

Lederbord Project Proposal

Company background

Lederbord is a startup which manufactures a portable, wireless, app-controlled scoreboard for multisport use by university Club/IM sports departments. Lederbord has been operating for approximately 3 years, and is run by a team of seven. We have finished our first two production batches and sales of the Lederbord, and have just put in our third order. In addition, the IM sports department at Mines has purchased two of our boards, so you may have even seen them around! Check out our website, www.lederbord.com, for more info!

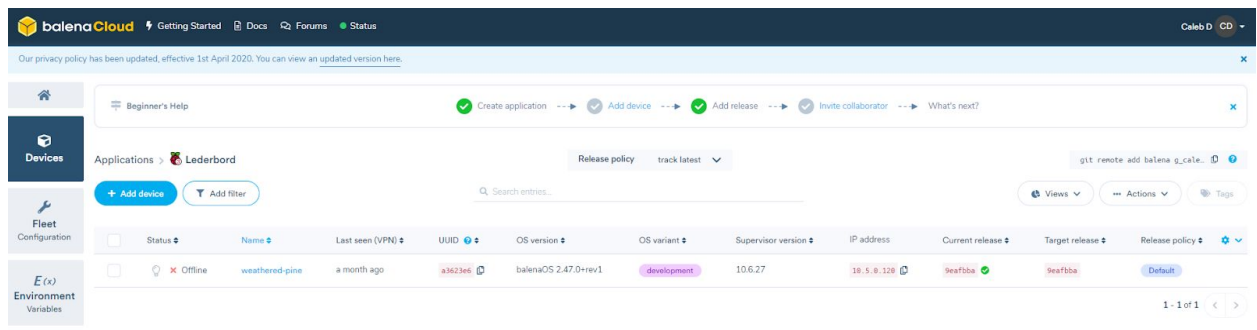
Project Description

At Lederbord we have consistently faced difficulty managing our fleet of Lederbords. We have recently installed a new platform to manage our devices, and we would like you to build a web dashboard which will allow us to view important metrics such as OS adoption percentages, connection times, and device owners. The platform we have switched to is called BalenaOS (<https://www.balena.io/os/>), and it provides an API which will provide a strong jumping off point!

What We Have (CLI)

```
PS C:\Users\cdud8> balena devices
ID  UUID          DEVICE NAME      DEVICE TYPE  APPLICATION NAME  STATUS  IS ONLINE  SUPERVISOR VERSION  OS VERSION          DASHBOARD URL
3   ed7cc14      autumn-breeze   raspberrypi3  lederbord        Idle    false     10.6.27             balenaOS 2.47.0+rev1 https://dashboard.lederbord.ninja/devices/ed7cc14728
3a9959d33cb1cb4d07b975/summary
5   18417a1      crimson-shadow  raspberrypi3  lederbord        Idle    true      10.6.27             balenaOS 2.47.0+rev1 https://dashboard.lederbord.ninja/devices/18417a1a96
47d4a8d011099c8c7c5026/summary
4   4689afe      dkopala_old     raspberrypi3  lederbord        Idle    false     10.6.27             balenaOS 2.47.0+rev1 https://dashboard.lederbord.ninja/devices/4689afe6431
3db9f490207e29f67efe7b/summary
12  8b69431      dkopala_old_2   raspberrypi3  lederbord        Idle    false     10.6.27             balenaOS 2.47.0+rev1 https://dashboard.lederbord.ninja/devices/8b694318c7
bfb65634bfe1026de411ba/summary
6   2f63a18      green-voice     raspberrypi3  lederbord        Idle    false     10.6.27             balenaOS 2.47.0+rev1 https://dashboard.lederbord.ninja/devices/2f63a18b2a
7f5908c8c8a8cdf9b095a9/summary
1   5521d71      late-moon       raspberrypi3  lederbord        Idle    false     10.6.27             balenaOS 2.47.0+rev1 https://dashboard.lederbord.ninja/devices/5521d71693
590cc4f1d01162303096bd/summary
2   5943cbd      twilight-meadow raspberrypi3  lederbord        Idle    false     10.6.27             balenaOS 2.47.0+rev1 https://dashboard.lederbord.ninja/devices/5943cbd258
b062204eb899da36cd702b/summary
```

What We Want (super boujee web dashboard)



Desired Skill Sets/Learning

If you have these skill sets already, you will be building them in new ways; if not, this is what you can expect to learn through the project!

- REST API's
- Modern Web Design (React/Angular/Vue/etc)
- Docker Containers (big industry buzzword!)
- Raspberry Pi
- Linux

Intellectual Property

All intellectual property will be maintained by Lederbord LLC. It will be necessary for you to sign a Nondisclosure Agreement at the beginning of the project

Preferred Team Size

3-5 members

Future Work

Yes! Lederbord is a startup which has multiple platforms to manage (two mobile apps and the embedded device). We need developers!

Location

We're all in Denver, would love to meet in person with social distancing or online via Zoom!