

Frontend Software Engineer Challenge

Problem Statement: Vehicle Results and Vehicle Details

You are tasked with implementing a simple vehicle results page using React or another framework in the React ecosystem (i.e. Next.js).

After developing the solution, it should be committed to a publicly accessible repo like GitHub.

Data

Import the dataset of vehicles from the provided Json file. This file contains a randomly generated set of vehicles. Each vehicle should have the following properties:

- Make
- Model
- Engine Size
- Fuel Type
- Year
- Mileage
- Auction Date and Time
- Starting Bid
- Favourite

Also, there will be for each vehicle its details with following properties:

- Specification
 - Vehicle Type
 - Colour
 - Fuel
 - Transmission
 - Number Of Doors
 - CO2 Emissions
 - NOX Emissions
 - Number Of Keys
- Ownership
 - Logbook
 - Number Of Owners
 - Date Of Registration
- Equipment

Requirements

The application should store this data in state (of your choosing) and present the results in a friendly format. For each vehicle, please include a placeholder for an image. Feel free to indicate this is a placeholder or choose your own image to display.

Each vehicle should display the number of days and hours until its auction begins. Each vehicle in the results should clearly indicate if a user has selected the vehicle as a “favourite”.

The application needs to provide the following actions:

- The ability to filter by Make, Model, a Starting Bid range, and/or show only a user's "favourite" vehicles.
- The ability to sort by Make, Starting Bid, milage and auction date.
- Allow a user to favourite or un-favourite a vehicle.
- The vehicle list should be paginated with the option to select the number of vehicles per page.
- Allow a user to click a vehicle in the results to display a vehicle details page about the clicked vehicle.

Considerations

The application should be delivered with some testing strategy in place (recommendation on the usage of React Testing Library for unit testing).

The usage of libraries like styled-components is a bonus.