**THE REVIEW**

**ON**

**“GUVI PROJECT"**

 Java Programming (E1UA307C)

OF

**B.Tech IN Computer Science & Engineering**

**SEMESTER III**

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**SUBMITTED BY**

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**Online Real Estate Management System**

**Objective:**

Online Real Estate Management System using MERN stack will serve as a system where property owners (admins) can manage the properties they are listing and users (clients) browse, book & make payment for properties. Your processes involve managing properties, bookings and payments management within the system which should allow users to easily search → reserve → manage their booking. It will also have a property and user management admin panel.

Key Features:

* Property listings- Browse for a particular property using filters (location, price range & type).
* User Authentication: Reliable login and registration both for admins as well as clients.
* Booking and Payment: The property can be booked by users for online transactions
* Admin Dashboard: Properties, Booking and User management.
* Desktop Friendly: Responsive Design.

**Problem Statement:**

The processes involved in managing real estate and rental transactions are quite manual, non-transparent and sometimes inefficient because for property owners they often do not have proper visibility into what goes on with their properties. On the other hand, property owners find it laborious to manage their multiple listings and keep track of bookings as well as payments in different sites while potential tenants or buyers have their own difficulties finding a place that is right for them efficiently (and securely making these transactions) warehousing reservations.

Our Solution the Online Real Estate Management System seeks to solve these issues through a digital strategy that allows for:

Admins to control property listings, track bookings, process payments for the Property Owners and communicate with clients from one centralized location

Search; filter, and book properties through a seamless customer journey with payment processing being highly secure for the users to be informed about any new booking updates.

**Technical Stack for Online Real Estate Management System**

**1. Frontend Development**

* **Framework:** **React.js** for dynamic, responsive interfaces.
* **State Management:** **Redux** for predictable state transitions.
* **Styling:** **CSS/Bootstrap/Material-UI** for responsive design and polished visuals.
* **Routing:** **React Router** for seamless navigation.
* **Form Management:** **Formik/React Hook Form** for efficient form handling.

**2. Backend Development**

* **Spring Boot: It simplifies Java backend development with a strong ecosystem for building RESTful APIs.**
* **Database:** **MySql**
* **Authentication:** **JSON Web Tokens (JWT)** for secure user authentication.
* **API Documentation:** **Swagger/Postman** for clear API documentation and testing.

**3. Geolocation and Analytics**

* **Geolocation Services:** **Google Maps API/Mapbox** for locating nearby property providers.
* **Analytics:** **Google Analytics** for tracking user behavior and app performance.

**FlowChart Diagram:**

