
EE/CprE/SE 491 WEEKLY REPORT 6

3/6/2023 - 3/12/2023

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**

- Continued working on research tasks and experimenting with various tools we may use.
- Met with the client to discuss progress and plans to use a camera with YOLOv5 to estimate lab capacity
- Got access to LabStats so we can begin experimenting with it.

○ **Past week accomplishments**

- Evan Uhlmeyer
 - Read more LTI app documentation
 - Got response from CELT
 - Began learning PHP for LTI implementation
- Tyler Rolston:
 - Worked on the parser to get the lab classrooms from the facilities planning website and the scheduled times for labs in Coover
- Joel Neppel
 - Used Pencil to continue designing the basic website layout
 - Started getting lab information from ISU websites
 - Examined the pros/cons of using an IP vs. USB camera
- Frank Sullivan
 - Updated senior design website
 - Continued investigating YOLOv5
- Jorge Ortiz
 - Discovered Deep Linking may be required for Canvas embedding
 - Began research into LTI Deep Linking

- **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	Lab availability website layout	2	10
Jorge Ortiz	Deep linking research	1	9
Tyler Rolston	Python application for compiling scheduled lab times	2	10
Frank Sullivan	Updated website, began YOLOv5 testing	2	8
Evan Uhlmeier	Learned about the LTI/LMS system Began learning PHP	2	9

○ **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
 - Continue to learn about PHP
 - Attempt to write a basic LTI App
 - Test LTI app with an emulator
- Tyler Rolston
 - Experiment with OpenCV
- Joel Neppel
 - Continue the lab availability website layout
 - Integrate lab schedule into website layout
- Frank Sullivan
 - Try to get YOLOv5 working with webcam
- Jorge Ortiz
 - Figure out Deep Linking
 - Come up with plan to implement website as an embed