Cricketer Performance statistic visualizer web application

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Objective

To create a web application that provides some key performance statistics of cricketers.The app will allow users to search for players and compare cricketers' performance metrics. The players dataset will be acquired from kaggle.

Tools used

- Bash
- Java - Spring Boot
- Postgres DB
- HTML, CSS, js
- D3: data visualisation tool
- Git

Features

1. Data Import:

Any data dump as csv file can be loaded into the Postgres DB through bash script.

2. Search & filter:

Provides an interface that would let users to search and filter cricketers based on name or team attribute.

3. Player profiles:

Create individual player profiles with illustrating their key performance metrics

4. Comparison tool:

Users will be able to compare performance of cricketers side by side.

5. Generate pdf report

Users will be able to export player statistic data shown on the web app as pdf file.

High level architecture

1. Raw data will be imported from csv file into postgres DB through bash scripts
2. Java spring boot framework will be used at backend to perform CRUD operation & to expose REST APIs to the frontend
3. React.js framework will be used at frontend with HTML & CSS.
4. D3.js framework will be used to generate and show different plots.
5. Git for version control.
6. IDE: Eclipse, VSCode