

Mini Project



A Report on

“Hotel Management Website”

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Submitted by-

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Abstract

The Hotel Management System project is a robust web-based application developed to enhance the efficiency and functionality of hotel operations. This system consolidates various hotel services into a unified platform, offering guests a comprehensive and streamlined experience. Some of the key features include the ability to view room availability and prices, explore gym and dining facilities, access contact details, and obtain information about the swimming pool and club areas. Additionally, the system features an intuitive online booking module for room reservations. The project employs HTML for content structuring, CSS for visual styling, and JavaScript for interactive functionalities, ensuring a seamless and user-friendly interface. The report provides an in-depth overview of the system's design, key features, and implementation details, underscoring the use of modern web technologies to optimize and simplify hotel management processes.

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Introduction

The hospitality industry plays a pivotal role in global tourism and travel, necessitating efficient and user-friendly management systems to handle daily operations. Traditional methods of managing hotel operations are often cumbersome, time-consuming, and susceptible to human errors, which can negatively impact guest satisfaction and operational efficiency. With the rapid advancement of digital technologies, there is a growing demand for integrated solutions that streamline hotel operations, enhance customer service, and improve overall guest experiences.

The Hotel Management System project addresses these challenges by providing a web-based solution that integrates various aspects of hotel management into a single, cohesive platform. This system is designed to meet both the operational needs of hotel staff and the service expectations of guests. By offering features such as online room booking, detailed information about hotel facilities, and easy access to contact information, the system ensures that guests have all the necessary information at their fingertips.

The primary objectives of this project are to:

- **Enhance Operational Efficiency:** Automate and streamline the booking process, reducing the workload on hotel staff and minimizing the risk of errors.
- **Improve Guest Experience:** Provide guests with a seamless and informative online platform to explore hotel amenities and make reservations.
- **Centralize Information:** Offer a single point of access for all hotel-related information, making it easier for guests to find what they need.
- **Leverage Modern Technologies:** Utilize HTML, CSS, and JavaScript to create a responsive and interactive website that is accessible from various devices.

This report explores the design and implementation of the Hotel Management System, detailing the structure and functionality of each web page, the underlying code, and the user interface considerations that make the system both effective and user-friendly.

Project Overview

The Hotel Management System is designed with the following features:

Room Booking: Guests can view available rooms and book them online.

Facilities provided:

- Dining Area: Details about the dining facilities.
- Gym Facilities: Information about gym services and equipment.
- Swimming Pool: Information about the swimming pool.
- Club Area: Information on entertainment and relaxation facilities.

Booking Details:

- Payment Method: UPI, credit card, Paypal.
- Check-In/Out: Details on check-in and check-out times.
- Contact Us: Contact information for customer support

System Design

The system comprises multiple web pages, each dedicated to a specific feature. The pages are interconnected through a navigation menu, providing a smooth user experience.

Home Page (index.html)

This page provides complete name , image of our hotel including all the headers of the other respective pages include in the website.

Rooms Page(rooms.html)

This page provides information about the different classes of rooms available in our hotel which includes standard rooms, deluxe rooms, suites with their respective prices and illustrative pictures.

Facilities Page(facilities.html)

This page provides information about the gym , dining area, swimming pool and club area of our hotel and provide illustrative pictures of the respective facilities.

Contact Us Page (contact.html)

This page offers contact information for the hotel, including email and phone number.

Booking Page(booking.html)

This page provides the most important feature of the hotel management website i.e. the main hotel booking system of the website through which the user can book their respective rooms , fill in their personal information , make payment , can fill check in/check out details and get booking confirmation from the hotel website.

Code Highlights

The project is built using HTML for structure, CSS for styling, and JavaScript for interactivity.

HTML Structure

Each HTML file follows a consistent structure, including a header, navigation menu, and content section.

Example: index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Hotel Management System</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Welcome to AGORA HILLS</h1>
  </header>
  <nav>
    <ul>
      <li><a href="index.html">Home</a></li>
      <li><a href="rooms.html">Rooms</a></li>
      <li><a href="facilities.html">Facilities</a></li>
      <li><a href="contact.html">Contact Us</a></li>
      <li><a href="booking.html">Book Now</a></li>
    </ul>
  </nav>
  <main>
    <section class="hero">
      <h2>Experience Luxury, Embrace Comfort</h2>
    </section>
  </main>
  <footer>
    <p>&copy; 2024 Our Hotel. All rights reserved.</p>
  </footer>
  <script src="script.js"></script>
</body>
</html>
```


Example: rooms.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Rooms</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Our Rooms</h1>
  </header>
  <nav>
    <ul>
      <li><a href="index.html">Home</a></li>
      <li><a href="rooms.html">Rooms</a></li>
      <li><a href="facilities.html">Facilities</a></li>
      <li><a href="contact.html">Contact Us</a></li>
      <li><a href="booking.html">Book Now</a></li>
    </ul>
  </nav>
  <main>
    <section>
      <div class="room1">
        <h2>Standard Room</h2>
        <p>Price per night: Rs.2500</p>
        <a href="https://plus.unsplash.com/premium_photo-1670076505453-b62b8cb214da?q=80&w=2070&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8fA%3D%3D">
          <strong>View</strong> </a>
        </div>
      <div class="room2">
        <h2>Deluxe Room</h2>
        <p>Price per night: Rs.5500</p>
        <a href="https://images.unsplash.com/photo-1566665797739-1674de7a421a?q=80&w=1974&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8fA%3D%3D">
          <strong>View</strong> </a>
        </div>
      <div class="room3">
        <h2>Suite</h2>
        <p>Price per night: Rs.10000</p>
        <a href="https://plus.unsplash.com/premium_photo-1661875135365-16aab794632f?q=80&w=1906&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8fA%3D%3D">
          <strong>View</strong> </a>
        </div>
    </section>
  </main>
  <footer>
    <p>&copy; 2024 Our Hotel. All rights reserved.</p>
  </footer>
  <script src="script.js"></script>
</body>
</html>
```

Example: facilities.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Facilities</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Our Facilities</h1>
  </header>
  <nav>
    <ul>
      <li><a href="index.html">Home</a></li>
      <li><a href="rooms.html">Rooms</a></li>
      <li><a href="facilities.html">Facilities</a></li>
      <li><a href="contact.html">Contact Us</a></li>
      <li><a href="booking.html">Book Now</a></li>
    </ul>
  </nav>
  <main>
    <section>
      <div class="facility1">
        <h2>Gym</h2>
        <p>State-of-the-art equipment and personal trainers.</p>
        <a href="https://img.freepik.com/premium-photo/fitness-center-gym-hotel-condominium-sport-people-workout-with-nature-background-generative-ai_10307-2690.jpg?w=900"><strong>View</strong> </a>
      </div>
      <div class="facility2">
        <h2>Dining Area</h2>
        <p>Fine dining with a variety of cuisines.</p>
        <a href="https://images.pexels.com/photos/265947/pexels-photo-265947.jpeg?auto=compress&cs=tinysrgb&w=1260&h=750&dpr=1"><strong>View</strong> </a>
      </div>
      <div class="facility3">
        <h2>Swimming Pool</h2>
        <p>Olympic-size pool with a relaxing ambiance.</p>
        <a href="https://images.unsplash.com/photo-1509600110300-21b9d5fedeb7?q=80&w=2070&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVuZD88fHx8fA%3D%3D"><strong>View</strong> </a>
      </div>
      <div class="facility4">
        <h2>Club Area</h2>
        <p>Exclusive club for members and guests.</p>
        <a href="https://images.unsplash.com/photo-1551632436-cbf8dd35adfa?q=80&w=2071&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVuZD88fHx8fA%3D%3D"><strong>View</strong> </a>
      </div>
    </section>
  </main>
  <footer>
    <p>&copy; 2024 Our Hotel. All rights reserved.</p>
  </footer>
  <script src="script.js"></script>
</body>
</html>
```

Example: contact.html

```

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<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Contact Us</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Contact Us</h1>
  </header>
  <nav>
    <ul>
      <li><a href="index.html">Home</a></li>
      <li><a href="rooms.html">Rooms</a></li>
      <li><a href="facilities.html">Facilities</a></li>
      <li><a href="contact.html">Contact Us</a></li>
      <li><a href="booking.html">Book Now</a></li>
    </ul>
  </nav>
  <main>
    <section class="contat">
      <h2>Get in Touch</h2>
      <p>Email: info@ourhotel.com</p>
      <p>Phone: +123-456-7890</p>
      <p>Address: 123 Hotel Street, City, Country</p>
    </section>
  </main>
  <footer>
    <p>&copy; 2024 Our Hotel. All rights reserved.</p>
  </footer>
  <script src="script.js"></script>

</body>
</html>
```

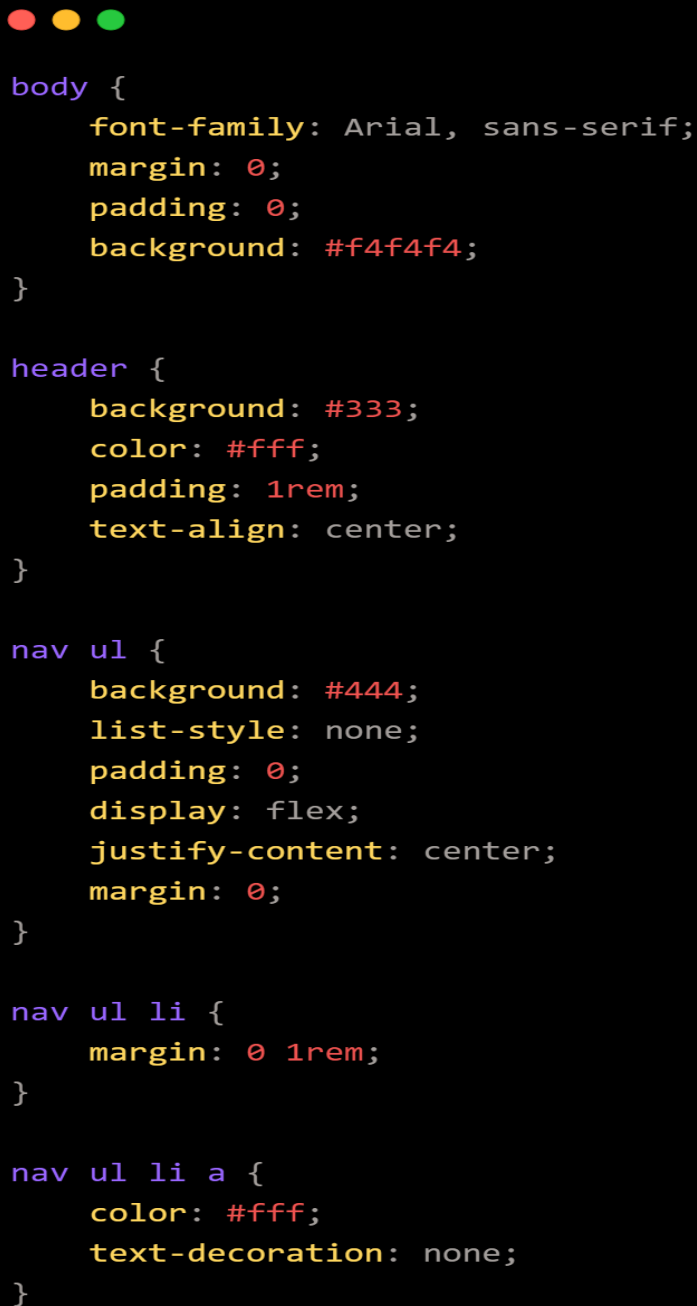
Example: booking.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Book Now</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Book Your Stay</h1>
  </header>
  <nav>
    <ul>
      <li><a href="index.html">Home</a></li>
      <li><a href="rooms.html">Rooms</a></li>
      <li><a href="facilities.html">Facilities</a></li>
      <li><a href="contact.html">Contact Us</a></li>
      <li><a href="booking.html">Book Now</a></li>
    </ul>
  </nav>
  <main>
    <section class="bookin">
      <h2>Book Here</h2>
      <form id="bookingForm">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required>
        <br><br>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>
        <br><br>
        <label for="checkin">Check-in Date:</label>
        <input type="date" id="checkin" name="checkin" required>
        <br><br>
        <label for="checkout">Check-out Date:</label>
        <input type="date" id="checkout" name="checkout" required>
        <br><br>
        <label for="room">Room Type:</label>
        <select id="room" name="room" required>
          <option value="standard">Standard Room</option>
          <option value="deluxe">Deluxe Room</option>
          <option value="suite">Suite</option>
        </select>
        <br><br>
        <label for="payment">Payment Method:</label>
        <select id="payment" name="payment" required>
          <option value="credit">Credit Card</option>
          <option value="paypal">PayPal</option>
          <option value="upi">UPI</option>
        </select>
        <br><br>
        <button type="submit">Book Now</button>
      </form>
    </section>
  </main>
  <footer>
    <p>&copy; 2024 Our Hotel. All rights reserved.</p>
  </footer>
  <script src="script.js"></script>
</body>
</html>
```

CSS Styling

The CSS file defines the look and feel of the website, ensuring a cohesive design across all pages.

Example: style.css



```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  background: #f4f4f4;
}

header {
  background: #333;
  color: #fff;
  padding: 1rem;
  text-align: center;
}

nav ul {
  background: #444;
  list-style: none;
  padding: 0;
  display: flex;
  justify-content: center;
  margin: 0;
}

nav ul li {
  margin: 0 1rem;
}

nav ul li a {
  color: #fff;
  text-decoration: none;
}
```

```
.hero {  
  background: url('https://images.unsplash.com/photo-1542314831-  
    068cd1dbfeeb?q=80&w=2070&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=  
    M3wxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8fA%3D%3D') no-repeat center center/cover;  
  height: 800px;  
  display: flex;  
  align-items: top;  
  justify-content: center;  
  color: #fff;  
  text-shadow: 2px 2px 4px #000;  
}  
  
main {  
  padding: 1rem;  
}  
  
.room1 {  
  background: url('https://plus.unsplash.com/premium_photo-1670076505453-b62b8cb214da?  
    q=80&w=2070&auto=format&fit=crop&ixlib=rb-4.0.  
    3&ixid=M3wxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8fA%3D%3D');  
  margin: 1rem 0;  
  padding: 1rem;  
  border-radius: 5px;  
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);  
}
```



```
.room2 {
  background: url('https://watermark.lovepik.com/photo/20211120/large/lovepik-light-color-bedroom-book-room-drawing-picture_500394602.jpg');
  margin: 1rem 0;
  padding: 1rem;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

.room3 {
  background: url('https://api.makemyhouse.com/public/Media/rimage/1024/designers_project/1614317432_414.jpeg?watermark=false');
  margin: 1rem 0;
  padding: 1rem;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

.contat{
  background: url('https://img.freepik.com/free-photo/top-view-blue-monday-concept-composition-with-telephone_23-2149139104.jpg');
  margin: 1rem 0;
  padding: 1rem;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

.bookin{
  background: url('https://images.unsplash.com/photo-1470790376778-a9fbc86d70e2?q=80&w=1904&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVuFDB8fHx8fA%3D%3D');
  margin: 1rem 0;
  padding: 1rem;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
```

```
.facility1 {
  background: url('https://img.freepik.com/premium-photo/
gym-background-enough-blank-space-light-white-tone-modern-style-generative-ai_
527096-25225.jpg?w=740');
  margin: 1rem 0;
  padding: 1rem;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

.facility2 {
  background: url('https://media.istockphoto.com/id/1262572386/
photo/elegant-yet-informal-dining-area-of-new-home-with-coffered-ceiling.jpg?
s=612x612&w=0&k=20&c=7cNxQ1SQ7U2ebfV0kwEwpkJJ91136PxdxIXkjuDgi08=');
  margin: 1rem 0;
  padding: 1rem;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

.facility3 {
  background: url('https://hips.hearstapps.com/hmg-prod/images/gettyimages-
165479189-1562001893.jpg');
  margin: 1rem 0;
  padding: 1rem;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

.facility4 {
  background: url('https://www.tripsavvy.com/thmb/AuA8Yre5itGsVbF41fB9Dt7IP6w=
/1500x0/filters:no_upscale():max_bytes(150000):strip_icc()/Eau-Palm-Beach-Resort-
Florida-Club-Lounge-5905170b3df78c5456df80fa.jpg');
  margin: 1rem 0;
  padding: 1rem;
  border-radius: 5px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

footer {
  background: #333;
  color: #fff;
  text-align: center;
  padding: 0rem;
  position: fixed;
  width: 100%;
  bottom: 0;
}
```


JavaScript Functionality

The JavaScript file handles interactivity, such as form submission and validation.

Example: script.js



```
document.getElementById('bookingForm').addEventListener('submit', function(event) {
    event.preventDefault();

    const name = document.getElementById('name').value;
    const email = document.getElementById('email').value;
    const checkin = document.getElementById('checkin').value;
    const checkout = document.getElementById('checkout').value;
    const room = document.getElementById('room').value;
    const payment = document.getElementById('payment').value;

    alert('Thank you for booking, ${name}! Your stay from ${checkin} to ${checkout} in a ${room} is confirmed. Payment method: ${payment}.');

    // Here you can add code to send the booking data to your server or process the payment.
});
```

User Interface and Experience

The user interface of the Hotel Management System is designed with simplicity and usability in mind. The layout is clean and intuitive, allowing users to easily navigate through different sections.

Key elements include:

Visual Consistency: Consistent use of colours, fonts, and layout across all pages to provide a cohesive look and feel.

Ease of Navigation: A fixed navigation menu at the top of each page allows users to quickly access different sections of the website.

Interactive Elements: JavaScript is used to provide interactive elements, such as the booking form submission, enhancing the overall user experience.

Conclusion

The Hotel Management System project successfully demonstrates the use of modern web technologies to create an efficient and user-friendly platform for managing hotel operations. By integrating various hotel services into a single website, the system improves operational efficiency and enhances the guest experience. The project highlights the importance of responsive design, visual consistency, and interactivity in creating effective web applications. Future enhancements could include the integration of a backend database for real-time room availability and customer management, further improving the system's functionality and performance.

References

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