CSC 473/HCI530 Sensors/IoT

Progress Report

Spring 2022

Arduino Attendance Checker

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Progress Thus Far:

- Correctly wired the RFID scanner to the Arduino board.

- Labeled all cards with their appropriate reference numbers.

- The serial monitor was displaying the correct tag based on the card being scanned.

- We have a java program that is currently taking the data from the serial output of which the Arduino with RFID scanner is plugged into.

- SQL database is set up that has students RFID tag number, their first and last name, and their SUNY Oswego student ID number.

Problems Faced:

- *Problem:* The pins that connect the Arduino and the RFID scanner are too loose.

  Solution: We make sure that the RFID scanner pins are fully connected to the Arudino at all times of testing our project by positioning the scanner carefully.

- *Problem:* We were unable to correctly grab the data from the Arduino due to many outdated, and unsupported java dependencies.

  Solution: We found a java dependency called jSerialComm that allows us to easily grab the data from serial output.

What is Ahead:

We are right on track in terms of our calendar. Looking ahead we have a few more tasks to complete such as retrieving from the SQL database, exporting attendance data by email, and making the program look presentable by creating a GUI. These are reasonable tasks to complete in two weeks.