

Factory Software – Software Engineering, Front End (Take Home Challenge)

The Instructions

- Clear Source code (your best example), but not too verbose.
- Well documented instructions to reliably get the project running by another sr. level software engineer
- You are free to use ANY technology, language, or platform as long as a sr. level software engineer can reasonably get it built and tested on their laptop. ****your code MUST run and execute properly**** so test test test
- No hard time limit. Do your best to submit within a couple of days from the time you begin.

The Mission

An EV company is about to begin delivery of a massive number vehicles. They need to track where in the production line the vehicles are ("Station 1", "Station 2", "Station 3" or "On Delivery Truck"), and what the status of the vehicle is ("in progress", "blocked", "completed", "shipped").

Deliverable:

Deliver a web app that visualizes the 4 locations (Stations 1-3 and the delivery truck) and allows a user to move a vehicle from station to station. Adding a vehicle to station 1 should create the vehicle.

At each station, the user should be able to:

- 1) Move the vehicle to the next station in line
- 2) Set the status to "in progress" (default), "blocked"
- 3) If the vehicle moves to Station 3, it should be set to "completed"
- 4) If the vehicle moves to "On Delivery Truck" it should be set to "shipped"
- 5) If the vehicle status is "blocked" it cannot move to the next station
- 6) No vehicle can be moved to a station that already has a vehicle in it

Deliverable II:

Write the pull request/merge request for your application - tell a peer engineer what they need to know to review it

Good Luck!