

# SpeechHub

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### OVERVIEW

This project serves as a centralized website for the Speech and Debate team. It allows coaches and students to stay more organized and on top of practices to hopefully allow for increased feedback and growth of students throughout the year.

### RESEARCH

The main problem I noticed is the inefficiency of the practice system on the Kent Speech and Debate team. Currently during practices, students get feedback in a myriad of different ways: hand-written, emailed, verbal, or occasionally none at all. At the same time, with so many students on the speech team, it is difficult for coaches to track attendance of students during the school year. The purpose of this project is to solve both those issues through a website that could centralize all information into one place. This would not only allow for students to improve their speeches better as the year progresses, but would help coaches as an efficient way to deliver feedback to students.

Question	Bill + Ian
Initial thoughts?	-good way for organization
What other features would you like to see implemented in the website?	-bigger boxes (more feedback) -tasks for students
If I were to have this completed by April, could we test trial it?	
Could you see this being used on a regular basis?	-would use
Would you want coaches to be able to view every part of a students profile?	-coaches can look at student accounts
Would you be good logging in with your google account?	-sure
Would you actually use this? If no, why not?	
Are there any downsides/concerns you want me to be aware of?	-norming it for all coaches, regular use, -switch
When/how often do you see yourself using this? What could make it more appealing?	-pictures of cute puppies and pig friendship

**EMPATHY INTERVIEWS**

FIGURE 1: Empathy Interviews

### PROCEDURE

For this project I wanted to use languages and applications that coincided to what we were learning in Advanced Topics CS class.



FIGURE 2: Photo Description Here

For the website part of the project I planned on using Node.js alongside express.

For user authentication I used Auth0 to ensure that all passwords were secure.

For the website static pages I used bootstrap for formatting with pug templates.

To keep track of user sessions, store data from practices, and manage accessibility I used MongoDB alongside the desktop community app.

### ITERATIONS + IMPROVEMENT

Over the course of the project, there were several different stages that needed drastic iteration and improvement. Some features were much harder than others and developed over time. These iterations could be classified into:

- 1) Static web pages
- 2) Auth0 User Authentication
- 3) CRUD functionality
- 4) Storing cards in web pages
- 5) Mongo user sessions
- 6) "Beautifying" website

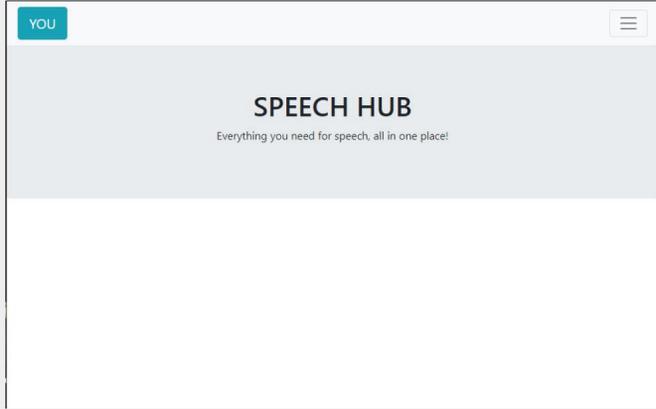


FIGURE 3: Website Home Page

The first part was creating static web pages for the website. This included making a home page as well as a navbar to go between practices, feedback, and profiles.

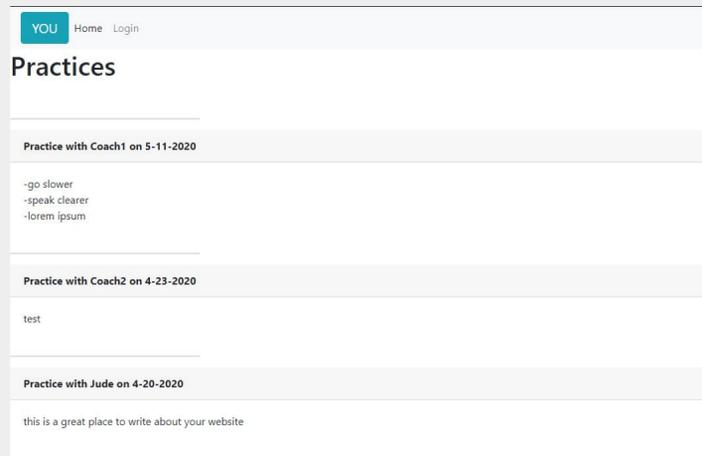


FIGURE 4: Practice Logs in Final Version

From there, I worked through creating user verification with Auth0. I wanted to do this so that way I wouldn't have to store passwords and information on my end and I could leave it to the experts (+ users could log in through Google). This was probably one of the hardest and buggiest parts.

Then I used Mongo for CRUD (create, read, update, and delete) functionality when it came to storing data in the MongoDB database.

A really hard step was actually sending and displaying information from the database in a nice fashion (see figure 4).

From there, I learned about user sessions and made the website look more aesthetically pleasing;.

### RESULTS/CONCLUSION

Though it's sad that this tool will not get to see use in my time at Kent due to the Speech season getting cut short by COVID-19, I hope it can serve as a stepping stone for future years and was a great learning project about web development. Hopefully when next year starts up again, this app can see some use!