

# Seaside Hotel Reservation System

## Made By

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## 1. Project Planning Summary

The Seaside Hotel Reservation System is a web application designed to streamline hotel room booking and management. It allows customers to search for available rooms, view details, make reservations, and complete secure payments. Administrators can manage rooms, room types, and bookings through a dedicated admin panel. The project is developed using ASP.NET Core MVC, Entity Framework Core, ASP.NET Identity, and Stripe integration.

The project follows a 4-week development plan:

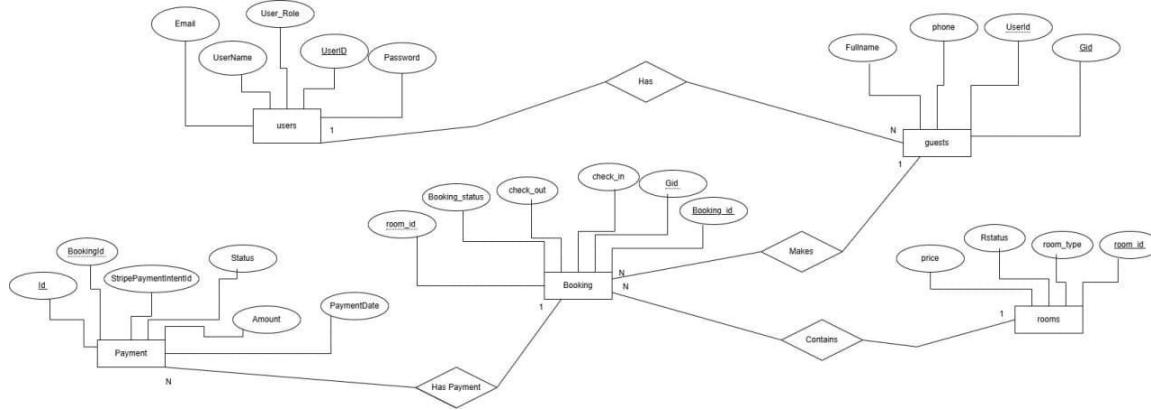
- Week 1 – Architecture Setup and Room Listings: Establish N-Tier architecture, implement repositories, and configure user authentication with ASP.NET Identity.
- Week 2 – Reservation Flow and Admin Panel: Build the reservation cart, role-based access, and admin dashboard.
- Week 3 – Booking Confirmation and Stripe Integration: Add booking confirmation, payment integration, and user profiles.
- Week 4 – Health Checks, Logging, and Final Testing: Implement health checks, structured logging, and final UI polish.

Key deliverables include a fully functional web application with clean architecture, database integration, secure payments, and responsive user interfaces for both customers and administrators.

## 2. Stakeholder Analysis

Stakeholder	Role	Interest
Project Manager	Oversees planning and execution	Ensures timely delivery and quality
Developers	Build and maintain the system	Efficient development and code quality
Hotel Admin	Manages rooms, types, and bookings	Ease of use and reliability
Customers	Book rooms via the web app	User-friendly interface and secure booking
QA/Testers	Test and validate system functionality	Bug-free and stable release

### 3. ERD (Entity Relationship Diagram)



### 4. Database Description

The database is designed using Entity Framework Core and follows the principles of relational design. It includes the following main entities:

- **Users** – Stores customer and admin details managed by ASP.NET Identity.
- **RoomTypes** – Defines categories of rooms (e.g., Deluxe, Suite) with pricing details.
- **Rooms** – Represents individual rooms linked to a RoomType.
- **Bookings** – Records reservations made by users, including check-in/check-out dates and room assignments.
- **Payments** – Stores payment transaction details, integrated via Stripe API.

Relationships:

- One RoomType can have many Rooms.
- One User can make multiple Bookings.
- Each Booking is linked to one Room and one Payment.
- Payments are uniquely associated with each Booking.

### 5. UI/UX Design Overview

The Seaside Hotel Reservation System features a clean, modern, and responsive user interface built using Bootstrap and jQuery. The design prioritizes ease of use, clarity, and accessibility to ensure a smooth user experience for both customers and administrators.

The screenshot shows the homepage of the Seaside Hotel website. At the top, there's a navigation bar with links for Home, Rooms, About, Contact, and Book Now. Below the navigation is a large banner featuring a scenic beach and ocean view with the text "Welcome to Seaside Hotel" and "Luxury & Comfort by the Ocean". A "Book Your Stay" button is located in the lower right corner of the banner. To the left of the banner is a thumbnail image of a bedroom. To the right of the banner, under the heading "About Us", is a brief description of the hotel's atmosphere and location, followed by a "Learn More" button. Below this section is a heading "Our Rooms" with three room options: Deluxe Room, Ocean View Suite, and Family Room, each with a thumbnail image and price information (\$180 / night, \$250 / night, \$210 / night) and a "View Details" button.

Seaside Hotel

Home    Rooms    About    Contact    Book Now

## Welcome to Seaside Hotel

Luxury & Comfort by the Ocean

Book Your Stay

### About Us

Experience luxury and comfort at Seaside Hotel—where every stay feels like home.

Nestled along the pristine coastline, our hotel offers breathtaking views; elegant rooms, and first-class service.

Learn More

### Our Rooms

Room Type	Description	Price
Deluxe Room	Thumbnail image of a bedroom.	\$180 / night
Ocean View Suite	Thumbnail image of a bedroom with an ocean view.	\$250 / night
Family Room	Thumbnail image of a bedroom.	\$210 / night

View Details

The main user interface components include:

- Home Page – Serves as the landing page introducing the hotel and its services, with navigation links to other sections.



## Our Rooms

Choose the perfect room for your stay



### Deluxe Room

Modern and cozy room with a king-size bed

\$160 / night

[Book Now](#)



### Ocean View Suite

Spacious suite with a private balcony overlooking the ocean

\$250 / night

[Book Now](#)



### Family Room

Spacious room with two double beds, ideal for families

\$210 / night

[Book Now](#)



### Single Room

Cozy room perfect for solo travelers

\$120 / night

[Book Now](#)

- Rooms Page – Displays available rooms with filters, images, and pricing details.



SEASIDE HOTEL

- Login Page – Allows registered users and administrators to access their accounts securely.

## Log In

Email Address

Password



Remember me

Log In

[Forgot password?](#)



- Register Page – Enables new customers to create accounts with validation and role assignment.

## Create an Account

Full Name

Email Address

Password

 👁

Confirm Password

**Register**

Already have an account? [Log in](#)