

Frontend Developer Coding Challenge


Overview

This task requires you to create a simple one-page application that interacts with the PunkAPI. This page should allow you to:

- Display a random beer section, with a button/link to display random beers and random non-alcoholic beers
- Display a small search form where users can search for beers by name or description using a free text search. Show search results from the PunkAPI.

A sample page layout is below:

Beer Name




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Another Beer

Random non alcoholic beer

Search




☐ by name

☐ by description


Search

Search Results




Beer 1

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Beer 2

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Beer 3

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Getting Started

- The code should connect to the PunkAPI, found at <https://punkapi.com> The
- documentation may be found at <https://punkapi.com/documentation/v2>
- Please note that they have rate limiting. You should take this into account when developing your code.

Please note this is a third party API, not owned by Wellthy or one of its subsidiaries.

Requirements

Random Beer Section

You should display a random beer to the user. It should show the beer name, description and image (add any other info if you like):

- On initial load, show the user a random beer.
- Provide a button to display a new random beer.
- Only beers with both a label and a description should be displayed.
- Provide a button to display only random non-alcoholic beers($ABV \leq 0.05\%$).

Search Form

Take the following inputs from the user:

- A free text string to search for. This must only contain letters, numbers, hyphens and spaces. All other characters should cause an error to be displayed.
- A radio button where users can select whether to search **by name** or **by description**. One of these options must be selected.

Search Results

These results should be presented in a formatted list, containing the name of the beer, a small icon and an abbreviated description of the beer. (add any other info if you like).

Tests

You should provide sample tests using Testing Libraries. **It would be good if you can provide >70% unit test coverage.**

Other information

This test is completed at home but should be returned before the date specified in the message sent to you.

Do:

- Include a readme file if there is setup required for your code to run, or if there is something you would like to comment on.
- Keep your code tidy considering coding standards.
- Write Clean Code. This is an exercise in how you construct code, not solving a problem by the shortest route possible.
- **Consider the SOLID principles when you are constructing your code.**
- You must use Angular or React, but remember that we want you to show off your code, not the framework.
- Take the opportunity to show off beyond the above requirements. This could include the use of design patterns, caching strategies, etc. If there is something you would like to do but are constrained by time, outline it in the readme file. Provide test for your code, we expected
- your code to be well covered following good practices.

Don't:

- Spend too much time on the UI design
- Include automatically generated documentation.
- If you are trying something cool, but don't have time to finish it, include it as a description in your comments/readme of what you were trying.