**5/21/23:**

**Wiring Guide:**

<https://learn.adafruit.com/adafruit-optical-fingerprint-sensor/wiring-for-use-with-arduino>

A close-up of a white round object

Description automatically generated with low confidence

Use the example enroll code to enroll. Enrolled right thumb. Used ESPCode to detect fingers. Used Serial 2 (RX2 and TX2) instead of Serial 1 because Serial 1 is used by the USB during programming.

**5/27/23**

**Program flow planning**

States:

1. Master State:
   1. Used for directing the flow of tasks
   2. All tasks are entered in this state
   3. Including logging in and logging out
2. Check password
   1. Validates the user and prompts them to enter password
3. Task Validation
   1. Sets a task id number depending on the task that has been entered
   2. That only happens if the user is verified
   3. Also prompts the user if the task is not valid
4. Task Execution
   1. Executes a task depending on input
5. Reset and Exit
   1. Anything other than the word reset leads

**Some Notes:**

Decided to remove TaskIdx because seemed unnecessary. Renamed getTaskIdx to validateTask. Password is not a constant var now since it can be changed. Removed case 4 Reset and exit because logout task performs the same functions. Ids can only be enrolled sequentially. For example, if #1 is enrolled, the next person has to be #2.

**Future Upgrades:**

Add timer interrupt when waiting for input for timeout. Logout after that. After every task completion, print that the particular task has been completed. Have a separate file for functions. Put a slide switch for bios and fingerprint login. Both should be separate. The reset button will delete all stored data except for fingerprints. Should we store user data separately?