

Front-end Javascript Challenge

Description

This project is designed to test your knowledge of front-end web technologies and assess your ability to create front-end UI products with attention to details, cross-browser compatibility, standards, and reusability.

Assignment

The goal of this exercise is to create a demo calendar application using React, Vue or Angular.

You should start by rendering a single month view of a calendar for the current month – along with the lines of the below illustration:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

Mandatory Features

- Ability to add a new "reminder" (max 30 chars) for a user entered day and time. Also, include a city.
- Display reminders on the calendar view in the correct time order.
- Allow the user to select color when creating a reminder and display it appropriately.
- Ability to edit reminders – including changing text, city, day, time and color.
- Add a weather service call from a free API such as [Open Weather Map](#), and get the weather forecast (ex. Rain) for the date of the calendar reminder based on the city.
- Unit test the functionality: *Ability to add a new "reminder" (max 30 chars) for a user entered day and time. Also, include a city.*

Bonus (Optional)

- Expand the calendar to support more than the current month.
- Properly handle overflow when multiple reminders appear on the same date.
- Functionality to delete one or ALL the reminders for a specific day

Considerations

- Redux (or any other state manager) structure of the calendar.
- The project is totally focused on the front-end; please ignore the back-end.
- Keep your code versioned with Git.
- Feel free to use small helper libraries for:
 - UI Elements.
 - Date/Time handling.
- You must create the calendar component yourself. Do not use calendar libraries like FullCalendar or Bootstrap Calendar.
- If you use an external API, make sure to provide working API keys.

Deliverables

When you finish the assignment, send a zip file (don't forget to include the .git/ folder.) or upload your project to your Git repo (Github, BitBucket, etc...) and share the repository link with your initial contact via email. Indicate which, if any, of the bonus tasks you completed.

If you didn't manage to finish everything, please tell us which parts you completed.