Project Proposal

ECEN 5033 DEVOPS

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What's the Problem?

In many embedded device applications, knowing the location of a device is of high value. However, seeing raw coordinates in a text file is not very useful and requires extra effort on behalf of the operator to extract meaning and value. Current solutions only work on locally hosted web servers and are therefore inaccessible or rely heavily on third party application software which comes at a hefty price or limited feature set.

What's the Solution?

In this project, a web server is proposed which allows a user to visualize the last logged location of a device in a web browser. The webpage can be accessed from any device with an internet connection, however, to prevent malicious actors, an authentication step will be required (email and password combo). This solution will serve as a foundation for other device metrics to be logged, such as temperature, humidity, pressure, sound, ambient light, in the future.
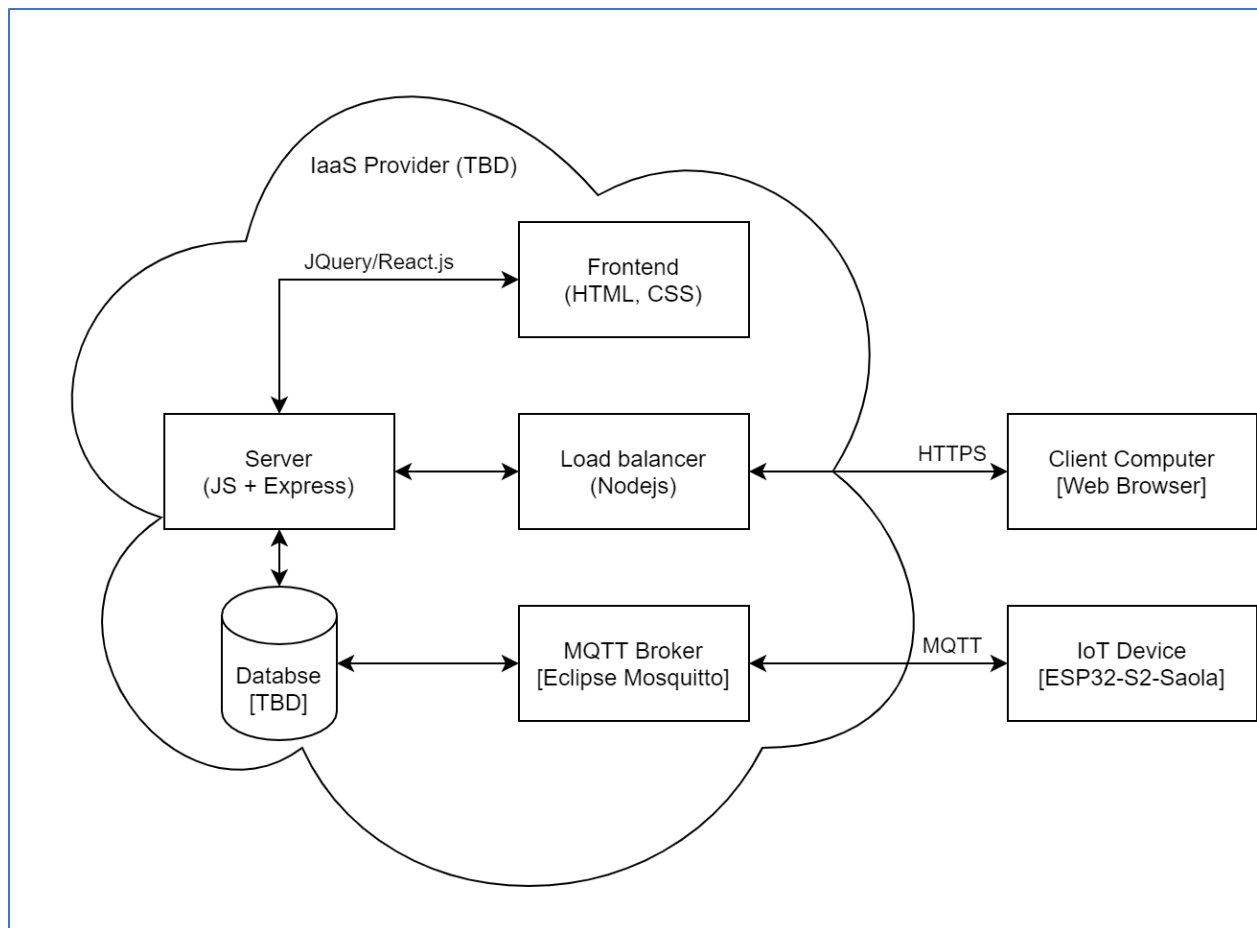
Block Diagram

Figure 1. Block diagram of proposed solution architecture.

Website Mockup

← → ⟳ | 📄 https://www.some-domain-name.com

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Google Maps API

Device Name / Device Coordinates

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Project Description

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