Sprint 2 Report (10/10/2022 - 11/9/2022)

What's New (User Facing)

- Real time plot after pressing start button.
- Pause/Resume the plot.
- Control the speed of the plot.
- Graph hide/unhide at any point of program execution.
- Movable mean bars.
- Right click on the graph and then manually changing the scale of the axis.
- Auto scale by pressing A button on the bottom left corner of the graph.
- Manipulate the graph irrespective of the pause/resume state of the graph.

Work Summary (Developer Facing)

This sprint, our team was mainly focused on rethinking our approach to implementation. We found some shortcomings in the frameworks we chose to work with, so we had meetings with the client and with our instructor to find a new approach and ensure it would work for our project. We were initially using Tkinter for our application, paired with matplotlib for our plotting functionalities. Now we are using PyQt5 paired with PyQt graph (and other Python libraries such as numpy) to implement this project. These changes are documented in the most recent version of the Project Report.

Completed Issues/User Stories

Here is the link to the issues that we completed in this sprint:

 https://github.com/WSUCptSCapstone-Fall2022Spring2023/biologylabviewtopython/issues?q=is%3Aissue+is%3Aclosed+milestone%3A%22Sprint+ 2%22

Incomplete Issues/User Stories

We completed all the opened issues assigned in the sprint 2.

Code Files for Review

Please review the following code files, which were actively developed during this sprint, for quality:

- main.py https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/tree/main/mainUI
- pointSingleton.py https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/blob/main/read-data/pointSingleton.py
- biology-labviewtopython-ui.ui https://github.com/WSUCptSCapstone-
 Fall2022Spring2023/biology-labviewtopython/blob/main/ui/biology-labview-ui.ui
- curve.py https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/blob/main/uiElements/curve.py

Retrospective Summary

Here's what went well:

- We got past the barrier about the frameworks we were using.
- The client likes the direction we're heading in.

Here's what we'd like to improve:

We'd like to be more active with GitHub

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

- Now that we're confident about our approach, we plan to make more progress with implementing the functional requirements.
- We'll be more active on GitHub, making issues and branches for every new feature and committing more often.