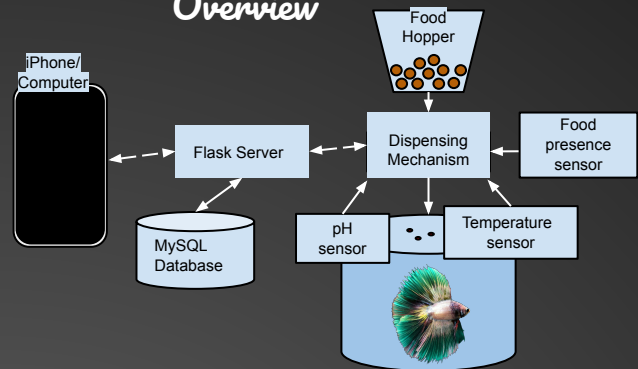# Feederal Reserve - Team 43

Introduction

- Practical betta fish feeder
  - Schedules to not overfeed
- Monitors tank conditions
  - pH, temperature, last fed
- Web-based application
  - Monitor inputs
  - Manual feedin'
  - Change of schedules
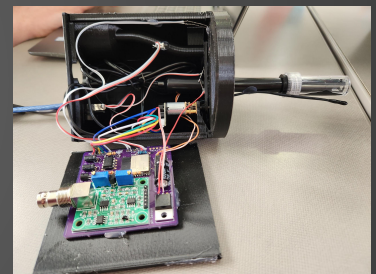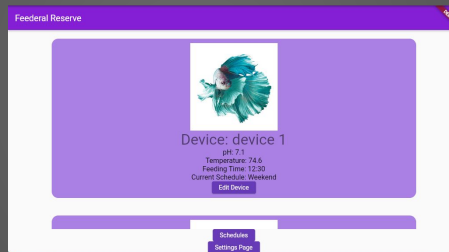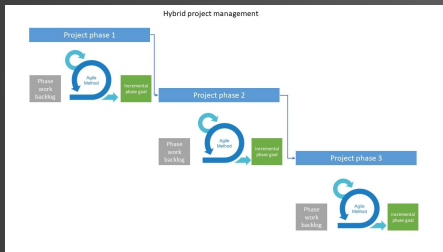
Overview

Methodology

- Hybrid method
  - Agile beginning
  - Waterfall upon development
- Iterative prototyping
  - Trial and error

Implementation

- Software
  - Web-based, MySQL, Dart, Python
- Hardware
  - Sensors, circuit board, LEDs, 3D printing

Results

- Software
  - Functional application with 3 main pages
- Hardware
  - Constructed mechanism integrated with sensors
- Client Satisfaction
  - Pleased with all visuals, hopeful for future use

Impact

- Client
  - Grants peace-of-mind for faculty of ISU COA about fish and tank conditions
- Broader
  - Better and more accurate feeding/ care for betta fish
  - Fish owners have a level of comfort being away for a few days

Conclusion

- Safe and practical way to track and maintain pets' living conditions without being physically present