
EE/CprE/SE 491 WEEKLY REPORT 8

4/3/23 - 4/9/23

Group number: 4

Project title: CLARE: The Lab Availability Tracker

Client &/Advisor: Mohamed Selim/Ahmed Nazar

Team Members/Role:

Evan Uhlmeyer - Meeting leader

Frank Sullivan - Team website manager

Jorge Ortiz - Main client contact

Tyler Rolston - ETG and external contact

Joel Neppel - Course assignment manager

○ **Weekly Summary**

- Had a team meeting this week and decided on goals for the next team meeting
 - Team was split into two sub-teams, Evan and Frank on image processing, and Joel, Tyler, and Jorge working on backend webserver implementation
- Team continued experimentation with OpenCV and YOLOv5
- Initial implementation of webserver began

○ **Past week accomplishments**

- Evan Uhlmeyer
 - Worked more with OpenCV
 - Wrote C++ code that can take most recent frame from the webcam on my laptop.
- Tyler Rolston
 - OpenCV tutorial
- Joel Neppel
 - Looked more into databases and discussed using a database vs JSON object
 - Researched how to use LabStats API
- Frank Sullivan
 - Investigated YOLOv5 detect functionality
 - Created script using YOLOv5
- Jorge Ortiz:
 - Did more research into Canvas

○ **Pending issues**

○ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Joel Neppel	LabStats API	2	14
Jorge Ortiz	Canvas Integration Research	2	12
Tyler Rolston	OpenCV tutorial	1	13
Frank Sullivan	YOLOv5 script/testing	3	12
Evan Uhlmeier	OpenCV/Yolov5 prototyping	2	13

○ **Plans for the upcoming week** *(Please describe duties for the upcoming week for each member. What is(are) the task(s)?, Who will contribute to it? Be as concise as possible.)*

- Evan Uhlmeier
 - Write code that interfaces between OpenCV and YOLOv5, providing images from a camera to be processed
 - Talk to ETG about IP camera
- Tyler Rolston
 - Start working on the backend system
- Joel Neppel
 - Help with starting the backend development
- Frank Sullivan
 - Create a test script that uses OpenCV network features
- Jorge Ortiz
 - Switch to backend and begin creating database