Task - Dates | Frontend-Exercise

This is your task to improve our Dates application to better connect sellers with buyers.

Task:

Build a React powered website where one can choose a time slot.

Situation:

Our call center agents are using a website to choose a (possible for the seller) time slot when they are on the phone with the buyer. This website is currently (Ruby on Rails) server-side rendered. We want to rebuild it with React to make it more user friendly and interactive.

Your mission:

1. Create a simple REST API that serves the time slots from the JSON file. Feel free to use an existing package that solves this task (e.g. json-server). The attached JSON file represents data of:
   a. 3 **companies**
   b. each **company** contains **id**, **name**, **type** and **time_slots**
   c. each **time_slot** contains a **start_time** and **end_time**
   d. **start_time** and **end_time** are represented in
      https://en.wikipedia.org/wiki/ISO_8601
2. Create a React application to fetch **time_slots** for **companies** from the api you created in step 1.
3. Display the **time_slots**
   a. in a human readable way (please see the attached sketches):
   b. sorted by **date** and **time**
   c. grouped by **date**
   d. scrollable
4. Allow users to set a **reservation** for a **time_slot** by
   a. clicking on one of the **time_slots**
   b. display the **reservation** above with the time of the selected **time_slot**
   c. highlight the selected **time_slot**
   d. allow to deselect a **time_slot** to remove the **reservation**
   e. only allow **one reservation per company** at once
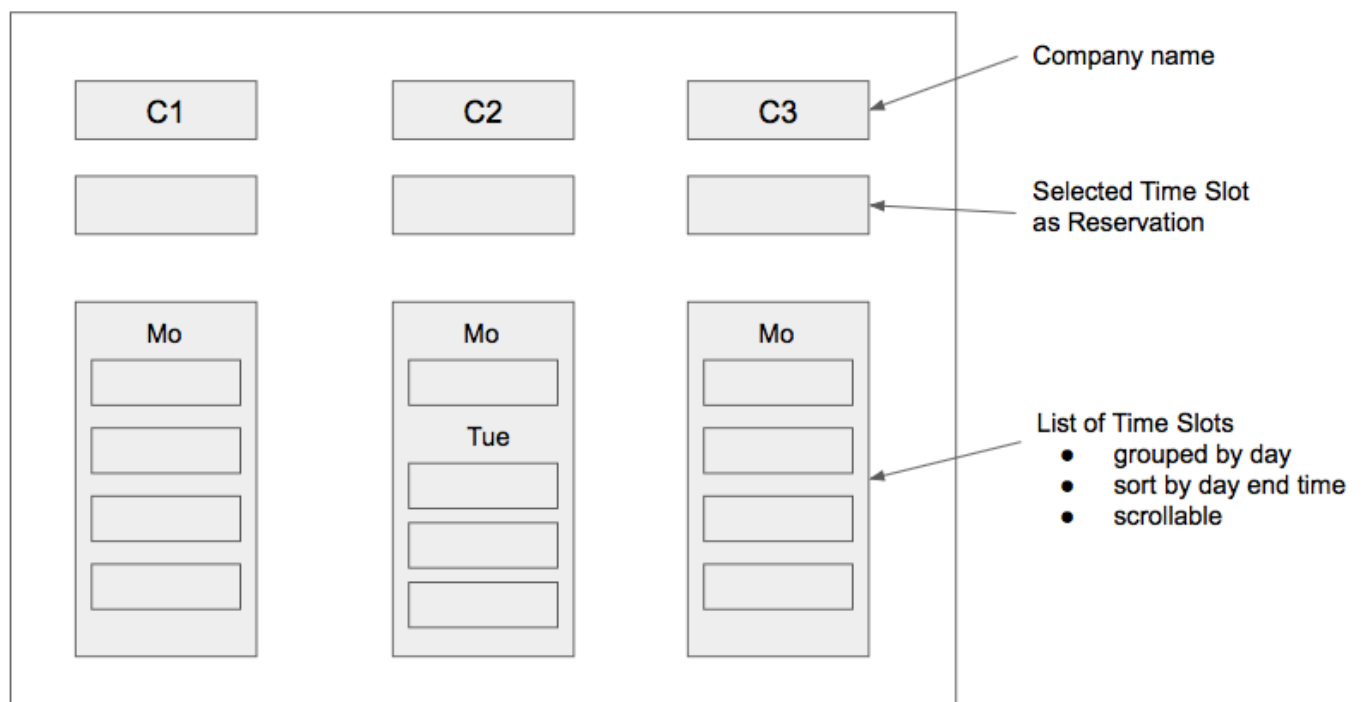5. Block all **time_slots** in the same time range for other **companies**

Our expectation:

We would like to **see your approach** on solving this technical task and want to point out that our expectation is to see how you would structure your code, create a good user experience and approach solving a technical problem. If you end up not having enough time, create your own MVP that you would like to show us.
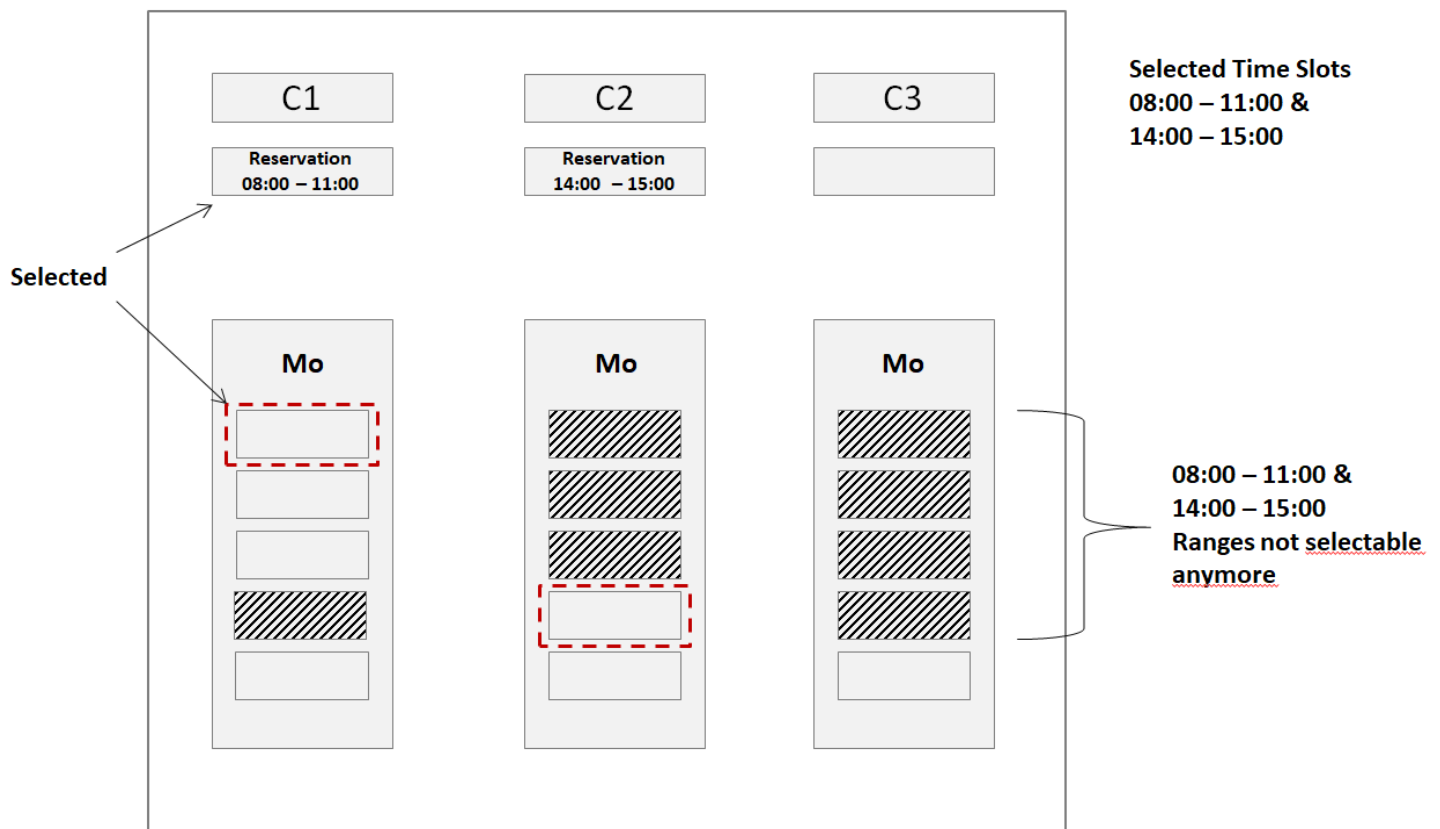
We would like to review your code in GitHub but you can choose your own tools that you are more familiar with. Just make sure that you can submit the code to us to check it out by the mentioned deadline within the e-mail.

Please emphasize clean code and React best practices (like reusable components and separation of concerns).
Also, please make sure that the readme file describes exactly how to run the application. Our reviewers will not look for bugs in your code to get the application running.

Good luck :-)

C1   C2   C3

Reservation
08:00 – 11:00

Reservation
14:00 – 15:00

Selected Time Slots
08:00 – 11:00 &
14:00 – 15:00

Selected

Mo   Mo   Mo

08:00 – 11:00 &
14:00 – 15:00
Ranges not selectable
anymore

How to submit the coding challenge:

For submitting the coding challenge to us we would like to ask you to create a repository in your GitHub account, which you can share with us once you have finished coding. Just send the link to me and I will forward it to the team.

If you don't want to have a public repo, you can also make it private and share it with two of our team members. Just let me know and I will share their details with you.

If you don't use GitHub, you can also use another tool of your choice as long as you are able to give access to us or you can send a file with the code.

You can choose whatever works best for you as long as our team members have a chance to get to look at your code.