

Binnacle

Sprint Plan #4

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.

Note: This is the final sprint and we have the presentation

Sprint 4

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 **(8)**
 - a. Implement the Deck UI widget **(1)** (*Donovan Rost*)
 - b. Build the Ideal Heading UI Widget **(3)**
 - c. Build the Actual Heading UI Widget **(2)**
 - d. Build the Wind UI Widget **(2)** (*Casey Hillers*)
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 **(2)**
 - a. Get the algorithm working on the Flask server **(2)** (*Daniel Richards*)
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 **(5)**
 - a. Create a bluetooth manager class that can connect to device **(5)** (**William Walker**)
4. As a user, I want the app to take into account the boat's speed at different angles to the wind so that the app can give me a more accurate and faster route. **(10)**
 - a. Read up on butterfly plots **(5)** (*Nick Kalscheuer*)
 - b. Come up with an efficient way to store and lookup butterfly plot data **(5)**
5. As a user, I want to enter start and finish waypoints so that the app can plan a custom route specified by me. **(13)**
 - a. implement some mechanism to input the coordinates **(5)** (*Donovan Rost*)
 - b. Send the coordinates to the API **(8)**

Roles

Scrum Master: Donovan Rost

Product Owner: Daniel Richards

Developers: William Walker, Nicholas Kalscheuer, Casey Hillers

