EE/CprE/SE 491 WEEKLY REPORT 03
9/27/2024 – 10/03/2024
Group number: 20

Project title: POSYDON

Client/Advisor: TRAJCEVSKI, GOCE

Team Members/Role:

NAME		ROLE
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
VARNITSKYY, SVYATOSLAV	–	GUI Specialist, Database Backend

- **Weekly Summary:**

  During this week, the team was asked to spend some time thinking about the requirements and users for our project, as well as our goals for this semester. According to the client, the project is not scheduled to be integrated with a backend or live data until next semester. Therefore, our focus now is on gaining a solid understanding of who our users will be and how they will interact with the product.

- **Past week's accomplishments:**

  - Made initial decision on user interface framework
  - Looked into the potential database and backend solutions with plans to use Node.js with a PostgreSQL database

Task Section:
- Group:
  - Develop end-to-end use case scenarios
    - As a group, go over potential use case scenarios for users.
    - Identify the components to effectively allow users to easily be able to query information.
  - UI Decisions
    - While going over use cases, come up with initial drafts for the UI design, what we will need, what boxes there will be, etc.

- Individual:
  - Conduct personal research/self-teachings on how to create a basic UI using HTML.
  - Look into React and Bootstrap as tools for developing a UI

o **Pending issues:**

- Though we have plans to develop our user interface using React with the Bootstrap framework, we need to ensure all group members familiarize themselves with these tools.

o **Individual contributions:**

NAME	Individual Contributions	Hours this week	HOURS cumulative
BYRD, JAMES	Contributed to product research lightning talk presentation and researched studies suggested by Dr. Trajcevski.	3	12
COLLINS, EAMON	Assisted in lightning talk presentation and performed background research on possible UI implementations. Performed research on strategies for CSV data parsing. Engaged in communications with our client.	3	13
NORRIS, ALEK	Assisted in lightning talk presentation and research for possible front-end frameworks.	3	12
POLSTON, ALEXANDER	Contributed to lightning talk presentation, Organized and created documents and work points for the current week and the next	3	12
SNYDER, ANDREW	Assisted in the lightning talk presentation. Looked into potential options for creating our user interface. Updated documents based on Dr. Trajcevski's suggestions.	4	14
VARNITSKYY, SVYATOSLAV	Contributed to creating product research lighting talk presentation. Completed booking for a weekly meeting.	3	12

- **Plans for the upcoming week**

    - Work through an execution scenario to determine shortcomings.
    - Develop a visual representation of the execution scenario.
    - Begin working on an outline of our User Interface
    - Add applicable work to our Final Design document draft

- **Summary of weekly advisor meeting**

During our meeting with our advisor, we discussed what is expected of us over the next few weeks and into the next semester. Dr. Trajcevski recommended that we continue working toward a rough draft of our design documents. Additionally, we discussed the need for detailed use cases for the product and how these use cases should guide the design of the UI, as well as ensuring users can easily make queries to the backend, regardless of their history in working with SQL.