

MediaMarktSaturn Technology

Challenge for the job opening *Senior Frontend Engineer*

This scenario is meant to test your every capability in programming modern day applications. Specifically, we want you to build a frontend for a GraphQL API. The result of your little scenario is then presented by you in person.

We want you to build a frontend for the GitHub GraphQL API. The frontend should allow to browse the issues of a GitHub repository, specifically of the official React repository. You will build a little search which allows to search for a text term in either the body or title of the issues as well as for the status OPEN or CLOSED. After listing these issues, a user should be able to view a single issue and all the comments. Please ensure that sufficient queries of users are faster than initial requests with a reasonable caching strategy.

Every important aspect of the application shall be tested. Rules to programming style apply as usual and documentation shall be down to a minimum. Your application should be able to handle wrong input by the user or any unusual behavior.

For this scenario we expect you to deliver a high quality web application. Your code should be typed using either Typescript or Flow. Furthermore, we expect you to use all available ES6+ features, including Async programming style. Your implementation is based on React with a structured state management using Redux and a sensible routing strategy. Alternatively, you may apply Apollo and appropriate client side state management.

Relevant links:

- <https://developer.github.com/v4/> (GitHub GraphQL API)
- <https://github.com/facebook/react> (Repository of React)

Following are the relevant technologies to use:

- ECMAScript 6+ with **async**
- TypeScript 2.5+ as a bonus instead of ECMAScript 6+
- React.js
- Webpack

Further remarks:

- Most important for us is to understand how you tackle complex problems. Therefore, please finish this challenge as far as possible under the given technological requirements. A correct and understandable partial implementation is more important than a complete one.
- The assignment will be presented in a live demo as part of the personal interview.
- As you will probably not have an internet connection in the presentation room, please make sure the assignment works offline.

Happy coding!