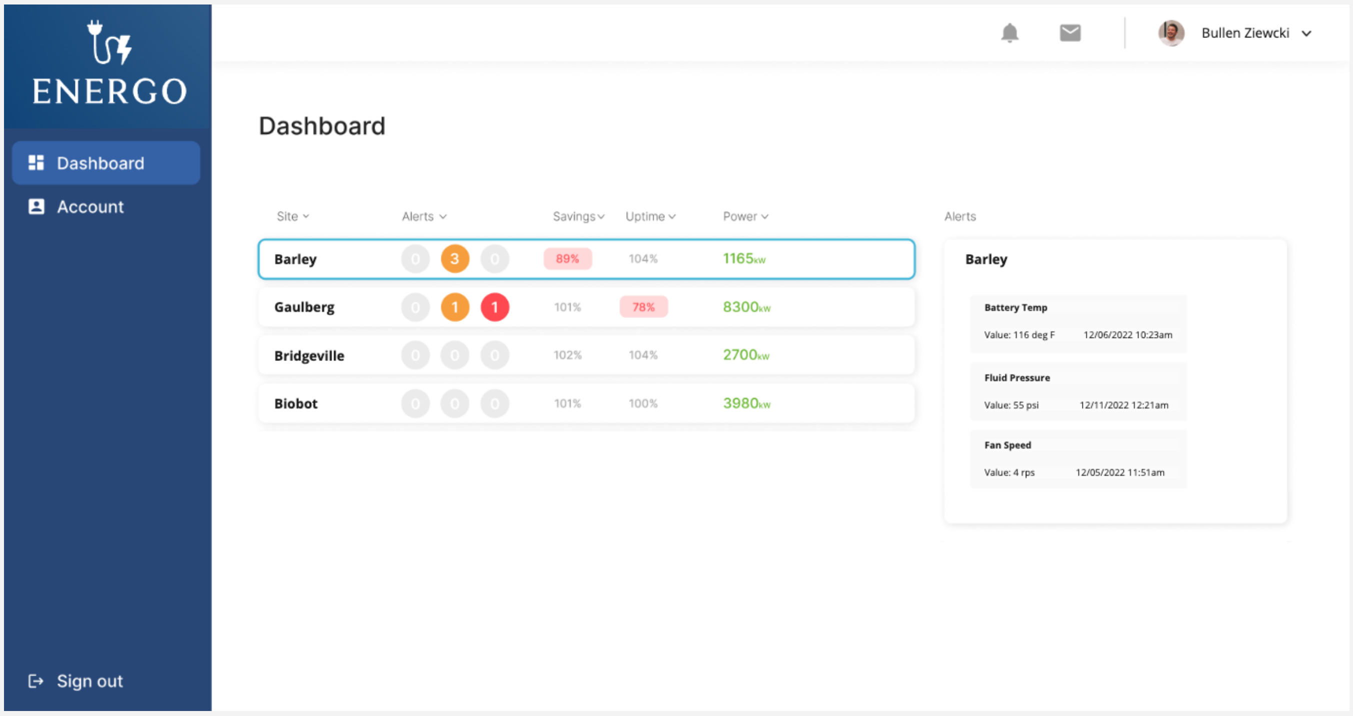
# Front-End Coding Test

## Introduction

Monitoring a large portfolio of sites with energy resources (including batteries, solar panels, wind turbines, and generators) is a challenging task. Some of these resources have alerts that need to be made prominent to the user. Besides alerts, the user is interested in seeing the overall energy production from each site.

## Problem Statement

Build a simple containerized dashboard application, to show a screen like below, using one of the standard UI frameworks. The values to fill in are provided in JSON format after the image. Use the images in your email for the left bar and top bar (these don't need to be clickable). Also, given there is no CSS attached, focus on getting the dashboard elements right using the values from JSON, rather than exact alignment or color.



Dashboard

| Site | Alerts | | | Savings | Uptime | Power |
|---|---|---|---|---|---|---|
| Barley | 0 | 3 | 0 | 89% | 104% | 1165kw |
| Gaulberg | 0 | 1 | 1 | 101% | 78% | 8300kw |
| Bridgeville | 0 | 0 | 0 | 102% | 104% | 2700kw |
| Biobot | 0 | 0 | 0 | 101% | 100% | 3980kw |

Alerts

Barley

Battery Temp
Value: 116 deg F 12/06/2022 10:23am

Fluid Pressure
Value: 55 psi 12/11/2022 12:21am

Fan Speed
Value: 4 rps 12/05/2022 11:51am

If we change the JSON values and rerun the app, the values shown on screen need to change. You can assume that the JSON tags are standard. Notice that when the row for the "Barley" site is clicked, the values from Barley need to populate the "Alerts" paper module shown to the right. Similarly, clicking "Gaulberg" should show the alerts for the Gaulberg site as shown in the JSON. If there are no alerts for a site, you can use some placeholder text like "No alerts".

# JSON Data

```
{
    "sites": [
        {
            "Name": "Barley",
            "Alerts": {
                "high": {
                    "count": 3
                },
                "med": {
                    "count": 3,
                    "details": [
                        {
                            "metric": "Battery Temp",
                            "unit": "deg F",
                            "time": "12/06/2022 10:23am",
                            "threshold": 110,
                            "value": 116
                        },
                        {
                            "metric": "Fluid Pressure",
                            "unit": "psi",
                            "time": "12/11/2022 12:21am",
                            "threshold": 32,
                            "value": 55
                        },
                        {
                            "metric": "Fan Speed",
                            "unit": "rps",
                            "time": "12/05/2022 11:51am",
                            "threshold": 6,
                            "value": 4
                        }
                    ]
                },
                "low": {
                    "count": 0
                }
            },
            "Savings": "89%",
            "Uptime": "104h",
            "Power": "1165kW"
        },
        {
            "Name": "Gaulberg",
            "Alerts": {
                "high": 0,
                "med": {
                    "count": 1,
                    "details": [
                        {
                            "metric": "Water Temp",
                            "unit": "deg F",
                            "time": "10/26/2022 11:23am",
                            "threshold": 99,
                            "value": 105
                        }
                    ]
                },
                "low": {
                    "count": 1,
                    "details": [
                        {
                            "metric": "Exhaust Volume",
                            "unit": "cuft",
                            "time": "11/16/2022 01:33am",
                            "threshold": 55,
                            "value": 78
                        }
                    ]
                }
            },
            "Savings": "33%",
            "Uptime": "15h",
            "Power": "8300kW"
        },
        {
            "Name": "Bridgeville",
            "Alerts": {
                "high": {
                    "count": 0
                },
                "med": {
                    "count": 0
                },
                "low": {
                    "count": 0
                }
            },
            "Savings": "52%",
            "Uptime": "315h",
            "Power": "2700kW"
        },
        {
            "Name": "Biobot",
            "Alerts": {
                "high": {
                    "count": 0
                },
                "med": {
                    "count": 0
                },
                "low": {
                    "count": 0
                }
            },
            "Savings": "76%",
            "Uptime": "423h",
            "Power": "1530kW"
        }
    ]
}
```