Camber Coding Interview – Frontend / Full-stack

Objective

Implement basic UI for EV (electric vehicle) charger simulator

Key Terms

- **Electric Vehicle Charger** - a device used to charge electric vehicles and is defined by:
  - ID of the charger (can be generated automatically)
  - State of the charger: offline (default), online, charging, fault
- **Electric Vehicle Charger Simulator** – software used to simulate behavior or EV chargers
  - This project doesn't require the implementation of the simulator, just the UI to manage simulator list
- **Charger Management System (CMS)** - cloud software that manages connected EV chargers
  - For the purposes of this project, there is no need to model or implement CMS

Goals

- Design user interface to create and manage EV charger simulators
- The user interface should support the following operations
  - Add charger simulator - create charger in "offline" state
  - Remove charger simulator
  - Charger simulator commands
    - Turn on (change state to "online")
    - Start charging (change state to "charging")
    - Stop charging (change state to "ready")
    - Simulate fault (change state to "fault")
- Assume single tenant and user system (there is no need to implement support for customers or accounts)
- Store all the data in the local store (data can be lost if the browser is restarted)
- Use any frameworks/libraries (react preferred)