Project 3: The Calm Before the Score

Member Names

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Group Name (Group F)

Third and Long

Project Description/Outline

Traveling can be one of the most stressful experiences we can encounter. From issues with weather, airlines, the locals, we want to take some of that stress out of the equation. Our focus will be on making sure our customers don't have to worry during their stay at an NFL stadium.

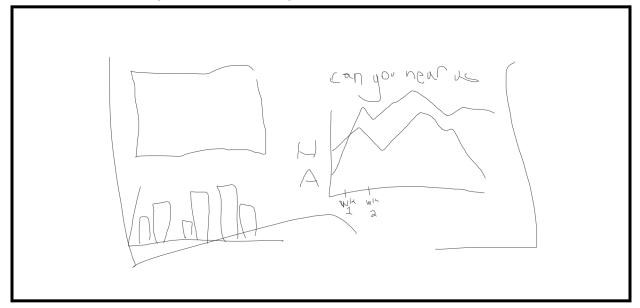
This will be accomplished through the usage of a dashboard. Customers will be able to see things like attendance, previous weather history, and how the team performs in their home stadium. Past attendance can be used to show which games pack out a stadium to aid customers in deciding which games to attend. The weather history can give our customers a better understanding of what to wear, when planning months in advance. Finally, the previous scores of the respective home teams give the ability to go to a game their team will more likely win. This dashboard will help travelers keep their focus on what is important to their trip, football!

Visualizations

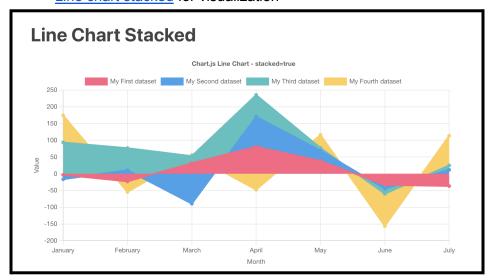
- 1. Scores across the 2021 season
 - o Dual line chart
 - o Requires dropdown being keyed
- 2. Attendance vs. Capacity cluster/bar chart
 - o ETL of stadium data to bring in capacity
- 3. Dual data point
 - o Forecasted low and forecasted high temperatures
 - Per game, per season, x = game week, y = temp

Our Visualization Inspiration

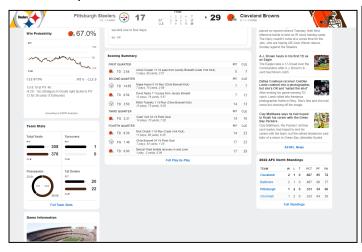
Our whiteboard drawing while brainstorming:



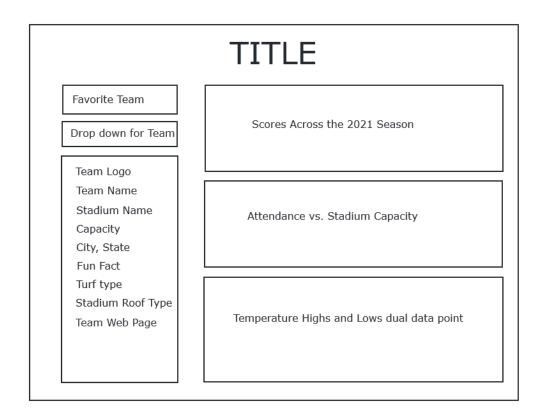
• Line chart stacked for visualization



https://www.espn.com/nfl/game/_/gameld/401437735 inspiration for the dashboard and snapshot of the stadium







Datasets to Be Used

Data sources used:

2021 game data: https://api.sportsdata.io/v3/nfl/scores/json/Scores/2021?key=

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2021 game data: <a href="https://api.sportsdata.io/v3/nfl/scores/json/Scores/2021?key="https://api.sportsdata.io/v3/nfl/scores/json/Scores/2021?key="https://api.sportsdata.io/v3/nfl/scores/json/Scores/2021?key="https://api.sportsdata.io/v3/nfl/scores/json/Scores/2021?key="https://api.sportsdata.io/v3/nfl/scores/json/Scores/2021?key="https://api.sportsdata.io/v3/nfl/scores/json/Scores/2021?key="https://api.sportsdata.io/v3/nfl/scores/json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores/2022.json/Scores
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• Stadium data: https://api.sportsdata.io/v3/nfl/scores/json/Stadiums.html

[[General Passes]], Faster Passes Pas

Link to GitHub Repository

• https://github.com/proj3-groupf/Project3-GroupF-NFL-

Rough Breakdown of Tasks

- Project Proposal Team
- Data set research Team
- Jupyter Notebook Used for ETL Daniel
 - o Call to API
 - Load to Json
 - o Created dataset
 - Cleaned
 - Joined dataset
 - Create dictionary
 - Upload to Mongo database
- Visualizations Team
 - Dual line charts
 - Cluster bar chart
 - Dual data chart
- HTML file Marj, Trell,
- CSS Marj, Ashley,
- App.py Team

- Python files Ami and Fannie
 - Flask
- JS file (logic.js) Dan and Trell
 - o Including 1 js library we have not used
- Read me Sheyla, Maheen
- Powerpoint Presentation Gautam, Elena, Austin
- Managing the Repository Maheen
- Team Logo Image collection
- Team Color collection