

Task for JavaScript Engineer

The following document describes the requirements, resources and expectations related to the task for the JavaScript Engineer role. Please read it carefully to better understand what we are asking for and what we expect from you.

Should you have any question after reading this document, please do not hesitate to contact us.

The Requirements

For this task we ask you to create a single page application using React JS and Redux, as well as any related JavaScript library you may need. The application must meet the following requirements:

- List all available cars (implementing pagination with limit of 10).
- Allow the user to filter the cars by manufacturer.
- Allow the user to filter the cars by color.
- Allow the user to sort the car by mileage in both ascending and descending order.
- Show the details of a selected car in a separate page.
- Add a car to the favorites collection (using local storage).
- Remove a car from the favorites collection (using local storage).

Resources

For the UI, please use the attached design and style guide as a visual guide for your application and implement the styles yourself from scratch instead of using a library like Bootstrap or Material UI.

For the cars data, please use the `mock-server` package included in the attachments. The instructions on how to use it can be found at the Readme file.

Assets such as the AUTO1 logo can also be found in the attachments, or you can also download them here: <https://www.auto1-group.com/press/pressdownloads>.

Our expectations

The most important things for us when evaluating your solution are:

- Good code quality and best practices
- Clear code organization and project structure
- Performance optimisation
- A well developed UI/UX
- Good unit testing coverage

Please, use git since the first moment you start developing your solution. We suggest to thoroughly plan ahead and preferably commit often.

Configuring the application from scratch is not required, you could use Create React App instead, but doing a good custom configuration of the building process is a plus.

Other great ideas for you app (but not required, though) are to implement dynamic imports, static type checking, PWA features or even a components storybook. Feel free to choose the techniques and libraries you feel more comfortable with and the most important thing:

Have fun!