

EE/CprE/SE 491 WEEKLY REPORT 7

Date: 10/24 - 10/31

Group Number: sdmay25-24

Project Title: IINSPIRE Survey System for STEM Undergraduate Research

Client &/Advisor: Dr. Diane Rover

Team Members/Role:

- Max Strater: Frontend
- Nick Pinnello: Backend
- Alex Moeller: Project Management/Misc.
- Charlie Moreland: Backend
- Matthew Bennett: Cloud
- Landon Gulotta: Cloud
- Isabelle Raghavan: Frontend

Weekly Summary

Kev and Landon worked with ETG to get access to AWS credentials. This will allow us to start laying foundational Cloud infrastructure and eventually lead to coding (yay!). Created template for new survey features. Met with Dr. Rover to discuss AWS and any issues that may occur with the setup. Frontend continued working on Figma Design, specifically the new survey screens.

Past Week Accomplishments

- Alex Moeller: Presented “Detailed Design” lightning talk to get feedback from professors and peers. Continued work on Figma wireframe design. Created a list of features from student feedback and began organizing them into tasks/stories.
- Max Strater: Presented Detailed design lightning talk in class, and continued working on the Figma redesign, specifically the redesign of the surveys. Doing research on what data inputs would be good for what questions.
- Nick Pinnello: Presented the detailed design slides in class and got some feedback from the professor. Looked more into new testing methods for the backend for when we create our prototype. It will be useful for testing basic components that the previous group worked on so we can add new features later on.
- Charlie Moreland: Created an excel file template for users to download and upload to the web application. The template is based on the original survey and users can adapt and modify this file to create a new survey version. Added to database schema to include the new programs feature. Researched Prisma and its integration to Node Js applications.
- Matthew Bennett: Worked with ETG on getting a new AWS account. Redid part of the infrastructure pipeline to include RDS. Figured out how to implement security on our API routes using SSL. Worked on the group presentation. Broke down and split up the Cloud/Infra tasks between Me and Landon so that we can develop different features concurrently
- Landon Gulotta: Spoke with ETG to get a new AWS account setup. Worked with Matthew to send the email with all the specified information and applications we will be needing. Additionally we got access to the previous team’s AWS account and were able to start looking into how they had their web application setup.
- Isabelle Raghavan: Presented our lightning talk in class. Looked through other surveys to get ideas for UI related improvements we can make to our design

Pending Issues

- Landon Gulotta & Matthew Bennett: Waiting on ETG to email us back for the new AWS account.

Individual Contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Nick	Researched Prisma technology for the backend. Looked into Jest and Postman for additional testing before making our prototype.	6	48
Alex	Presented "Detailed Design" lightning talk to get feedback from professors and peers. Continued work on Figma wireframe design. Created a list of features from student feedback and began organizing them into tasks/stories.	6	49
Matthew	Contacted ETG about AWS account, Presentation, Changes to infra setup, Cloud task breakdown for concurrent development	6	48
Isabelle	Presented our lightning talk in class. Looked through other surveys to get ideas for UI related improvements we can make to our design	6	48
Charlie	Added Program Feature to DB schema. Created excel file template for new survey feature. Researched Prisma technology and its integration.	6	48
Landon	Contacted ETG about the new AWS account. Got credentials for the previous team's AWS account. Started looking into the last team's workflow.	6	48
Max	Presented lightning talk in class. Worked on figma redesign. Doing research on data inputs for surveys	6	48

Plans for the Upcoming Week

- Nick Pinnello: Get old database schema and create our environment to build off of for prototype and try to get that running and displaying questions/ results.
- Alex Moeller: Investigate possible task management/backlog tools to organize team structure and create project timeline. Continue Figma design.
- Matthew Bennett: Get a new AWS account set up and start provisioning an ECS cluster and look into how we are going to move over existing data
- Isabelle Raghavan: Plan to set up time with Naifa, who is affiliated with HCI to get insight on survey design best practices. Also want to get a presentable prototype to show the University of Iowa
- Charles Moreland: Now that we have access to the old AWS I want to get their DB schema and try to recreate a local version of their backend server to build off of that. If ETG helps get a new AWS account this week, I can get a simple node.js app running.
- Landon Gulotta: Since we have now gotten access to the previous team's AWS account. I plan to do a deep dive into their old configuration and see how they set everything up. I also want to look into any salvageable code that our app could use. Additionally, hoping to see an email back from ETG to finalize the setup of the new AWS account.
- Max Strater: Finish the survey redesign on Figma with the research Isabelle and I have been doing. Get a presentable prototype to show the University of Iowa

Summary of Weekly Advisor Meeting

Received the old password for the AWS account from Dr. Rover so we can access the previous group's info. Reported flaws found in the design of the past iteration i.e database storage not working correctly, not mobile ui.