



Full-stack Software Engineer Technical Test

Overview

Every company has problems with meeting room bookings. This project's goal is to help those companies.

Please develop a web application where users can book meeting rooms, modify their bookings, and list all the bookings.

Goals

1. User registration, login, and logout
2. API for bookings CRUD (create, read, update, delete)
3. GUI for bookings CRUD (Vue.js)

Specifications

The application does not contain the admin page, where an administrator can manage the meeting rooms, to make it simple, please create a seeder which loads 3 meeting rooms into the DB. Every meeting room has a name.

You can use Laravel's default user registration and login pages.

A guest user can not book a meeting room or modify any bookings but can list the actual bookings.

The booking list page:

- Paginate the list
- Contains the meeting room name, booked by user name, the date of the booking, and the from-to time of the booking.
- If the user can edit or delete a booking, the list should contain a link or icon to do it

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- The list is sortable by all the columns (above)
- The list can be filtered:
 - By the date interval (only days, not times) of the booking time
 - By meeting room
 - If the user is not a guest, can be filtered by the actual user (my bookings)
- Search box:
 - Full text search, filtering the list by user name and meeting room name as the user typing

Bookings:

- A booking can be 30 minute or 1 hour long
- The first booking start time at 8:00 AM, the last one (start time) at 5:00 PM
- Booking start time and end time has to be on the same day
- A meeting room can not be booked if already booked for the chosen time

API

For user management, you can use Laravel's default approach with the default pages and page loads, but for the booking part, the application has to be API driven. All booking related user actions have to be an API endpoint, API call.

You have more options to achieve this, some of them are:

- Building a Vue.js SPA and using Vue router for all the booking related pages
- Use Laravel router and blade files to load Vue.js components

The API needs to be able to handle user authentication.

The stack

1. Laravel
2. Vue.js
3. MySQL

This coding exercise should take no longer than 1 day to complete. Please create a Github repository and submit your application to it. You can then share your repo with us.

You are recommended to make micro commits to demonstrate the approach you take. As part of your solution, list any assumptions you've made in order to solve this problem. Provide instructions on how to run your application and the tests (including the version numbers for php, mysql, npm)