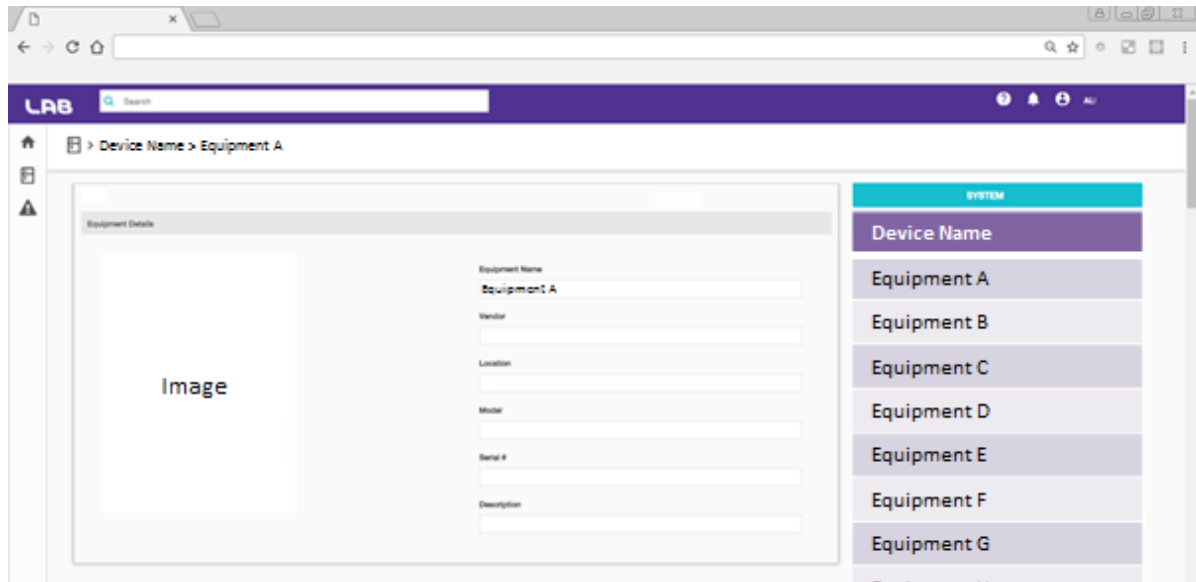


Objective : Lab equipment viewer

Design the front-end for viewing the lab equipment details and back-end for managing the lab equipment data.

Viewer can display the details of one equipment at a time, or the details of all equipment based on user input.



Functional Requirements

UI layout

The viewer has a header where equipment name can be searched.

The viewer has breadcrumb to display the current selected equipment.

The viewer has an equipment detail card to display the equipment details.

The viewer has a device selector which shall display the list of equipment.

User can select an equipment from the device selector. The details of the selected equipment will be displayed on the equipment detail card.

User can select the SYSTEM button on the device selector, equipment cards for all the equipment in the database is displayed one below the other.

Equipment detail card

The equipment detail has following information

1. Image of the equipment
2. Equipment Name
3. Vendor name
4. Location
5. Model
6. Serial #
7. Description of equipment

Breadcrumb

Breadcrumb shows the hierarchy of selected equipment.

When Equipment A is selected, breadcrumb shall display : Device name > Equipment A

When all equipment are displayed, breadcrumb shall display : Device name

Device Selector

Shall display the list of equipment in database.

Shall be a scrollable list.

Back-end

There shall be REST API to manage the equipment data.

The equipment data is read from database.

Search in header

Header has a search component, while typing any character it should filter the content in the device selector based on character matching.

Notes:

- This is a design and development exercise so we'd like to know how you break the application into different functions and build it
- Use best judgement for user experience.
- Use the tools of choice for editing, building, deploying provided we have the front end using ReactJS+Redux and backend in Java-Springboot
- Search in header is a nice to have requirement
- Feel free to ask questions.