Release Plan

Product: Soccer Match Predictor
Team: Forecast FC
Release Name: MVP for Soccer Match Predictor
Release Date: 7/24/2024
Revision Number: 0
Revision Date: 7/1/2024
https://github.com/fivethirtyeight/data/tree/master/soccer-spi
https://github.com/oseymour/ScraperFC/

High level goals:

- The user should be able to select one of the Bundesliga teams to follow.
- The user would be able to see the planned out schedule for the entire upcoming "season".
- Be able to select a specific fixture to simulate.
- Be able to view the results for a specific simulation.

User stories defining the scope of the release:

A. Sprint 1
    - [UI] As a user I want to be able to select a team, so that I can simulate their matches and view statistics.
        - 1. Develop UI skeleton 4 pts
        - 2. Style UI and mock methods to be connected to predictor backend AI model and compiled statistics 3 pts
        - 3. Get deployment working to GitHub pages 1 pts
    - [Backend] As a user I want to be able to access statistics for previous matches dating back 3 years.
        - 1. Figure out an API solution for scraping data for past games 3 pts
        - 2. Assemble data set for training model 1 pts

B. Sprint 2
    - [UI] As a user I want to be able to use a polished, modern-looking web UI to see match predictions
        - 1. Polish UI to look on par with modern web design standards 2pts
    - [Backend] As a user I want to be able to see a computed percentage chance of my selected team winning a future match, as inferred from past statistics
        - 1. Begin training AI predictor, potentially starting out as a simple Bayes estimator 4pts
        - 2. Integrate AI model with web front-end 3pts

        - 3. Potentially make improvement to AI predictor by increasing granularity of predictions to incorporate specific players and their statistics, rather than team-wide 3pts

C. Sprint 3
    - [UI and Backend] As a user I want to be able to select any Bundesliga team and simulate their matches so that I can decide what matches and teams I want to bet on. I want a functionally complete website with no broken or placeholder features.
        - 1. Polish up front-end/back-end integration to make sure the product is robust and bug-free for the functionality so far implemented. 3pts
        - 2. Strip away unimplemented code and functionality to make sure the product looks complete. 2pts

Product backlog:

- A working interface
- Being able to select one of 18 Bundesliga teams
- Users can view the entire schedule for their selected team
- Users can select specific matches to simulate
- Users can see the game statistics of a simulated match
- Gather historical data from the past three seasons
- Clean gathered data
- Develop an initial machine learning model