React and Node.js Assignment

## Task Description:

Create a full-stack application that displays hotel details. Develop a React frontend to show the hotel information and create REST APIs using Express.js and PostgreSQL to serve the data. Reuse HTML and CSS from the last assignment, adhering to proper React component conventions.

## Requirements:

* Implement the entire frontend using React components, reusing components where appropriate.
* Develop REST APIs to serve hotel details from a PostgreSQL database.

## Design:

* [desktop.png](https://w3engineers.sharepoint.com/:i:/s/W3School-INTERN2024Dhaka8thBatch/EdXDBLlPi5FNsCvQ_wPYoL4BZDTeF6g7-EEoNk3Zhf4AXQ?e=fUXU5H)
* [mobile.png](https://w3engineers.sharepoint.com/:i:/s/W3School-INTERN2024Dhaka8thBatch/EUi4KvkI6YREsLfKP2j7QhkBuHWL74PdMS7uFYpiaAX_Jw?e=UEh4mY)

## Acceptance Criteria:

### Technologies to Use:

* React
* Node.js with Express.js framework
* PostgreSQL

### Project Specifications:

1. **Frontend:**
   * Implement the entire frontend using React components.
   * Reuse components where appropriate.
   * Show a shimmer loader while loading the data.
   * Maintain high code quality.
   * Use a configuration JSON file for static values, such as the API base URL.
   * Serve the page through this route: **/hotel**
     + Structure: [http://localhost:3000/hotel/hotel-slug](http://localhost:3000/property/hotel-slug)
     + Example: [http://localhost:3000/hotel/redisson-blu](http://localhost:3000/property/redisson-blu)
   * Show 404 page for any unknown slug (optional, good to have)
2. **Backend:**
   * Develop REST APIs using Node.js and Express.js to serve hotel details from a PostgreSQL database.
   * Use a configuration JSON file for credentials, such as DB access.
   * Handle exceptions properly to ensure the app does not crash under any use case.
   * Handle status code property with property response/error message (200 for success, 404 for not found, etc.)
   * Maintain high code quality.
3. **Database Schema:**
   * Store the following information in the database:
     + Hotel details:
       - Slug
       - Images
       - Title
       - Description
       - Guest count
       - Bedroom count
       - Bathroom count
       - Amenities
       - Host information
       - Address
       - Latitude, Longitude
       - Room information (multiple rooms per hotel):
         * Hotel slug
         * Room slug
         * Room image
         * Room title
         * Bedroom count
4. **Repository and Documentation:**
   * Create two separate GitHub repositories for the React frontend and the Express.js backend.
   * Each repository should contain a README.md file with setup and run instructions.

## Deadline:

22nd July 2024, 5:00PM