

SE 492, Senior Design, Spring 2024, sdmay24-20

Kickoff Meeting, 25 JAN 2024

Introductions

During introductions, we discussed our winter plans, our activities and trips we took on, and got to catch up on times. We discussed our current schedules, our current work-load, and any up-and-coming trips or plans. With this baseline down, we are able to get an understanding of the upcoming semester and gauge our time and effort.

Review of your design from CPRE/EE/SE 491 (What did you accomplish? What did you learn? What next steps are you planning?)

During the review of CprE/CybE/SE 491, it was discussed that we were on track and had met our desired goals for that semester. We were able to accomplish a rough draft of our research paper and begin work on our introductory labs – even with limited access that was beyond our control. We learned a great deal about time management and project skills that helped facilitate a successful semester. Our next steps consist of setting out a nice schedule and ensuring constant communication to meet our needs. We plan to finish our research paper and develop at least 5 unique Cybersecurity and Networking labs.

Discussion of any changes or improvements to the design

After speaking with our advisor/client, it was determined that nothing was going to change from 491 and 492. We had been on a good trajectory and will continue to remain on that path despite criticism from the 491 panel. A small change from our design is the scheduling portion, we plan to spearhead the lab experiments first, and then revisit the research paper to better understand the PAWR Platforms.

Discussion of the objectives and requirements for CPRE/EE/SE 492

After discussing these areas, we'll need to make an adjustment and switch to better meet the communicational standards of 492 and create a more simplified approach to outsiders. We'll plan to have a proper deliverable for testing and data collection to better design our project.

Discussion of the schedule and milestones for the project

We plan on keeping the schedule and milestones from 491, but with a slight switch in moving the labs up to the beginning of the semester and shifting the paper to the tail end to better have time for the projects and experiments at hand. The only scheduling change will be a shift in months for each milestone in efforts and hopes to achieve them early and sooner than later – this will lead to more testing and quality assurance in the long run.

Review your team process and discuss any changes or improvements

From last semester, our main change will be our individual performance and dedication to the project. It was determined by all of the members that we'll need to double or triple the effort from last semester to create a long sustaining project with high quality work and research.

Meeting Notes, 25 JAN 2024, 12:30 CST

SDMAY24-20, Utilizing PAWR Program to Develop Advanced Hands-on Labs For Networking and Cybersecurity Courses (Advisor, Mohamed Selim).

- Brendon Droege (Present)
- Camron Corcoran (Present)
- Leha Dutta (Present)
- Corey Lieu (Present)
- Susanna Noble (Present)
- Bryan Pope (Absent – has a class during this time slot, but this time slot was the most opportune given everyone's schedule)

Summary of the main points discussed

Below are the bullet points from the meeting that stood out. A general summary is that we now have proper access to the ARA Platforms and begin proper implementation and design on our project. With access now, we'll begin phase two of our project and begin surveying and contacting professors and those applicable to cater our labs to their needs. To be successful and on the right track this semester, we'll need to be more productive and more collaborative.

- Continue with main plan (schedule & milestones)
- Develop the labs, continue work on the paper.
- We (as a team) are added to an ARA Project, so we should now have access to everything.
- Have around five (5) labs ready for the end of the semester – have them be diverse. (Look at CybE)
- Labs come first, and then come back to work on paper.
- Have everyone go through the two labs (test the platform out, try it out, get screenshots)
- Bi-weekly to start, then we'll come to weekly
- MORE PRODUCTIVITY!

List of any decisions made

- Move the lab production to the first half of the semester
- Move the research paper to the latter half

List of any actions to be taken

- Contact various instructors/professors to get descriptions on labs they'd like to see
- Complete the test ARA Labs to get a feel for how they work
- Begin work!

Next steps for the project

- Take a refresher on what ARA is, what its capabilities are
- Start brainstorming labs that we will implement
- For this week, work through the two labs we created last semester
- Log in and experiment on the ARA platform and report findings