

Booster - Code Test

Time Commitment

We expect this code test to take between 2-4 hours.

Background

Vehicle management is a very important component of our operations. After the customers add their vehicle lists to our system, our service professionals can then find and service them in upcoming deliveries.

In order to streamline the vehicle adding workflow, we keep a separate record of all the different vehicles that exist on the market. For example, we have a record with make: 'FORD', model: 'TRANSIT', year: 2017. We store every permutation of a vehicle as a separate entry in our database, so for each model year of the Ford Transit, we have a separate record. Right now, querying our database of VehicleTypes for make: 'FORD' and model: 'TRANSIT' yields 7 discrete records for the years 2015-2021.

Problem

Sometimes our customer has vehicles that are not represented in our dataset. This could be because the vehicle is brand new or because it is a more obscure vehicle. We would like you to build an interface for manually augmenting the dataset with additional vehicles.

Requirements

[VehicleInfo.json](#) file here.

You will find an attached JSON file that contains a data set of Vehicle Types. Build a web application that is capable of displaying the dataset. The page should contain a search bar for fuzzy filtering the data set by make, model, or year. A user should be able to add or delete vehicle type entries, but not edit them. When adding a new vehicle type, the app should check for uniqueness amongst the existing dataset and prevent adding a duplicate vehicle type. Additionally, the web app should persist any changes so that the changes are present after a reload.

Optional, if you finished the challenge above with time to spare ...

- Build the frontend with Angular, React, or Vue, and style it with some CSS
- Add authentication, so that only authenticated users can make changes
- Use an actual storage layer to store the data
- Add tests to your backend / frontend code
- Add logging, monitoring, CI/CD to your project
- Host your code somewhere so that it's accessible out of localhost

Deliverable

Provide a link to a Github repository with the completed work and a README.md file containing instructions for installing dependencies and running the application on a device. The README file should also contain a paragraph or two about some of the design decisions you made and while your reasoning for making them.