

Makerspace Sign-In Project

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Problem Presented

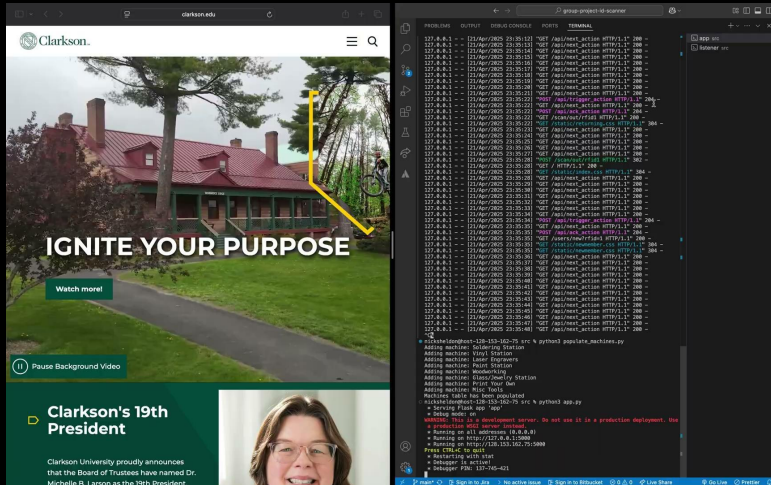
- The Makerspace currently uses a Google Form that is inefficient and makes students skip the sign in process

Goals:

- Improve sign in **efficiency**
- Improve data **accuracy**
- Gather more information about Makerspace usage, such as **time in and time out**

Our Solution

Demo



1.

Students will scan in using their student ID card

2.

Must add information if it's their first time at the Makerspace

3.

Students must scan out when they leave and select the stations that they used

4.

Makerspace mentors will acquire data to keep track of who visits the Makerspace

Remaining Steps



- Get **Raspberry Pi** and **RFID reader** to **recognize student IDs**
- Change **RFID listener** to **listen from the reader** instead of the CLI
- Setup Pi as **self-contained hotspot** to connect with iPad
- **Test MVP & implement additional features**, such as an admin page for updating and exporting data

Plan for After This Semester

- Code will be **well documented** for maintenance
- Instructions will be left for running the software on a new Pi if the current hardware breaks
- Implement a csv import feature, which would allow admin to make changes to the database **from the comfort of a spreadsheet**

Thank You!