

## **Sprint 5 Report**

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### **Intended Progress:**

Entering into sprint five we already had the majority of our main tasks handled. Most of our issues were meant to improve and consolidate the functionality and features that were already implemented.

### **Progress Reflection:**

This has been a productive sprint for the team. We have worked to improve some of our current features and to consolidate the project as whole. No issues have been left open, which leaves us where we want to be in terms of our timeline. Thanks to the progress made this sprint, sprint 6 will not be a hassle, and we will have plenty of time to finish all the intended features. Beyond the tasks we had assigned for the sprint, we also created our poster board for the project day presentations.

### **Closed:**

**Sponsor clarification on push notifications-** We asked sponsor the direction they wanted to take the alert system and they said that the push notifications were not needed so cut that functionality.

**Connect alert system with data check/front end-** We used a lambda function to check the AQI to update the maps and also included the alert sending here.

**Begin combining health and sensor data-** We began to look at what we had available for this data and how to bring them together for future projects.

**Compare health data to sensor location-** We began to see if we could do anything currently with the limited data that we have.

**Form error handling-** There were a few small errors in the sign up form that needed to be fixed. We also needed to include the phone carriers to perform text alert functionality.

**Improve neighborhood map UX-** Created a newer and upgraded legend with more color division depending on the neighborhood AQI.

### **Still Open:**

No issues were left open in this sprint.

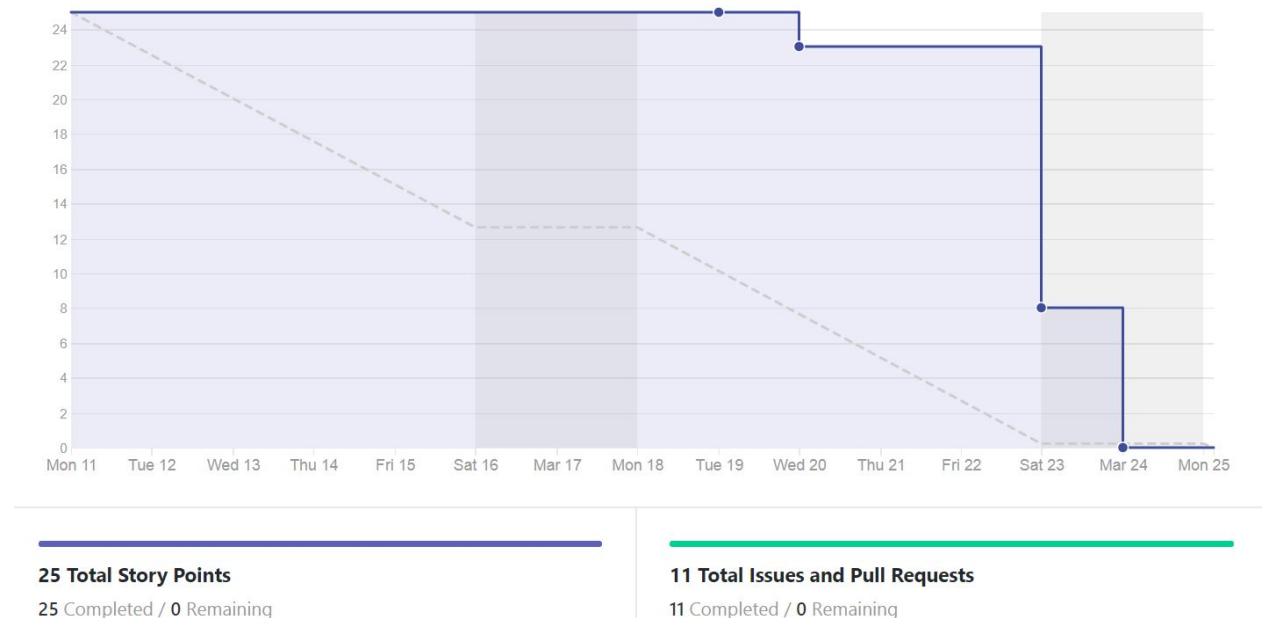
### **Problems Encountered:**

When going to automate the map updates with sensor data, we ran into a permissions issue on DynamoDB with the lambda functions. Work was just a bit delayed while we waited for our permissions to update so we could make new functions. We also had issues coordinating between the building of the python maps and the implementation of those maps into the front end. We had some minor miscommunication issues that resulted in having to rework some code toward the end of the sprint. Not a big deal, just something we didn't expect.

### Projected Progress:

Our final sprint will be focused mostly on cleaning up our loose ends. We will also make sure that all of our code is appropriately commented and documented because after we finish this sprint our project will be handed to a group of other programmers to finish anything they believe is still needed and host the website. We have a majority of our error checking and handling established (as much as possible without hosting the web app) but we will also work on any testing issues here. We will be adding a Spanish translation of the website, and ensuring that our app has a mobile-friendly experience. We are also tinkering with supplemental tasks that our sponsors gave us such as looking at health data given to us and making comparisons with air quality data.

### Update of burn down chart:



### Conclusion:

While we still had most of our main functionality done before this sprint we still made improvements. We worked to fix up the small errors that we had left, cleaned to UI/maps,

and began on the supplemental tasks we were given by our sponsors. We were satisfied with the work we completed this sprint as we closed all of our tasks and how our project is finishing up nicely.