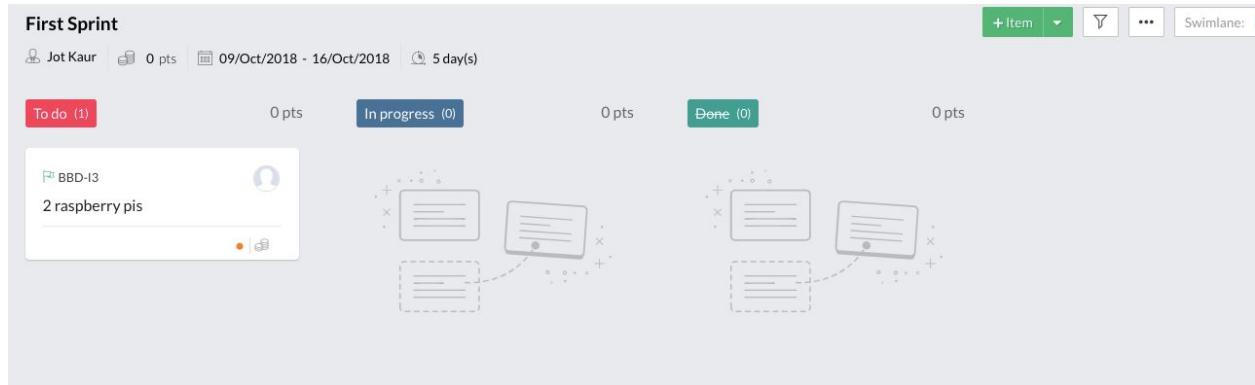**Project Management Tool**

We are using Zoho Sprints to organize our Agile project management.
Screenshot of first 3 sprints:

Sprint 1(current):



Sprint 2:

Sprint 3:

⊖ **Sprint 3 - 10/23**

👤 Jon Oulton  |  📅 23/Oct/2018 - 30/Oct/2018

🏴 BBD-I13

PostgreSQL Database- Devices

Unassigned

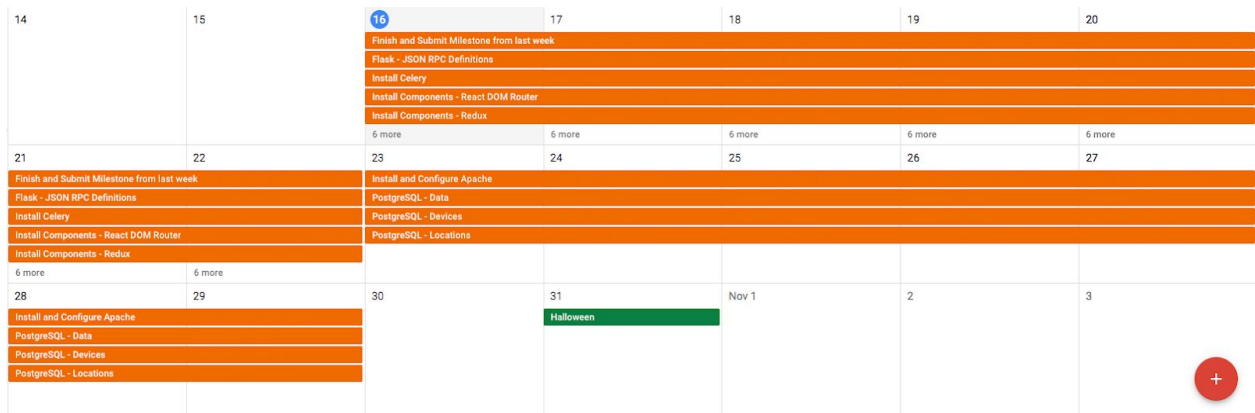🏴 BBD-I14

PostgreSQL Database - Locations

Unassigned

🏴 BBD-I15

PostgreSQL- Data

Unassigned

🏴 BBD-I16

Install and configure Apache 2.0

Unassigned

➕ **More Work Items**

## Example Screenshot view of Calendar View for project tasks

| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|
| | | Finish and Submit Milestone from last week | | | | |
| | | Flask - JSON RPC Definitions | | | | |
| | | Install Celery | | | | |
| | | Install Components - React DOM Router | | | | |
| | | Install Components - Redux | | | | |
| | | 6 more | 6 more | 6 more | 6 more | 6 more |
| **21** | **22** | **23** | **24** | **25** | **26** | **27** |
| Finish and Submit Milestone from last week | | Install and Configure Apache | | | | |
| Flask - JSON RPC Definitions | | PostgreSQL - Data | | | | |
| Install Celery | | PostgreSQL - Devices | | | | |
| Install Components - React DOM Router | | PostgreSQL - Locations | | | | |
| Install Components - Redux | | | | | | |
| 6 more | 6 more | | | | | |
| **28** | **29** | **30** | **31** | **Nov 1** | **2** | **3** |
| Install and Configure Apache | | | Halloween | | | |
| PostgreSQL - Data | | | | | | |
| PostgreSQL - Devices | | | | | | |
| PostgreSQL - Locations | | | | | | |

**Project Requirements**

Task to sprint key (one week each):
Sprint 1 - 10/9 -10/15
Sprint 2 - 10/16 - 10/22
Sprint 3 - 10/23 - 10/29
Sprint 4 - 10/30 - 11/5
Sprint 5 - 11/6 - 11/12
Sprint 6 - 11/13 - 11/19
Sprint 7 - 11/20 - 11/26
Sprint 8- 11/27 - 12/4

**Functional**

| ID | Requirement |
|----|-------------|
| 1 | Display Sound and Temperature Data |
| 2 | Timeline of historical data |
| 3 | Live feed |
| 4 | Ability to Select Location, maybe interactive map or menu |
| 5 | Website interface for people to access data |

**Non-Functional**

| ID | Requirement |
|----|-------------|
| 1 | ● Doing calculations on historical data<br>　　○ Convert digital reading to numbers |
| 2 | ● Front-End<br>　　○ Aesthetic front end<br>　　○ React<br>　　　　■ Install Components<br>　　　　　　● React-DOM-Router<br>　　　　　　● Material-UI<br>　　　　　　● Redux<br>　　　　　　● Socket IO<br>　　　　■ Local Storage/State Container<br>　　　　　　● Initial Server Polling<br>　　　　　　● Socket IO Listening<br>　　　　■ Pages<br>　　　　　　● Home/Map<br>　　　　■ Components<br>　　　　　　● Graphing |

| | |
|---|---|
| | ● Device Details |
| 3 | ● Interface-Layer<br>　○ Flask Web Server<br>　　■ Installation<br>　　■ JSON RPC Definitions<br>　　　● Format<br>　　　● Errors<br>　　■ Reflection Wrapper<br>　　■ Celery Workers<br>　　　● Uploading<br>　　　● Downloading<br>　　■ SQLAlchemy<br>　　　● Devices<br>　　　● Locations<br>　　　● Data<br>　○ Rabbit MQ<br>　　■ Installation<br>　○ Socket IO<br>　　■ Installation<br>　　■ Rabbit MQ/Celery Integration |
| 4 | ● Back-End Website<br>　○ PostgreSQL Database<br>　　■ Devices<br>　　　● ID<br>　　　● Name<br>　　　● Location ID<br>　　■ Locations<br>　　　● ID<br>　　　● Name<br>　　　● Latitude<br>　　　● Longitude<br>　　■ Data<br>　　　● ID<br>　　　● Device ID<br>　　　● Location ID<br>　　　● Timestamp<br>　　　● Name/Type<br>　　　● Value<br>　　　● Units<br>　○ Static Web Server<br>　　■ Apache 2.0<br>　　　● Installation<br>　　　● Configuration |
| 5 | ● Hardware |

| | |
|---|---|
| | ○ End goal: 10 RPis<br>○ Intermediate Steps<br>    ■ Show proof of concept with 1-2 RPs<br>○ Stand by mode vs active mode<br>    ■ Stand by: 1 reading per minute<br>      ● Regular reading<br>    ■ Active mode: 3 readings per minute<br>      ● When the user looks at a specified device |

**Number of Sprints Required**
We will have 8 1-week sprints total.

**Tasks for each Sprint**
Detailed in the above table using color-coding.

**Plan Cycle within the Project Management Method**

**Agile Methodology**

**Agile Standup:**

| Member | Completed since last week | Will complete by next meeting | Obstacles |
|---|---|---|---|
| Johnson | Filled the communications part for milestone 1 | PostgeSQL | |
| Alex | Bought hardware | Familiarize with HTML | Laziness |
| Jon | Nothing | Figure out how hardware works, understand which part of site to do first | Out of town for two days, tests |
| Jot | Explored Git more | Understand all the tasks | Tests, busy |
| David | Didn't do much | Install software on server, plan ahead for sprints | Finding time |
| Albert | Not much | Think about front end | Need to be more knowledgeable |

**Retrospective Meeting Comments**

The project hasn't really gotten started yet in full force, so it feels a bit odd to have all these communication / project management tools (e.g. Slack, Zoho, Git, Google Drive, Text Messaging). However, they all have important functions for the project and we feel they will become useful very soon.

Each meeting has had very good team attendance, and we are working well and communicating effectively as a team. Everyone seems happy with the project and is excited. When asked, everyone says they feel they are listened to within the group and feel that they have contributed in a meaningful way.