EE/CprE/SE 4920 Status REPORT 2

Date: 1/31 - 2/13

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

As a team we created a new Gantt chart to create a project timeline and reviewed it with our instructor. The frontend team began creating components and implementing the initial phases of the frontend design. The backend team made plans to import old data into the new database. The cloud team finished up the Cloud Infrastructure set up and implemented user privileges.

Past Week Accomplishments

- Alex Moeller: Completed a Gantt chart for the Spring 2025 semester for all 3 teams, including goals, demos, and timelines. Created the first week of stories on Gitlab. Worked with Max and Isabelle to create the initial development server.

- Max Strater: worked with the frontend team to create the initial setup for nodejs, next.js, react.js, and chakra UI. Started working on the navbar and login components

- Nick Pinnello: logged into the old MySQL database to look at the old data that we will use to help us write our new schemas.

- Charlie Moreland: Met with Nick to review the old MySQL Database and created a plan to salvage the table data that fit with our new schema.

- Matthew Bennett: Setup a new VPC separate from last years stuff. Dr. Rover mentioned wanting to still be able to use last year's version while we work it is decided we will develop separately from last year's infrastructure and tear it down when we have a working version of the app. Additionally me and Landon spun up a new RDS Mysql database. All the security groups have been setup for for ECS, ALB, and RDS. RDS security groups only allow from ECS connection and team member connections

- Landon Gulotta: Worked with Matthew to set up a new separate VPC for our app. We configured subnets, NAT Gateways, Internet Gateways, and route tables for the VPC. Also we were able to get a new RDS MySQL database working. Finally, we worked on the security groups for all of our components.

- Isabelle Raghavan: Worked with frontend team to set up next.js project and created login component.

Individual Contributions

NAME	Individual Contributions	Hours this week	HOURS cumulative
Nick	logged into the old MySQL database Talked with Charlie about setting up schemas	3	4
Alex	Completed a Gantt chart for the Spring 2025 semester for all 3 teams, including goals, demos, and timelines. Created the first week of stories on Gitlab. Worked with Max ad Isabelle to create the initial development server.	5	6
Matthew	Setup a separate VPC(new route tables), RDS my SQL database created, created ECR,ECS,RDS security groups and was able to login to DB	4.5	9
Isabelle	Worked with frontend team to set up next.js project and created login component.	5	6
Charlie		3	5
Landon	Helped set up a new VPC as well as all the networking that comes with it. Created RDS, MySQL Database and security groups.	4	9
Max	Worked with the frontend team to set up node, react, and next. Started working on navbar component.	5	6

Plans for the Upcoming Week

- Nick Pinnello: Set up a new database environment using the new cloud connection and write database schemas for users/ questions. Also, I want to look into NextAuth for the backend and see how easy it would be to implement for our project.
- Alex Moeller: Grind out initial stories and make significant progress on landing/home pages on the frontend.
- Matthew Bennett: Setup ECR and related policies, Spin up EC2 and connect to ECR and RDS, maybe starting logging if time
Charlie Moreland: Setting up the database environment on the AWS account with our Schema. Spin up a basic NodeJS server on the EC2.
- Landon Gulotta: Set up ECR and connect it to the EC2 and create any policies or groups that need to be with them.
- Max Strater: continue working on main components and start working on functionality for login page
- Isabelle Raghavan: Plan to finish creating main components and get one page completed to demo next week

Summary of Weekly Advisor Meeting

We went over our Figma wireframe designs again from last semester and made final adjustments. We also discussed timelines and goals for the first Demos and MVP showings. Discussed final decisions for AWS accounts (new vs. old).