

Sprint 1 Report (8/22/22 - 10/3/2021)

What's New (User Facing)

- Reads in data streams from files
- Plots data streams

Work Summary (Developer Facing)

This Sprint our team met with our client at the Cousins Photosynthesis Lab at WSU multiple times to learn and understand the requirements desired by the client. Our job is to develop a Python desktop application that will perform data acquisition, manipulation, and calculations on sets of input data from the Lab. We both didn't have much experience with the type of application we were tasked to make, but we overcame this by dedicating time to researching frameworks, structures, and libraries to use for this project. This research contributed to our Project Report sections that we submitted throughout the sprint, and to our code. We produced some basic code to try the plotting and data acquisition capabilities of the tools we chose.

Unfinished Work

We planned to try to implement mean bars that would allow the user to select two data points from the plot. There was some research put into this, but no progress by means of code. The appropriate comments were made on the issue, and it has been moved to the next sprint. We also need to implement the blitting for graph plotting. There have been issues with the implemented code, so the requirement has been transferred to the next sprint as well.

Completed Issues/User Stories

Here are links to the issues that we completed in this sprint:

Team Inventory: <https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/issues/3>

Project Description Section: <https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/issues/4>

Requirements and Specifications Section: <https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/issues/5>

Solution Approach Section: <https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/issues/2>

Incomplete Issues/User Stories

Here are links to issues we worked on but did not complete in this sprint:

Create Mean Bars: <https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/issues/1> <<We ran out of time before we could finish this issue>>

Code Files for Review

- [ReadData.py] (<https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/blob/main/graphPlot/ReadData.py>)

Retrospective Summary

Here's what went well:

- We wrote good documentation
- We met frequently with the client, so we understood the requirements

Here's what we'd like to improve:

- We'd like to make more progress on the code and understanding the libraries we were using
- We'd like to structure our development process more

Here are changes we plan to implement in the next sprint:

- Focus more time on advancing the code/prototype
- Meet as a team more often to figure out weekly development structure and schedule