

EE/CprE/SE 491 Weekly Report 9

November 8 to November 14, 2024

Group number: 14

Project: Computer Science Course 309 Dashboard

Client/Advisor: Dr. Simanta Mitra

Team Members:

Bradley Gaines - Component Design, Cross-Component Integration, Testing

Breckin Bartels - Component Design, Cross-Component Integration, Testing

Kat Christofferson - Component Design, Cross-Component Integration, Testing

Ria Patel - Component Design, Cross-Component Integration, Project Manager

Thomas Payton - Component Design, Cross-Component Integration, Testing

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

Weekly Summary

This week we have been focusing on making sure our front end and back end are aligned for easier connections. This primarily included working on API calls, which allows for data to be categorized and called to the front end. We also researched how to implement Gitlab into our dashboard, both on front end and back end. We made significant progress on login capabilities using Google instead of Microsoft. Google provides the same safety and security so we will continue with Google authentication. As always, we continued to add and optimize all of our dashboard pages, including new attendance and individual profile pages. We worked around our Canvas authorization issue by implementing Canvas without the data so that when the project is handed over to Dr. Mitra, he can pull the data. We are making great progress!

Past Week Accomplishments

Bradley Gaines:

- Added more API for the frontend
- Got a foundation for Gitlab implementation
- Helped implement google Auth into backend

Breckin Bartels:

- Improved Upload Document Page.
- Worked with backend to get some API calls in place, and start implementing them in the frontend.
- Looked in to picking apart student data to populate database.
- Reworked team breakdown page.

Kat Christofferson:

- Added the necessary API that the frontend needs.
- Helped implement google Authentication in the back end.
- Finished implementing other data tables and routing.

Ria Patel:

- Updated our website.
- Updated mockups/schematics.
- Looked into MS Authorization access.
- Researched Canvas access alternative.

- Looked into creating CATme replication in dashboard.
- Assisted with API calls.

Thomas Payton:

- Tried to get data fetching from backend and/or continue to work with backend on figuring out how to fetch data.
- Worked on alternative pages besides dashboard and team drill down (settings, documents, etc.).

Varun Jain:

- Continued making changes to the ER diagram and adding to the database
- Worked on API as requested by the frontend
- Implemented some Security measures on the backend
- Continued working on CSV data

Pending Issues: None

Individual Contributions

Name	Individual Contributions	Hours This Week	Hours Cumulative
Bradley Gaines	Worked on API methods and working on getting postman working on vm for better testing	7	43
Breckin Bartels	Rework team breakdown, parse student and team data from file upload.	8	46
Kat Christofferson	Assisted on API. Assisted on login authorization. Assisted on data tables and routes.	6	42
Ria Patel	Updated website. Researched login authorization. Researched CATme replication. Assisted API calls.	7	45
Thomas Payton	Updated attendance page and team drilldown.	7	44
Varun Jain	Updated ER diagram. Worked on some API methods. Worked on some security Implementations.	6	43

Plans For the Upcoming Week

Bradley Gaines:

- Get the more complex get calls working in backend.
- Get postman working so I can test these calls format.
- Communicate with Frontend to get calls formatted how they want.

Breckin Bartels:

- Continue to add data to Team Breakdown page.
- Continue to parse data, from file upload, to send to backend.
- Mess around with GitLab API's a bit more.

Kat Christofferson:

- Continue adding the necessary API that the frontend needs.
- Continue implementing other data tables and routing.

Ria Patel:

- Update our website.
- Update mockups/schematics.
- Look into creating CATme replication in dashboard.
- Assist with API calls.

Thomas Payton:

- Continue work on attendance taking logic and consult with backend on implementation.
- Continue work on team drilldown and eventually connecting to the backend.
- Research collecting / verifying location for attendance.

Varun Jain:

- Continue work on API calls,
- Continue updating ER diagram and database.

Weekly Advisor Meeting Summary

(Notes below are from our meeting with Dr. Mitra on November 7. We meet biweekly, making our next meeting November 21).

- Canvas issue:
 - Told client that CFT department will not give us access to actual Canvas data.
 - Client responded by saying to use the developmental server information because he may be able to gain access once the database is handed over.
 - We will get more details about the developmental server and how to proceed.
 - Alternative: Client will give spreadsheet of Canvas gradebook, then we analyze that data into the dashboard.
 - Todo: write a script that will analyze the spreadsheet and encrypt it. Client will run the spreadsheet through our script then give us the encrypted results.
- Frontend:
 - Authorization:
 - Client was impressed.
 - New team status overview page with drill downs:
 - Client was pleased.
 - Client wants pictures of each student in the team drill down. Suggested big pictures at the top of the page.
 - Client wants to be able to give comments on the team drill down page.
 - File uploads desired:
 - Teams.
 - CATme.
 - Grades.
 - Attendance Page:
 - Client is worried about code sharing.
 - Client wants more of a question based attendance to ensure students are focused. This could be a few questions related to the class. Client would need an easy way to enter questions per lecture.
 - TA performance page:
 - Client would like a performance page to track TA.
 - Would be similar to the team drill down but focused on the TA.
 - Would be easy to drill down from the team status overview (color coded would be great).
 - Client would like a history of comments/feedbacks about the TA in their performance page.

- Git representation:
 - Client will give us access of an old repository to see what data looks like for calls.
 - Client wants history of git shown on the dashboard.
 - Filter could be useful for determining course awards.