

EE / CprE / SE 491 Weekly Report
February 26 - March 4, 2025
Group Number: sddec25-10
Project Title: SmartClass
Client &/ Advisor: Md Maruf Ahamed

Team Members:

- Josh Dwight - *Frontend/Backend*
 - Logan Pfantz - *Frontend*
 - Matthew Gudenkauf - *Frontend*
 - Michael Becker - *Frontend /Backend*
 - Michael Geltz - *Backend/Frontend*
 - Ryan Lin - *Frontend/Backend*
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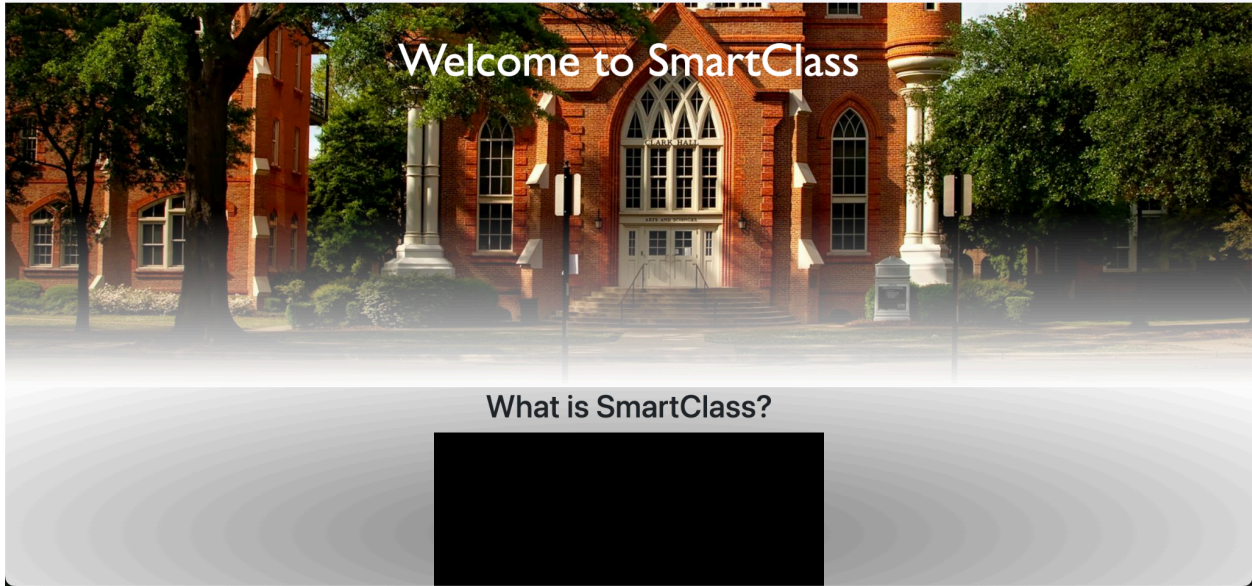
Summary of Work:

Now that all team members have access to the git repository, work has begun on creating the SmartClass web application. More text has been added to the homepage describing the features of the website along with some pictures. Stylizing the webpage has also begun by using gradients and background colors. The server is also getting worked on with new functionality for classes and students.

Work Period Accomplishments:

Logan Pfantz:

- Worked on adding elements to the home page
 - Summary of what SmartClass is used for
 - Bullet points to show how different levels of users may use the website (teachers and students)
 - Added royalty-free pictures (might change these in the future)
 - Fixed the navbar to the top of the page when scrolling
 - Added backgrounds to make sections stand out
- Screenshots of homepage:



Professors:

- Schedule Classes
- Upload Notes
- Track Student Engagement
- Create Quizzes with Time Limits

Teachers are always in need of better ways to reach students directly. With large class sizes, getting individual time with a student is tough. SmartClass can help!



Students:

- Participate in class
- Ask for help immediately
- View all previous class chats
- Post questions with photos, videos, and documents
- Anonymous question posting gives you confidence

Students can get lost in the crowd inside large classrooms. Teachers may focus too much on their computers to notice you're raised hand. SmartClass gives you direct access to your teacher.

Josh Dwight:

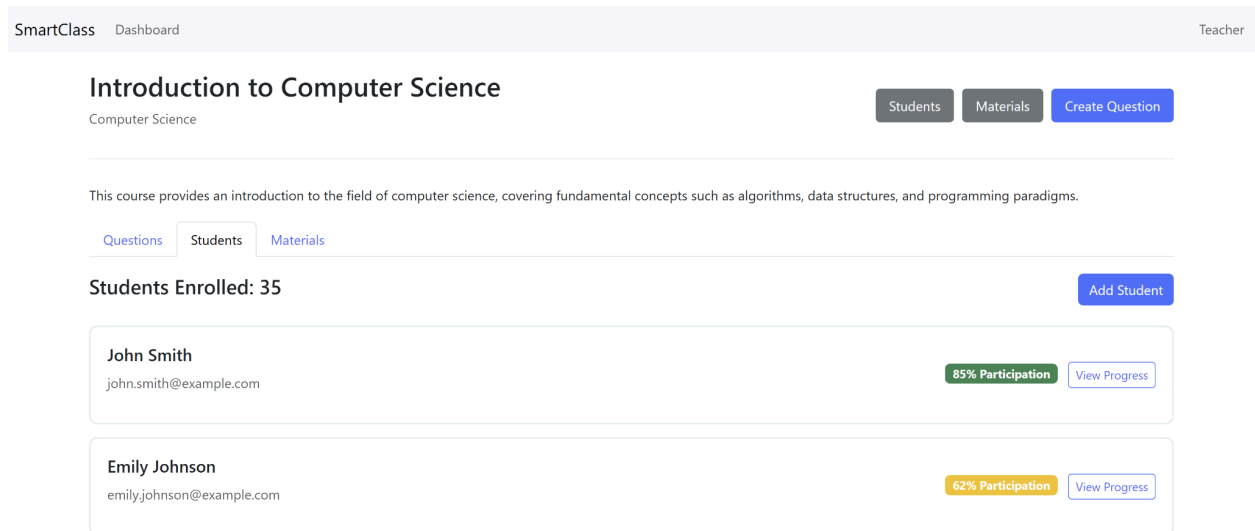
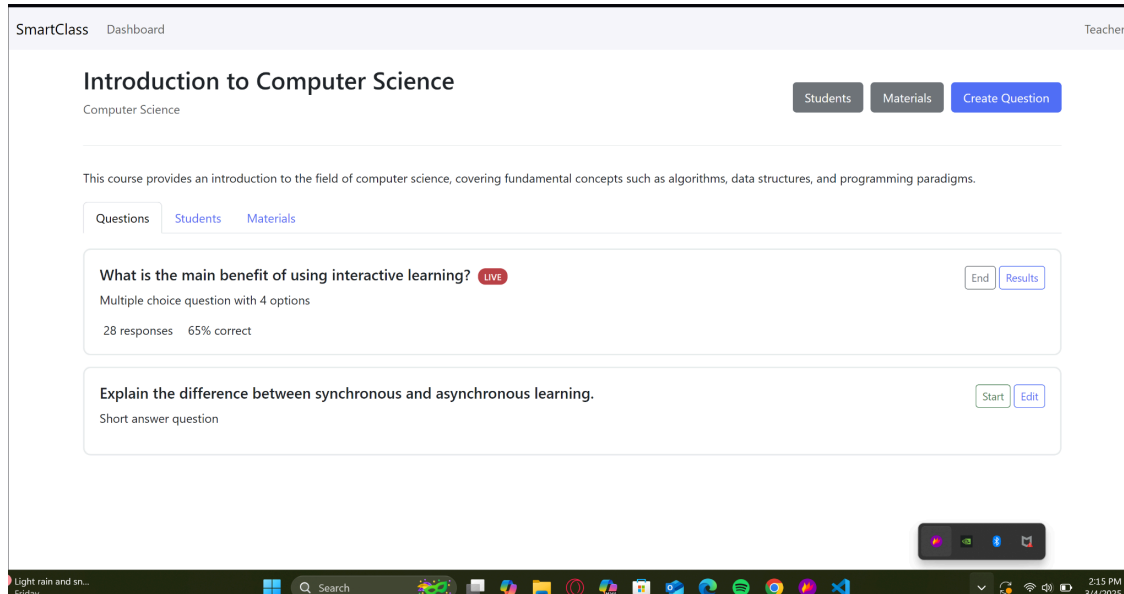
- Experimented a bit more with backend and familiarized myself with most aspects. I should be able to begin working on creating tables and endpoints for the frontend to connect to.

Matthew Gudenkauf:

- Added more detail to the student dashboard. Will be easier to integrate when the backend is updated

Michael Becker:

- Added a class management portion for the teachers. Rough design of what the teachers would view:



Introduction to Computer Science

Computer Science

Students

Materials

Create Question

This course provides an introduction to the field of computer science, covering fundamental concepts such as algorithms, data structures, and programming paradigms.

Questions

Students

Materials

Class Materials

Add Material

Introduction to Interactive Learning

Slides from Week 1 lecture

Added: March 1, 2025

Download

Student Engagement Strategies

PDF document with supplementary reading

Added: March 2, 2025

Download

Michael Geltz:

- Created user and course CRUD endpoints for the backend
- Added security features for passwords
- Setup two types of users; professors, students.

Ryan Lin:

- Added a new FAQ page
- Updated About Us page to include more information about this project

Plans for Coming Week + Action Items:

Logan Pfantz:

- Continue improving the homepage
 - Add animations while scrolling
 - Improve the navigation bar's aesthetic appearance to blend more naturally into the page
 - Adjust the images and backgrounds on the page
- Work on adding content to other pages
 - The about us page needs more information

Josh Dwight:

- Need to learn about creating endpoints so the frontend can make API calls. Also need to discuss how tables will be laid out in the database.

Matthew Gudenkauf:

- Add login/create accounts in frontend
- Basic functionality

Michael Becker:

- Improve the class management system
 - Improve functionality
 - Add students
 - Add classes
 - Download materials of different types (For students)
- Improve log in functionality and implement on the backend
- Research correct documentation of security for log in and as well as inputs

Michael Geltz:

- Continue working on the backend
 - Get the endpoints working and functional
 - Deploy prototype backend build for testing

Ryan Lin:

- Fix the pipeline failing issue caused by incorrect DNS

Pending Issues:

- Josh Dwight
 - Create tables for backend and start learning about and/or making endpoints.
- Logan Pfantz
 - The home page is still unfinished.
 - It needs polish
 - Needs an introduction video showing how to use the website. This will need to be done after the website has more features to show
 - Experienced issues with CICD pipeline when pushing to git
 - Need to figure out what's wrong
- Matthew Gudenkauf
 - Add User/Teacher/TA Classes in backend
 - Add login/create account post requests
- Michael Becker
 - Continue to work on class management, try different methods and structures to see what is more user friendly.
- Michael Geltz
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- Ryan Lin
 - Fix pipeline DNS issue causing to fail

Individual Contributions:

Team Member	Contribution	Weekly Hours	Total Hours
Josh Dwight		3	7
Logan Pfantz	Work on homepage elements	4	8
Matthew Gudenkauf	Class Pages	2	6
Michael Becker	Class management development	4	7
Michael Geltz	Backend Framework	3	7
Ryan Lin	Created FAQ page & updated About Us page	2	4