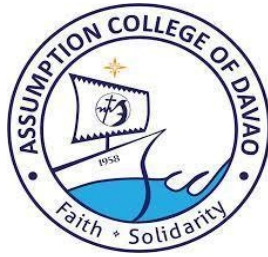


“Hotel Reservation and Booking”



A Final Performance Task Project Presented to the Faculty of the Information of
Technology Program

Assumption College of Davao

Davao City

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Marc Russel Eng
Michael Jude Estrada
Arzay D. Fernandez
Kim C. Labor
Rey Tagle

Submitted to:

Mr. Jerome Dela Peña, Instructor

May 2024

Table of Contents

Project Initiation	1
Introduction	1
Problem with the current system	1
Proposed solution on the system	2
Purpose	2
Existing Feature	2
Scope of the Proposed System	3
System Development Methodology	3
Technology Used for the Application	3-5
What can be done with the Application	5
Preliminary Investigation	5
System Analysis	5-8
ERD of Hotel Management	8
Login Form	9
Home Page Form	9
Navigation Form of the Home Page	10
Add User Form	10
Change Password Form	10
User Type	11
User Status Entry Form	12
Hotel Information Form	13
Room Entry Form	13
Bed Type Entry Form	14
Room Selection Customer Information Entry Form	15-16
Reports	16-17
Conclusion	17
Appendix	17-19
Reference	19-21

Project Initiation:

In the very beginning we discussed this project and we started sharing ideas such as brainstorming. We conducted this project a Hotel Management that our professor suggested and instructed us to make a system like this. The moment that we started making it gave us a challenge because it's our first time to make a big project and it's our starting for us to be prepared for the 3rd year projects. In the first place we are struggling on making it but still we are confident enough to fix everything by always trying our best.

Introduction:

Hotel management system is a system where people are able to have a reservation for rooms in the hotel that they want. By applying to this system clients should make a reservation through choosing the rooms that they wanted and then after they choose rooms and wanted to have a confirmation of their reservation or booking, clients should fill up a form where they should create/register an account to that website and if the clients have already an account they will just login, then the clients reservation/booking will be sent to the admin and the admin will process it then giving a feedback that their reservation is confirmed or accepted. There are a lot of rooms where clients can choose what they like by viewing the picture of the rooms on the website. In the system it has also a form where admin or employee can login so that they are able to do their job such as managing the website which is the confirmation of the clients, because it has a manual function which is calling the customer's number for final confirmation and then lastly the payment.

Problem with the current system:

Our current problem is the CSS. There's something wrong with it because we can't input another code for fixing or adding a design on it, but we are on it. We are trying to fix it and also we do have a problem which is the database of the reservation information and the contact information.

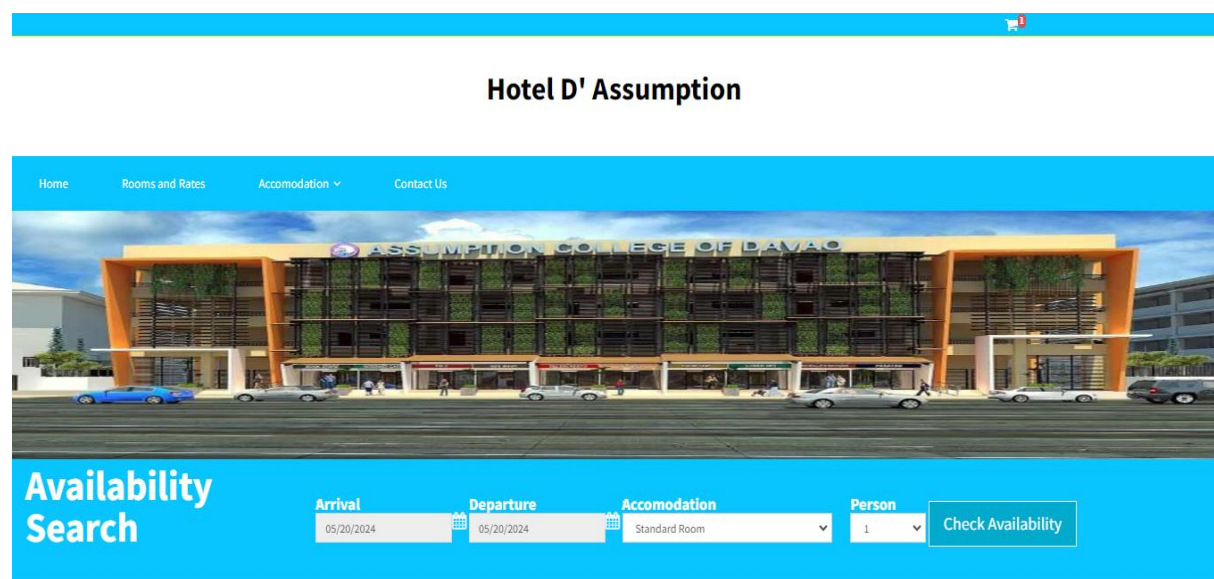
Proposed solution on the system:

By fixing the css and the database first in the css we will make another design feature on that error interface on that which is the Home page interface and then for the database we will do analysis on the code. Maybe we have forgotten to make another file for the database connection.

Purpose:

The purpose of our Hotel Reservation/booking website is to provide travelers with a convenient and efficient platform to find and reserve accommodations for their trips. We aim to simplify the booking process by offering a wide range of accommodation options, presenting detailed information about each hotel, facilitating secure bookings, providing customer support services, and offering value-added features to enhance the overall booking experience. Ultimately, our goal is to make it easier for travelers to plan their trips with confidence and ensure a seamless and enjoyable booking experience.

Existing Feature:



The screenshot displays the website for Hotel D' Assumption. At the top, there is a navigation bar with links: Home, Rooms and Rates, Accomodation (with a dropdown arrow), and Contact Us. Below the navigation bar is a large banner image of the hotel building, which is a modern structure with a glass facade and a sign that reads "ASSUMPTION COLLEGE OF DAVAO". Below the banner is a blue section titled "Availability Search". This section contains a form with the following fields: "Arrival" (with a date picker set to 05/20/2024), "Departure" (with a date picker set to 05/20/2024), "Accomodation" (a dropdown menu set to "Standard Room"), and "Person" (a dropdown menu set to "1"). To the right of these fields is a blue button labeled "Check Availability".

About US

Type Of Rooms

Scope of the Proposed System:

The Hotel Management System facilitates online bookings allowing customers to easily book hotel rooms online. It has a good purpose for every traveler client who is in a hurry to have a resting place. That's the case where they can find and access easily just by opening the website of our Hotel Reservation where they can reserve rooms. This system is very popular for every hotel owner, they do have this kind of system but don't have the same functionality, because in our system we do have a good service such as a fast transaction with the client just by applying or filling out the requested information form. This system focuses on clients who are living far away and wanting to have a reserved room to have a rest after traveling so far. Prioritize the security and privacy of guest information, implementing measures to safeguard personal data. Admin Dashboard provide hotel staff with comprehensive tools to manage room inventory, view bookings, and communicate with guests, streamlining operations and enhancing efficiency.

System Development Methodology:

By developing the system we manage to have an idea to create a good transaction between the client with this process which is the confirmation, reservation and booking of the client. But after confirming that clients should login as a user where they should fill out the requested information form by confirming their names and contact details and then for the admin employees are able to login as an admin to access the system to process the booking or reservation of the client. Enable users to easily make reservations by selecting desired rooms, specifying check-in/check-out dates, and providing necessary personal information. It also provides users with the ability to view their booking details, including reservation dates, room information, and total cost.

Technology used for the application:

Frontend:

HTML (Hypertext Markup Language): HTML is the standard markup language used to create the structure and content of web pages. It defines the layout of the content, including headings, paragraphs, images, links, etc.

CSS (Cascading Style Sheets): CSS is used to style the HTML elements, controlling aspects such as layout, colors, fonts, and spacing. It enhances the visual presentation of the website.

Bootstrap: Bootstrap is a popular front-end framework for building responsive and mobile-first websites. It provides pre-designed UI components and layout utilities that help streamline the development process.

Tailwind CSS: Tailwind CSS is another front-end framework that provides low-level utility classes for styling. It allows for more flexibility and customization compared to Bootstrap.

Backend:

PHP (Hypertext Preprocessor): PHP is a server-side scripting language primarily used for web development. It handles tasks such as processing form data, interacting with databases, and generating dynamic content.

MySQL: MySQL is a relational database management system (RDBMS) used for storing and managing data. It provides a structured way to organize information in tables and supports SQL queries for data manipulation.

Apache: Apache HTTP Server is the most widely used web server software. It processes incoming HTTP requests and serves static and dynamic content to clients. It's commonly used with PHP for hosting web applications.

Composer: Composer is a dependency manager for PHP that simplifies the process of managing project dependencies and libraries. It allows developers to easily install, update, and autoload PHP packages required for their projects.

Database:

SQL (Structured Query Language): SQL is a domain-specific language used for managing and manipulating relational databases. It allows users to perform operations such as querying data, inserting new records, updating existing records, and deleting records from tables.

Authentication and Authorization:

User Password: This refers to the mechanism used for user authentication, where users can create accounts with usernames and passwords. The passwords are typically stored securely using techniques like hashing and salting to protect user data.

What can be done with the application:

The user would connect to the Internet and create a request to the web server through the application's user interface. The web server would process the request and send it to the right web app server. The web application server would perform the required task and generate the results of the required data. Regarding the functionality of the application this refers to the clients contact information for them applying for the booking or room reservation, it takes a while for them to confirm everything but then it will be worth it because it's just only the security of the hotel and the client.

Preliminary investigation:

For implementing a Hotel Management System (HMS) involves assessing the necessity and feasibility of adopting such a system within the organization. The investigation includes understanding current hotel management processes, identifying key stakeholders, evaluating technology infrastructure, and exploring potential HMS features. Methods such as interviews, surveys, comparative analysis, and technical assessment are utilized to gather insights. Expected outcomes include identifying pain points, stakeholder requirements, assessing feasibility, and making recommendations for further action.

System Analysis:

- **System Overview:**

The hotel booking website serves as a platform for users to search for available rooms, make reservations, and manage bookings online.

- **User Requirements:**

User Types: Customers (guests), Admin (super user), Hotel staffs (hotel receptionist)

Customer Features:

Search for available rooms by date, location, and room type.

View room details, including amenities, photos, and prices.

Make reservations securely and receive confirmation.

Admin Features:

Manage room inventory, including adding, updating, or removing rooms.

View and process bookings, including confirming, modifying, or canceling reservations.

Access reports on booking trends, occupancy rates, and revenue.

- **Functional Requirements:**

User Interface:

Intuitive and user-friendly interface for easy navigation.

Clear presentation of room availability, prices, and booking options.

Search Functionality:

Advanced search filters for refining search results by date, location, amenities, etc.

Booking Process:

Secure payment gateway integration for processing payments.

Instant confirmation emails sent to users upon successful booking.

Admin Dashboard:

Dashboard for managing room inventory, viewing bookings, and generating

reports.

Ability to update room availability, prices, and booking status.

Notifications:

Automated email notifications for booking confirmations, modifications, and cancellations.

- **Non-functional Requirements:**

Performance:

Fast loading times to provide a seamless user experience.

Scalability to handle peak booking periods without downtime.

Security:

Secure data transmission using encryption protocols.

Compliance with data protection regulations (e.g., GDPR).

Reliability:

High availability to ensure the website is accessible 24/7.

Regular backups of data to prevent data loss.

Usability:

Accessibility features to accommodate users with disabilities.

Multilingual support to cater to a diverse user base.

- **Technical Architecture:**

Frontend: HTML, CSS, JavaScript, Bootstrap for user interface

Backend: PHP and MySQL

Database: MySQL for storing user data, room inventory, and bookings

Hosting: Cloud hosting for scalability and reliability

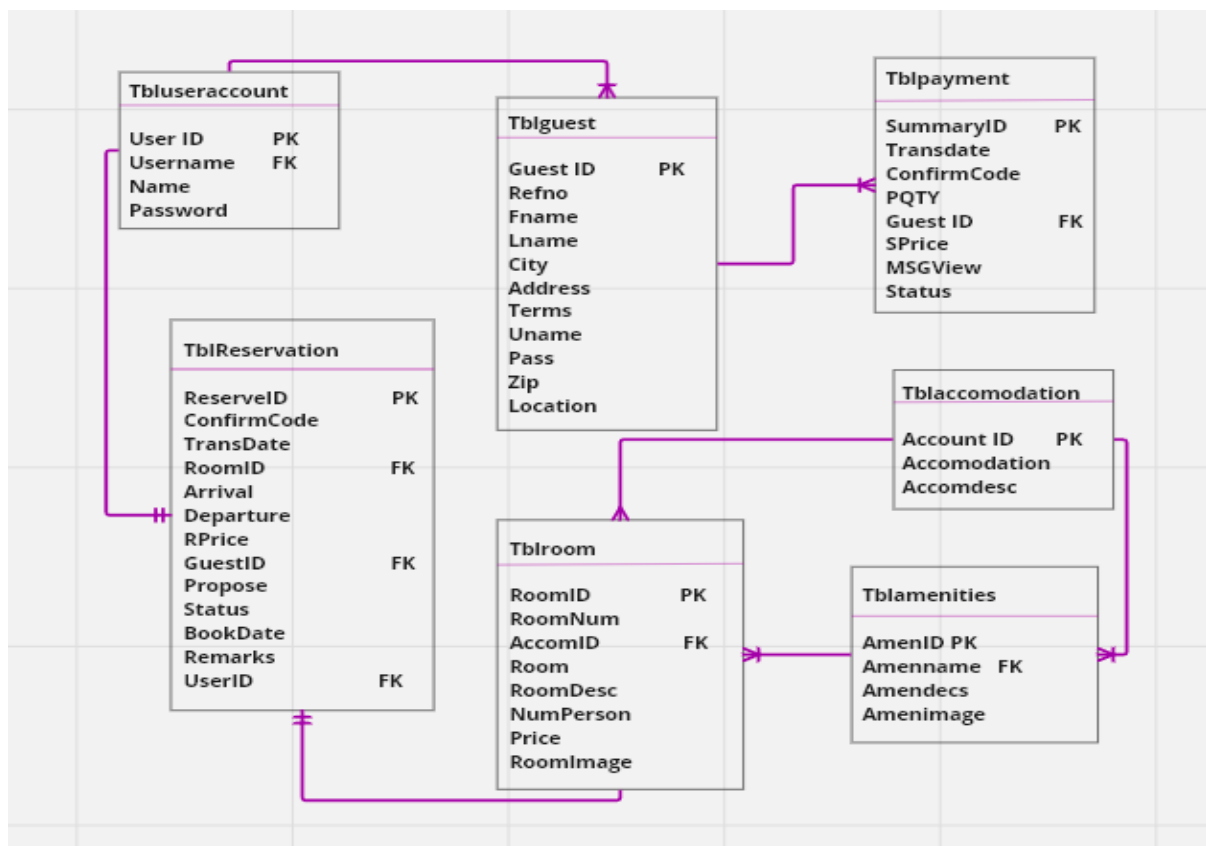
Third-party Integrations: Payment gateway (e.g., Stripe, PayPal)

- **Constraints:**

Budget constraints for development and maintenance.

Time constraints for project completion and launch.

ERD of Hotel Management:



Login Form:

Your Booking Cart

Home / Booking Cart / Verify Accounts

Login

Register

Service Two

Username

Password

☐ Remember Me

Sign In

Home page Form:

Hotel D' Assumption

Home

Rooms and Rates

Accommodation

Contact Us



Availability Search

Arrival

05/20/2024

Departure

05/20/2024

Accommodation

Standard Room

Person

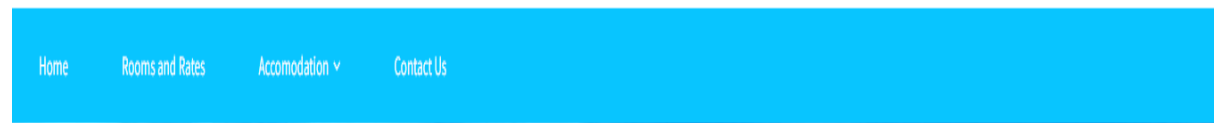
1

Check Availability

About US

Type Of Rooms

Navigation form of the Home Page:



Add User Form:

A screenshot of the 'Add User Form' page. At the top is a blue navigation bar with a shopping cart icon and a red notification badge. Below the bar is the 'Personal Details' section, which contains a list of form fields: FIRST NAME, LAST NAME, CITY, ADDRESS, DATE OF BIRTH (with a calendar icon), PHONE, NATIONALITY, COMPANY, ADDRESS, USERNAME, PASSWORD, and ZIP CODE. Each field is represented by a text input box.

Change Password Form:

A screenshot of the 'Change Password Form' page. At the top is a dark navigation bar with white text links: Home, Rooms, Accomodation, Reservation (2), Reports, Admin Users, and Logout. Below the bar is the 'New User Account' section, which contains a list of form fields: Name (with value 'devteamAdmin'), Username (with value 'devteam'), Password (with value 'Account Password'), Role (with a dropdown menu showing 'Administrator'), and Contact # (with value '2147483647'). A blue 'Save' button is located at the bottom of the form.

User Type: Admin/Employee and User/Client

HomeRoomsAccommodationReservation (2)ReportsAdmin UsersLogout

Administrator Panel

Rooms

Accommodation

Reservation

Users

© Hotel D'Assumption

0

mickey mouser club house

Hotel D' Assumption

HomeRooms and RatesAccommodationContact Us

Availability Search

Arrival

05/20/2024

Departure

05/20/2024

Accommodation

Standard Room


Person

1

Check Availability

User status entry Form:

My Account Account Details

FIRST NAME:	<input type="text" value="mickey mouser"/>
LAST NAME:	<input type="text" value="club house"/>
CITY:	<input type="text" value="club house"/>
ADDRESS:	<input type="text" value="disney"/>
DATE OF BIRTH:	<input type="text" value="2024-05-19"/> 
PHONE:	<input type="text" value="09712124521"/>
NATIONALITY:	<input type="text" value="filipino"/>
COMPANY:	<input type="text" value="cartoon"/>
ADDRESS:	<input type="text" value="television"/>
ZIP CODE:	<input type="text" value="8000"/>

Save

Hotel Information Form:

About US

Hotel D'Assumption Booking is a complete all-in-one online reservation and booking system specially built for any type of accommodations such as hotels, resorts, motels, bed and breakfast, guest houses, lodges, and the like. It is a cloud-based platform and is a commission free hotel reservation system that is easy to use, intuitive and robust. Our hotel reservation system will help you reach and convert guests across the globe!




Contact Info

 J.P. Cabaguio Ave, Agdao, Davao City,
Davao del Sur

 HotelD'Assumption@gmail.com

For Inquiries

 225-0722 / 225-0723

Room Entry Form:

Rooms and Rates

[Home](#) / [Rooms and Rates](#)



Room A

- Standard Room
- without TV
- Number Person : 1
- Remaining Rooms : 1

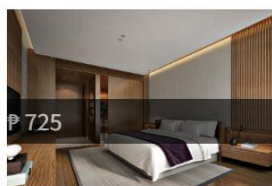
[Book Now!](#)



Room A

- Standard Room
- Without TV
- Number Person : 2
- Remaining Rooms : 3

[Book Now!](#)



Room B & Ground Floor

- Standard Room
- With TV
- Number Person : 1
- Remaining Rooms : 2

[Book Now!](#)



Book a Room

Arrival

Departure

Person

[Check Availability](#)

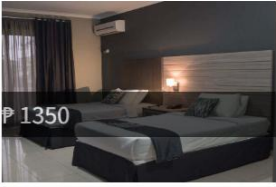
Type of Rooms

Room A
Bayanihan Room
Room B & Ground Floor
RM 223
RM 224
RM 111

Bed Type Entry Form:

Rooms and Rates

Home / Rooms and Rates




₱ 1350

RM 111

- Standard Room
- 1 double & single bed with Hot and Cold Shower
- Number Person : 2
- Remaining Rooms : 3

Book Now!



₱ 1100

RM 111

- Travelers Time
- 1 double & single bed with Hot and Cold Shower
- Number Person : 2
- Remaining Rooms : 3

Book Now!

Book a Room

Arrival

05/20/2024

Departure

05/20/2024

Person

1

Check Availability

Type of Rooms

Room A

Bayanihan Room

Room B & Ground Floor


RM 223

RM 224

RM 111

Rooms and Rates

Home / Rooms and Rates




₱ 1650

RM 224

- Standard Room
- 2 Beds with TV & Hot and Cold Shower
- Number Person : 2
- Remaining Rooms : 2

Book Now!



₱ 1430

RM 224

- Travelers Time
- 2 Beds with TV & Hot and Cold Shower
- Number Person : 2
- Remaining Rooms : 3

Book Now!

Book a Room

Arrival

05/20/2024

Departure

05/20/2024

Person

1

Check Availability

Type of Rooms

Room A

Bayanihan Room

Room B & Ground Floor


RM 223

RM 224

RM 111

Rooms and Rates

Home / Rooms and Rates




₱ 995

RM 223

- Standard Room
- With TV & Hot and Cold Shower
- Number Person : 2
- Remaining Rooms : 2

Book Now!



₱ 895

RM 223

- Travelers Time
- With TV & Hot and Cold Shower
- Number Person : 2
- Remaining Rooms : 2

Book Now!

Book a Room

Arrival

05/20/2024

Departure

05/20/2024

Person

1

Check Availability

Type of Rooms

Room A

Bayanihan Room

Room B & Ground Floor

RM 223

RM 224

RM 111

 0
 mickey mouser club house

[Home](#)
[Rooms and Rates](#)
[Accommodation](#)
[Contact Us](#)



 0
 mickey mouser club house



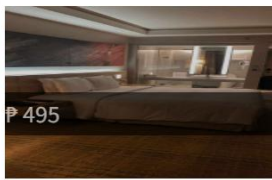
Room B & Ground Floor

- Standard Room
- With TV
- Number Person : 1
- Remaining Rooms : 2



RM 224

- Standard Room
- 2 Beds with TV & Hot
- Number Person : 2
- Remaining Rooms :2



Room A

- Travelers Time
- Without TV
- Number Person : 2
- Remaining Rooms :4



₹ 845

Room B & Ground Floor

- Travelers Time
- With TV
- Number Person : 2
- Remaining Rooms : 3

Book Now!

Room B & Ground Floor

- Travelers Time
- Without TV
- Number Person : 2
- Remaining Rooms : 2

Book Now!

Room B & Ground Floor

- Travelers Time
- Twin Beds with TV
- Number Person : 2
- Remaining Rooms : 3

Book Now!

₱ 675

Room B & Ground Floor

- Travelers Time
- Twin Beds with TV
- Number Person : 2
- Remaining Rooms : 2

Book Now!

₱ 895

RM 223

- Travelers Time
- With TV & Hot and Cold Shower
- Number Person : 2
- Remaining Rooms : 2

Book Now!

₱ 1430

RM 224

- Travelers Time
- 2 Beds with TV & Hot and Cold Shower
- Number Person : 2
- Remaining Rooms : 3

Book Now!

₱ 1100

RM 111

- Travelers Time
- 1 double & single bed with Hot and Cold Shower
- Number Person : 2
- Remaining Rooms : 3

Book Now!

₱ 1250

Bayanihan Room

- Bayanihan Room
- Without TV / for groups - minimum of 5 pax / 250php per person
- Number Person : 5
- Remaining Rooms : 0

Book Now!



Reports:

[Home](#)
[Rooms](#)
[Accomodation](#)
[Reservation \(2\)](#)
[Reports](#)
[Admin Users](#)
[Logout](#)

Hotel D'Assumption Report

Date: 05/20/2024

Room
Search For...

Status

Checkedin
Checkedin
Checkedout
Arrival
Pending
Confirmed

Checkedin
2024-05-20

Checkedout
2024-05-20

Submit

Guest	Room	Price	Arrival	Departure	Night(s)	Subtotal
Total Amount						
Total:					₱	

Print

© Hotel D'Assumption

Reports:

The time when we are out of ideas and looking for suggestions to Bachelor of Science in Hospitality Management (BSHM) students we gain more knowledge of what they suggested for our Hotel Reservation/Booking website. They suggested that we should have sample images of rooms where it displays on the home page where the clients or travelers see it and we humbly applied what they recommended.

Conclusion:

The implementation of a hotel reservation booking management system offers numerous benefits for both hotel staff and guests. Through streamlined booking processes, efficient management of room inventory, and enhanced communication channels, such a system significantly improves operational efficiency while enhancing the overall guest experience. With real-time updates, secure transactions, and seamless integration across multiple platforms, our hotel stands poised to elevate service standards and meet the evolving needs of modern travelers. Embracing this technology not only ensures smoother operations but also fosters loyalty and satisfaction among our valued guests.

Appendix:

Terms and Conditions:

Guests must be at least 18 years old to check in.

No smoking, parties, or events are allowed on the premises.

Check-in time is from 2:00 PM onwards, and check-out time is by 10:00 AM.

Car parking is available on a first-come, first-served basis.

Regular browsing of our website is encouraged for the latest updates and promotions.

Cancellation of bookings and reservations is allowed up to 14 days prior to arrival for a full refund. Please contact us for any cancellation requests.

Room Types and Amenities:

Room Types:

Room A/B - With/Without TV

RM 111 - 223 - 224

Bayanihan Room

Travelers Time

Room B & Ground Floor

Amenities/Services:

Towels

Smart Security

Shop Near

Expert Team

Single Bed/Double Bed

Kitchen

Grocery

BreakFast

24/7 Online Support

Laundry

Shower

Satellite TV

Cleaning

Wifi

Payment Methods:

For testing purposes, our system allows the use of the following payment method details:

Contact Information:

List contact details for customer support, including email addresses, phone numbers, and operating hours. You may also include links to your social media profiles for additional support channels.

Health and Safety Measures:

Our hotel is committed to providing a safe and healthy environment for all guests and staff.

We adhere to all local health guidelines and regulations regarding sanitation, hygiene, and safety.

Enhanced cleaning and disinfection practices are implemented throughout the hotel, with special attention to high-touch surfaces.

Hand sanitizing stations are available in public areas for guests' use.

Social distancing measures are in place in all common areas.

Staff are trained on health and safety protocols and provided with appropriate personal protective equipment (PPE).

Guests are encouraged to practice good hygiene and to notify staff if they feel unwell during their stay.

Reference:

- <https://getbootstrap.com/>
- <https://www.booking.com/customer-service.html/>
- https://www.youtube.com/watch?v=elyKT34nJxY&list=PLRzitPejfZVv0cAoEI_4DuFf2lOoz2Dji
- https://www.youtube.com/watch?v=elyKT34nJxY&list=PLRzitPejfZVv0cAoEI_4DuFf2lOoz2Dji
- https://www.youtube.com/watch?v=m5HO2SZjNoE&list=PLRzitPejfZVv0cAoEI_4DuFf2lOoz2Dji&index=3
- https://www.youtube.com/watch?v=N4vzLbY0eo8&list=PLRzitPejfZVv0cAoEI_4DuFf2lOoz2Dji&index=4
- https://www.youtube.com/watch?v=GWOND94WQNq&list=PLRzitPejfZVv0cAoEI_4DuFf2lOoz2Dji&index=5
- https://www.youtube.com/watch?v=9CHNRA1_GLU&list=PLRzitPejfZVv0cAoEI_4DuFf2lOoz2Dji&index=6

- https://www.youtube.com/watch?v=Af_Kp8IL4do&list=PLRzjtPejfZVv0cAoEI_4DuFf2IOoz2Dji&index=7
- <https://imhotel.com/> - we do inspect to search some example of the features or design.