

React code assessment challenge

Used car search

This code assessment consists of a used car search page. We want to display the following:

- A / page which shows two cards, one which displays the current user information and another which shows the number of listings.
- A /listings page which shows the listings. This page should be paginated, with options 10, 25 and 50. You can choose whether it is a list or a grid (doesn't have to support both, choose one you like). It should be filterable:
 - Brand, year: Lists
 - Price, kilometersDriven: Two text inputs to represent the range min to max
- A /listings/id page which shows a single listing.

To carry this out, please create a series of react hooks, contexts, routers and whatever else is necessary:

- The user model should simply have an email address, first name and last name.
- The listing model should have an id, brand, year, name, price, kilometersDriven and an imageUrl.
- Create two JSON files with fake data, user.json and listings.json. The user.json will fake what we would receive from an API for the currently logged in user, the listings.json should have 230 listings with random data:
 - The ID should be a random uuid.
 - Brand: One of Toyota, Honda, Volvo, Citroën, Renault, Peugeot, BMW, SEAT, FIAT, Dacia, Skoda, Volkswagen
 - Year: Anything from 2000 to 2024
 - Name: Any non-garbled text, so "Tree" or "George" but not "Ofsiofho"
 - Price: Anything
 - kilometersDriven: Anything
 - The imageUrl can point to the same image on the internet for all listings, it doesn't matter. Just an image of a car
- There should be hooks for retrieving stuff from the API, they should use the data in these json files, however, they should use promises and a delay of between a second and 5 seconds to make it feel more "real".

Feel free to implement this however you see fit.

- It doesn't have to be pretty, it should just work and not be horrible. Please make sure there are loading indicators so that it doesn't feel like the page is "stuck".
- Use any libraries you want for anything - react-hook-form, react-query, react-table, tailwind, bootstrap, fontawesome, whatever you want.
- It must use React and TypeScript.

Happy coding!