Project Title: YourFavNBAPlayers

Project Summary:
Our project is a search engine for NBA players. Our goal is to search for data and record of NBA players that users are interested in. After typing in the name of players, the website can return data feedback which include game records such as score, block, assist, also data such as age, height, weight, and nationality of each player.
We also include extra info such as the videos of players highlights throughout their whole career.

Description of an application of your choice. State as clearly as possible what you want to do. What problem do you want to solve, etc.?
What we are aiming for is to design a search engine that could return useful information and highlights about NBA players after the user types in the name they want to search for. We also want to add some comparison features so that when users want to compare the record of two players, they just need to type in the name and the website will return who performed better in which area.

Usefulness: This web application provides a platform for basketball fans to search for some useful information about players they are interested in. Users could learn more about players via this web application, since we will not only provide detailed information about these players but also provide video to let their fans have a comprehensive understanding of one specific player.

Realness. Describe what your data is and where you will get it. The dataset is provided by kaggle.com. The dataset contains players' full name, corresponding height, weight, college they attended, birthdate, city where the player was born, state where the player was born, and their highlights reels.

Description of the functionality that your website offers. This is where you talk about what the website delivers. Talk about how a user would interact with the application (i.e. things that one could create, delete, update, or search for). Read the requirements for stages 4 and 5 to see what other functionalities you want to provide to the users. You should include:
     (1). _Describe what data is stored in the database. (Where is the data from, what attributes and information would be stored?)_
     Data of NBA players are stored in the database. We get the data of each player's personal information (age, height, weight, nationality, etc.), and game data (play time, score, block, assist, etc.). We retrieved the data from NBAstuffer and kaggle.
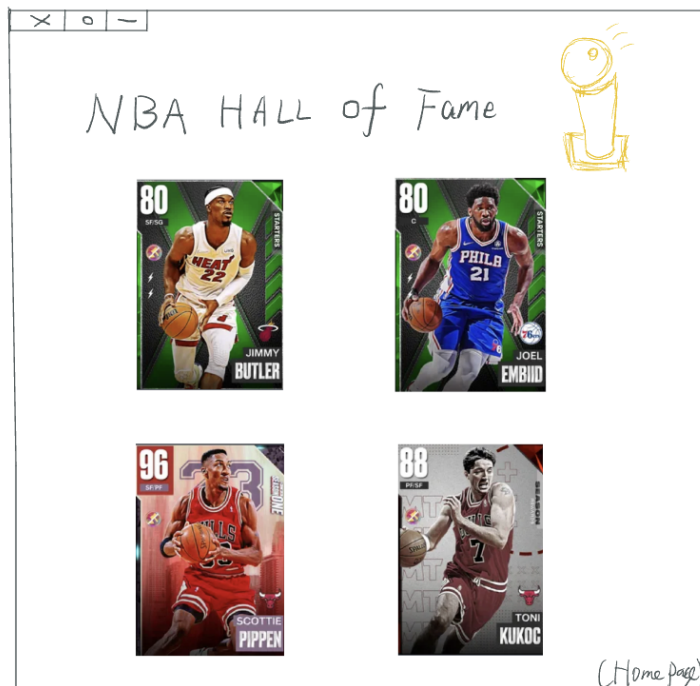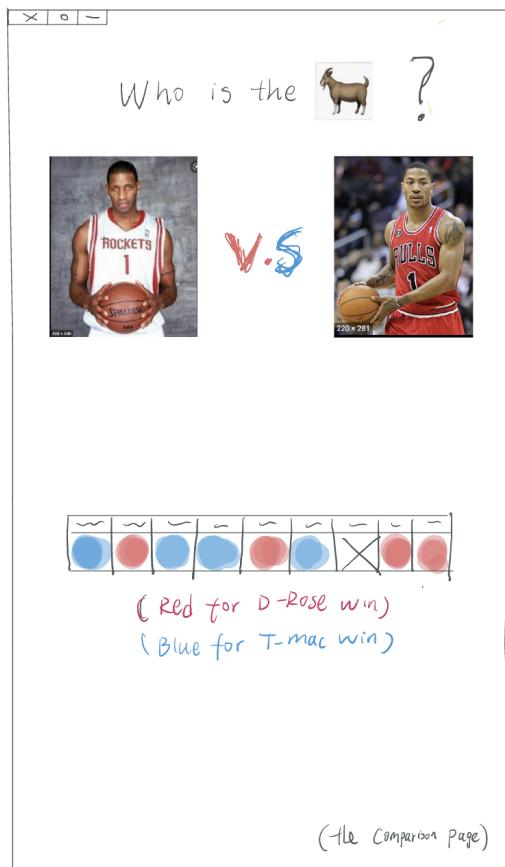   (2)_What are the basic functions of your web application? (What can users of this website do? Which simple and complex features are there?)_
     The users can search for basic data of each NBA player. They are able to use the compare function to compare the data of the players they choose. The compare function will highlight the one with the higher value.

(3). *What would be a good creative component (function) that can improve the functionality of your application? (What is something cool that you want to include? How are you planning to achieve it?)*

We are going to include a link within each player's page. After the user clicks on the link, it will lead to a video of the player's five best balls throughout his career.

A low fidelity UI mockup:

Who is the 🐐 ?

V.S

(Red for D-Rose win)
(Blue for T-mac win)

(the Comparison Page)

Compare with? ∨

T-Mac

Position: ～
Weight: ～
Game stats: ～
Game stats: ～

Top 5 plays

(the player's page)

NBA HALL of Fame

(Home Page)

Project work distribution: Who would be responsible for each of the tasks or subtasks? List of the person responsible for which exact functionalities in section 6. Explain how backend systems will be distributed across members. Be as specific as possible as this could be part of the final peer evaluation metrics.

Clean Data: Yunxuan Yanng

Frontend: Jintian Song

UI: Ziyu Wang

Database: Yuqi Wen