

Hog Ridaahs! - Tech Work

Our team has been split up to work on the frontend, server, and database for the beginning stages of the project. Aidan and Anthony have been working on the front-end, Michael and Brian on the Server, and Cian and Adam on the database.

SERVER SIDE: Using Spring Boot, we have been able to connect to a mock user database, and using this we have started to code some REST API functionalities related to some dummy user data. So far, the code is able to process a GET request when the client visits localhost:8080/users, which returns all of the users that are stored in the database. More generally, we have been researching Spring Boot as a whole, as well as things such as REST APIs, HTTP requests, and how to format data before sending or receiving. We anticipate that, in the very near future, we should be able to connect with the front-end, which will allow us to add much more detailed, interesting code that can do things like log users in or store information about newly created accounts.

FRONT END: We have installed VS Code, React, and Vite, all three of which we are utilizing to build the prototype of our website. We have established very basic styling, along with several subpages within the website for users to navigate to. Most recently, we were able to create a functional search bar that successfully filters through a list of dummy data based on user input, which we will eventually link to a database to be able to search through real data. Additionally, we've created a basic login page with an area for users to select whether they are faculty or students – the login fields update based on the user's selection. This is the beginning of our work towards satisfying the client's desire to have different user permissions based on their relation to CIRT.

DATABASE: We have been setting up MongoDB and Atlas as our main components for working with the database, as we have found that Mongo, React, and Springboot synergize very well together as a full stack. For the actual database, we are still discussing

whether or not we should split the database into two or three smaller databases, each holding different areas of information, such as information for posters, academic journals, and user-account information. In the meantime, we have set up a mock-user database that the server can interact with. Overall, we have been researching document-oriented databases and the best practices for schema design, and we have a demo database that has been connected to the server.