

EE/CprE/SE 492 Bi-WEEKLY REPORT 3

Mar 2, 2023 – Mar 23, 2023 (Spring Break Included)

Group number: 40

Project title: *Interactive learning platform to engage large size classroom*

Client &/Advisor: *Md Maruf Ahamed (Client and Advisor)*

Team Members/Role:

- ***Tyler Miller: Backend***
- ***Alex Swenson: Backend***
- ***Jaden Ciesielski: Frontend***
- ***Brandon Burt: Frontend***
- ***Adam Walters: Frontend***
- ***Guan Lin: Backend***

○ **Bi-Weekly Summary**

- We successfully created a detailed demo of our application progress, which was shared to both our professors as well as our client/advisor. Our client was impressed and helped us narrow down features that are nice to have or required functionality. This allowed us to focus our team meetings into breaking down the next tasks for each person. The goal is to have all required functionality finished by mid April, which will then give us a chance to create a uniform website feel, with buttons, texts etc. all having the same style as well as the flow of the website. We are now in the process of trying to plan a time with our advisor to test run our website with one of his smaller classes.

○ **Past 2 week accomplishments**

- **GET /user/courses (Tyler)**
 - API to grab all courses that a given user is a part of
- **DELETE /message (Tyler)**
 - API to delete messages
 - Can only delete message if the message was sent by the given logged in user or of the user is a professor role in the course
- **Postman integration tests (Tyler)**
 - Created automated test suite in postman that runs through our apis and checks responses to ensure correctness
 - Added postman collection to our repo with instructions
- **Piazza Like Post DB changes (Tyler)**
 - Created the two needed tables to support the post functionality
 - Updated DB schemas locally and in production

- **Backend Docs (jsDocs) (Tyler)**
 - Worked on updating the backend documentation for our functions with better jsDocs
 - Now includes primitive types and Object names instead of “any”
 - Half done
- **PATCH Endpoint for messages (Alex)**
 - Security function, change database
- **Debug canEditGivenMessage function (Alex)**
 - Security validation function accidentally changed in different PR, had to go in and find out what was wrong with it
- **Added Course View Page (Adam)**
 - Created course view page using Figma as reference
 - Added lecture post type
 - Displays if live and various lecture info
 - Links to the live lecture
- **Added Lecture Creation Form (Adam)**
 - Created lecture creation form with button on course view page
 - Created mostly generic pop-up view to contain the form
- **Fixed Pre-Demo Bugs (Adam)**
 - Fixed improper git merge that was pushed to master
 - Fixed navigation issue relating to sign-up
- **Improved init.sql (Adam)**
 - Added course code to init.sql so it works properly
- **Created SignUp Page (Jaden)**
 - Created the API to add a new user to the database
 - Streamlines the login by using the credentials just created
- **Created Home Page (Jaden)**
 - Created the home page course components
 - Automatically loads all courses the user is currently in
- **Created Course Registration Popup (Jaden)**
 - Created the API for adding the current user to a course
 - Created the popup page that holds the required fields
- **Finished series of E2E tests for user navigation on Frontend (Brandon)**
 - Created test cases for different user scenarios within frontend
 - Made sure all test cases made sense and ran properly
- **Finished rest of unit tests (Guan)**
 - Created unit test for edit user patch
 - Created unit test for edit message patch
 - Created unit test for generic patch service
- **Pending issues**
 - None
- **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i>	<u>Hours these Past 2 weeks</u>	<u>HOURS cumulative</u>
Tyler Miller	Got integration Tests working via postman test. Added a message deletion API. Added get all courses for user API. Added various other enhancements to our apis such as timestamps on lectures and roles being added to the user session if the role is added while the user is logged in. Created the needed DB tables to allow the piazza post APIs to start being developed. Added better jsDocs to half of our backend APIs	12	64
Brandon Burt	Wrote end to end tests on the frontend using cypress and made sure it all was working properly as should. After finishing these our frontend was verified to be navigating properly as we expected it to.	10	50
Adam Walters	Created the course view page and updated top bar to navigate to the page. Added lecture creation form on course view page. Fixed a few bugs relating to polls and basic navigation. Improved init.sql for easier frontend testing. In a meeting, planned tasks for the next several weeks for frontend.	12	54
Alex Swenson	Continued work on PATCH endpoints and debugging routes	10	50
Jaden Ciesielski	Created the signup page as well as the API to create a new user in the database. Created API for registering a student to a course, which also includes the course registration popup/component. Created the home page that automatically lists all courses the user is a member of automatically.	13	54
Guan Lin	Created and finished unit tests for alex's patches for edit user and edit messages. Started unit test for patch service.	8	35

o Plans for the upcoming weeks

- Frontend:
 - Add support for attachments in live lectures
 - Allow the profile badge to have a flipped/reversed style
 - Implement raise hand feature in live lectures
 - Give functionality to live lecture feed filtering
 - Add poll option for multiple-select or multiple-choice
 - Update poll pop-up interface to reflect site styling
 - Support editing of messages and polls
 - Support deleting of messages
 - Implement download poll participation as .CSV feature
 - Support lecture dates for the course view
 - Support auto-closing polls
- Backend:
 - Allow close date to be sent in with POST /poll
 - Add poll_type to polls (multiple choice, multiple select)
 - Finish PATCH endpoints (messages, users, polls)
 - If time, do lectures too
 - Finish updated jsDocs for backend
 - Work with front-end on any issues identified with backend processes
- Team:
 - Next meeting with client discuss a time to go to one of his 281 lectures to test useability of the app in a real setting
 - Next meeting with client discuss changing the description of our project on the senior design website, as only our client has access

o Summary of bi-weekly advisor meeting

- Gave a demo of our current progress, specifically to show the lecture history page, home page and a few other new components added. We covered upcoming features we are planning to implement next, like the ability to edit and delete messages, raising hand functionality, exporting list of participants, etc.
- Features Client identified that still need to be completed
 - Course Creation on frontend
 - Admin course
 - Add close dates to polls

- Media upload apis utilized on front-end
 - Raise hand feature
 - Allow poll type to be specified
 - CSV download for poll results
 - Edit/Delete messages
 - Edit Users and Polls
- Features client identified as nice to have
 - Reveal anonymous messages
 - Piazza post like forum pages