
EE/CprE/SE 492 WEEKLY REPORT 5

Date: 10/30/25

Group Number: sddec25-10

Project title: SmartClass: Interactive Learning

Client &/Advisor: Md Maruf Ahamed

Team Members/Role:

- **Josh Dwight - Backend/Security**
- **Michael Geltz - Backend/System Admin**
- **Michael Becker - Frontend/Security**
- **Matt Gudenkauf - Frontend**
- **Logan Pfantz - Frontend & Advisor Liaison**
- **Ryan Lin - Frontend**

o **Weekly Summary**

This week's update brought a few new bugs to work out caused by the change to https. The additional 's' requires a website to be signed which is impossible for SmartClass currently as it runs out of ISU's servers. The only way to publish and use the site is with a self-signed certificate which is not a good solution and leads to browser warnings. Another side effect of securing the website is that some of the old implementations require updates to support the new protocol. This week and next week will probably feature quite a few fixes for these new issues.

o **Past week's accomplishments**

- Josh Dwight: Globus SSO is now fully implemented. Starting with work on Screensharing and will fall back to fixing bugs if screensharing seems unfeasible.
- Michael Geltz: Teacher dashboard redesign planning.
Polling and attendance tracking.
- Michael Becker: Fixed issues regarding loading materials, but needs to address issues that occur when a section is created. Also working on encryption again, but the main focus is on fixing the implementation of loading materials. Also worked on implementing a PDF viewer inside the actual web application, rather than opening a new tab.

- Matt Gudenkauf: Finished working on announcements implementation
Starting to work on cleaning the UI in the frontend
 - Logan Pfantz: Tweaked a few details on the quiz pages; minor things like centering UI and changing fonts. Attempted updating the websockets to websocket secure to accommodate the https update but couldn't get it working.
 - Ryan Lin: Analyzed the existing frontend quiz creation components and implemented a backend quiz management system. The backend includes JPA entities for Quiz and Question objects, repositories for data access, a service layer for business logic, and REST API controllers. Created DTOs and updated the frontend to integrate with the new backend endpoints.
- o **Pending issues** *(If applicable: Were there any unexpected complications? Please elaborate.)*
- Josh Dwight: HTTPS caused some issues with the functionality of the websocket due to us not creating a key to be used for WSS. There are also some other minor issues caused by Globus.
 - Michael Geltz: N/A
 - Michael Becker: Implementing encryption, loading materials
 - Matt Gudenkauf: Join class with class code only.
Synchronize Student/Professor pages
 - Logan Pfantz: There have been some issues arising from the HTTPS update such as the websocket thing mentioned already. Some other bugs have also been found when using the website such as not being given a password when creating an account using Globus. Unenrolling in a course requires the user to enter a password for example, but the user never entered one.
 - Ryan Lin: N/A
 - Everyone: N/A

Individual contributions (Creating this section is optional, but it is **Required to include the “Hours Worked for the Week” and their “Total Cumulative Hours” for the project for each member somewhere relevant in your report. Your individual weekly hours should be at a minimum of 6-8 hours for this course. So please manage your time well. Also, ensure that individual contributions support your claim to the weekly hours. Be honest with the reports.**)s

<u>NAME</u>	<u>Individual Contributions</u> (Quick list of contributions. This should be short.)	<u>Hours this week</u>	<u>HOURS cumulative</u>
Josh Dwight	Implemented Globus SSO. Started research on the best way to do screensharing.	10	57 + 10 = 67
Michael Geltz	Teacher dashboard redesign planning. Polling and attendance tracking.	7	60 + 7 = 67
Michael Becker	Fixing viewer, fixing loading pdfs	7	58 + 7 = 65
Matt Gudenkauf	Finished implementation on announcements Starting on bug fixing for frontend.	7.5	61 + 7.5 = 68.5
Logan Pfantz	Testing old implementations. Tweaking UI.	8	70 + 8 = 78
Ryan Lin	Added backend management for quizzes	10	63 + 10 = 73

o **Plans for the upcoming week** (Please describe duties for the upcoming week for each member. What is(are) the task(s)?, Who will contribute to it? Be as concise as possible.)

- Josh Dwight: Try to implement screensharing, fix bugs relating to Globus and HTTPS
- Michael Geltz: Redesign teacher dashboard for live lectures and logging.
- Michael Becker: Refine view of pdfs, fix loading issue, either implement or dump encryption
- Matt Gudenkauf: Join class with class code.
 Clean the UI up
 Synchronize Teacher/Student pages
 Add Description/Subject fields for courses(add endpoints on back)
- Logan Pfantz: Finish a roundtrip for creating a quiz and saving it to the database, then having a student account see it in the courses section and submit their answers for saving as well.
- Ryan Lin: Polish up backend management for quizzes in case there are any issues and also write test code for it

o **Summary of weekly advisor meeting** (If applicable/optional)

The meeting was about getting to a point where the website is testable in a classroom. The next couple of weeks will be spent getting the basic features fully functional to allow a trial run to be conducted in a real classroom. The basic features needed are live chat, quizzes, polls, and participation statistics. A basic implementation is already in place; it just needs endpoints to connect to to complete a round-trip.