Have you ever wondered how hospitals were planned out?

A lot of planning goes into building and updating a hospital such as figuring out the power requirements not only for the hospital itself but for each room in that hospital. Adventium had an existing back end for this purpose that designers and planners used to plan and manage hospitals, but it was not user friendly being a command line interface level of design so they requested that we create a user friendly front end using React and Material UI.

From this

![Command Line Interface](image)

To this

![GUI](image)

Solution: GUI using Material UI and React

How?

The basic proposed solution by Adventium was using a hierarchal design which allowed users to go through various parts of the hospital and have information on each screen about that section of the hospital. The basic hierarchy of the project is Hospital -> Unit -> Room -> Bed -> Medical Device. The information that needed to be displayed was for example the power consumption of a device or what networks were in the room. The basic layout of the project is top half of the screen information on the current area and below that information and links to the next thing in the hierarchy.

Results

Have you ever wondered how hospitals were planned out?

Special features include easier navigation similar to a file system, sorting by table column, both summary and table views.

Bed 1 Information

Bed Name: Bed 1
Patient: Patient1
Patient Net: patientNet1
Hospital Net: hospitalNet1
UPS Power Budget: 100 KWH
Normal Power Budget: 100 KWH
Number of Devices: 5

Bed 1's Devices Table

<table>
<thead>
<tr>
<th>Device</th>
<th>Power Consumption</th>
<th>Power Budget</th>
<th>Energy Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGA</td>
<td>10.000W</td>
<td>100.000W</td>
<td>100.000W</td>
</tr>
<tr>
<td>ECG</td>
<td>20.000W</td>
<td>200.000W</td>
<td>200.000W</td>
</tr>
<tr>
<td>Monitor</td>
<td>30.000W</td>
<td>300.000W</td>
<td>300.000W</td>
</tr>
<tr>
<td>Pumps</td>
<td>40.000W</td>
<td>400.000W</td>
<td>400.000W</td>
</tr>
</tbody>
</table>

Room Design

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