Date: November 25th
Attendees: Emmanuel, Wail, Yesenia, Shichang
Notes:

- **Networking Success:** Yesenia successfully configured the server and performed **port forwarding**, allowing external clients (Wail and Shichang) to connect to her server using the dedicated IP address and port **9999**. This resolves the initial challenge of needing to meet in person
- **VM Approach Abandoned:** Shichang reported that spending time building multiple VMs failed because the clients require a GUI, but the VM only supported terminal use. VMs are local host and not open to the public, confirming port forwarding was the necessary alternative.
- Wail and Shichang successfully tested logging in, adding courses, and dropping courses on Yesenia's server.
- **Data Persistence Bug:** A bug was identified where closing the server causes the `users.csv` data file to be **overwritten or deleted**, reverting it to hard-coded content. This requires fixing in the Data Manager implementation.
- **Client Disconnect Counter Bug:** When clients disconnect, the log message displays an incorrect client number because the client counter is incrementally counting new clients but is **not correctly saving/updating the specific client ID** upon disconnection. Wail needs to update the counter logic in the disconnect section of the server code.
- **Hold Implementation Flaw:** The "Remove Hold" feature lacks logic to check if a student currently *has* a hold before attempting removal. If a student exists, it still attempts removal instead of returning a status message (e.g., student does not have a hold). This requires a counter or attribute to track holds.

Split up tasks:
Extra Features:
• Ability to add multiple universities to the system - Yesenia
• Add a button to the admin to view all universities - Yesenia
For Student:
• Show course ID after adding a course - Shichang
• For view student schedule button add student name at the top and Add attributes such as: instructor name, course credits, days classes are oAered, capacity(aka class size), waitlist, pre reqs - Shichang
• Add a button to view if student has a hold; - Shichang
• Show course ID after dropping a course - Shichang
• Add logout button - Shichang
View courses available:
• Add attributes such as: instructor name, course credits, days classes are oAered, capacity(aka class size), waitlist, pre reqs - Wail

For Admin:
• Correctly implement add and remove hold(add a local counter for holds) - Wail
• Add button to withdraw student from course - Shichang
• To add admin, display example of admin id like A0001- Shichang
• When adding, editing, removing course, add example to each showing what the course id should look like "CS413"- Shichang
• When deleting a course, display course id with the course deleted successfully message; same thing for adding course - Shichang
• Add a button to view all the admins - Shichang
• Add logout button - Shichang
• Add view students schedule button, admin will input student id and the system will return that student's schedule - Shichang
Report:
• Add university name to the top of the report - Emmanuel
• Add attributes such as: instructor name, course credits, days classes are offered, capacity(aka class size), waitlist, pre reqs - Emmanuel
Limitations:
• Adding buttons: Admin and Student to login - Wail
• To limit the inputs for passwords, usernames, and student/admin id's to only accept our pattern/rules. Return failed message and retry message - Wail
• How we can pre-load all the data files for students and admins, for security reasons we can't allow users who aren't in the system(right now we are just letting everyone log in) - Wail
• Try to add if student has a hold to the report - Wail
Implement testing individually!!
Meeting tomorrow at 3pm!