

Hotel Room Booking Management System



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Key Takeaways/Learnings from the Program (HTD)





- .Net Core MVC Web Application
- Net Core Web API with Entity
 Framework in ASP.NET Core Web
 Applications and Web API
- ASP.NET CORE Identity Entity Framework Core
- Application Deployment using Docker and Kubernetes



Project Description

The Hotel Room Booking Management System is a web-based application that streamlines the process of managing room reservations and guest information for hotels. The system provides customers with the ability to book available rooms while providing hotel staff with efficient tools to manage reservations and room inventory. Additionally, the system includes user authentication and profile management for users



Problem Statement of the Capstone Project

- Rapid growth in the number of customers seeking accommodation services
- Existing manual system is becoming inefficient, cumbersome, and time-consuming
- Lots of errors, double bookings, and customer dissatisfaction
- Need for a web-based hotel room booking application
- Provides a reliable and user-friendly platform for customers
- Enables easy and efficient searching, booking, and managing of hotel reservations for the hotel staffs



Approach Note

(How the candidate approached the program)

- Starting from developing of the system, we start by creating Business Requirements Documentation to support the systems functionality and requirements.
- Usage of Drawi.io for creating the Entity Relationship Diagram and Wireframe of the application
- Development of the application using ASP.Net Core MVC
- Development of Web API
- Deployment of the Application using Docker and Kubernets



Acceptance Criteria

- User authentication using JWT tokens
- Multiple user roles with appropriate dashboards
- Room management including adding, updating, and deleting rooms and setting room details
- Booking management with availability checking and room booking
- User management including adding, updating, and deleting users and assigning user roles
- Profile management allowing users to update their information
- Error handling and security to protect user data
- Performance and scalability to handle high volumes of requests
- Thorough testing to ensure functionality and meet acceptance criteria



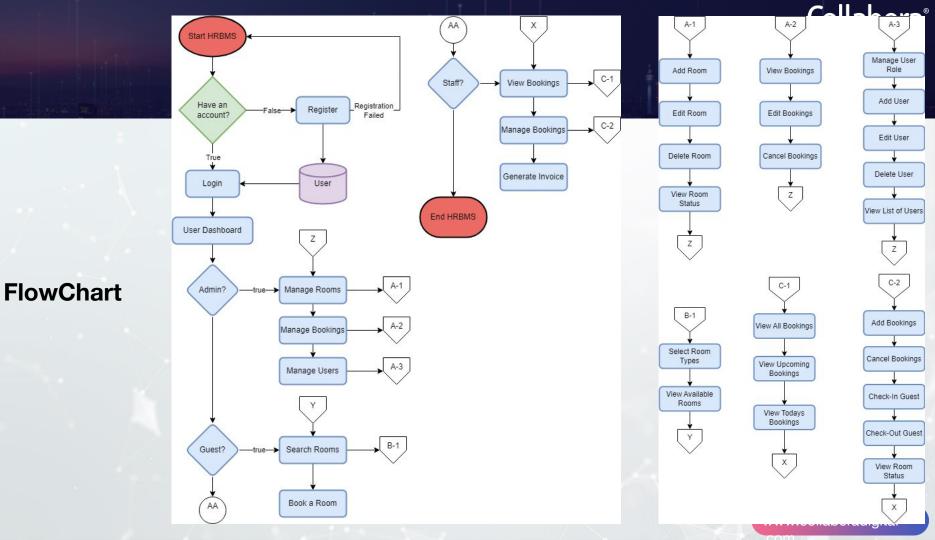
Project Scope

- User Management: login/logout, change password, manage profiles
- Admin Dashboard: manipulate room availability, user credentials, room categories, bookings
- Guest Dashboard: see all available rooms, book available room (no login required)
- Room Management: add, update, delete rooms from inventory
- Booking Management: book a room, provide personal and payment information



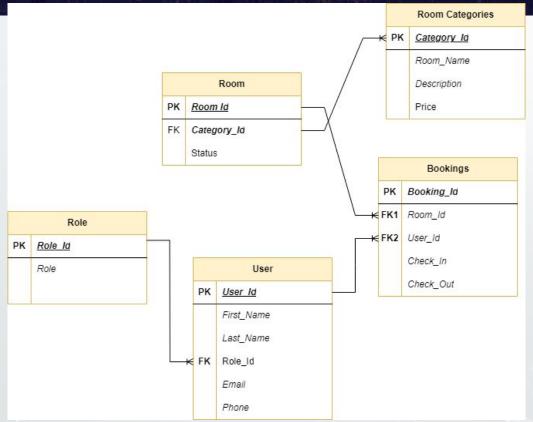
Out Of Scope

- Invoice for processing payments and Integrating with external third-party tools for managing payments like Gcash, Maya Wallet, Paypal, etc.
- Max occupancy for every rooms
- Book rooms base on selected location and date of stay
- Email Verification of the booking which will serve as virtual receipt



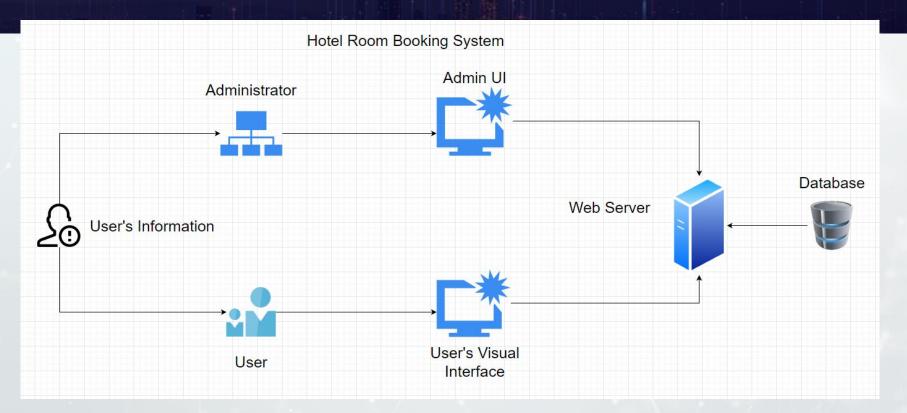
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Entity-Relationship Diagram





System Architecture



- Login, Register View
- Dashboard for User (Guest View)
 - Booking
 - Change Password
- Dashboard for Admin
 - Available Rooms (crud)
 - Room Types or Categories
 - Modifying Users (crud)
 - Booking
 - Rooms





(Frontend, Database, Backend, Key Validations, Functionalities Etc.)

	Login to Your Account
	Enter your username & password to login
Use	ername
Pas	sword
	Remember me
	Login
Don	't have account? Create an account

Hotel Room Booking Hotel Room Bo

First Na	me	
Last Na	me	
Your En	nail	
Your Ph	one Number	
Passwo	rd	
Confirm	Password	

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Important areas of the Project with screenshots

(Frontend, Database, Backend, Key Validations, Functionalities Etc.)

☑ HoBoSys

Hello ivhan deleon!

到 Sign Out







Deluxe

Spacious and luxurious accommodation option that offers guests an elevated level of comfort and sophistication.

₱2,000.00

Book Now!

Normal

Generally designed to accommodate one or two guests, with basic amenities such as a comfortable bed, a clean and well-appointed bathroom, and basic furnishings.

₱1,000.00

Book Now!

Standard

Design with 2 bedrooms and a kitchen

₱2.000.00

Book Now!



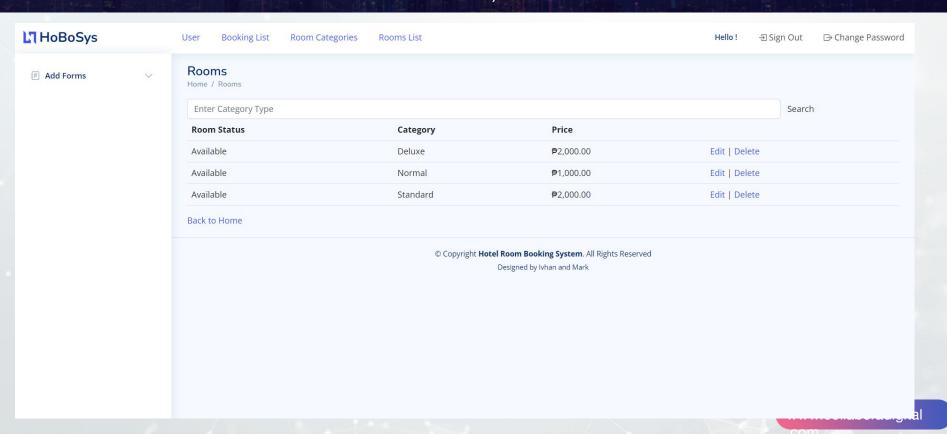
(Frontend, Database, Backend, Key Validations, Functionalities Etc.)

□ HoBoSys		Hello!	튄 Sign Out	
	Current Password			
	Password			
	Confirm Password			
	Create			
	Back to Home			

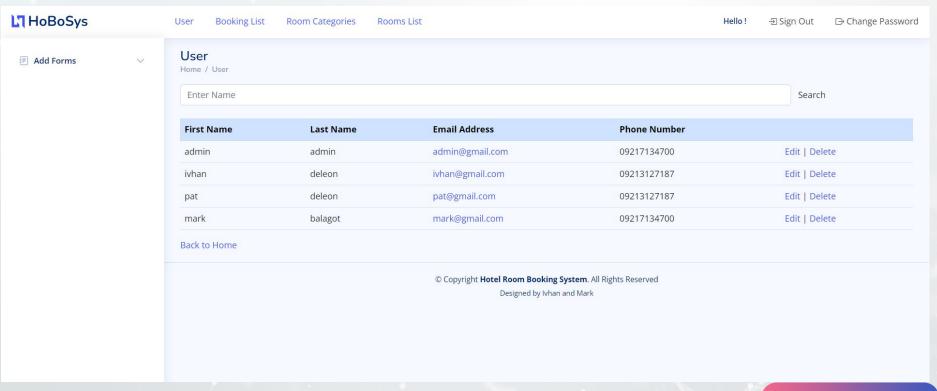
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Designed by Ivhan and Mark





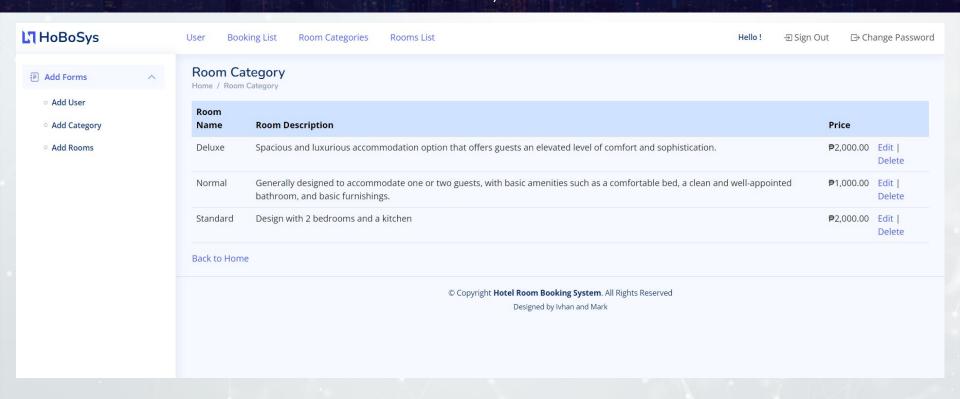




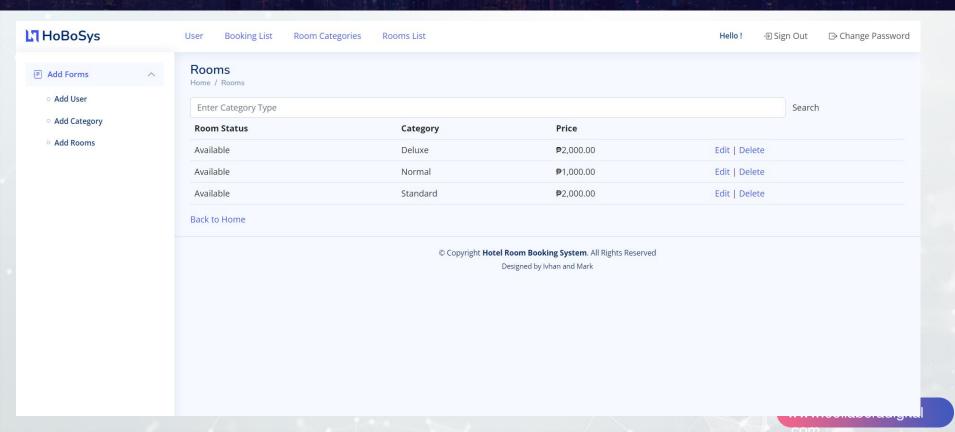


☑ HoBoSys	User Booking List	Room Categories Rooms List			Hello! - Sig	n Out ☐ Change Password
Add Forms V	Bookings Home / Bookings Enter Guest Name Check In	Check Out	End	ıll Name	Room	Search
	Back to Home	Check out	Tu	iii Naille	Koon	
			© Copyright Hotel Room Booking Sys Designed by Ivhan an			











Conclusion

The Hotel Room Booking Management System is an efficient and effective tool for managing hotel room reservations, guest information. It provides a range of features to help hotel staff manage guest bookings and improve the overall guest experience. With its robust security measures, the system ensures that user data is protected at all times.

