Hotel Room Management Admin App

Description

Create a complete admin-facing solution for the management of rooms in a Hotel.

Requirements

- Hotel can have multiple rooms of multiple types.
- Each room type has a different type of pricing.
  Example:
  - Room type A: 100 Rs per hour
    Room type B: 80 Rs per hour
    Room type C: 50 Rs per hour
  - A Hotel can have
    - 2 rooms of A type
    - 3 rooms of B type
    - 5 rooms of C type
- **Create:** A Page where the admin can book the room which takes the user's email, room number, start time, and end time and books the room accordingly
  - The Price of the booking should update as soon as the user updates any one of the room number, start time or end time.
  - No two bookings should have overlapping start and end time for the same room.
- **Edit:** Allow admin to edit any variables like user email, room number, start time, end time and correspondingly take confirmation on updated price.
- **Delete:** Allow admin to cancel any future booking with the following conditions
  - If the booking start time is more than 48 hrs, Show a complete refund on UI
  - If booking start time is within 24 hrs to 48 hrs, 50% refund on UI
  - Else no refund (but admin can still cancel)
- **View**: Create a view page for the admin to view all the bookings both upcoming and passed with the following filters
  - Filter by room number and room type
  - Filter by start time and end time

Note:
- No need to develop login/signup pages, just make an assumption that only admins will be accessing it and just try to cover the basic requirements part with this assumption.

- Create your app's frontend as a [SPA](SPA)

Good to have
- Email should get fired to users who have booked the room with the correct email, room number, start time and end time.
- Responsive Design

Submitting
- Upload your code on GitHub or any other similar service and send us the link to it.
- Make sure that the repository is marked public.
- Also, you can deploy your app using aws/heroku or any other service and send us a link to it.

Evaluation Criteria
- All Basic functionality is working. (i.e. Mentioned in the Requirements Section)
- Database schema.
- Code Modularity.
- Code quality.