Sprint 3 Report

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Intended Progress

Our goals for this sprint were:

- Creating an initial html email report template with dynamic graphs
- Writing the code responsible for sending automated report emails to client
- Research and talk to client about alternative cloud storage options if plex doesn't end up working
- Set up wifi direct connection with Branch & Leaf
- Setup Pi as routing device
- Continue to upgrade the database as needed

Progress Reflection

- We successfully built an initial html email template with several dynamic graphs and created a class which creates and sends those emails to the client.
- Finally got access to plex at end of sprint
- Able to setup Pi as routing device but more testing is needed with Branch and Leaf
- Fixed bugs and added new table clearing functionality to database

Problems Encountered

One issue encountered while working on the automated email reports was a lack of information exactly we want to be reporting to the client, once we get better information we may have to reformat our report template in order to reflect the new data.

Another difficulty with the HTML template was that HTML files displayed in emails don't support all the newest css and HTML features, and we had to figure out how to build a template which would render across multiple email services.

We also failed to properly plan for this sprint and turn in issues when they had been completed. This has resulted in a poor burndown chart.

The biggest challenge though was our continued lack of access to our development portal which we only got on the last Friday of the sprint.

Projected Progress

During the next sprint, we should be able to set up an endpoint to communicate with PLEX. We also need to determine most of the data we're sending to plex in order to develop the API calls and reformat the HTML email reports. Additionally, we should be able to complete our routing service. And finally, we are hoping to have some initial testing with Brand and Leaf communication completed as well.

Burndown Chart

Teamwork Reflections

Logan - This was the toughest sprint so far as we were largely stuck in the mud until our Plex Developer access came in. I personally was hoping to get more done with the Cloud and local communication by this point. Hopefully we can power through what needs to be done and get caught up to a workable solution for the client.

Trevor - Although progress was slow during this sprint, I continued to update the database in the meantime. One addition was a method to clear out all entries on all tables while keeping the structure of the tables intact. I also added a status column to the workcenter table so that our machine would be able to track when workcenters were idle, setting up, or in production mode. I also fixed a few bugs with the insert and update methods, so that using null values or string values would work as intended.

David - This sprint we were mostly trying to determine what we could each do to improve the state of the project while not being sure that we would be able to connect with PLEX. As a result most work was self determined and we didn't get as much done as in other sprints. Now that we do have PLEX access we will need to get everyone working at full capacity to get the project into a prototype phase as soon as possible to make up for lost time. One thing we have been doing better is communicating with branch & leaf more consistently, which will be important as the project progresses.

Ayden - Did research into using alternative services besides PLEX for cloud storage, decided on google sheets and made a script to go along with it. Got PLEX dev access on saturday so

google sheets is no longer needed. As a group, helped work on json and information that we and B&L will be sending to each other.

Conclusion

Our productivity during this sprint was limited due to uncertainty about when or if we would get Plex access and how we should proceed without it. However, our team was able to make some progress in other areas. Since the Plex issue has finally been resolved, our next sprint will hopefully be more productive as we work towards establishing communication with the Plex server and the leaf nodes.