

Team sdddec20-19 Report 5 (10/27/20 - 11/09/20)

Summary

This sprint saw some new developments on each side of our project. Most notably, we met up to test our raspberry pi, camera, and Yolo system in an actual Iowa State classroom. There's still a bit to iron out there, but we hope to soon integrate the raspberry pi system with our API to automate image capture. Our backend team continued to expand and test the api endpoints using Postman. We've even added a few that return a professor's classes and the classes held in a specific classroom.

Individual contributions

Member	Contributions	Hours	Semester Cumulative	Annual Cumulative
Brandon Johnson	Attended 2 team meetings, team advisor meeting, and tested Yolo on the pi	5	22	51
Angela Shauer	Attended 2 team meetings, team advisor meeting, worked on IRP schedule, attended 2 test picture sessions, and did research into certain aspects of the API	6	30	67
Lance Demers	Attended 2 yolo test captures, and 1 team meeting, research ASP.Net	5	29	56
Connor Sullivan	Attended 2 team meetings, attended 3 yolo test sessions with pi in various locations, worked on the yolo adapter.	7	30	58
Nathan Oran	Attended 2 team meetings, team advisor meeting, attending 2 yolo test captures, expanded API for database.	7	36	68.5

Pending Issues:

We've found in our tests that Yolo is detecting multiple people in an image for each person in the image. We were not having this issue a little while ago, so we hope that we can resolve this bug quickly.

Plans:

From here, we can get started developing the front-end web app for professors to create classes and seating charts for our system. Finally, we can begin to develop the seating chart mapping algorithm from the output yolo data.

Aside from fixing the repeated detection issue in yolo, we will also be working on setting up the scheduler that would be responsible for triggering the attendance evaluation processes at the correct time.