

Journal 10

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1 Progress Log

Moved from the old, neglected repo on my page to the TJ Sys Lab page.

Improved the visual aspect of the application. The menu interface supports starting and stopping scans, with a buffering symbol to indicate a scan in progress.

Added a temporary icon for the application, as well as changed the screen-name to "LaxBit Data Collection App".

2 Next Steps

Use the BLEGatt connection to query the BLE device for Gatt characteristics. Display them to the user in a manner that is more specific to the actual sensors we're using rather than in a general manner.

Parse the characteristic data into a CSV file. Give the option to store the data locally.

Give the user the option to send the data to a registered email account. Once this component is implemented we are ready to begin training the neural network our team has developed.

Replace the temporary application icon with a custom designed logo. Spice up the application interface to feel more like a lacrosse app than a BLE area scanning app.

3 Reflection

My last report was incredibly productive, but this one has been quite the opposite. In attempting to rename the project's base package to something more specific ("com.example.laxbit-data-collector") I inadvertently created inconsistencies within the gradle build system that I had previously allowed AndroidStudio to automatically generate. Due to my lack of understanding, I decided to abandon the broken build system and reconstruct the project from scratch in AndroidStudio.

I plan to resolve this in the future by manually manipulating the gradle build system so as to have finer control and understanding of the application, rather than allow AndroidStudio to abstract that process away from me. I hope that the difficulty of learning gradle will be mitigated by my experience with cmake.