

## Programming Assignment – Frontend JavaScript Developer

**Congratulations on moving to 2<sup>nd</sup> phase of our Recruitment Journey !**  
**We are happy to introduce you to our Programming Assignment, which is prior to complete to the Technical Interview.**

Please take this task as an opportunity to show your creativity and have a little bit of fun, while doing it. Through the delivered result, we want to get to know better your problem-solving skills, implementation of the solution and overall level of experience, as well as, see your personal programmer touch.

**The task is based on React and NodeJS frameworks**, what is aligned to the majority of the future projects you will work with in the future.

**The estimated time to complete is : between 1- 2 hours.** It may vary within the level of your expertise and efficiency, also more time dedicated to it, will give better attention to details and overall result. Do it within your time allowance and willingness to show your best !

Anything that helps you achieve better result and gets you going faster (create-react-app, foundation, bootstrap, etc.) is encouraged! If you don't feel strong enough to fully tackle the task, do as you feel best, we can discuss it later during the interview.

### Back-end

Start with creating a node server with endpoints that provide CRUD for the front-end below. You don't need to connect a database, use the method familiar to you, to make it easy and fast to implement.

**If you want to impress us, nice to add :**

- Type safety (either Flow or Typescript)
- Tests ( just one or two to show your ability of using them)

### Front-end

In front- end part, use the container / presentational component methodology to write React components that will:

- Render an initial list of items to the page
- Implement controls to remove existing items
- Implement a means to set one of the items as 'selected'
- Implement controls to add new items based on text input

**Not obligatory, but nice to add:**

- State management
- Tests
- Styling

## The assignment deliverables

Thank you for your time dedicated to complete this task. We are eager to receive it and start reviewing it.

**Please provide your assignment including the following elements:**

**Link to a repository that contains:**

- Instructions for installing / running your project
- Back-end services implementation
- Front-end component implementations

If you have any questions, or need more explanation, please do not hesitate to reach out to us via email !

We are looking forward to the next step and meeting you again at 2<sup>nd</sup> Technical Interview !