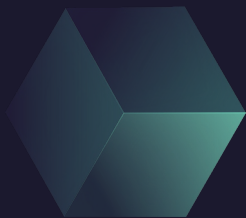


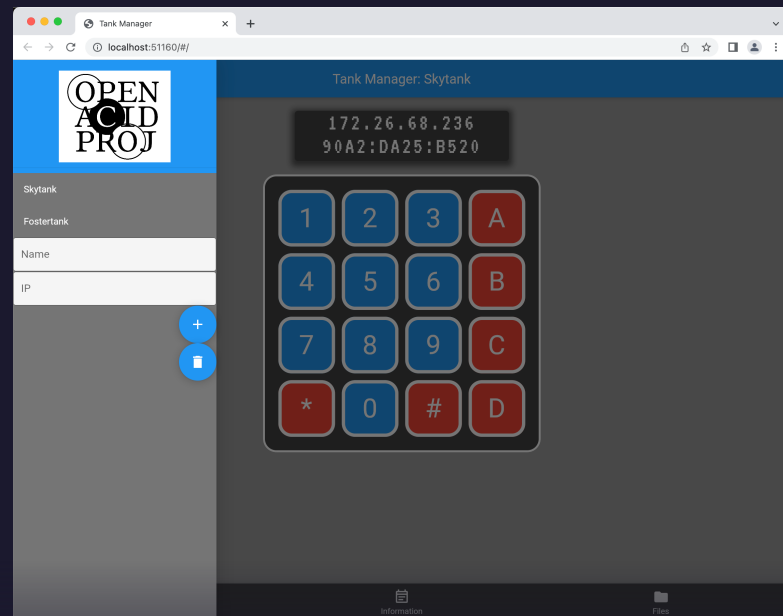
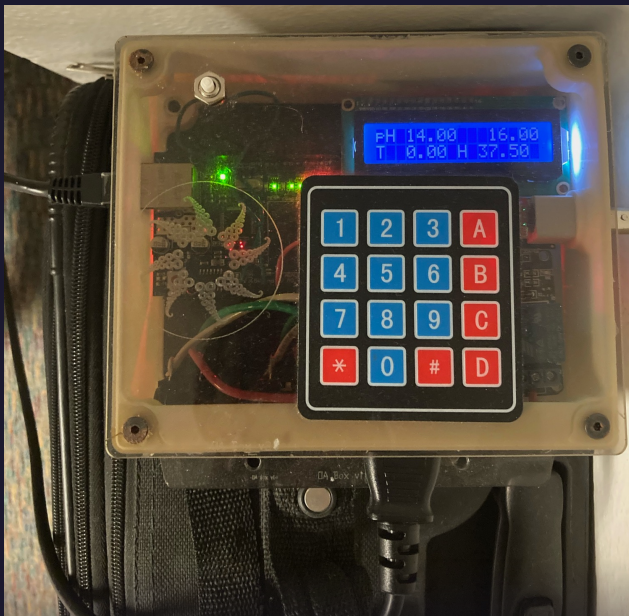
# Tank Controller Manager

Evan Taylor



# The Project

- Web application to interface with a physical tank controller
- Owner is Dr. Kirt Onthank of WWU's Biology Department
- UI shortcuts and additional features
- Working alongside Prof. James Foster



# Original Plan

- UI Redesign & shortcuts
- Data processing and graphs
- Data Bottleneck
- Work on existing issues

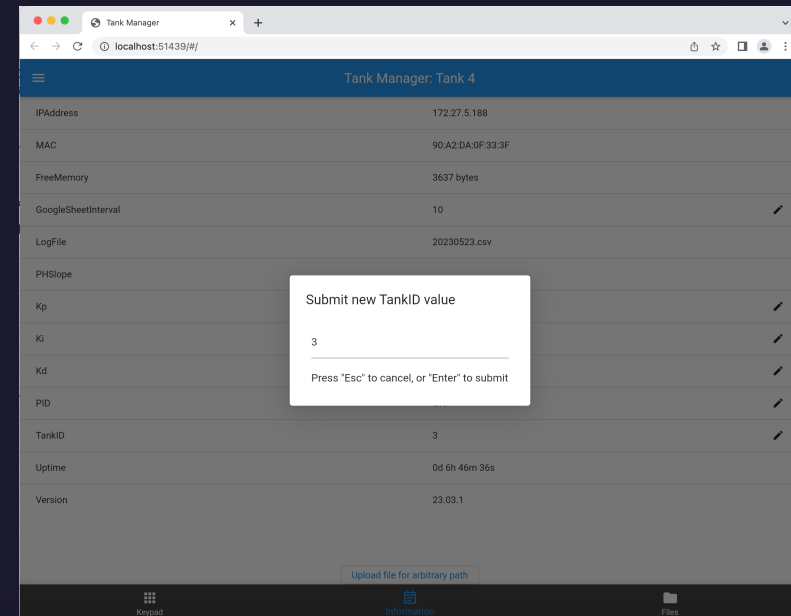
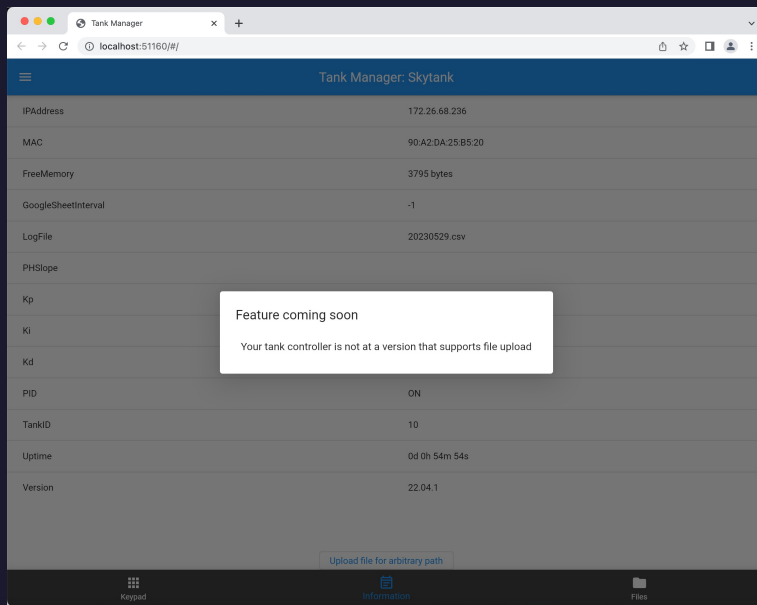
# Actual Results

- Shortcuts
- New features
  - File upload
  - IP check
- Documentation & Website
- Existing issues
  - Automatic linting and testing



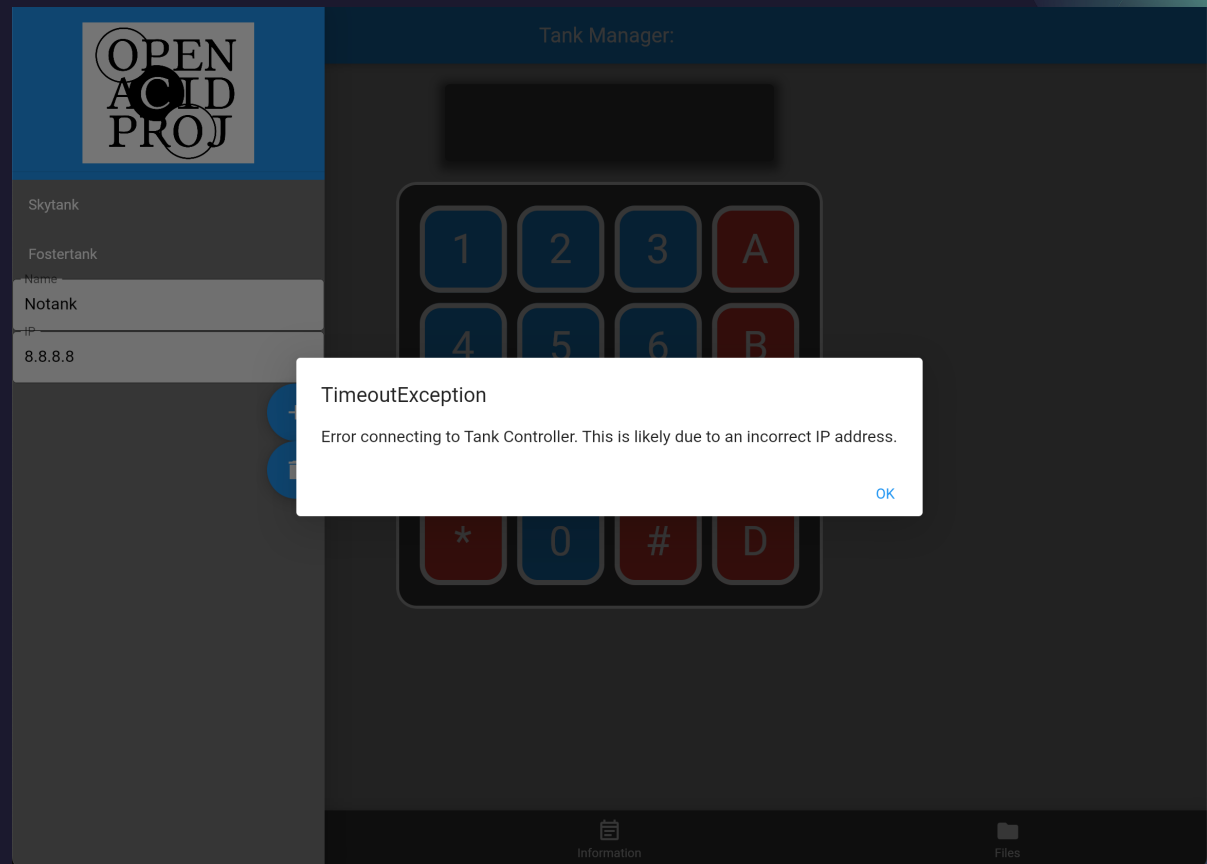
# Shortcuts and File Upload

- Shortcuts implemented through the information tab
- Version check function enables/disables features



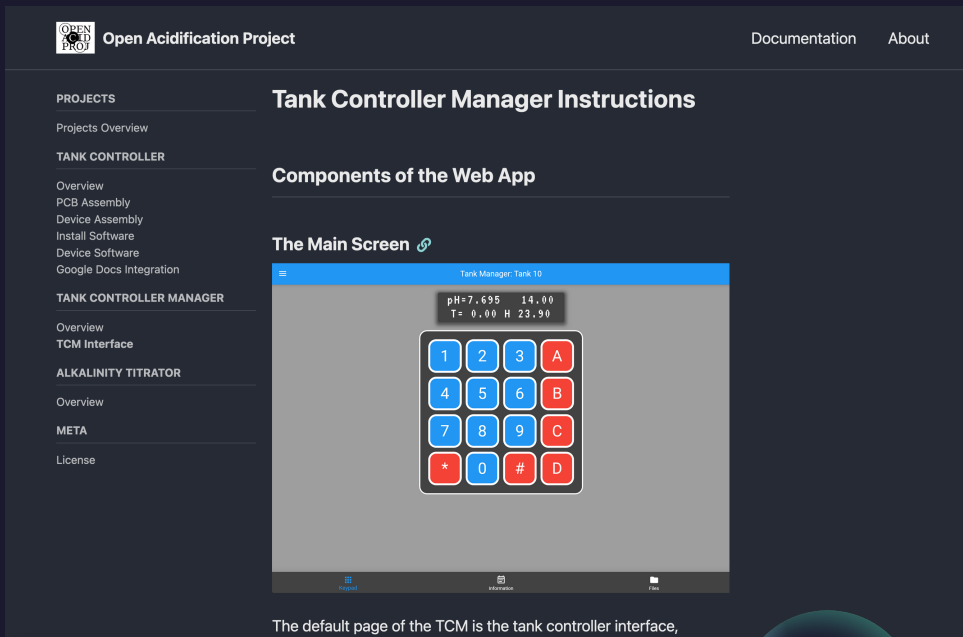
# IP Check, Documentation, and Issues

- IP Check returns an error if you can't connect to the IP address.
- 4 weeks to write the IP check due to multiple layers of errors.
- New documentation with instructions for new contributors.
- Automatic linting and testing in GitHub.



# Project Website

- An update to the Open Acidification Project website
- Adds the TCM as a standalone project and gives much more detail about it.



The screenshot displays the website's navigation menu on the left, including sections for PROJECTS, TANK CONTROLLER, TANK CONTROLLER MANAGER, ALKALINITY TITRATOR, META, and License. The main content area is titled "Tank Controller Manager Instructions" and "Components of the Web App". A sub-section titled "The Main Screen" features a thumbnail of the TCM interface. The interface shows a digital display with the following data: pH=7.695, 14.00, T= 0.00 H 23.90. Below the display is a keypad with buttons for digits 1-9, 0, \*, #, and letters A, B, C, D.

The default page of the TCM is the tank controller interface,

# Challenges & Reflection

- Ongoing project
- The IP Check function
- Changing priorities



# Future Additions

- Graphs and data processing
- Information refreshes when switching tanks



Questions?

