

EE/CprE/SE 491 WEEKLY REPORT 05

10/10/2024 – 10/17/2024

Group number: 20

Project title: POSYDON

Client/Advisor: TRAJCEVSKI, GOCE

Team Members/Role:

<u>NAME</u>		<u>ROLE</u>
BYRD, JAMES	–	Database Backend, Cyber Specialist
COLLINS, EAMON	–	Client Contact, Database Backend
NORRIS, ALEK	–	Database Backend, Cyber Specialist
POLSTON, ALEXANDER	–	Database Backend, Cyber Specialist
SNYDER, ANDREW	–	Database Backend, Cyber Specialist
VARNITSKY, SVYATOSLAV	–	GUI Specialist, Database Backend

○ **Weekly Summary:**

Our main goal throughout this week was to research our user interface. In particular, we looked into tools that we could utilize to convert natural language into SQL queries. Additionally, we each began experimenting with React to gain experience with the tool we plan to use for this UI. Additionally, we gave an in-class presentation on Users and Needs during lecture this week.

○ **Past week's accomplishments:**

This week, our team focused on preparing for our in-person Lightning Talk, updating the introduction portion of our design document, and experimenting with React. Our first task was to prepare our Lightning Talk, as this week, we were responsible for presenting our users and needs to the class to receive feedback. The next task involved iterating on our existing introduction for our design document and updating our requirements and problem statement. Finally, our group is now more familiar with React as we each experimented with it.

Task Section:

- Group
 - Create Users and Needs Lightning Talk presentation
 - Present Users and Needs to class/instructor
 - Created Gantt chart and Task decomposition (see appendix)
- Individual
 - Conduct research to learn more about React for UI creation

○ Individual contributions:

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
BYRD, JAMES	Assisted in the development and presentation of Lightning Talk 3 to the class. Performed research and familiarized myself with the React Javascript library.	5	22
COLLINS, EAMON	Worked on Lightning Talk and prepared to present it in front of the class. Communicated with the client and organized meeting times and rescheduling. Did research on CSV parsing and how it will need to connect to the database. Did research on natural language processing and its involvement with SQL querying for our database.	6	23
NORRIS, ALEK	Made a simple React app that utilized images and clickable buttons in a sandbox-like environment. Assisted in the creation of the Lightning Talk presentation, as well as researching ways to use certain APIs to assist in auto-formatting queries using natural language.	5	21
POLSTON, ALEXANDER	Assisted in the creation of the Lightning Talk for the week as well as an improved introduction to our design document. Continued to read into React and its ability to assist in UI creation.	6	21
SNYDER, ANDREW	Assisted in preparing the Lightning Talk presentation we gave in class. Performed research on tools we could utilize to convert natural language into SQL queries. Refreshed my knowledge in React to help create our user interface. Updated the introduction of our design document to be ready to submit.	6	25
VARNITSKY, SVYATOSLAV	Assisted in preparing the Lightning Talk presentation. Individually experimented with React. Iterated on design document introduction to integrate new requirements.	6	21

Plans for the upcoming week

- Create an overview of the project diagram
- Review old projects to gain insight for our upcoming work

Summary of weekly advisor meeting

- Met with Dr. Trajcevski, 10/16/2024, 6:15-6:40 pm virtually
- Discussed this week's work
- Reviewed our Design Document Draft with Dr. Trajcevski and received feedback
- Showed Task Decomposition and received feedback
- Discussed upcoming work and what should be done soon
 - Create an overview of the project diagram
 - Review old projects to gain insight into our upcoming work

Task Decomposition

