

Philip Iosue

Dr. David Lubliner

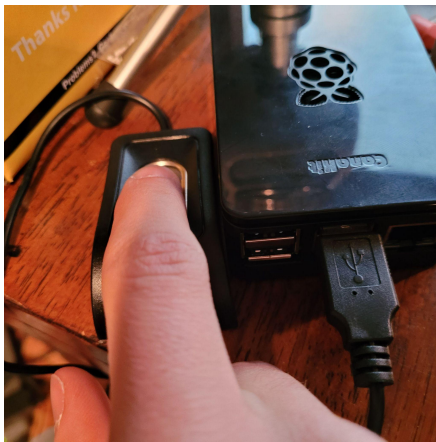
CPT 401-002: Senior Project

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## Project Design and Updates

### **Milestone 1: Pi Can Save Fingerprint scanned**

Using Visual Studio and a bit of Javascript, I was able to get the fingerprint working on the pi as if it was a normal scanner. Oddly enough, the Pi initially saw the fingerprint scanner as a CD drive. For an example of what I have been able to do, please see figures 1 and 2. Right now, the fingerprint is saved how a scanner would normally save an image to a computer instead of using an application of my own design. I don't believe this will be too hard to accomplish as I am already so close.



**Figure 1: The fingerprint scanner at work**



**Figure 2: The saved scan**

### **Milestone 2 and 4: Pi is Hosting a Server and Data Can be Pulled From Server**

I have finished the NAS server and am able to access it from multiple internet connected devices within my home. Data can be both put into and taken out of the server. This alongside

the actual scanning of fingerprints are the two main components of this project. It is a relief to atleast have these parts completed.

I have also created a simple HTML website that is able to access the server with the use of a password. As stated, this is also buggy to an extent but I likely have to go through the code and fix up a few things.

### **Milestone 3: Application is Made to Store on Server**

The application is somewhat working, but is a little buggy. Sometimes it can store files no problem on the server, other times it won't happen. At the very least, it is functional most of the time and the hardest part with developing it is over.

### **What Has to be Done**

For the project, I can say confidently that a majority of the work has been completed. At this point there is only some development left: mainly of the app/website interface. In addition, I will have to work on making the final product more stable, as it doesn't work all the time. I also still have to make my own programming that will allow the scanner to work, instead of using an already existing one.