React developer

Requirements

- 2+ years of commercial Web development experience both in SPAs and static sites
- In depth knowledge of React.js and its core principles
- Good knowledge of GraphQL, React.js UI frameworks, and version control utilities
- Experience with front-end build pipelines and tools, like Gatsby and yarn
- Ability to understand product specifications and translate them into technical implementation
- Typescript skills are a plus
- Good English (oral & written) and communication skills

Coding challenge

We'd like you to perform a small coding challenge that we use to evaluate your skills and discuss during the interview. To be respectful of your time as a valued candidate please don't spend more than 2-3 hours of your time on the challenge.

You'll likely not finish the challenge on the time allotted. But don't worry too much about it, because ultimately, we will be looking for simple, well-designed, and tested code.

As your submission, please send us a link to a github repository with your solution (invite **ttolvane** github handle to it), and include a README file with setup, testing and running instructions in the root of the repository.

Also add a few notes into the README what would you improve if you'd have more time.

Details

As the challenge please build a React SPA with 2 pages:
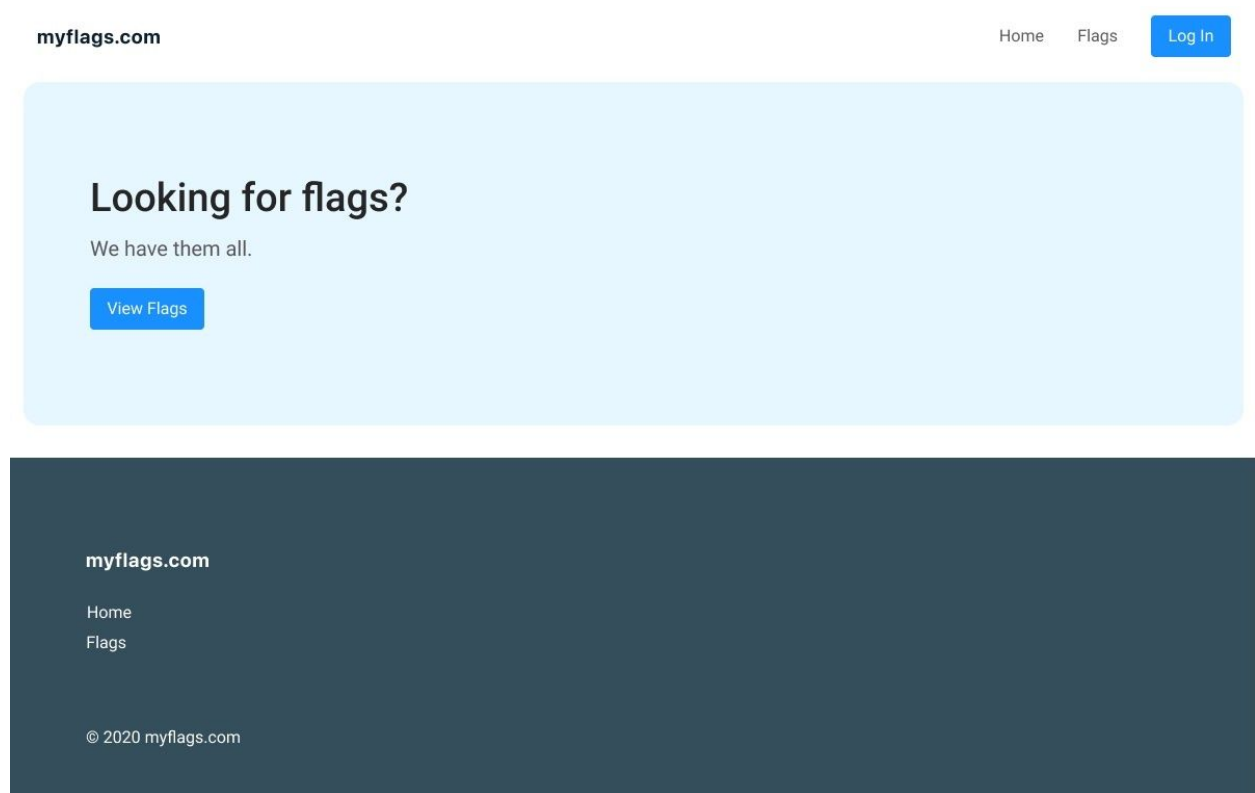- A "Home" page
- A "Flags" page

You can start with a templated React app as referenced in the Resources section. The solution should be able to be examined locally via yarn start (no deployment configurations required).

Please use React function components for each part of the page, like header, content, footer, etc.

Use of Typescript is preferred in the challenge.

A "Home" page

Refer to the following design:

All the references to the "Flags" page should work, however the login functionality does not need to function.

A "Countries" page

Refer to the following design:

Please fetch and list the names of the countries and their flags dynamically using the countries graphql API in resources below. If you have time, please implement infinite scroll, and the filters for both in ascending and descending alphabetical orders, otherwise fetch 8 first countries returned by the API.

Resources:

https://create-react-app.dev/docs/adding-typescript/
https://github.com
https://countries-274616.ew.r.appspot.com

Good luck! And have some fun!