enim quia exercitationem ipsa quaeat, delectus officia dolore rem consequatur nesciunt. Ullam, consequuntur necessitatibus

Users

Lorem ipsum dolor sit amet consectetur, adipisicing elit. Eos illum veniam qui veritatis praesentium voluptates atque enim quia exercitationem ipsa quaeat, delectus officia dolore rem consequatur nesciunt. Ullam, consequuntur necessitatibus

## Diamond Suite

Starts from:something here...

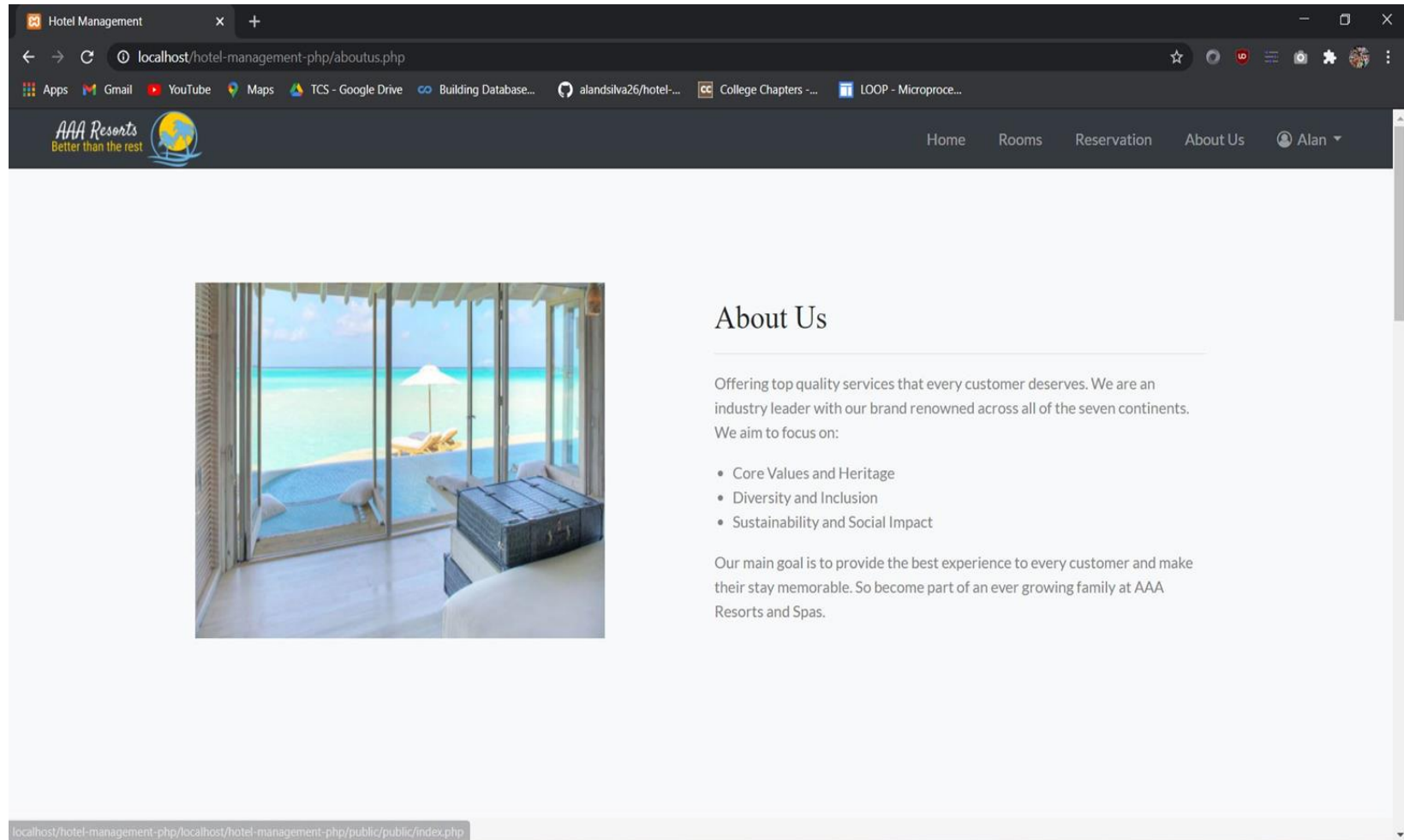
2 bedroom

Diamond Suite  
bathroom

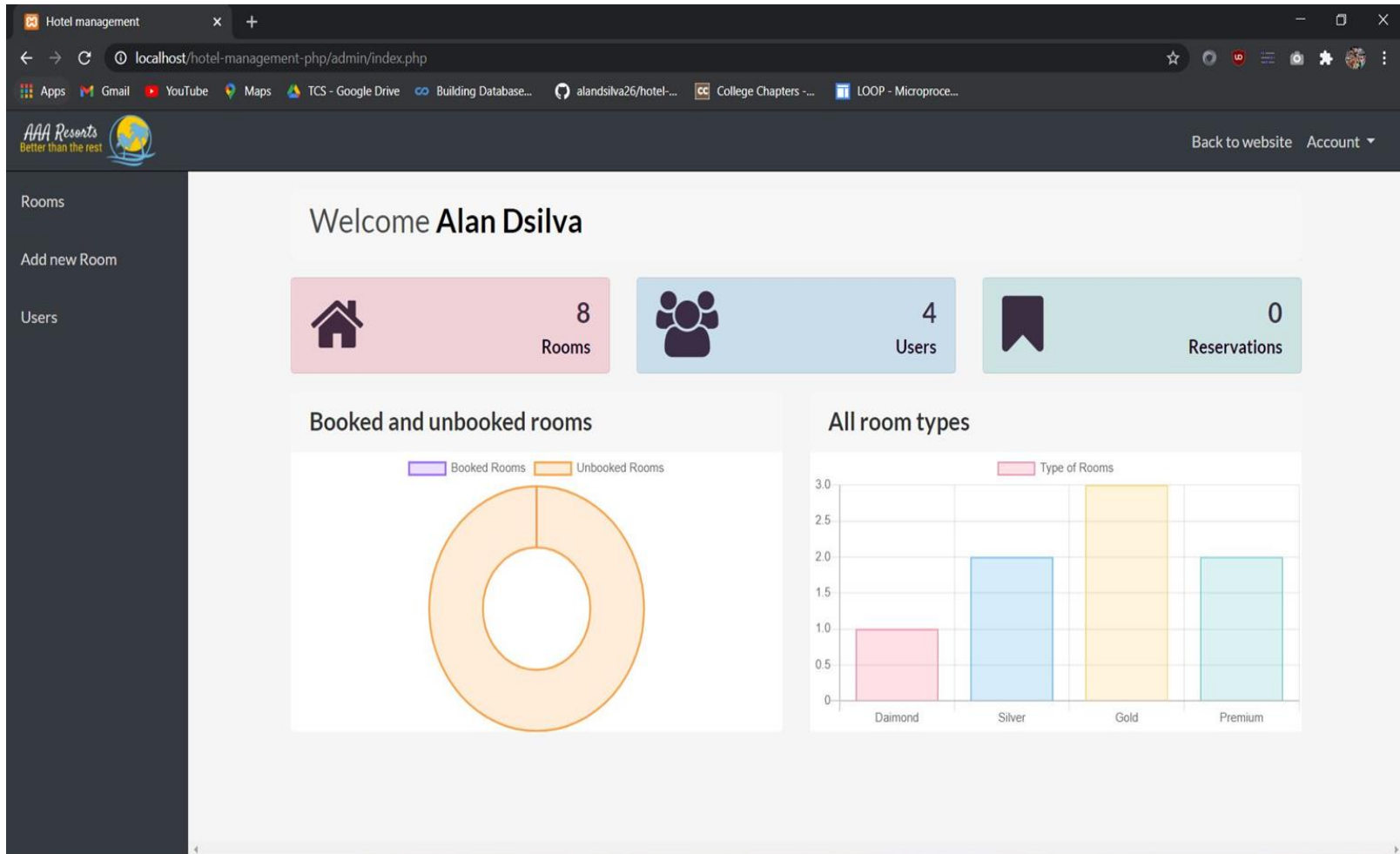
1250 sq.ft

Highly Secured

# About Us



# Admin Panel



























# Admin Panel - Edit Rooms

Hotel management

localhost/hotel-management-php/admin/rooms.php

AAA Resorts  
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Back to website Account

Rooms	No.	Name	Type	Featured	Image	Price	Booked	Check in	Check out	Floor	View	Beds/ Type	Cap.	Actions
Add new Room	101	Daimond Suite	Daimond	Featured		538.220	No	-	-	2	Beach	2 / Double deluxe	4	 / 
Users	101	Daimond Suite	Silver	Featured		538.220	No	-	-	5	Beach	2 / Double deluxe	4	 / 
	202	Ocean View Suite	gold	Not Featured		788.000	No	-	-	2	Ocean	3 / Queen Bed	2	 / 
	303	Premium	Premium	Featured		674.000	No	-	-	3	Ocean	2 / Queen Bed	3	 / 
	202	Ocean View Suite	gold	Not Featured		788.000	No	-	-	2	Ocean	3 / Queen Bed	7	 / 
	202	Ocean View Suite	Silver	Featured		788.000	No	-	-	2	Ocean	3 / Queen Bed	7	 / 
	202	Ocean View Suite	Gold	Featured		788.000	No	-	-	2	Ocean	3 / Queen Bed	7	 / 
	202	Ocean View Suite	Premium	Featured		788.000	No	-	-	2	Ocean	3 / Queen Bed	7	 / 



# Feedback

Hotel Management

localhost/hotel-management-php/survey.php

Apps Gmail YouTube Maps TCS - Google Drive Building Database... alandsilva26/hotel-... College Chapters -... LOOP - Microproce...

AAA Resorts  
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Home Rooms Reservation About Us Alan

## Feedback

1.What was your first impression when you entered the website?

2. How did you first hear about us?

3. Is there anything missing on this page?

4. How likely are you to recommend us to a friend or colleague?

0 5

# Applications of the System

This system will be performing the following tasks:

- The system will provide an interface to login and register.
- Check the features of the room along with a pictorial view.
- Rooms can be booked based on their category and the capacity of people.
- An admin user can also manage the details of rooms, view bookings, add rooms and delete rooms.
- A created account includes the information such as date of birth, name, phone-number, email and a password. All this data is stored in the database.
- Password storage is also done using an encrypted hash. Email verification is also done using a verification hash.



# Conclusion

- The Hotel Management system is a web based application. The main aim in this project was to make it seamless to book rooms at a hotel. It also is aimed to make the managing of the rooms and users easy and hassle free for the admin.
- An appealing and intuitive user interface along with graphical representation of room information makes the user experience enjoyable for both customer and admin.

# Future Scope

- The system can be used by both large scale and small scale hotels.
- There is future scope of booking room service or other amenities to the room
- Expanding the project to include a chain of hotels.
- Adding an employee management system.

# Literature Cited(book and web References)

- <https://www.w3schools.com/>
- <https://getbootstrap.com/>
- <https://github.com/PHPMailer/PHPMailer>
- [www.coursera.com](http://www.coursera.com)
- <https://github.com/mpdf/mpdf>
- [www.youtube.com](http://www.youtube.com)