Johnson & Johnson Full Stack Coding Challenge

As part of our interviewing process, we like to get a feel for each applicant's coding style. We want to see how you architect your applications, as well as how you follow coding best practices.

Project Overview

The J&J software engineering garage is looking for a way to keep track of testing devices. The goal of this challenge is to create a web application (both front end and back end) that sends and receives data.

Your application must:

- Display a list of devices currently in storage
- Be able to add and remove devices
- Be able to check-in/out a device to/from storage
- Give good user feedback on the status of all devices
- Save updates to a database of your choosing
- Run without issues

Edge cases your application should handle:

- Attempt to check out a device that's already checked out
- Checkouts can only be performed between 9:00am - 17:00pm
- Indicate if a device has been checked out for more than a week
- Max number of allowed in the garage is 10, the system should prevent adding more.
- Each person can only check out one device at a time.

You are free to architect the app as you see fit but it must be easy to follow. A detailed readme must be supplied with clear instructions on how to run the app. The easier the setup the better. Unless specified by the interviewer you can use any framework or library you like.
Please briefly outline your approach in the readme as well as any problems you may have an encountered.

Tips

- We place an emphasis on quality so please show off anything you can to demonstrate this in your submission.
- Please code as if you are working on a team project. ie. Code should be clear to future developers and easily maintainable.
- Show off your skills. If you feel you can provide anything extra outside the given requirements don't hesitate.
- Don't stress too much over the UI design of the solution. Feel free to use whatever libraries/templates you want for decent CRUD application
- Example device data model

```
{
    "id": 3,
    "device": "Moto G",
    "os": "Android 4.3",
    "manufacturer": "Motorola",
    "lastCheckedOutDate": "2016-02-21T09:10:00-05:00",
    "lastCheckedOutBy": "Chris Evans",
    "isCheckedOut": false
}
```