Binnacle

Release 2.0 Plan
March 17 2019

High Level Goals

This release is building off the foundation created in the first release to create the features needed for the final vision of the application. Our research phase at this point is complete for an optimal sailing algorithm. Now we need to port the algorithm testbed into the mobile codebase. Additionally, the UX of the application could use an upgrade to create a cohesive experience for the user. Instead of several individual components, the application should feel like one cohesive application. The computer engineering team has their more accurate sensors ready to be connected into our application. This will require us to write the bluetooth communication to integrate it into the algorithm.

Sprint 1

Epic: Creating a cohesive application

As a sailor, I would like to be able to know what sensors are currently active in the data model.

As a user, I would like the app to be visually cohesive so I am not context switching between the different components.

As a sailor, I want to be able to choose which sensors are currently feeding data into the algorithm so that I have more control over the algorithm.

Sprint 2

Epic: Allow modifying the sensors that are active (bluetooth and phone).

As a sailor, I would like to be able to connect the sensor package so that the data points are more accurate.

As a sailor, I would like to be able to run the algorithm on my phone.

Sprint 3

Epic: Display the algorithm to users

As a sailor, I want to be able to view the optimal path on a map.

As a racer, I want to be able to use the map view to create a course.

As a sailor, I want to be able to view my sailed path on a map.

As a racer, I want to save my sailed path and the optimal path so I can study it later.

As a racer, I want the algorithm to use more data points regarding the sailboat to make the generated path closer to the optimal path.

Sprint 4

Epic: Polishing the application for public use (app store pages, bug fixes, art pieces)

As a user, I want to be able to download the app on my Android or iPhone from the app store.

Backlog High Level Goals

Add a calibration protocol for the CE team's sensor package
Calculate more advanced routes (triangle courses, sausage courses)
Log all activity and data points for refining the algorithm