EE/CprE/SE 491 WEEKLY REPORT 13

9/28/23 - 10/11/23

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

o **Weekly Summary**
  - Continued progress on tasks that were established two weeks ago

o **Past week accomplishments**
  - Evan Uhlmeyer
    - Looked into computer logon/logoff tracking
      - Didn't get a working solution
      - Figured out network communication
    - Refreshed on SQL, started database design
    - Reached back out to CELT
  - Tyler Rolston
    - Researched inotify and signal-based approach to software interrupts for logins
  - Joel Neppel
    - Added primary and foreign keys to database
    - Installed BudiBase locally
    - Began investigating issues
  - Frank Sullivan
    - Trained YOLO models on custom data
    - Updated camera script from YOLOv5 to YOLOv8
    - Began investigating Python security features
  - Jorge Ortiz

- ☐ Researched LTI JSON objects
- ☐ Determined necessary fields for website
- ☐ Configured emulator for testing

Individual contributions

NAME	Individual Contributions *(Quick list of contributions. This should be short.)*	Hours this week	HOURS cumulative
Joel Neppel	Set up BudiBase	8	46
Jorge Ortiz		6	48
Tyler Rolston	Inotify and signal research	5	34
Frank Sullivan	Trained YOLO models, switched YOLO versions, investigated Python security features	8	37
Evan Uhlmeyer	Logon/logoff tracking, database	6	40

o **Plans for the upcoming week**
- Evan Uhlmeyer
  - Finalize how logon/off tracking will communicate with database
  - Reach out to ETG about remote PC space
- Tyler Rolston
  - Develop a prototype application using inotify to track changes to wtmp
- Joel Neppel
  - Continue fixing issues with local BudiBase
  - Connect BudiBase to the database
- Frank Sullivan
  - Collect data for use in testing trained ML models
  - Determine how to pass info from Python script to database
- Jorge Ortiz
  - Work with Joel to configure database for Canvas JSON