

EE/CprE/SE 491 Weekly Report 4

October 4 to October 11, 2024

Group number: 14

Project: Computer Science Course 309 Dashboard

Client/Advisor: Dr. Simanta Mitra

Team Members:

Bradley Gaines - Component Design, Cross-Component Integration

Breckin Bartels - Testing, Component Design

Kat Christofferson - Component Design

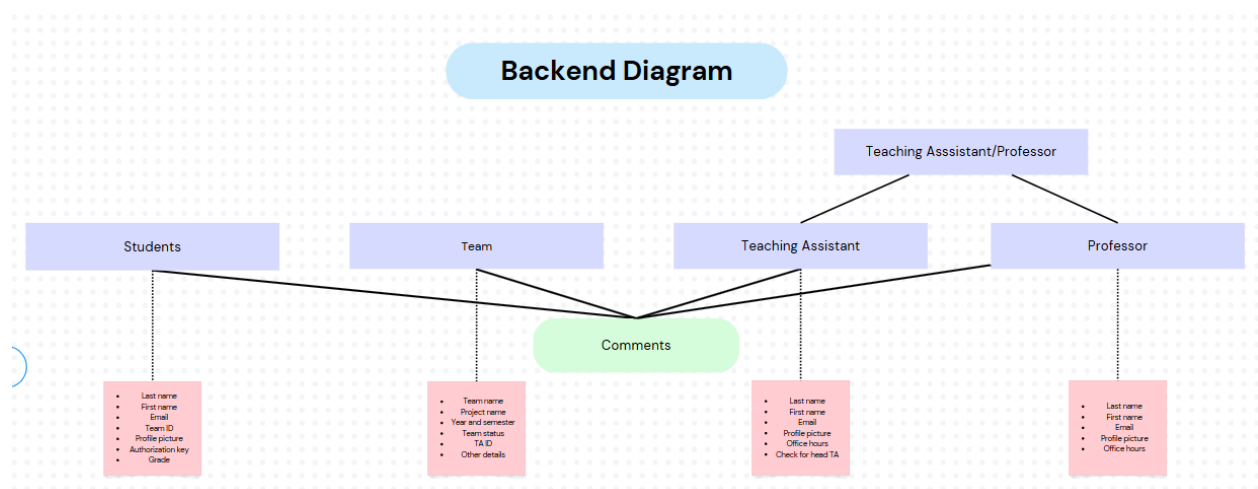
Ria Patel - Team Organization and Documentation, Project Manager

Thomas Payton - Component Design, Testing

Varun Jain - Client Interaction, Component Design, Cross-Component Integration

Weekly Summary

This week we primarily focused on creating mockups/schematics for the frontend and backend. We did research in order to figure out what organization would be best. We researched API and GIT calls. We also researched API and FERPA requirements needed when dealing with academic records and student information. We also looked into the possibility of running our program through multiple servers. This week helped us learn a lot about what is coming ahead and how we can best tackle the beginning of our project. Below is segment of our backend diagram.



Past Week Accomplishments

Bradley Gaines:

- Researched API and FERPA requirements.
- Worked on database learning and backends.

Breckin Bartels:

- Added additional page to figma mockup.
- Researched Next.js and how it works.

Kat Christofferson:

- Looked in to a list values need for the Git request calls, put, pull, push, and activate flags.

- Looked for possible python library that will be image read the handwrite of student.

Ria Patel:

- Updated our website:
 - Status reports.
 - Documents.
 - Sketches.
 - Project overview/explanation.
- Assisted on mockups/schematics for frontend and backend.

Thomas Payton:

- Worked on Figma mockup, added login and homepage to Next web app.
- Got a basic home page setup on the Next web app.

Varun Jain:

- Developed a list of backend API calls.
- Looked into running two servers or run python script from JS.

Pending Issues: None

Individual Contributions

Name	Individual Contributions	Hours This Week	Hours Cumulative
Bradley Gaines	Created rough terms of service document for compliance with FERPA and Canvas	6	13
Breckin Bartels	Added additional page to Figma mockup. Researched next.js to start development for frontend.	6	13
Kat Christofferson	Call table. Python library.	6	12
Ria Patel	Updated the website. Assisted of mockups/schematics.	6	13
Thomas Payton	Figma mockup. Next web setup.	6	12
Varun Jain	API calls. Server research.	6	13

Plans For the Upcoming Week

Bradley Gaines:

- Continue Terms of Service checking.
- Look to work on backend.
- Get database structures approved by Mitra.

Breckin Bartels:

- Start frontend development.
- Continue to add to figma mockup.
- Implement basic main page to start routing to other pages.
- Work on screen flow diagram.

Kat Christofferson:

- Create ER diagram for the backend.
- Set up database with Dr. Mitra.
- Implement person table/ID/position for comment purposes.
- Implement comments as a thread (different sections for different topics).
- Run through database and tables with Mitra collaboratively.
- Figure out if we need keys for accessibility.
- Figure out how to grab Catme and google forms data.

Ria Patel:

- Update our website:
 - Status reports.
 - Documents.
 - Sketches.
 - Project overview/explanation.
- Assist on mockups/schematics for frontend and backend.
- Figure out if we need keys for accessibility.
- Figure out how to grab Catme and google forms data.

Thomas Payton:

- Start frontend development.
- Continue to add to figma mockup.
- Implement basic main page to start routing to other pages.
- Work on screen flow diagram.

- Send Mitra the Figma mockup for edits.

Varun Jain:

- Create ER diagram for the backend.
- Set up database with Dr. Mitra.
- Implement person table/ID/position for comment purposes.
- Implement comments as a thread (different sections for different topics).
- Run through database and tables with Mitra collaboratively.
- Figure out if we need keys for accessibility.
- Figure out how to grab Catme and google forms data.

Weekly Advisor Meeting Summary

We met with Dr. Mitra on October 10 to discuss further details for our project. We demonstrated our work on diagrams for the backend and as well schematics for the frontend organization. While pleased with our work, we must continue to move forward.

- Frontend Figma:
 - Send Mitra the file so he can make edits for better organization.
 - Brainstorm how to include attendance tracking.
 - Make screen flow.
- Backend Diagrams:
 - Make ER diagram.
 - Implement person table/ID/position for comment purposes.
 - Implement comments as a thread.
 - Mitra will give a google sheet for student information to pull from.
 - Run through database and tables with Mitra collaboratively.
 - Create separate topic comment sections.
- Data:
 - Figure out if we need keys for accessibility.
 - Both professors will be using the same canvas page.
 - For future terms, the course id will need to be updated.
 - Figure out how to grab Catme and google forms data.
- Name identification on papers:
 - Template that would print out page for each student.
 - QR codes or name templates?
 - PDF creation in backend.

- One pdf that runs all names and teams through a header.
- Tentative plan:
 - 2 weeks out: half of draft.
 - Database set up.
 - Tables set up.
 - ER diagram.
 - 4 weeks out: first draft done.