

Front-End Code Challenge

Please keep both the code challenge and your solution confidential. Do NOT use a public repo. We expect you to push the code to a private repository (Github offers free private repos) and invite us; Github user name: **plentific-frontend-recruitment**

In addition, please email the repo URL to careers@plentific.com once you have completed the challenge.

You are free to make assumptions or improvements, but please let us know by adding it to the README.md document or in code comments as appropriate.

Please let us know if you require clarification or have any questions. Complete the task in your own time, however, we recommend no longer than a week to return it to us. Good luck!

Search professional case study

The coding challenge is to create a single-page app using React.js and some Plentific API. We would expect the solution to be written in Typescript, but you can use Javascript too as fall back. You can find a wireframe for the desired project output below:

Your site

Category

Plumber ▼

Postcode

SW11

Submit

Id	Name	Postcode	Review Rating
20	Plumbing Pros	SW11 2DF	★★★★★
31	Fixi Taps	SW11 1AA	★★★★★
123	Reipair Top	SW11 9DW	★★★★★

« 1 2 3 4 5 6 7 8 9 »

- List the pros in a table including the columns shown in the wireframe.
- Check out the Plentific API Doc below for more information.
- Use pagination if the results are more than 20(i.e.each page should have a max of 20 results)
- Check out this URL for basic knowledge on the UK Postcodes
https://en.wikipedia.org/wiki/Postcodes_in_the_United_Kingdom
- Host your application in your preferred platform and send us your URL

Plentific API Doc

List of categories

You can get the list of categories using this JSON file:

<https://plentific-fe-challenge.herokuapp.com/categories>

A category is defined as:

```
{
  id: <int>,
  name: <string>,
  hidden: <bool>,
  // You can ignore all the other fields like services
}
```

Please, use only the non-hidden categories.

Search for pros

To search for pros, you can use the following API(make sure you have the trailing slash at the end):

<https://plentific-fe-challenge.herokuapp.com/search>

You have to make a **POST** request with the following JSON data:

```
{
  category_id: <int>,
  location: <string.lowercase>, // must be lowercase with no spaces
}
```

The result will be presented as follow:

```
{
  code: <int>, // The code result of the query - 0 is ok
  response: {
    pros: [<Pro>] // The list of the pros found, see below Pro Definition
  }
}
```

Pagination

To manage the pagination of the query, please make sure you always send(and read from the response) the following HTTP Headers:

```
x-pagination-count: <int> // the total of entries found in the query
x-pagination-limit: <int> // the count of entries returned in the query
x-pagination-offset: <int> // the starting index for the current query result
```

Pro Definition

A pro is defined as the below JSON object.

```
{
  "id": <int>,
  "name": <string>,
  "slug": <string>,
  "logo_url": <url>,
  "profile_url": <string>,
  "short_description": <string>,
  "review_rating": <float[0, 5]>,
  "reviews_count": <int>,
  "is_verified": <bool>,
  "subscription_level": <number>,
  "main_address": {
    "address_line_1": <string>,
    "address_line_2": <string>,
    "postcode": <string>,
    "town": <string>,
  }
}
```

Pro API Example

The following API call returns the first 10 pros in the Plumber category located in the SW11 area:

```
$ curl \
  https://plentific-fe-challenge.herokuapp.com/search \
  --data-binary '{"category_id": 37, "location": "sw11"}' \
  -H 'Content-Type: application/json' \
  -H 'x-pagination-offset: 0' \
  -H 'x-pagination-limit: 10'
```