

EE/CprE/SE 4920 Status REPORT 5

Date: 3/14 - 4/3

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

This week was focused on re-establishing our priorities and defining our scope for the remaining weeks of the semester. We met as a large group to do complete walkthroughs for all user types. This includes signing up, logging in, navigation, what happens when clicking what button, etc. This meeting was very helpful for creating well-defined functions for each user type. We will use these functions to assign work, manage priorities, and share our timeline with our advisor, Dr. Rover

Past Week Accomplishments

- Alex Moeller: Met with the group and led the user flow walkthroughs. Worked with Dr. Rover to better understand and define the MVP (minimum viable product) scope for May 2025. Created a large document titled "SD User Role Definition" to store written descriptions of project-specific terms, fully define each user type, and written descriptions of the functionality each user type should have.
- Max Strater: Finished functionality for saving survey responses. You can now submit the survey, and if you want to go back to a previous question, your responses are still going to be there. and fixed many styling bugs on the survey. Also met with the team to discuss user flows and roles.
- Nick Pinnello: Finished up the endpoints for survey results that stores the results and computes the average based on the category and question type. Met with our group to create a document for user roles/flow of each user.
- Charlie Moreland: Worked in User roles/flow for each user document, planned out the rest of Backend Points needed. Started work on all needed Program Coordinator API Endpoints.
- Matthew Bennett: Attempted to fix our ECS tasks with the ALB and target , Removed old Cloud Resources from last semester, Setup basic CI/CD pipelines for deploying but not testing(still need to import vars), Updated cloud documentation, Remade docker files to better work with the 2 ECS tasks
- Landon Gulotta: Fixed the ECS tasks associated with the ALB. Got the frontend docker file to build and run as well as got it connected to the ALB and ECS service. Was able to get a public facing URL that can be accessed from the internet. Also built the backend docker file and set it up with the ECS service. Additionally, I used Route 53 to get a DNS name for the URL.
- Isabelle Raghavan: This week, I implemented logic to store the user ID in our system. This allows us to personalize the dashboard experience for each user and retrieve relevant information such as their survey results.

Individual Contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Nick	Finished up the endpoints for survey results that stores the results and computes the average based on the category and question type. Met with our group to create a document for user roles/flow of each user.	12	27
Alex	Met with the group and led the user flow walkthroughs. Worked with Dr. Rover to better understand and define the MVP (minimum viable product) scope for May 2025. Created a large document titled "SD User Role Definition" to store written descriptions of project-specific terms, fully defined user types, and written descriptions of the functionality each user type should have.	13	33
Matthew	ECS work, CI/CD, Docker files, Cloud doc updates	7	29
Isabelle	This week, I implemented logic to store the user ID in our system. This allows us to personalize the dashboard experience for each user and retrieve relevant information such as their survey results.	10	24
Charlie	Created backend userflow/roles document with team. Added links endpoints and started on Program Coordinator endpoints.	5	32

Landon	Connected ECS service to new ALB. Got the frontend and backend ECS services to run successfully. Connected ALB to Route 53 to get a DNS name.	11	32
Max	Finished functionality for saving survey responses. You can now submit the survey, and if you want to go back to a previous question, your responses are still going to be there. and fixed many styling bugs on the survey	8	28

Plans for the Upcoming Week

- Nick Pinnello: Work on the endpoint to connect what Max has been working on with survey questions saving and being sent to the backend. Create the rough draft for our final design doc to review with the TA on Monday.
- Alex Moeller: Use the newly defined roles/functionalities to create appropriate dashboards for the Program Coordinator and Admin roles. Establish correct routing for buttons/flows for each user type.
- Matthew Bennett:
Charlie Moreland: Finish all necessary Program Coordinator endpoints start work on Admin functionality.
- Landon Gulotta: For next week I will be working on finishing up the ASG and ALB configuration. Also looking to get both of these connected with the ECS tasks and running without errors.
- Max Strater: Implement api call to backend so that they can get the users' answers and do their calculations to be able to view results.
- Isabelle Raghavan: Going to verify the logic behind creating the circles on the graph as well as integrating the newly created endpoint to retrieve the user's actual average results and display them on the results page.

Summary of Weekly Advisor Meeting

We met with Dr. Rover to go over how we plan to get the project done by the end of the semester. We created a list for her to see what needs to be done and what we will be working on throughout. We also planned to have a functional demo for the project done at our next

meeting as well as demo it with the representative from the University of Iowa. Additionally, went over some housekeeping things for the project as well as some tweaks and additions she would like to see.