

Team sdddec20-19 Report 1 (01/19/20 - 02/02/20)

Summary

The last two weeks have moved pretty quickly for our team. Since we were assigned to the Team Based Learning Attendance project, we've scheduled weekly meetings with our faculty advisor and client, Mahamad Selim. In our first meeting, we discussed the project as a whole highlighting each of the technical areas where we will have problems to solve. First, we need to configure a raspberry pi to use a camera to take a picture of the classroom. Next, we need to incorporate a library that can detect whether a student is or is not present at a specific seat. Based on a provided seating chart, we need to determine which teams are present and which have absent members. Finally, we need to consolidate the data and send it to the professor. The work that we have done since that meeting has mostly been in researching technologies, such as the raspberry pi, python programming language, or yolo and other object detection softwares. We've also had an additional meeting to discuss our team roles and began to fill out our profiles on our team website.

Individual contributions

Brandon Johnson

Hours this sprint: 5hrs

Cumulative Hours: 5hrs

Contributions:

- Acquired Raspberry Pi Camera Module
- Researched Yolo
- Brainstormed algorithms for grouping people together
- Organized our google drive
- Updated Website

Angela Shauer

Hours this sprint: 9

Cumulative Hours: 9

Contributions:

- Researched Luminoth
- Studied and Practiced Python
- Organized Google Drive
- Created meeting agendas and minutes documents

Lance Demers

Hours this sprint: 3.5

Cumulative Hours: 3.5

Contributions:

- Studied and practiced Python
- Researched Yolo

Connor Sullivan

Hours this sprint: 3

Cumulative Hours: 3

Contributions:

- Researched Yolo
- Studied Python

- Set up a raspberry pi-like environment on his computer
- Cloned Yolo git repo for experimentation and practice

Nathan Oran

Hours this sprint: 3

Cumulative Hours: 3

Contributions:

- Studied python
- Wrote this report

Pending Issues:

N/A

Plans:

From here, we plan to finish our research of different object detection software, and have a meeting to discuss our options, and potential roadblocks for each one. Following that we will look into raspberry pi configurations and make a design for that.