EE/CprE/SE 491 WEEKLY REPORT 6

02/5/24 - 03/19/24
Group number: 22
Project title: CyRide Visualization
Client: Mohammed Soliman
Advisor: Mohamed Selim

Team Members & Role:
Bradon Buckalew: Programmer
Endi Odobasic: Programmer
Evan Schlarmann: Programmer
Andrew McMahon: Programmer

Week Summary

Created the tech state on the Ubuntu virtual machine. This gives a central location for the project to be built upon where CI/CD can be used to update the codebase.

Accomplishments

The tech stack was created on the virtual machine. This required downloading MySQL database and configuring the client to allow outside connection with a new user. Django was set up using a virtual environment that contains all the dependencies for the backend. React was downloaded for the frontend and linked with Django to run on the virtual machine's IP address. This allows the application to be visited outside of the virtual machine on the ISU network.

Pending Issues

None

Individual Contributions

NAME	Individual Contributions	Description	Week Hours	Cum. Hours
Evan Schlarmann	1) Created Tech Stack on the Server	1) Downloaded all dependencies on the virtual machine that was acquired. Then pulled the branch and made changes so that it runs on Ubuntu. The project can be opened from the URL when connected to the ISU network. The MySQL database can be connected to and managed by remote connections.	7	30
Braden Buckalew	1) UI/UX Design	1) Experiment with figma, try to create every possible screen or screens that could be proposed for the project	5	20
Endi Odobasic	1) Tech Stack Research 2) Research Google Maps API 3) Mock Data	1) Did more experimentation with our tech stack and checked out some tutorials on how things might interact together. 2) Looked into the Google API and saw the different possible API calls and looked at tutorials of other people who have used it for their own personalized projects. 3) Made some more mock data so that there is more to actually work with when it comes time to use	7	27
Andrew McMahon	1) Additional tech stack research	1) Looked into requirements to ensure all members can use the stack agreed upon. Also, researched implementations of SQL-Django-React stack to have a basis of what the project will end up looking like, and any tips that come along with the development using this stack.	5	19

Plans For the Upcoming Week

- Create the CI/CD pipeline
    - This pipeline ensures the server is updated and deployed correctly so that everyone can continue developing on one codebase.
- Develop basic user interface
    - Create the basic features of the webpage including the header and footer along with the buttons on those components.
- Create the database table to store location data

- ○ The table needs fields that satisfy all the location data received from the UE in order to use in prediction algorithms.

Weekly Client/Advisor Meeting Summary

The week before break, two of our team members were not apart of the meeting, so we didn't really talk too much about nor have much to talk about during the meeting. Previously, our Advisor wasn't there, so we filled him in with our Client and showed a little bit of what we had, such as the project setup and some of the other project work tasks. Other than that, we filled them in with everything that we had been working on and what we expected to get done for next time. They suggested things such as adding the units to the cell signals for connections, using Google API with prediction, and trying to get the Google Maps layer integrated with some of our mock data to get started with visualization. These were great suggestions, and look forward to starting this moving forward towards the end of the semester.