

CYBE / SE 491 Weekly Report

March 26 - April 1, 2025

sddec25-10

SmartClass: Transforming Engagement in Large Classrooms with Interactive Learning

Faculty Advisor / Client: Md Maruf Ahamed

Team Members:

- Josh Dwight - Backend/Frontend
- Logan Pfantz - Frontend/Backend
- Matthew Gudenkauf - Frontend
- Michael Becker - Frontend /Backend
- Michael Geltz - Backend
- Ryan Lin - Frontend/Backend

Summary of Work:

Backend development was the primary focus this week. Many developments are progressing in the backend as all members are able to sign in and modify the database in SQL. Touchpoints have also been created for creating new user accounts for both professor and student type accounts. Some frontend work was accomplished as well with some testing and polish.

Work Period Accomplishments:

Josh Dwight:

- Did a bit of experimentation with Postman
- Tested backend a bit

Logan Pfantz:

- Transitioning to backend work
 - Read maven and spring-boot API
 - Created small GET and POST requests for testing
 - Learning how to connect and save data in SQL database

Matthew Gudenkauf:

- Using Postman to check API on backend for debugging
- Setup user account on Database

Michael Becker:

- Researched common testing mechanisms for websites
- Refined fronted appearance

Michael Geltz:

- Setup account for team members on MySQL database
- Granted proper privileges to team members on database
- Further tested backend implementation for users

Ryan Lin:

- Converted most of the final html file contents to javascript

Plans for Coming Week + Action Items:

Josh Dwight:

- Help with backend implementation

Logan Pfantz:

- Implement backend touchpoints for POST and GET requests
- Connect to the database and create tables for new features
 - Still need to distinguish user types in the database

Matthew Gudenkauf:

- Integrate quiz features

Michael Becker:

- Research in-depth security measures for coursework

Michael Geltz:

- Add courses to the backend

Ryan Lin:

- Working on converting final html to js for react component
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Pending Issues:

Josh Dwight:

- N/A

Logan Pfantz:

- Build on the testing samples to finish frontend to backend connections
- Figure out the API required for passing information along from frontend to backend and vice versa.

Matthew Gudenkauf:

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Michael Becker:

- N/A

Michael Geltz:

- N/A

Ryan Lin:

- Finish the html file conversion
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Individual Contributions:

Team Member	Contribution	Weekly Hours	Total Hours
Josh Dwight	More experimentation and testing	1	11

Logan Pfantz	Many tutorials and reading on setting up servers and using maven and spring-boot. Sample projects created for testing.	6	17
Matthew Gudenkauf	Setup Database Account, Testing get/pull requests from frontend	3	14
Michael Becker	Mostly research and learning for future implementation	1	11
Michael Geltz	Created database accounts for team members, granted privileges to team members	2	12
Ryan Lin	Working on converting final html to js for react component	2	11