**HOTEL MANAGEMENT WEBSITE**

**REPORT FOR PROJECT BASED INTERNSHIP** DIGNIQUE TECH LAB

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**ABSTRACT**  
The Hotel Management Website is designed to streamline the process of booking and managing hotel rooms using React and Tailwind CSS. The project involves creating a user-friendly interface for room booking, including features for user authentication, room selection, and a responsive layout. The website leverages React for component-based architecture and Tailwind CSS for styling, aiming to provide a seamless user experience for hotel management.

GitHub Project Link - <https://github.com/eash-codes/Hotel_project>

**CHAPTER 1: INTRODUCTION**

1.1 **Project Overview**  
The Hotel Management Website is developed to address the growing need for efficient and accessible online hotel booking systems. The project aims to simplify the booking process by offering a clean and intuitive interface, integrating features such as room availability, user authentication, and booking management.

1.2 **Key Features**

* **User Authentication:** Allows users to create accounts, log in, and manage their bookings.
* **Room Booking:** Users can browse available rooms, view details, and make reservations.
* **Responsive Design:** Ensures the website is accessible and functional across various devices.
* **Search and Filter:**
* **Search and Filter:** Users can search for rooms based on criteria such as location, price, and amenities.
* **Room Details:** Detailed descriptions of rooms, including images and pricing information.
* **Booking Confirmation:** Immediate booking confirmation with options for managing reservations.

A bed with pillows and a lamp in a room

Description automatically generated

**CHAPTER 2: TECHNOLOGIES USED**

2.1 **React**  
React is utilized for building the website's user interface. It provides a component-based architecture that simplifies the development process by breaking down the UI into reusable components. Key features include:

* **Component-based Structure:** Modular components for managing different sections of the website.
* **State Management:** Handling user interactions and managing application state efficiently.
* **React Router:** For navigating between different pages of the website.

2.2 **Tailwind CSS**  
Tailwind CSS is used for styling the website. It provides a utility-first approach to CSS, enabling rapid design and customization. Key features include:

* **Utility Classes:** Predefined classes for common styling needs such as margins, padding, and colors.
* **Responsive Design:** Built-in responsive utilities to ensure the website looks good on all devices.
* **Customization:** Easy to customize and extend with custom themes and configurations.

2.3 **React Router**  
React Router is used for managing navigation within the React application. It allows for declarative routing and seamless transitions between different views or pages of the website.

A screenshot of a hotel room

Description automatically generated

**CHAPTER 3: IMPLEMENTATION DETAILS**

* **Setup and Configuration:** Initial setup of the React project, installation of Tailwind CSS, and configuration of React Router.
* **Component Development:** Creation of key components including Header, Footer, RoomList, RoomDetails, and BookingForm.
* **State Management:** Implementation of state management using React hooks to handle authentication booking data.
* **Styling:** Application of Tailwind CSS classes to ensure a consistent and responsive design.
* **Routing:** Setup of routes for different pages (Home, Rooms, Booking, etc.) using React Router.

A screenshot of a room

Description automatically generatedA screenshot of a room

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**CONCLUSION**  
The Hotel Management Website project successfully demonstrates the use of modern web technologies to create an efficient and user-friendly hotel booking system. By leveraging React for dynamic UI components, Tailwind CSS for responsive design, and React Router for seamless navigation, the project achieves its goal of providing a streamlined booking experience. The website is designed to be scalable and maintainable, offering a solid foundation for future enhancements and features.

**REFERENCES**

1. "React Documentation." React. https://reactjs.org/docs/getting-started.html
2. "Tailwind CSS Documentation." Tailwind CSS. <https://tailwindcss.com/docs>
3. "React Router Documentation." React Router. https://reactrouter.com/web/guides/quick-start
4. Digi Nique Workshop
5. Youtube.com