

## 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 15th - Oct 21th

### Summary of Progress in this Period

- Erica
  - Did some more research with nearby interactions
  - Looked into the application with nearby interactions set up
  - Write more story cards regarding front end and app dev based on client's feedback
- Shayla
  - Continued to watch mobile knowledge videos
  - Ran the Mobile Knowledge PC Shell and did experiments on the accuracy and ranging of the UWB tags
  - Worked on getting the TriMark code to compile
  - Formulated plan on how to begin working on UART messages for TriMark/UWB module code
- David
  - Ran the Mobile Knowledge PC Shell and did experiments on the accuracy and ranging of the UWB tags
  - Compiled the TriMark code base
  - Continued to look through Code TriMark Code base
  - Met with client separately to learn more about how to split up embedded code to maximize efficiency.
- Hanan
  - Demonstrated how to use Xcode to client
  - Researched nearby interaction api some more and looked at example code to communicate with UWB Module
  - Tried connecting demo phone application to UWB Module to get ranging info
- Kaili
  - Ran the Mobile Knowledge PC Shell and did experiments on the accuracy and ranging of the UWB tags
  - Compiled and debugged the TriMark code

- Formulated plan on how to begin working on UART messages for TriMark/UWB module code
- Lakin
  - Fixed figma to be more of what the client wants for the application
  - Watched tutorials and began a simple application in swift
- Entire Team
  - Established more concrete requirements for application
  - Gave various demos on progress to TriMark
  - Gave lightning talk

## Pending Issues

### Current Sprint Board

The screenshot displays a Jira sprint board with the following columns and issues:

- Backlog (4/4):**
  - BG-640: MK Code Enters UART Handler (New)
- Pending (0):**
  - BG-646: Notify when phone is in BLE range
  - BG-647: UWB connect to MK Eval Board
- In Progress (3):**
  - BG-626: Transfer MK Code to GitLab
  - BG-649: MK Code Sends UART Message
  - BG-618: SPIKE: Watch UWB Kit Training Videos
  - BG-644: Add Nearby Interactions
  - BG-621: SPIKE: Look into Swift Unit Testing
  - BG-642: SPIKE: Look into how digital key will be stored
  - BG-641: TriMark Code Receives From UART 2
  - BG-643: UART Message Standard & Documentation
  - BG-612: Print "Hello World" To UART #2
- In Verification (2):**
  - BG-614: SPIKE: Look Into Swift for Nearby Interactions
  - BG-638: Mobile Application Requirements
  - BG-632: Mobile App Mockup
  - BG-633: Debug TriMark Code
- Done (3):**
  - BG-622: Mobile App Displays TriMark Logo
  - BG-620: Mobile App Displays "Hello World"
  - BG-616: Equipment list for ISU
  - BG-625: MK PC Shell Running
  - BG-627: Compile & Push TriMark Code to Git

## Plans for Upcoming Reporting Period

- Work on TriMark code in order to send and receive UART messages
- Come up with UART standard for our application

- Work on Mobile Knowledge code in order to send and receive UART messages