EE/CprE/SE 491 WEEKLY REPORT 15

10/26/23 - 11/8/23

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**
  - Created automation to generate historical lab usage data
  - Added current and historical lab usage data to the lab webpage
  - Continued development on object detection and computer activity

- **Past week accomplishments**
  - Evan Uhlmeyer
    - Communicated with CELT and gained access to Canvas Development instance
    - Created script to get hostnames of PCs in Coover
    - Learned how to schedule tasks on Windows with task scheduler
    - Learned sending http requests to interface with BudiBase
  - Tyler Rolston
    - Further development of login tracking application
    - Able to monitor files successfully
  - Joel Neppel
    - Created a script to keep track of lab usage for historical usage trends
    - Began automating historical usage script
    - Fixed permission issues so users can access the website without logging in
    - Added the current and historical lab usage data to the website GUI
  - Frank Sullivan
    - Tweaked camera script to include sector in which detection occurs

- Finished training ML model, began initial testing
- Began work on CLI script to link camera script and table update script
- Jorge Ortiz
  - Gained access to Canvas Development instance
  - Researched Oauth2 token generation

Individual contributions

NAME	Individual Contributions *(Quick list of contributions. This should be short.)*	Hours this week	HOURS cumulative
Joel Neppel	Website design, automation	12	73
Jorge Ortiz		6	66
Tyler Rolston	Login tracking	8	47
Frank Sullivan	Camera script, CLI script, ML model	9	53
Evan Uhlmeyer	Meeting with CELT, Windows Development	8	52

- **Plans for the upcoming week**
  - Evan Uhlmeyer
    - Load scraped PCs into database
    - Finalize a Windows logon tracking solution
    - Finalize computer database table
  - Tyler Rolston
    - Continue working on login tracking application
  - Joel Neppel
    - Add current-time indicator to the lab schedule
    - Complete setting up a trigger for the historical data collection script
    - Help others with BudiBase integration
  - Frank Sullivan
    - Continue tweaking camera script
    - Link camera script and table update script with CLI script
    - Begin creating dataset for testing ML model
  - Jorge Ortiz
    - Contact CELT regarding issues with Canvas Development Instance permissions
    - Use microsoft Azure for token generation