Project Aero

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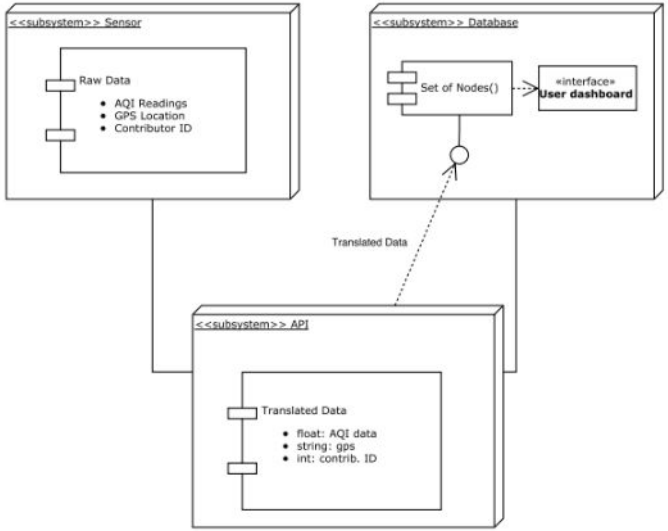
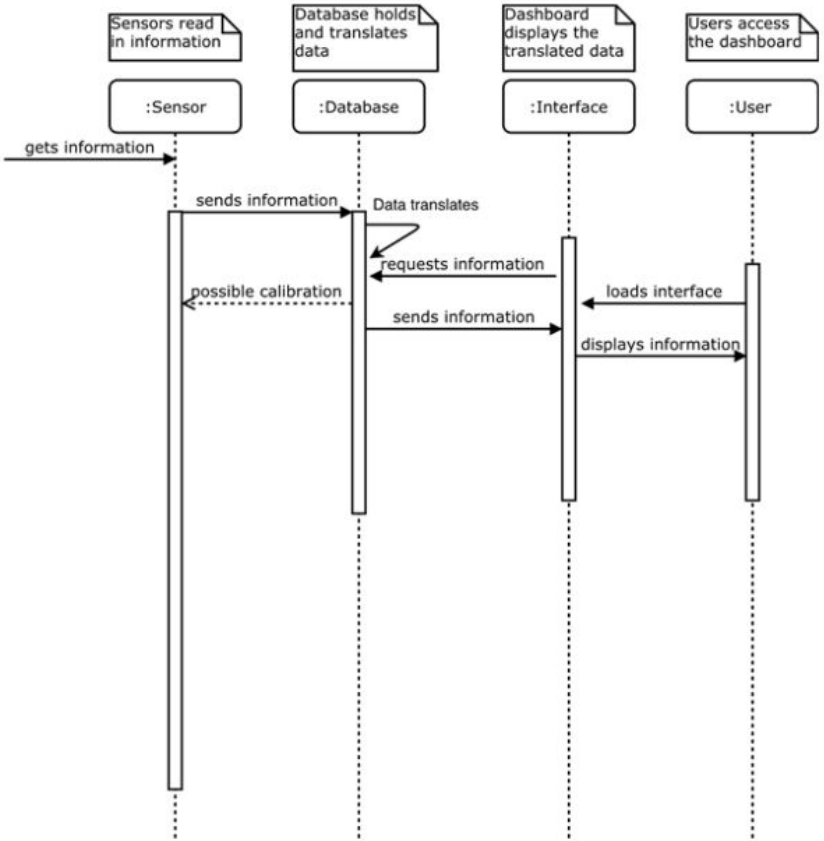
Design Overview

Hard and Challenging things:

- Accepts sensors of all types
- Finding ways to throw out bad data
- Registering contributors

Design Overview (Cont.)





Tools and Platforms

Ruby on Rails

- Object-oriented
- Test-driven development
- Easier on-boarding process
- Highly scalable
- Excellent support and documentation
- Secure

TimescaleDB

- Built for time-series data
- Uses PostgreSQL
- Advanced query optimization
- Everything is run on a LAMP stack

Challenges

Outstanding

Learning Ruby for the design of our system

Calibration?

Using API in the aspect our client wants

Solved

How we were going to get our sensors (engineering, privately, or publicly)

The depths and levels of the system the client wanted us to implement

How we wanted to display our information to our users

Plans for the Break

Research:

- Sensors
- Ruby on Rails
- PostgresSQL

Goals:

- Have a wireframe of the dashboard
- Setup database
- Setup server

Meetings:

- Have two meetings via google hangouts

Conclusions

Start of Spring Semester

- Hoping to have a product prototype based on original requirements.
- Have a fully working system before Spring break.

Questions???