

EE/CprE/SE 491 Weekly Report 3

September 27 to October 3, 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

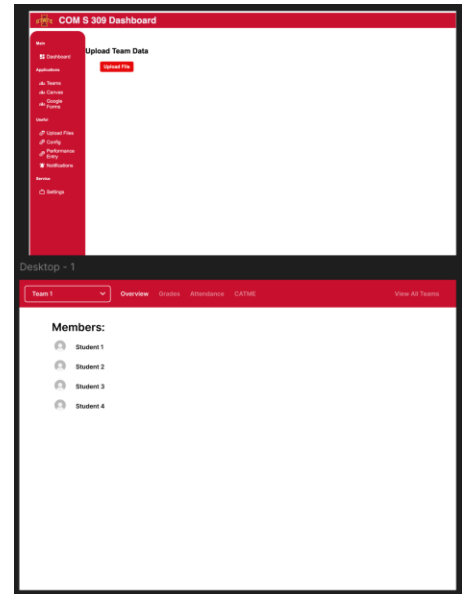
Ria Patel - Team Organization and Documentation, Project Manager

Thomas Payton - Component Design, Testing

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

Weekly Summary

This week we spent our time preparing for our initial programming start. We revamped the front end of the 2023 project attempt to fit more to our needs. We mapped out relations between front end, back end, and security including their needs and how we plan to organize/structure each. We created an updated database layout for clarification purposes. We started an initial frontend Figma mockup (shown on the right), and a schematic for the backend. We were able to set up MySQL database on the server to store our backend. We reviewed FERPA compliance for canvas grades, and researched how to implement satisfactory encryption. We also looked into technologies for OCR for future reference.



Past Week Accomplishments

Bradley Gaines:

- Assisted with revamping 2023 front end for usability.
- Helped map out relations and database layout.
- Figured out front end needs and organization.

Breckin Bartels:

- Assisted with Frontend Figma design mockup.
- Assisted with putting together a database structure with objects and relations.
- Set up MySQL database on server.

Kat Christofferson:

- Discussed the backend Data structure with a teammate.
- Downloaded the necessary technology needed for backend development.
- Started to implement the MySQL database.

Ria Patel:

- Updated our website:
 - Status reports.

- Documents.
- Sketches.
- Project overview/explanation.
- Figured out organization for frontend, backend, etc.

Thomas Payton:

- Finalized what stack we'll use.
- Created a diagram/sketch of the project architecture.
- Started a Figma for how the website could look.

Varun Jain:

- Assisted with putting together a MySQL database structure.
- Figured out FERPA compliance for Canvas Grades.
- Looked into technologies for OCR via existing frameworks or for self-development.

Pending Issues: None

Individual Contributions

Name	Individual Contributions	Hours This Week	Hours Cumulative
Bradley Gaines	Canvas API User requirements and Security Ideas	2	7
Breckin Bartels	Spun up MySQL database on team server, Added a couple views to frontend Figma mockup.	3	7
Kat Christofferson	Assisted in creating a database structure design, and draw down the concept.	2	6
Ria Patel	Updated website. Assisted in schematics/mockups.	2	7
Thomas Payton	Started work on Figma mockup for the frontend and pushed a basic Next app to GitHub.	2	6
Varun Jain	Assisted in creating a database structure. Looked into FERPA compliance requirements for Canvas to application. Look into OCR technologies	3	7

Plans For the Upcoming Week

Bradley Gaines:

- Research API and FERPA requirements.
- Work on database learning and backends.

Breckin Bartels:

- Help finish frontend Figma mockup
- Start home page development.
- Start routing for different pages.

Kat Christofferson:

- Looking in to a list values need for the Git request calls, put, pull, push, and activate flags.
- Look for possible python library that will be image read the handwrite of student.

Ria Patel:

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

Thomas Payton

- Work on Figma mockup, ideally finish the home screen.
- Get a basic home page setup on the Next web app.

Varun Jain:

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

Weekly Advisor Meeting Summary

(Notes below are from our meeting with Dr. Mitra on September 26. We meet biweekly, making our next meeting October 10).

- Extended wants:
 - Dr. Mitra would like to scan in weekly assignments and gather attendance through that.
 - Dr. Mitra would like to upload pdf of images and names of students, and assign these to teams.
 - CATME data will come from a CSV file that Mitra wants to upload to the website.
 - Parse this data and display it nicely.
 - Look at FERPA compliance for canvas grades.
 - Where do we fail, where do we pass.
 - What do we need to do to be fully FERPA compliant.
 - Have some sort of quick search for looking up students.
- Deliverables for next meeting (two weeks):
 - Have a database structure with objects and relation ready to present to him.
 - Have some sort of frontend architecture diagram ready to present.
 - Possibly have a Figma mockup for a couple pages.
- Other:
 - He was pleased with us getting the other groups projects running for him!
 - We probably need to start development here shortly.