Sprint 1 Report

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Intended Progress

The first objective of the team this week was to acquire the hardware needed to perform our tasks. After that, we need to set up the OS, and test its basic functionality. Then we wanted to lay down the framework for the long-term storage of information in the root machine. Information about jobs includes part progression and the number of scrap parts. The database should also contain data on workstations, including the current job, tote capacity, and status.

Progress Reflection

During the first sprint, the team used Python and the standard sqlite3 library to create an SQL database which is accessed locally through a file path. The current database stores information about jobs, though it does not yet have store information about workstations. The functionality for initializing a database, as well as CRUD operations, exists in functions that can be imported and used by other scripts.

Additionally, we set up a basic server and test client in order to test the process of sending data from one pi to another and then saving that data to the database. This will be useful when both ASPC teams are ready to set up and test communications between the server and sensors.

Problems Encountered

Our team encountered some problems that hindered development. The hardware did not arrive until the middle of the week and we have had very little time to test anything written thus far on it. The team is also missing access to Plex Development Portal so we have yet to be able to use Plex Development tools. Additionally, the team does not yet have an API key that would grant access to data from the Plex server so we can't send or receive data from the Plex Cloud server. Also, because the other team in our larger ASPC project did not get their hardware until late as well, we still don't know what format the data from the leaf nodes will arrive in.

Projected Progress

The database team will be able to adjust columns as needed. We can also add the capability to store workstation data. Once the team has more access to data from Plex and leaf nodes, we'll be able to fine-tune the database to meet the client's needs.

Once the API and Development Portal access is established, we will be able to move forward with setting up meaningful communication with the Cloud and with Branch and Leaf team.

Burndown Chart
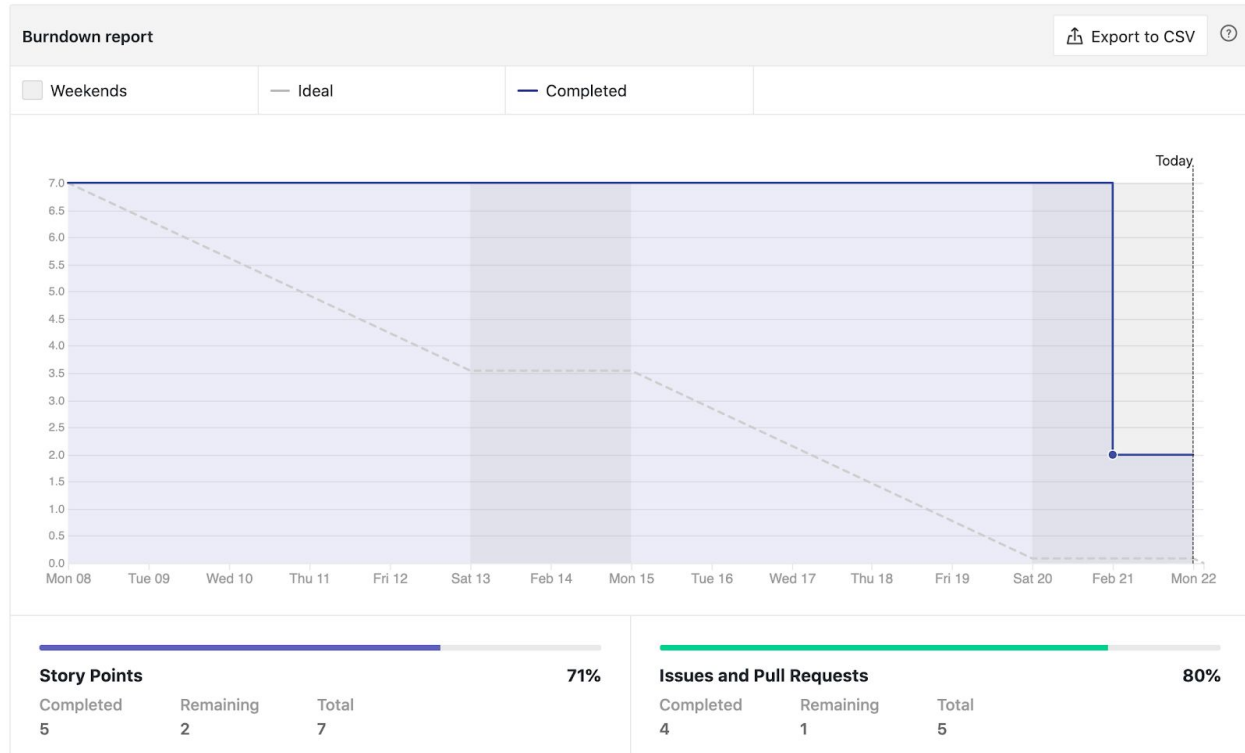
Teamwork Reflections

Logan - I think the team is working well together and I am proud of how well that everyone is adapting to the situation. I do think we need to look into a reschedule of our weekly work meeting.

Trevor - Although doing the class without in person meetings has been difficult, we have been able to adjust to it fairly well. I think we could improve by making better use of Zenhub and adding our issues earlier in the sprint.

David - It's been difficult to get started on the project given the level of ambiguity in requirements, as well as blocks related to important resources. However I think that we've done as much as we could have to prepare for when we have the resources we need. In the meantime, I think that we should spend more time working on sprint planning as a group, and maybe have more crossover with Branch&Root in order to synchronize our sprint goals.

Ayden - It can be difficult to work on a project, especially one hardware dependent in an online only environment, but I believe the team is doing a good job of it with various scheduled

meetings and communication through Discord. We can do a better job of nailing down exact timelines of when certain objectives should be done, though this should be fixed with our usage of Zenhub.

Conclusion

It was a rough sprint for our team since so many things there were necessary for our initial planning did not arrive or have still not arrived. Despite this we were able to adapt and position ourselves so that we are not behind in our overall Sprint Planning by taking on some of Sprint 2's anticipated challenges and laying the groundwork for the arrival of our development tools. Should those arrive this week, we should be able to meet all objectives.