Runshop Tech Test: Bet Resolution

Runshop has a number of models which produce model selections for different sports events. These model selections consist of a fixture, a market, a market selection, a value and a bottom price. All the bets placed within runshop belong to a selection; there may be many bets made against any selection.

Fixtures are broken down into two categories, individual and participant. Individual fixtures are sporting events where there are many "runners" in a single event (e.g. golf or horse racing), participant fixtures are events where there are two participants competing against each other (e.g. cricket or football).

Your task is to develop a user interface to support our operational team to resolve the bets in the bets_placed.csv file. To resolve any bet the user would be expected to input some information that would allow your system to determine if a bet has won or a bet has lost. You can use any information in other files that may help you to complete this task.

You can assume any outcome for the events you wish.

Requirement:

- Develop an intuitive user interface that our operational team can use to efficiently resolve bets in the bets_placed.csv.
- You will be marked based on your code structure and design.
- We will give extra credit to innovative approaches to resolving bets that would make our operators more efficient.

Extra Credit: (if you have time)

- 1) Write tests for the UI and any backend components. Explain your reasoning for the tests and provide instructions to run them.
- 2) Extend the UI to view cumulative Profit and Loss of bets executed by each trader.

Attached (6 files):

- markets_table.csv: Contains information about the different markets available for betting.
- 2. individual_fixtures.csv: Lists individual fixtures such as horse racing events.
- 3. participant_fixtures.csv: Lists participant fixtures such as cricket or football matches.
- 4. model selections.csv: Details the selections made by the models for each fixture.
- 5. bets placed.csv: Contains records of all bets placed.
- 6. traders.csv: Information about the traders who executed the bets.

Technology Recommendations:

- Frontend: JavaScript/TypeScript and React (Material-UI is preferred).
- Backend: Any language of your choice.
- Provide clear instructions for running your application.

Submission:

• Submit your code with a README in a git bundle.

https://stackoverflow.com/questions/11792671/how-to-git-bundle-a-complete-repo/11795549#11795549

Definitions:

Bet Resolution

A bet resolution is a binary outcome. Won or Lost.

Match Odds

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A market for the game outcome of a participant fixture. Examples include:
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Football - { market: "Match Odds", selection: "Draw" }
Cricket - { market: "Match Odds", selection: "Home" }
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Line market

A market where we select over or under a certain value. Examples include:

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Football - { market: "Total goals", selection: "Over", value: "3" }
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Cricket - { market: "Total runs 20th over first innings", selection "Under", value: "150"}.

There are no line markets for individual fixtures in the dataset.