Binnacle

Sprint Plan #3
February 17 2019

High Level Goals

Implement a visual user interface for each sensor component. Create a barebones route finding algorithm and have the route on the phone. Begin attempting to connect to the bluetooth sensor package.

Sprint 3

1. As a user, I would like a way to visually interpret the current state of the data model, so that I have a better sense of what my boat is doing **(32)**
    a. Implement the Deck UI widget **(3)** *(Donovan Rost)*
    b. Build the Ideal Heading UI Widget **(5)**
    c. Build the Actual Heading UI Widget **(2)**
    d. Build the Wind UI Widget **(3)** *(Casey Hillers)*
    e. Refactor compass implementation to write to the data model **(3)**
    f. Refactor accelerometer implementation to write to the data model **(3)**
    g. Build the Compass UI Widget**(5)** (Nick Kalscheuer)
    h. Make state that is shared across multiple screens **(8)**

2. As a user I want to have a route provided to me based on current wind and weather so that I can efficiently move across the bay **(35)**
    a. Compile a reference list of research papers to read **(5)** *(Daniel Richards)*
    b. Read the research papers and distill them into some synopsis for the team **(8)**
    c. Have a discussion as to how to develop this algorithm **(5)**
    d. Develop a super duper barebones version of the algorithm **(13)**
    e. Get the algorithm working on the Flask server **(5)**

3. As a user I want to be able to connect my phone to a bluetooth sensor package so that I can have the most accurate data **(7)**
    a. Choose a bluetooth library **(2)** (Will Walker)
    b. Create a bluetooth manager class that can connect to device **(5)**

Roles

Scrum Master: Donovan Rost
Product Owner: Daniel Richards
Developers: William Walker, Nicholas Kalscheuer, Casey Hillers