Senior Design Weekly Status Report; Fall 2022

Team Name: sdmay23-09

Team Members:

- 1) Shayla Lunn
- 2) Erica Hollander
- 3) David Bone
- 4) Hanan Zahid
- 5) Kaili Lawson
- 6) Lakin Jenkins

Report Period: Oct 22th - Oct 28th

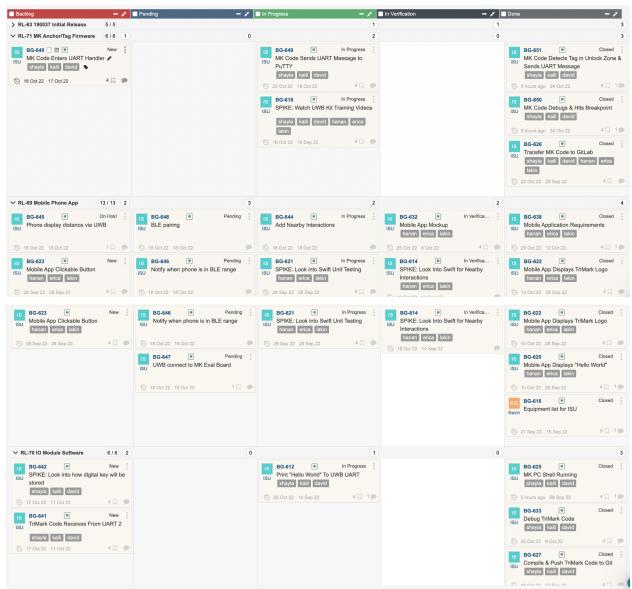
Summary of Progress in this Period

- Erica
 - Work on architecture to future support Android and Apple development.
 - Research ways to use the Swift API with a ReactNative application
- Shayla
 - Continued going through the Mobile knowledge training videos.
 - Used Mobile Knowledge hardware to test the application.
 - Learned about the communication between UART and puTTY
- David
 - Successfully connected Mobile Knowledge to the debug board and stepped through the our application to detect a UWB device within 200cm
 - Learned more about UART and puTTY to send bits and receive bits from UART
- Hanan
 - Researched different development environments
 - Learned more about nearby interactions and connecting mobile application to UWB Module
- Kaili
 - Went through the Mobile Knowledge training videos and created an API for our application that detects a UWB device and sends a UART message if a device is within 200cm
 - Tested this application using the Mobile Knowledge hardware
 - Created UART standards and outlined these in a document
- Lakin
 - Continued working with swift
 - Researched different development tools to include android
 - Fixed all of the wireframe to what we want the final application to look like
- Entire Team
 - Met with our client to update on progress and get feedback

Continued development of design document

Pending Issues

Current Sprint Board



Plans for Upcoming Reporting Period

- Test the sending/receiving of UART messages on the UWB module
- Create UWB API on TriMark's codebase and implement UART communication
- Connect the Apple Sample App with the UWB MK Kit