Team 37

Project Title: AI-assisted Software Tool to Visualize Flood Forecasting with Water Routing

Date: 10/6/21

Members:

-Individual 1 – Ani Manjunath

-Individual 2 - Siyu Wang

-Individual 3 - Kylus Pettit-Ehler

-Individual 4 - Eric Korneisel

-Individual 5 - Gabriel Rau

-Individual 6 - Ryan Thompson

-Individual 7 - Quinn Conrad

What we've accomplished in the past week/what we've been researching

-Individual 1 – Try to get a student license for Delfts software. Researching Google Maps API integration and pricing.

-Individual 2 - research on developing map, look into how other software build the data model

-Individual 3 - Figure out how the Iowa Flood Forecasting app gets its data. Because the app data is specific to Iowa, we probably won't use any of the sensor data for our app.

-Individual 4 - Looked into arcgis to see the data for my example of a similar project.

-Individual 5 - Looking into QGIS Server open source software. Looked into capabilities for deploying web-app with this.

-Individual 6 - Researching different data sets to be used within our framework and the specifics of the data sets like format and variables.

-Individual 7 - Analyzed data sources. Researched standards such as GIS, https, and mercator projections.

What we're planning to do in the coming week

-Individual 1 – Communicate further with Delfts. Investigate pricing and what is required to integrate Google Maps API into our project.

-Individual 2 -try the model and data set from existing software.

-Individual 3 - Figure out the viability of using NACR data for our app. Look at open source code available on the NACR website to get an idea of what direction we want to take our app.

-Individual 4 - get an arcgis account and see what can be gotten for free

-Individual 5 - Get a working demo for QGIS Server and have sample precipitation data displayed.

-Individual 6 - Look into NOAA watershed datasets specifically.

-Individual 7 - Research camels dataset amongst other data sources

Issues we had in the previous week

-Individual 1 – No issues

-Individual 2 -No issues

-Individual 3 - No real issues yet.

-Individual 4 - No issues

-Individual 5 - No issues

-Individual 6 - No Issues.

-Individual 7 - No issues.