



Full Stack Developer challenge:

Device Management

The purpose of this exercise is to help any store manager to have a friendly interface which allows them to manage any items in their shop.

It should also help them find an item by brand or model, and to see more details using a simple search.

For this example, we're simulating a **Mobile Device shop**.

To familiarise with the data, you can find attached an SQL file which will generate a list of devices in your database. You will read, write and modify the structure of the database when required.

Please provide a public Git repository link where is possible to download the code to review.

Enjoy!

Backend requirements

- RESTful API using PHP (7.4+) with any Framework
 - PostgreSQL or MySQL database
 - PHPUnit (*optional*)
 - Use Docker to create your environment
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Frontend requirements

- VueJS with Vuetify (<https://vuetifyjs.com>)
 - Use the **Data Tables** component for listing the items interface (<https://vuetifyjs.com/en/components/data-tables/>)
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Tasks

API:

- Create API routes
- Create the database using the **SQL file provided**
- Add '**created_datetime**' and '**update_datetime**' records to the SQL devices table
- Make sure that the **created_datetime** saves the current date/time by default and never updates
- Make sure that the **update_datetime** updates the value with the date/time of the action

WEB UI:

- List all the devices showing **Brand**, **Model**, **OS** and **Release Date**
- Order listed items by **OS** alphabetically
- Add ability to search by any listed column
- Ability to add a new device
- Ability to edit an existing device
- Ability to delete a device

OPTIONAL:

- PHPUnit test:
 - Add assertion for a required model and brand
 - Add assertion for a valid **release_date** format (YYYY/MM)
- API and Frontend
 - Add validation for the **release_date** format (YYYY/MM)
 - Make the **Brand** and **Model** fields mandatory