

1.

Request Path: /player

Method: GET

Description: Find basic stats for a specific player across a specific season

Request Parameter(s):

- Name: player_name
 - Param type: query
 - Data type: string
 - Required/optional: required
 - Description: player name
- Name: season
 - Param type: query
 - Data type: integer
 - Required/optional: required
 - Description: season searching for
- Name: ptsLow:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Lower bound of average points a player has
- Name: ptsHigh:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Upper bound of average points a player has
- Name: astLow:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Lower bound of average assists a player has
- Name: astHigh:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Upper bound of average assists a player has
- Name: rebLow:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Lower bound of average rebounds a player has
- Name: rebHigh:
 - Param type: query
 - Data type: float
 - Required/optional: required

- Description: Upper bound of average rebounds a player has
- Name: threepctLow:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Lower bound of a player's average three point percentage
- Name: threepctHigh:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Upper bound of a player's average three point percentage

Response:

- Data type: JSON
- Description: summary statistics for a player in the given season

1a.

Request Path: /player_all

Method: GET

Description: Find basic stats for a specific player across all seasons

Request Parameter(s):

- Name: player_name
 - Param type: query
 - Data type: string
 - Required/optional: required
 - Description: player name
- Name: ptsLow:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Lower bound of average points a player has
- Name: ptsHigh:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Upper bound of average points a player has
- Name: astLow:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Lower bound of average assists a player has
- Name: astHigh:
 - Param type: query
 - Data type: float
 - Required/optional: required

- Description: Upper bound of average assists a player has
- Name: rebLow:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Lower bound of average rebounds a player has
- Name: rebHigh:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Upper bound of average rebounds a player has
- Name: threepctLow:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Lower bound of a player's average three point percentage
- Name: threepctHigh:
 - Param type: query
 - Data type: float
 - Required/optional: required
 - Description: Upper bound of a player's average three point percentage

Response:

- Data type: JSON
- Description: summary statistics for a player over all seasons

2.

Request Path: /team

Method: GET

Description: Find basic stats for a specific team

Request Parameter(s):

- Name: team_name
 - Param type: query
 - Data type: string
 - Required/optional: required
 - Description: team name
- Name: seasons
 - Param type: query
 - Data type: array of integers
 - Required/optional: required
 - Description: all the seasons that the user wants team information from

Response:

- Data type: JSON
- Description: summary statistics for a team in the given seasons

3.

Request Path: /team_ranking_pts

Method: GET

Description: Rank teams based on avg points/game

Request Parameter(s):

- Name: seasons
 - Param type: query
 - Data type: array of integers
 - Required/optional: required
 - Description: all the seasons that the user wants to rank teams

Response:

- Data type: JSON
- Description: summary statistics for all teams in the given seasons ordered by avg points/game descending

4.

Request Path: /team_ranking_ast

Method: GET

Description: Rank teams based on avg assists/game

Request Parameter(s):

- Name: seasons
 - Param type: query
 - Data type: array of integers
 - Required/optional: required
 - Description: all the seasons that the user wants to rank teams

Response:

- Data type: JSON
- Description: summary statistics for all teams in the given seasons ordered by avg assists/game descending

5.

Request Path: /team_ranking_reb

Method: GET

Description: Rank teams based on avg rebounds/game

Request Parameter(s):

- Name: seasons
 - Param type: query
 - Data type: array of integers
 - Required/optional: required
 - Description: all the seasons that the user wants to rank teams

Response:

- Data type: JSON

- Description: summary statistics for all teams in the given seasons ordered by avg rebounds/game descending

6.

Request Path: /team_ranking_fc3_pct

Method: GET

Description: Rank teams based on avg free throw percentage/game

Request Parameter(s):

- Name: seasons
 - Param type: query
 - Data type: array of integers
 - Required/optional: required
 - Description: all the seasons that the user wants to rank teams

Response:

- Data type: JSON
- Description: summary statistics for all teams in the given seasons ordered by avg free throw percentage/game descending

7.

Request Path: /player_ranking_pts

Method: GET

Description: Rank players based on avg points/game

Request Parameter(s):

- Name: seasons
 - Param type: query
 - Data type: array of integers
 - Required/optional: required
 - Description: all the seasons that the user wants to rank players

Response:

- Data type: JSON
- Description: summary statistics for all players in the given seasons ordered by avg points/game descending

8.

Request Path: /player_ranking_ast

Method: GET

Description: Rank players based on avg assists/game

Request Parameter(s):

- Name: seasons
 - Param type: query
 - Data type: array of integers
 - Required/optional: required
 - Description: all the seasons that the user wants to rank players

Response:

- Data type: JSON

- Description: summary statistics for all players in the given seasons ordered by avg assists/game descending

9.

Request Path: /player_ranking_reb

Method: GET

Description: Rank players based on avg rebounds/game

Request Parameter(s):

- Name: seasons
 - Param type: query
 - Data type: array of integers
 - Required/optional: required
 - Description: all the seasons that the user wants to rank players

Response:

- Data type: JSON
- Description: summary statistics for all players in the given seasons ordered by avg rebounds/game descending

10.

Request Path: /player_ranking_fc3_pct

Method: GET

Description: Rank players based on avg free throw percentage/game

Request Parameter(s):

- Name: seasons
 - Param type: query
 - Data type: array of integers
 - Required/optional: required
 - Description: all the seasons that the user wants to rank players

Response:

- Data type: JSON
- Description: summary statistics for all players in the given seasons ordered by avg free throw percentage/game descending

11.

Request Path: /compare_players

Method: GET

Description: Compare the statistics of two players in a given year

Request Parameter(s):

- Name: player_one
 - Param type: query
 - Data type: string
 - Required/optional: required
 - Description: the first player that we are looking to compare
- Name: player_two

- Param type: query
- Data type: string
- Required/optional: required
- Description: the second player that we are looking to compare
- Name: year
 - Param type: query
 - Data type: integer
 - Required/optional: optional
 - Description: the year in which we are getting statistics for to compare the players

Response:

- Data type: JSON
- Description: Summary statistics of the performance of both players in a given year

12.

Request Path: /comp_team_statistics

Method: GET

Description: Compare the statistics of two teams in a given year

Request Parameter(s):

- Name: team_one
 - Param type: query
 - Data type: string
 - Required/optional: required
 - Description: the first team that we are looking to compare
- Name: team_two
 - Param type: query
 - Data type: string
 - Required/optional: required
 - Description: the second team that we are looking to compare
- Name: year
 - Param type: query
 - Data type: integer
 - Required/optional: optional
 - Description: the year in which we are getting statistics for to compare the players

Response:

- Data type: JSON
- Description: Summary statistics of the performance of both teams in a given year

13.

Request Path: /singleSeasonScorer

Method: GET

Description: Get the player that scored the most points in a single season over all seasons

Request Parameter(s):

Response:

- Data type: JSON object

- Example return object


```
{
  "PLAYER_NAME": "Kevin Durant",
  "MAX(tot_PTS)": 3265,
  "SEASON": 2013
}
```
- Description: JSON object with information about the player with the most points in a season

14.

Request Path: /tripleDouble

Method: GET

Description: Get the win percentage of a player when they get a triple double

Request Parameter(s):

- Name: playerName
 - Param type: query
 - Data type: string
 - Required/optional: required
 - Description: the name of the player we are looking for

Response:

- Data type: JSON array
- Example return object


```
[
  {
    "PLAYER_NAME": "Russell Westbrook",
    "SEASON": 2009,
    "WINS": 1,
    "GAMES": 1,
    "WIN_PCT": 100
  },
  {
    "PLAYER_NAME": "Russell Westbrook",
    "SEASON": 2010,
    "WINS": 4,
    "GAMES": 4,
    "WIN_PCT": 100
  },
]
```
- Description: Win percentage for all seasons for the player

15.

Request Path: /random

Method: GET

Description: Returns a random player's information from the Players table

Request Parameter(s): None

Response:

- Data type: JSON object
- Description: Information about a random player

16.

Request Path: /allteams

Method: GET

Description: Returns all information about all teams

Request Parameter(s): None

Response:

- Data type: JSON array
- Description: Array of objects, each object contains information about a team