

# Fullstack Engineer - Pluto Data

## Technical Task

You'll find in the zip file three csv files of mock data.

- venues.csv - IDs and names of a few local cricket grounds
- simulations.csv - Mock simulated runs for the different teams
- games.csv - matchup information between different local teams

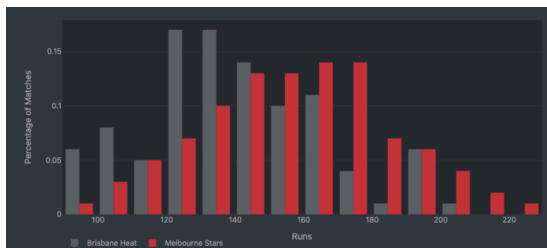
We are looking for a minimal application that consists of

- A backend (if possible please use FastAPI, else Flask and Django are acceptable as well):

- Should contain a relational database that on startup loads the csv files
- Exposes one or more endpoints, as you see fit
- Is containerised

- A frontend (this must be written in React):- Allows the user to choose any game and displays relevant information

- Shows the simulation results as side-by-side histogram, looking something like this



- Displays the win percentage of the home team. The win percentage is the percentage of simulation runs in which this team beats the other selected team.
- Is containerised

The final outcome should be a project folder with code where running ``docker compose up`` exposes the application on port 3000 of the localhost.

We are looking for clean solutions that can be extended in a straightforward way. Feel free to leave code comments where you see fit.

Please feel free to send questions to [samscott@plutodata.co.uk](mailto:samscott@plutodata.co.uk) if something is unclear

Good luck!