

Sprint 1 Report (1/9/2023 - 2/2/2023)

What's New (User Facing)

- Updated UI
- Calculate CO₂ and O₂ Calibrations
- Calculate CO₂ and O₂ Rates of consumption
- Calculate CO₂ and O₂ Concentrations

Work Summary (Developer Facing)

This sprint, our main focus was to update the ui and add calculation functionalities to the application. We were having some issues with the ui, so we needed to update it so that it was all generated through python code and not through the Qt designer. We made good progress with our functional requirements and are almost done with those. We've been noticing some lagging in the application as we add more functionality, so our next main focus is to improve the time complexity and work on other non-functional requirements.

Completed Issues/User Stories

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

- <https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/issues/37>
- <https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/issues/38>
- <https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/issues/39>
- <https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopython/issues/40>

Incomplete Issues/ User Stories

We completed all the issues that we opened this sprint.

Code Files for Review

- UI.py
<https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopyt/blob/main/mainUI/UI.py>
- worker.py
<https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopyt/blob/main/mainUI/worker.py>
- Calculations.py
<https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopyt/blob/main/calculations/Calculations.py>
- Button.py
<https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopyt/blob/main/uiElements/button.py>
- frame.py
<https://github.com/WSUCptSCapstone-Fall2022Spring2023/biology-labviewtopyt/blob/main/uiElements/frame.py>

Retrospective Summary

Here's what went well:

- We're almost done with the functional requirements of the project
- We feel we're on track to finish this project on time

Here's what we'd like to improve:

- Our non-functional requirements need to be focused on more

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

- We're going to focus more on non-functional requirements such as usability, scalability, and accuracy.