

Team sdddec20-19 Report 2 (09/01/20 - 09/14/20)

Summary

This two-week period saw the planning of our semester and the beginning of our development on our project. As a team we met once to create a list of development milestones that we need to achieve to complete our project. From there, we analyzed our list to define dependencies in order to create our gantt chart. (Seen Below)

Tasks	S2 Week 4	S2 Week 5	S2 Week 6	S2 Week 7	S2 Week 8	S2 Week 9	S2 Week 10	S2 Week 11	S2 Week 12	S2 Week 13	S2 Week 14
	9/7/2020	9/14/2020	9/21/2020	9/28/2020	10/5/2020	10/12/2020	10/19/2020	10/26/2020	11/2/2020	11/9/2020	11/16/2020
Set up raspi & camera	█										
Communicate with camera/take a picture using pi		█	█	█							
Parse and put in data structure from YOLO		█	█								
Compare seating chart and YOLO data					█	█	█				
Scheduler								█	█		
Simple GUI for inputting seating chart/proffesor data			█	█	█						
API and Database	█	█									
Email attendance to professor										█	█
Integration	█	█	█	█	█	█	█	█	█	█	█
Testing	█	█	█	█	█	█	█	█	█	█	█

From there, we met with our advisor and client, to present our project plan. Once we had their feedback, we split into groups to work on our first two tasks: Setting up our raspberry pi, camera, database, and API. At this point, our raspberry pi and camera are connected and set up, and we've installed a MySQL database on our virtual machine and created several blank tables to store all the necessary data for our professors, their classes, and the classrooms.

Individual contributions

Member	Contributions	Hours	Semester Cumulative	Annual Cumulative
Brandon Johnson	Attended 2 team meetings, team advisor meeting, and picked up pi, and assembled and set up pi.	5	9	38
Angela Shauer	Attended 2 team meetings, team advisor meeting, set up MySQL on our vm server, created database schema	5	10	47
Lance Demers	Attended 2 team meetings, team advisor meeting, developed MySQL database	5	10	37
Connor Sullivan	Attended 2 team meetings, team advisor meeting, picked up pi, and assembled and set up pi.	5	9	37
Nathan Oran	Attended 2 team meetings, team advisor meeting, developed MySQL database, and wrote bi-weekly report	5	10.5	44

Pending Issues:

Raspberry Pi is not currently the university wifi and cannot yet be remoted into.

Plans:

At this point, we plan on continuing to meet with Mohamed on a weekly basis, and more frequently as a team during the week to make progress on our project.

Finish setting up the Pi backup.

Hand off the Pi to Angela (who has direct access to the university network)

Create API.

We need to develop an API that will store new class, professor, classroom, and picture scheduling data.

Additionally, the API needs to be able to return an entire day's schedule of picture taking and classes for a single classroom.