MLB Player Search Web Interface

http://colinfrick.s3-website-us-east-1.amazonaws.com/

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- Objective
    - The MLB Player Search is intended to provide users with a simple and easy way to search for current MLB (Major League Baseball) players and be able to find some quick facts about them. The website contains 3182 player (all players that played in 2018). This website can be easily scaled to contain more information about each player and more players if that was requested.
- Features
    - The MLB Player Search has several useful features. It implements pagination. This allows users to view twelve players on each page. This way it loads quicker than loading all 3182 on one page but the user still has the option to view as littler or as much as they wish. The "next" and "previous" buttons are located at the bottom left of the webpage
    - There is a search bar located at the top of the webpage. This search bar allows users to search for players by name. The searching is implemented by adding the search as an argument to an API request.
- API
    - The information about the players was collected through an API. The webpage accessed this API with two different API calls. The first is called in the Home.js file and returns all of the player ids for every player that played in the 2018 season. These ids were used to find each player individually in the PlayerCard.js file. Searching was implanted in the first API call through the "name_part" argument.
- React.js
    - I used React.js to implement the web interface. There are two main components in this project (Home.js, PlayerCard.js). The Home component is the main page that you see at the webpage. The PlayerCard Component is a component that displays the information about each individual player. The formatting was mostly implemented in styles.css. The react project could be run on a local machine by running "npm install" and "npm start" within the project.
- AWS
    - In order to host the website, I used AWS S3. The code that was uploaded was the build directory created by running "npm run build" command. The website is hosted at the following url: http://colinfrick.s3-website-us-east-1.amazonaws.com/
- GitHub
    - The code for this project is located on GitHub at the following: https://github.com/cfrick16/Mlb-Players
- Issues

- o The code for this project was developed over a short period of time and contains bugs and issues. One that I would hope to fix given more time is an issue with switching pages and searching. It generally delays changes to the page caused by the "next" and "previous" buttons.
- Further Development possibilities
  - o As stated earlier, this project was completed during a limited time frame and has ample room for growth and development through new features and improvements.
  - o Moving the S3 instance to an ec2 would allow for the webpage to route to other webpages within the project. This would allow developers to create player instance pages. This would help the user gain more information about the players by viewing a webpage dedicated to one player.
  - o Sorting, filtering, and searching by values other than names could be implanted to help users research and find the information as quickly and easily as possible.
  - o A third API call could be implemented to add additional information like batting average, homeruns, and other statistics.
  - o More players from past seasons could be added in order to add to the domain of players listed on the website.
  - o Photographs from the players could be added to make the website more visually appealing. Currently a placeholder is in the spot of every PlayerCard.