

# Binnacle

Sprint Plan #4

May 19 2019

## High Level Goals

This sprint is meant to do the final polish needed for the application. This includes finalizing the functionality of the computer engineering team's new bluetooth chip. Publishing the app so it can be downloaded by anyone. There are also several small, one-off tasks that our product owner has requested be completed. Lastly, there are some user stories that have been rolled over from last sprint into this sprint.

## Epic

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

## Work To Be Done (71 Total Task Points)

1. As a sailor, I want real-time navigation updates. **Total task points: 13**
  - a. Tack now calculation to figure out when a sailor should tack (5)
  - b. Off course calculation to trigger a recalculation of the optimal path (5)
  - c. Ideal heading calculation (3) (Nick)
2. As a sailor, I want to be able to view my sailed path on a map. **Total task points: 6**
  - a. Implement a ReplaySubject that will save the Position Provider stream on navigation while navigating a course (3)
  - b. Draw the recorded sailed path on the map (3)
3. As a user, I want to be able to download the app on my Android or iPhone from the app store. **Total task points: 18**
  - a. Android Play Store Page (5)
  - b. iOS App Store Page (13)
4. As a sailor, I want the application to use the bluetooth sensor package. **Total task points: 16**
  - a. Get new bluetooth chip works with current mobile application (8)
  - b. Simulate failures for every provider (8)
5. Misc tasks. **Total task points: 18**
  - a. Splash screen (acts as a loading screen) (5)
  - b. Legend for the binnacle screen to explain the different UI components (5)
  - c. User experience logs (5)
  - d. New logo that fits the dark theme (3)

## Backlog

1. As a sailor, I would like to be able to hear the navigation actions I need to take so I don't need to look at my phone.
2. Customizable info panel
3. Custom map icons
4. Nice documentation (README)
5. Compass on the map screen
6. Change map layer to satellite (make it easier to differentiate the water)
7. Zoom map to fit the current route
8. Light theme, dark theme modes

## Roles

Product Owner: Daniel Richards

Scrum Master: Casey Hillers

Presentation Master: William Walker

Developers: Donovan Rost, Nicholas Kalscheuer