Front-End Engineer Technical Challenge

Country Information SPA

We can’t wait to see you in action! Your take-home coding exercise is designed to take between one and three hours to complete. You are under ​no obligation​ to take any specific amount of time to complete the task.

# The Rules

1. The code you write needs to be your own and written without direct assistance. However, feel free to use as many reference resources (Stack Overflow, MSDN, Google, textbooks) as you like.
2. Your solution should be written in Javascript (preferably Typescript or ES6), and include any supporting HTML/CSS/SASS/LESS as required.
3. Once you have completed the challenge, please submit your solution as a link to

GitHub/BitBucket (or other git service, e.g. GitLab) project. Please include instructions in a Readme file on how to start the app (e.g. using Babel dev-server, etc).

# The Challenge

The goal of this exercise is to build a single page app (SPA) that lets a user search for a country by name or code, and provides some information about the selected country.

# Data

For the data, please use the country service described here: [https://restcountries.eu](https://restcountries.eu/)​ [/](https://restcountries.eu/). As a simple​ example, the following gets all countries:

|  |
| --- |
| import​ request ​from​ ​'superagent'​;  request  ​.​get​(​'https://restcountries.eu/rest/v2/all'​)  ​.​end​((​err​,​ res​)​ ​=>​ ​{ console​.​log​(​res​.​body​[​0​]);  ​}); |

# Components

There are 3 components required:

1. Search box with typeahead:
   1. Will automatically populate a selector box as you type (3 characters minimum)

○ At most, the top 10 matching results will be shown in the typeahead box

○ The country name and iso code will be shown in the typeahead box

○ Clicking on a result in the typeahead box will populate the country information component as well as the search history component

1. Country information, showing the following information:
   1. Country flag

○ Name

○ Currency name

○ Latitude/longitude

○ Land area

1. Search history:
   1. Show a history of your searches, showing most recent selections first

○ Clicking on a country in the history will populate the country information

○ Will only contain one entry per-country

## What we are looking for

There is no one “correct” solution, and there is no trick. The main focus is not a fancy UI. Instead, we are looking for thoughtfully written, high-quality software. As you write your solution, consider things such as:

* Readability
* Maintainability
* Testability
* Extensibility

There are no bonus points for showing off. Good software development skills are far more important to us than extreme language prowess.

What happens next?

First & foremost, whatever our decision (moving forward in the process or not), we will be in touch. We believe in closing the loop even if we have decided to not move forward. We appreciate your time & you can expect to hear from us by email after the team has reviewed your test.

If your solution is accepted, we will invite you to come onsite for a follow-up interview. Part of that will include an interactive session with some developers from Flare. Over the course of the “code review” interview, be prepared to talk the team through your solution, explain your decisions and thought processes, and find and fix bugs. There may also be extension questions where you will be asked to modify your code in a certain way to extend its capabilities.

The panel will be looking for signs that you are suited to be part of a team software development environment. That means that effective communication is important; the aim of this interview is not to answer a series of questions but rather to engage in a dialogue.​