

Team B Project Technology

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About

This document describes the technology and programs that we used when creating our interactive analytical dashboard. In this document we describe how and why we used each tool in terms of:

1. Development
2. Design
3. Interpersonal communication
4. Shared workspaces

Development

HTML, *CSS*, and *JavaScript* were used to form the dashboard for this project. The data shown within the dashboard was created using *SQL* scripting methods. In conjunction with these tools, the data was stored using *NodeJS* as a server. The *nodeJS* server itself is being hosted on *Heroku* which connects to a *Bluehost* hosted database.

Based on time to complete the project, a contingency plan was made in the event that there were issues with data hosting or JavaScript visuals. Using *Tableau* we used the same data to create visuals that could be embedded in our page.

Design

Another part of the dashboard's creation was the design process. We had two separate design processes going. First, we had to design the dashboard. We had to know what it would do, as well as know what it would look like. For this, we used the program *Paint* to create the initial aesthetic of the dashboard. *Microsoft PowerPoint* and *CSS* were used to bring that design to life.

The other design aspect came in the form of a message database called Ludo. Using *MySQL Workbench*, we created views in the database that allowed us to make specific graphs that emphasized certain information. We also used it to create test data so that we could graph it.

Interpersonal Communications

We used GroupMe and Zoom for communication and collaborative efforts. GroupMe served the purpose of being a quick and casual message application that any group can check on at any time. Zoom allowed for virtual meetings that could be recorded and reviewed later.

Shared Workspaces

Google Drive and *GitHub* were used as shared workspaces. Google Drive was mainly used for shared documents like this technology description, spreadsheets, our final presentation, etc. GitHub was more effectively used for scripts of code and hosting our dashboard webpage.

Another way of thinking of our shared workspaces is as *working documentation* and *final documentation*. Google Drive serves as a great medium for working on the same things in real time, while GitHub can do similar things while creating an artifact in which we can contain all work intended for presentation later. GitHub also functions as a strong source of version control that can be quite useful when fixing bugs within a deliverable. In other words, what is in the

Google Drive can be viewed as in progress and what is shown in GitHub can be understood as a deliverable.