



Home Assignment - Reservation App

Imagine a company that has a shared car for all employees each employee should reserve the car before using it. This app is only run as a single instance on one machine at the company. People will come to that machine to reserve.

Rules of Reservation

1. You can reserve for a minimum of one hour, maximum until next workday
2. Workday starts at 9 AM to 5 PM (don't worry about the timezone)
3. Sunday and Saturday are not workdays (don't account the public holidays)
4. The amount of reservation in the workday should be multiply of one hour (e.g. no 90 minutes)
5. You should provide your name in the form of reservation
6. Your reservation should not collide with others.
7. You cannot reserve into the past!

Rules of implementing it

1. Use React, Typescript, A modern frontend tooling (No CRA, Maybe Vite or Next.js).
2. Use Tailwind for Styling.
3. Use Context if you need a global state. (you can use zustand)
4. Use localStorage for persisting the reservations. (no need for an API)
5. Use any npm package you like. (don't bloat)

How the UI should look like

1. The application consists of One route. in that route you have the calender for the current month the current date reservations and a reservation form (disabled by default)
2. The calender should indicate the number of that day's reservation when we hover over it. also for each day it should show a diffrent shade of green (higher when there is more reservations)
3. A day that has no spot left should be disabled.
4. The details
 - a. One the user clicks on the date he can see what users and for how long they are using the car that day. (if any)
5. The Form
 - a. Once the user clicks on the date the form should be enabled
 - b. You should ask for the duration in a select box with the available durations
 - i. For example if you have 2 hours left in the workday your available option will be
 1. "one hour"
 2. "two hours"
 3. next work day
 - c. They will put the required fields (name,duration) and submit.