Minutes

Location: Shed
Date: Tuesday 16th January
Not In Attendance: N/A

Attendance: Daniel Knox, Daniel Carl Beauchamp, Dharius Robinson, Natalie Mclaren

What's Been Done since the Previous Meeting:
<Natalie>: Source code refactoring and adding corpus materials
<Dharius>: Experimenting with battery choices
<Daniel>: Working with the API and assisting on code refactoring

Topics discussed:

- **Progress over Christmas holiday:**
  - Dan Knox looks over refactored source code.
  - Dan Knox looks over 'choice of battery' document:
    - He confirms that when batteries work in parallel, the voltage remains the same but capacity increases. When batteries work in series, the voltage and capacity remain the same.
    - He asks why we choose 4.5 volts - Dharius explains that we thought it would be a reasonable amount to ensure it continues to run even with voltage drop off, as there is a lot more than 3v (which is what the processor currently works on).
    - Dan Knox says the datasheet should tell us the minimum vol tage for each component.
    - He believes that [regarding the Adafruit Feather], input goes into a voltage regulator then into the feather.
  - Dan Knox looks over corpus:
    - He recommends that we add an overview before the index - to act as a sort of timeline for the index titles.
    - He also suggests some explanations/reasonings in documents such as the Architecture Design pdf.
  - Daniel B explains API is currently giving out some errors so would like to show it at next week's meeting after working on it this week.
  - Dan Knox suggests we join The Things Network Slack channel to get status updates.
  - Daniel B asks about gateways - more specifically, what would be the best thing to setup so it is usable by the area and not just himself?
    - Dan Knox explains that setting up a standard gateway should do it. It is pretty automatic and will appear on the network.
    - He explains that whilst it won't appear under any community pages, it will appear on mappings and people will guess there is a network available upon seeing it.

- He suggests the higher up we place the device, the better - the further away from obstructions the better.
- He suggests near a window of a second storey house.
- Daniel B asks whether the East Kent College would be an option - Dan Knox says that if we explain it is a Kent Uni project, there shouldn't be an issue. However putting it up in our own homes for now might be simpler.
- Dan Knox confirms that he can provide us with coverage maps of the area we decide to mount it in.

What's Being Done:
- Fixing source code error.
- More corpus material will be added
- Fixing API error

Further Discussion:
- After the meeting with Dan Knox, group members met up to work on project and agreed a date in which all source code should be completed by - **15th February.**