

# EE/CprE/SE 491 Weekly Report 5

*October 12 to October 18, 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*

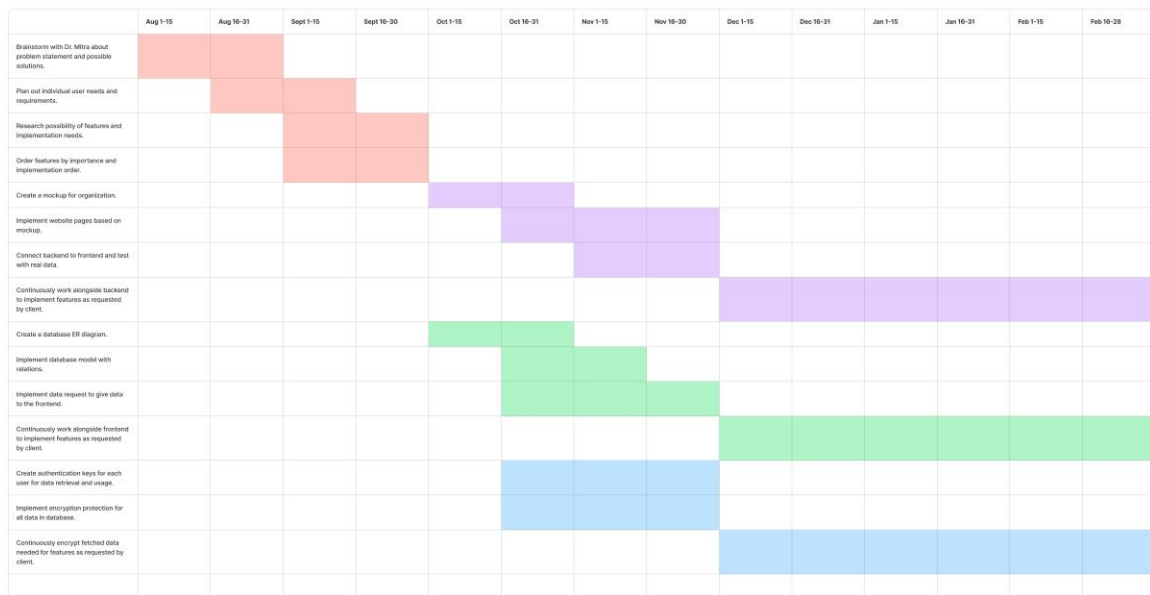
*Thomas Payton - Component Design, Testing*

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

## Weekly Summary

This week we made great progress in both the frontend and the backend. For the backend, we worked on database structures with Dr. Mitra, including the ER diagram and the person table. We researched how to integrate CATME and Google Forms, including their accessibility keys. As for the frontend, we started implementation of the main page and secondary pages. We completed a screen flow diagram and updated the Figma mockup, then sent both to Dr. Mitra for edits. As usual, we continued to update our website to reflect the work we have done so far. Overall, it was a very productive week for starting our implementations. Below is our Gantt chart that helps us stay on track with our timeline!

### Gantt Chart



## Past Week Accomplishments

Bradley Gaines:

- Continued Terms of Service checking.
- Looked to work on backend.
- Got database structures approved by Mitra.

Breckin Bartels:

- Started frontend development.
- Continued to add to figma mockup.
- Worked on screen flow diagram.
- Sent Mitra the Figma mockup + screen flow diagrams for edits.

Kat Christofferson:

- Created ER diagram for the backend.
- Set up database with Dr. Mitra.
- Implemented person table/ID/position for comment purposes.
- Implemented comments as a thread (different sections for different topics).
- Ran through database and tables with Mitra collaboratively.

Ria Patel:

- Updated our website:
  - Status reports.
  - Documents.
  - Sketches.
  - Project overview/explanation.
- Assisted on mockups/schematics for frontend and backend.
- Researched what keys we need for accessibility.
- Researched how to grab Catme and google forms data.

Thomas Payton:

- Started frontend development of Next.js app.
- Continued to add to Figma mockup.
- Implemented landing page, basic dashboard, and individual team pages.
- Worked on screen flow diagram with Breckin.

Varun Jain:

- Created ER diagram for the backend.
- Set up database with Dr. Mitra.
- Implemented person table/ID/position for comment purposes.
- Implemented comments as a thread (different sections for different topics).
- Ran through database and tables with Mitra collaboratively.

Pending Issues: None

## Individual Contributions

Name	Individual Contributions	Hours This Week	Hours Cumulative
Bradley Gaines	Cloned git repository, learning typescript and looked over documents, researching typeORM	6	19
Breckin Bartels	Created screen flow diagram, researched next.js and played around with page routing. Added some more detail to Figma mockup.	6	19
Kat Christofferson	Cloned the git repository in to vm-user assisted un updating node, and added another package.	6	18
Ria Patel	Updated website. Mockups/schematics. Accessibility keys research. Data fetching research.	6	19
Thomas Payton	Added login, dashboard, and teams' pages to Next web app. Added to Figma mockup and helped with screen flow diagram.	6	18
Varun Jain	Updated node, and added another package. Created ER diagram for database.	6	19

## Plans For the Upcoming Week

Bradley Gaines:

- Learn and implement Type ORM in the backend
- Establish connections to database
- Learn how we would make calls to Canvas

Breckin Bartels:

- Start routing frontend to add more pages
- Start working on getting a file uploader working (This will be a page)
- Determine what database calls are needed for early-stage development

- Determine when these need to be implemented.

Kat Christofferson:

- Implement data base using Type ORM
- Work on Updating the Diagram for Database.

Ria Patel:

- Update our website:
  - Status reports.
  - Documents.
  - Sketches.
  - Project overview/explanation.
- Update mockups/schematics.
- Research typescript commands/functions.

Thomas Payton:

- Continue to implement high level Figma mockups into Next web app.
- Finalize designs and screen flow with Mitra to ensure we're going in the right direction.

Varun Jain:

- Implement Database in Type ORM.
- Figure out if we need keys for accessibility.
- Figure out how to grab Catme and google forms data.

## Weekly Advisor Meeting Summary

(Notes below are from our meeting with Dr. Mitra on October 10. We meet biweekly, making our next meeting October 24).

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.