

Product Results Visualization Task

Task: Design and implement (using React or Vue, preferably in Typescript) a front-end for a mock home-improvement product search engine. The user should be able to search for products using a search bar, see the search results displayed in a mobile-optimized list with thumbnail and details, filter based on product availability, and sort the products based on a few different fields.

You will be given a JSON document (search-results.json) representing the search results from a retail home improvement company's search engine. For the purposes of this exercise, these should be the static results shown to the user, regardless of the search query they've entered.

Bonus: create a local server that accepts a search query and returns the (fake) results, and have your app fetch from it.

Each product in the search results is represented by a single object. Each json object contains the following fields:

- **description:** the name of the product
- **imageUrl:** the thumbnail image to use for display
- **navigationUrl:** the url for the product's detail page hosted on the company's site
- **price:** ex "\$49.95"
- **rating:** a star rating from customer reviews, from 0-5
- **availability:** the number of the product in stock at the user's closest store
- **aisle:** aisle where the product can be found in store
- **bay:** bay where product can be found in store