

Frontend Developer Assessment: Studio Booking Application

The goal of this assessment is to evaluate your ability to create a dynamic, user-friendly **Studio Booking Application** using modern front-end development practices. The application must include features such as studio search, availability checking, and booking functionality. You will be working with **JSON data** that represents studio information.

Use this JSON data to make a Mock API: <https://gist.github.com/rash3dul-islam/88e1565bea2dd1ff9180ff733617a565> or <https://dub.sh/8WKKWmF>

Requirements:

1. Studio List Page:

- a. Create a page that displays a list of studios available for booking.
- b. The list should include essential information for each studio:
 - i. Name
 - ii. Type (e.g., Recording Studio, Music Studio)
 - iii. Location (City, Area, Address)
 - iv. Amenities List
 - v. Price per hour
 - vi. Rating (1-5 stars)
- c. Each studio should have a button to proceed with booking.

2. Search by Place:

- a. Implement a **search bar** that allows users to filter studios by location (Area).
- b. This search will include an auto-complete feature that shows a reference location list.
- c. The Studi list should dynamically update as the user types in the search bar.
- d. When a user searches for a city or area, only studios in that city/area should be displayed.

3. Search by Radius (10 km):

- a. Implement search by radius that allows users to search for studios by their current location within a given radius. (Example: 10KM, 20KM).
- b. Handle errors gracefully, such as the user denying location access, or when no studios are within the 10 km radius.

4. Studio Availability and Booking:

- a. On clicking **booking now** button a popup will be open. The form should collect:
 - i. Date Picker for selecting a date.
 - ii. Time Slot Picker based on the studio's availability hours.
 - iii. User Info (Name, Email).
- b. Availability Check:
 - i. When the user selects a time slot, check the availability against the studio's available time slots.
 - ii. If the time slot is already booked, display an error message (e.g., "The selected time slot is not available. Please choose another time").
 - iii. On successful booking, display a confirmation message with booking details.
 - iv. Successfully store booking data in local storage.

5. Booking List Page:

- a. Create a page that displays a list of available bookings.
- b. The list should include essential information for each studio:
 - i. User Info Name, Email
 - ii. Type (e.g., Recording Studio, Music Studio)
 - iii. Location (City/Area)
 - iv. Time & Date

Please upload your code on your public GitHub profile. Use free hosting to host the system on a live server (for example: Netlify, Vercel).