

EE/CprE/SE 492 Weekly Report 3

February 10-February 24

Group 1

Class Scheduler

Client: Vicky Thorland-Oster, Tina Prouty

Advisor: Dr. Daniels

Team Members: Lewis Callaway (Client Point of Contact), Simeon Steward (Algorithm/Project Lead), Brian Schomer (Project Manager), Isaiah Ortiola (Component Designer), Carter Everts (Testing Lead), Michael Less (Tech Lead)

Summary:

Our team had a demo for Dr. Daniels on February 19 and a demo for Tina and Vicky on February 23. The work behind the project went into getting ready for the demos.

Past two-week accomplishments:

- Lewis: Made the classes import more modular so it is no longer relying on hard coded values in the frontend. I also worked with other group members in approving their PRs and attended the demos.
- Simeon:
- Brian: UI work for editing information
- Isaiah: Frontend organization, adding comments and trying to make it easier to find specific components in the code. Minor fixes in code and joining discussions.
- Carter: Created tests for the frontend and started working on test templates for the backend as well.
- Michael: Finished app scalability and merge conflict, added a way to delete classes from cohorts while both adding and editing

**Broader Context**

Our section 4.4 previously was:

Area	Description	Examples
Public health, safety, and welfare	While our project doesn't necessarily affect public health or safety, it does work to make an existing process less stressful for ECpE staff.	The ECpE office staff is able to schedule new courses quicker and easier than before Professors can know a potential time for a new course quicker since the office staff can find an available time quicker than before
Global, cultural, and social	The software does not offer many opportunities to reflect the values, practices, and aims of the cultural groups it affects, but will attempt to be aligned to the practices and aims of the ECpE department whenever possible.	Not super applicable to our project, but we will ensure that the software aligns with the current standards and processes for scheduling classes so as many students have access to courses as possible.
Environmental	The project is purely project, so there is negligible environmental impact however it may provide a small positive impact.	Since this is a purely software project, it will have negligible impact. It may save a small amount of paper if the department printed the existing schedule out to find available times manually.
Economic	Our project will provide an economic benefit because it will help streamline office processes and save time for the ECpE office staff.	This project will likely save the ECpE office staff time in scheduling classes that they can rededicate toward assisting students which in turn could help Iowa State retain more students. The project has no recurring costs since it is locally run.

“Our problem is solving a very specific need for the ECpE office, however if successful, it could easily be extended to other departments across Iowa State. Our project is addressing a need to assist in making the scheduling of classes easier for ECpE office staff.”

Upon meeting as a group and talking with our client, we have 1) Identified that this program might be adopted university wide. This could lead to large savings in time and paper that are used University wide. 2) We plan to demonstrate positive effects by having the ECpE office determine the software would actually solve the problem of scheduling new courses and see if we can get some kind of metric on how much quicker they can do it. 3) We did not identify any negative effects after discussing with the client.

#### Individual contributions

Name	Individual Contributions	Hours these two weeks	Hours Cumulative
Brian	Created UI to edit cohorts and classes	20	40
Carter	Created frontend and backend tests	14	34
Isaiah	Frontend organization and meetings	14	34
Lewis	Dynamic class import settings, approving merge requests, client meeting prep	15	61
Simeon	Created backend especially algorithm tests	10	58

Michael	Finished Merge conflict resolution for scaling, and implemented the ability to delete classes from cohorts	17	37
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Plans for upcoming weeks:

- Lewis: Make the Schedule tab persistent so it doesn't close when we click off of it.
- Simeon: Continue creating tests + any new endpoints that come up
- Brian: Testing API and experimenting with algorithms
- Isaiah: Create a color-coded UI to work with the algorithm numbers in the schedule that correlate to the conflicts
- Carter: Improve and add more tests to the frontend and create some more tests for the backend.
- Michael: Work on the ability to export the times to a csv

Advisor Meeting Summary:

**SD-May24-01 – Class Scheduler Project**

Meeting with advisor, Dr. Tom Daniels

2/19/24

Present: Dr. Daniels, Lewis Callaway, Michael Less, Isaiah Ortiola, Brian Schomer,

Absent: Carter Everts, Simeon Steward – both had work

The team had a short meeting with Dr. Tom Daniels to discuss the progress the group has made in so far. Dr. Daniels was happy with the progress made so far. He recommended doing a demo with Vicky and Tina as soon as possible.

Decisions made:

- Schedule a meeting this week with the client
- Ask the client how they want time to display on the Classes tab.
- Have colors for the classes on the time grid

Action Items:

- Do a demo for Tina and Vicky as soon as possible
- Continue with development and improvements
- Create a compiled file

Summary of topics discussed:

- Demoed what had been done already
- Where the project should go from here
- An option to have a print out/CSV output option
- Scheduling with client for next steps

**SD-May24-01 – Class Scheduler Project**

Meeting with client, Tina Prouty and Vicky Thorland Oster

2/23/24

Present: Lewis Callaway, Brian Schomer, Simeon Steward

Missing: Carter Everts (conflict), Isaiah Ortiola (conflict), Michael Less(conflict)

The team had a meeting to demo to the clients.

Decisions made:

- Truncate to 2 decimal places
- Display MWF and TR classes separately

Action Items:

- Fix some display bugs

Summary of topics discussed:

- Use cases
- App functionality