

Senior Design 492 Bi-Weekly Report 04

March 25th - April 7th, 2023

Group sdmay23-18

Senior Design Server/Client Development for Project Matching Phase 2

Advisors/Clients:

Akhilesh Tyagi
Jacob Grundmeier

Team Members:

Haylee Lawrence – Lead UI Designer, Frontend Development
MyTien Kien – Client Interaction, Backend Development
Sanjana Amatya – Frontend Research, Frontend Development
Alec Elesbernd – Lead Researcher, Backend Development

Bi-Weekly Summary

Our team made a lot of progress these past two weeks. We are close to getting a replica of what our fully functional website would look like for this class, however, we're not sure if it'll be fully completed by the end of the academic year. It will be completed enough to show the idea. Algorithm ideas are starting to get coded and hopefully running soon.

Past Weeks' Accomplishments

The past few weeks have been relatively productive. Haylee and Alec have started coding the algorithm and are making progress. Haylee is coding an algorithm from pseudocode in a paper found by Sanjana during her Algorithm research. Sanjana and MyTien started figuring out how to connect the database and backend.

For each team member...

- **Haylee Lawrence:** Started coding the algorithm. Created Java classes to simplify running the algorithm without real data. Started coding the algorithm from Brainstorm #1 before running into a wall. Now coding an algorithm found in a paper by Sanjana.
- **MyTien Kien:** Finished routing buttons to correct pages and updated official site with front end look. Started coding database connections AKA CRUD operations.
- **Sanjana Amatya:** Researched theorems and other matching algorithms that could be utilized to create our algorithm. Connected to the database and am figuring out how to show data using Laravel.
- **Alec Elsbernd:** Worked this week to code an algorithm using Haylee's Java classes. Have had some success but am not fully happy with the results.

Pending Issues

For each team member...

- **Haylee Lawrence:** No current issues.
- **MyTien Kien:** No current issues.
- **Sanjana Amatya:** No current issues.
- **Alec Elsbernd:** No current issues.

Individual Contributions

Name	Hours Past 2 Weeks	Hours Cumulative
Haylee Lawrence	9	72
MyTien Kien	8	71
Sanjana Amatya	8	63
Alec Elsbernd	7	64

Comments & Extended Discussion

N/A

Plans for Upcoming Week

For each team member...

- **Haylee Lawrence:** Try and finish the algorithm by next week. If we cannot add to the app in time, I will figure out how to better present our algorithm.
- **MyTien Kien:** Finish simple crud operations and get a somewhat functional website up and running. If finished, will help with algorithms.
- **Sanjana Amatya:** Try to get data from the database on the front end and connect it to the backend controllers.
- **Alec Elsbernd:** Working with Haylees to get an effective algorithm added to our application.

Summary of Weekly Advisor Meetings

Only met once in the past two weeks because we had only a little to update our advisor on this week. We went over algorithms in our one meeting to get a better understanding of how we want to approach the matching problem. Our advisor gave us feedback on our current algorithms and advice on where to go next. We also updated our advisors and clients on the project and how much progress has been made. No major decisions or updates were made.