Minutes

Location: Shed
Date: Tuesday 23rd January
Not In Attendance: Dharius Robinson

Attendance: Daniel Knox, Daniel Carl Beauchamp, Natalie Mclaren

What's Been Done since the Previous Meeting:
<Natalie M>:
- Set up API components using Vue.js to show database data on graphs
- Work on corpus material (collating all reasoning behind chosen technologies)
<Dharius>:
- Add necessary C++ code to work with battery
<Daniel B>:
- Finish refactoring C++ code and fix errors
- Set up API endpoints and date range DB queries

Topics discussed:

- **Corpus:**
  - Natalie shows Dan Knox the brief introduction paragraph that she added to the corpus above the index, outlining a timeline for each of the index's references.
  - Dan Knox explains an introduction for each section might be more handy to better explain the timeline and reasoning behind working with such references i.e. why did we work around System, Architecture and Module designs?

- **API:**
  - Dan Knox lists a few other endpoints we could potentially have:
    - Last connection
    - Location
    - Unit factor

- **C++ source code:**
  - Dan Knox suggests we use 'progmem' in place of the current 'serial.println' as 'serial.println' uses up a lot of RAM. 'progmem' puts it into flash

- **Grafana graphs - http://docs.grafana.org/**
  - Daniel B asks whether it is worth using?
    - Dan Knox says it depends on what we're focusing on getting graded on. And that we should make this obvious in the corpus

- He says using it for project fair would be fine, and probably best as it looks nice and will attract attention. Plus it will show that we are polishing up our actual API graphs but would still like to show a good looking graph for the fair. He wouldn't advise us using it in the corpus however.
- Dan Knox suggests we consider looking at embedding an iframe into grafana or look for a grafana mapping plugin. Leaflet.js

- **Poster fair:**
  - Dan Knox points out that if we are going to show this data at project fair - we will want a lump of it so maybe deploy the device somewhere soon to get enough readings
  - Dan Knox's suggestions on poster:
    - Avoid using classic templates
    - Avoid adding a banner of the tech icons used i.e. laravel in this case or vue.js

- **Viva:**
  - Daniel B asks whether a valid reason behind the use of our chosen tech stack would be that some members had experience in it?
    - Dan Knox confirms this is okay, and that another reason can be that we simply wanted to learn a new technology i.e. vue.js

- **Project management:**
  - Dan Knox mentions that it would be useful to say we used GitHub as we mention source control and refactoring

What's Being Done:
- Introduction for each reference in the corpus
- Further work on C++ source code and API to get it done ready for testing by February 15th as said in last group meeting.

Further Discussion: