**Team**: POST

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**Primary Tasks for Spring 2019**:

1. Transition from using Google Fusion Tables as our database to using Firebase

* Currently, we export our data from the ODK aggregate server to Google Fusion Tables
* However, development on Google Fusion Tables has since been discontinued and will be completely shut down by December 2019
* In order to preserve our data and make sure any new incoming data is still being accounted for, we will start using Firebase as our new database.

1. Set up an automated email system to send reminders to plant operators to send data.

* As mentioned last semester, we continue to face the issue of plant operators not sending data very frequently (or at all)
* In order to combat this, we wish to establish a system that will send weekly reminders to operators to send plant data through ODK
* The idea is to send a snapshot of the graph we have along with a message to either (1) commend them for sending data and encourage them to continue doing so, or (2) let them know they are not sending data as frequently as we would like and remind them about why it is important
* Last semester we spent a lot of time working with Firebase cloud functions that did not work at all; this semester we want to investigate other alternatives

1. Deploy the Angular version of the website

* The Angular website has been under development for some time, and we believe it’s about time that it finally gets deployed

**Steps to Accomplish Each Goal**

1. Google Fusion Tables → Firebase

* Step 1: Familiarize ourselves with Postman, a tool for testing POST requests
* Step 2: Learn how to send a POST request from the ODK Aggregate server
* Step 3: Learn how to receive a POST request in Firebase and add the encoded data to a database

1. Emails

* Step 1: Find a system to use for this task - the initial idea is to use Python
* Step 2: Establish a simple automatic email system using local data
* Step 3: Figure out how to incorporate graphics in the email as well
* Step 4: Improve the system to pull data from a database
* Step 5: Decide how and in what way we will customize the email content for each plant
* Step 6: Test and deploy the system

1. Angular

* Step 1: Make some small but important design changes to the website
* Step 2: Add a table feature to the website (although this is not a necessity for deployment)
* Step 3: Test and deploy the site