

Swish Analytics FE Coding Assessment

Overview

You'll find 2 JSON files attached of mock data from an NBA game representing 2 API endpoints Swish offers:

- props.json:
 - This represents the optimal betting line being offered for each market, where a market is defined as the line for a specific stat type of a player.
 - i.e. for Russell Westbrook, his 4 unique markets and respective optimal lines are points(19.0), rebounds(9.0), assists(8.5), and steals(1.5).
- alternates.json:
 - This represents all of the lines offered at one point for a market, and their respective under, over, and push probabilities.
 - i.e. for Russell Westbrook's points market, there were 5 different lines - 18.5, 19.0, 19.5, 20, and 20.5

Goal

Build a table representation of the data provided in props.json, where each row represents a market. For each market, also include the low and high lines for that market from alternates.json.

- i.e. for Westbrook's points, there should be column's for his low (18.5) and high (20.5)

Table functionality:

- The ability to filter by position, stat type, and or market status (suspended or not)
- A search bar that filters on player name or team name
- An indication of whether a market is suspended or not (detailed below)

A market is suspended if any of these 3 cases are true

1. marketSuspended = 1 for that market in props.json
2. That market's optimal line does not exist in alternates.json. i.e. Jordan Poole points
3. That market exists in alternates.json, but none of the 3 probabilities for the optimal line are greater than 40%.
 - i.e. Steph Curry steals. His optimal line is 1, but the under, push, and over probs are each under .4

Additionally, for each market/row, add the ability to manually suspend or release. If a manual lock is set, this value will override the value calculated above for that market/row.

- Steph Curry's assists market, which would initially be suspended due to sub-40% probabilities, could be manually set to unsuspended
- Russell Westbrook's assists market, initially unsuspended, could manually be suspended

Note: Data management should be done in state - the JSON files do not need to be updated.