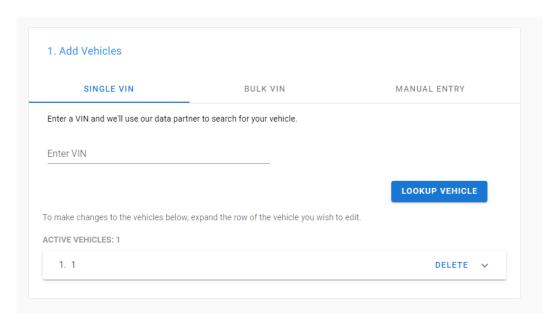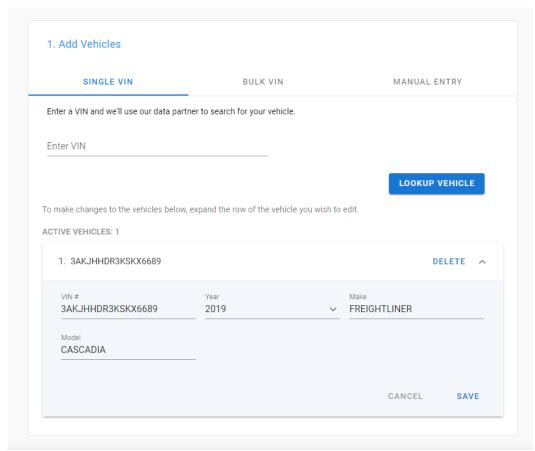# The Test

Using the NHTSA's vPIC API create a small Vue app, written in TypeScript, that can take in a vehicle's VIN number and display it's year, make, and model as returned by the API. Effectively, you are looking to wrap one of the "Decode VIN" API endpoints (either the flat format one or the standard one), and you can leave the others alone. Your app should be modern, clean, tested (e.g., Jest, Vitest), and documented as your first concerns.

In terms of design, you can model it off of the designs seen below, taken from the PolicyFly website:

1. Add Vehicles

SINGLE VIN	BULK VIN	MANUAL ENTRY

Enter a VIN and we'll use our data partner to search for your vehicle.

Enter VIN

LOOKUP VEHICLE

To make changes to the vehicles below, expand the row of the vehicle you wish to edit.

ACTIVE VEHICLES: 1

1. 1   DELETE ⌄

1. Add Vehicles

SINGLE VIN	BULK VIN	MANUAL ENTRY

Enter a VIN and we'll use our data partner to search for your vehicle.

Enter VIN

LOOKUP VEHICLE

To make changes to the vehicles below, expand the row of the vehicle you wish to edit.

ACTIVE VEHICLES: 1

1. 3AKJHHDR3KSKX6689   DELETE ⌃

VIN #   Year   Make
3AKJHHDR3KSKX6689   2019   ⌄   FREIGHTLINER

Model
CASCADIA

CANCEL   SAVE

You do not need to worry about Bulk VIN or Manual Entry, single entry is sufficient for the purposes of the test. Feel free to tweak the design as you see fit, but you should work within the constraints of the Material Design Spec and, ideally, use vuetify. You should strive for a simple, but clean look in the design, something that feels sleek and modern, and not bulky and dated. Some points about functionality:

- When a new VIN is added, the older VIN's should persist into a list at the bottom of the screen.
- When the Save button is clicked, the information for the VIN should be saved to the local state and persisted.
- When the Cancel button is clicked, all edits should be discarded and things should be returned to their previous saved state.

Your code should be well tested, documented, and easy to set up. It should use dependencies effectively and maximize performance wherever possible. Using scaffolding frameworks and code is fine, but you should make sure the code you write is of high quality.

For an example VIN, you can use the following:

- 3AKJHHDR3KSKX6689
- 3AKJHHDR1KSKX6688
- 3AKJHHDRXKSKX6687
- 3AKJHHDR8KSKX6686
- 1JJV532D7KL148311
- 1JJV532D9KL147936
- 1JJV532D2KL148295
- 3H3V532C0LR431008

To submit your code, package it up into a zip file of some sort and attach it to the email response sent back to us. We'll get back to you as soon as we can!

If you have **any** questions at all, please don't hesitate to email us back and ask, we're here to help!