Package ‘sleeperapi’

October 14, 2022

Type    Package
Title   Wrapper Functions Around 'Sleeper' (Fantasy Sports) API
Version 1.0.4
Description
For those wishing to interact with the 'Sleeper' (Fantasy Sports) API (<https://api.sleeper.app/>) without looking too much into its documentation (found at <https://docs.sleeper.app/>), this package offers wrapper functions around the available API calls to make it easier.

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get_all_nfl_players

Gather NFL Player Data

Description

Gather all information concerning NFL players in list or data frame. Per Sleeper, this should be called once per day at most given the amount of data that it returns. By modifying the 'clean' parameter, either a data frame will be returned or a list. When 'clean' is TRUE, a data frame will be returned. Note that while most data is returned for the data frame, metadata will not be due to its dynamic nature. For example, metadata can be data frames on their own, so attempting to put them in a single data frame is not feasible. Moreover, some data in an observation is concatenated together to ensure each piece of an observation fits into its appropriate column within the observation of the data frame. For example, a player can have multiple positions listed, so these would be concatenated together in a single column for that observation. If either of these pieces will be problematic for you, it is recommended to keep 'clean' set to FALSE and parse the default list as you see fit. Lastly, note that when 'clean' is TRUE, the transformation process to go from a list to a data frame does take some time, so do not worry if the function is taking a while to run.

Usage

get_all_nfl_players(clean = FALSE)

Arguments

clean Specifies whether a data frame or the default list will be returned (logical)

Value

Returns a list or data frame containing information about the NFL players.

Author(s)

Nick Bultman, <njbultman74@gmail.com>, December 2021

Examples

## Not run: get_all_nfl_players(clean = FALSE)
## Not run: get_all_nfl_players(clean = TRUE)
### get_avatar_picture

Display Avatar

**Description**

Given an avatar ID, grab the picture (full or thumbnail) concerning that particular avatar. Note that this function downloads the image into your temporary directory to display it. Then, the function deletes the file before completing.

**Usage**

```r
get_avatar_picture(avatar_id, type = "full")
```

**Arguments**

- `avatar_id`:
  - Avatar ID generated by Sleeper (character)
- `type`:
  - String that is either "full" or "thumbnail"

**Value**

Returns a picture displaying the avatar picture

**Author(s)**

Nick Bultman, <njbultman74@gmail.com>, October 2021

**Examples**

```r
## Not run: get_avatar_picture("c751b27d9158c1dd41bd33dc7e4bcddde", type = "full")
```

### get_draft

Gather Draft Information

**Description**

Given a draft ID, gather draft information for selection.

**Usage**

```r
get_draft(draft_id)
```

**Arguments**

- `draft_id`:
  - Draft ID generated by Sleeper (integer)
**get_draft_picks**

<table>
<thead>
<tr>
<th>get_draft_picks</th>
<th>Gather Draft Picks</th>
</tr>
</thead>
</table>

**Description**

Given a draft ID, gather draft picks (along with other metadata concerning the picks).

**Usage**

```r
get_draft_picks(draft_id)
```

**Arguments**

- `draft_id` Draft ID generated by Sleeper (numeric or character)

**Value**

Returns a data frame containing information about the draft picks.

**Author(s)**

Nick Bultman, `<njbultman74@gmail.com>`, December 2021

**Examples**

```r
## Not run: get_draft_picks(688281872463106048)
```
**get_draft_pick_trades**

**Gather Draft Pick Trades**

**Description**

Given a draft ID, gather draft pick trades for that draft.

**Usage**

```r
get_draft_pick_trades(draft_id)
```

**Arguments**

- `draft_id`: Draft ID generated by Sleeper (numeric or character)

**Value**

Returns a data frame containing information about the draft pick trade(s).

**Author(s)**

Nick Bultman, <njbultman74@gmail.com>, December 2021

**Examples**

```r
## Not run: get_draft_pick_trades(688281872463106048)
```

---

**get_league**

**Gather League Data**

**Description**

Given a league ID, grab the data for that league. Includes roster positions, season type, if it is in season, and more.

**Usage**

```r
get_league(league_id)
```

**Arguments**

- `league_id`: League ID generated by Sleeper (numeric or character)

**Value**

Returns a list containing information about the league.
get_league_drafts

Author(s)

Nick Bultman, <njbultman74@gmail.com>, September 2021

Examples

```r
## Not run: get_league(688281863499907072)
```

---

get_league_drafts  
*Gather League Draft Information*

Description

Given a league ID, gather draft information for that league.

Usage

```r
get_league_drafts(league_id)
```

Arguments

- `league_id`  
  League ID generated by Sleeper (numeric or character)

Value

Returns a data frame containing draft information for that league.

Author(s)

Nick Bultman, <njbultman74@gmail.com>, December 2021

Examples

```r
## Not run: get_league_drafts(688281863499907072)
```
**get_league_users**  
*Gather User Data for League*

**Description**
Given a league ID, grab the data concerning each user. This includes information about the users’ mascot, display name, avatar, if they are an owner, if they are a bot, and more.

**Usage**

```
get_league_users(league_id)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>league_id</td>
<td>League ID generated by Sleeper (numeric or character)</td>
</tr>
</tbody>
</table>

**Value**
Returns a data frame containing information about the users in the league.

**Author(s)**
Nick Bultman, <njbultman74@gmail.com>, September 2021

**Examples**

```r
## Not run: get_league_users(688281863499907072)
```

---

**get_loser_playoff_bracket**  
*Gather Loser Playoff Bracket*

**Description**
Given a league ID, get the loser playoff bracket for the league.

**Usage**

```
get_loser_playoff_bracket(league_id)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>league_id</td>
<td>League ID generated by Sleeper (numeric or character)</td>
</tr>
</tbody>
</table>
get_matchups

Value

Returns a data frame containing playoff information for the loser bracket.

Author(s)

Nick Bultman, <njbultman74@gmail.com>, December 2021

Examples

## Not run: get_loser_playoff_bracket(688281863499907072)

---

### get_matchups

**Gather Matchup Data in a League for a Week**

Description

Given a league ID and week number, grab the matchup data, including player points, total points, starting rosters, and more.

Usage

get_matchups(league_id, week)

Arguments

- `league_id` League ID generated by Sleeper (numeric or character)
- `week` Matchup week (numeric)

Value

Returns a data frame containing information about the matchups.

Author(s)

Nick Bultman, <njbultman74@gmail.com>, September 2021

Examples

## Not run: get_matchups(688281863499907072, 2)
## Not run: get_matchups("688281863499907072", 1)
**get_rosters**

*Gather Roster Data for League*

**Description**
Given a league ID, grab the data concerning each roster in that league. This includes information with the roster wins, losses, ties, fantasy points, and more.

**Usage**

```r
get_rosters(league_id)
```

**Arguments**

- **league_id**: League ID generated by Sleeper (numeric or character)

**Value**
Returns a data frame containing information about the rosters in the league.

**Author(s)**
Nick Bultman, <njbultman74@gmail.com>, September 2021

**Examples**

```r
## Not run: get_rosters(688281863499907072)
```

---

**get_sport_state**

*Gather Sport State*

**Description**
Given a sport abbreviation (NFL, NBA, etc.), return information about the current sport state.

**Usage**

```r
get_sport_state(sport)
```

**Arguments**

- **sport**: Sport that you would like to query (nfl, nba, lcs, etc.) (character)

**Value**
Returns a list containing information about the sport state.
get_traded_picks

Author(s)
Nick Bultman, <njbultman74@gmail.com>, December 2021

Examples
```r
## Not run: get_sport_state("nfl")
```

---

get_traded_picks  

**Gather League Trades**

---

Description
Given a league ID, grab the trades that have occurred.

Usage
```
get_traded_picks(league_id)
```

Arguments
```
league_id    League ID generated by Sleeper (numeric or character)
```

Value
Returns a list containing trades.

Author(s)
Nick Bultman, <njbultman74@gmail.com>, September 2021

Examples
```r
## Not run: get_traded_picks(688281863499907072)
```
get_transactions

Gather League Transactions for Specific Round

Description
Given a league ID and round, grab the transaction data concerning that particular league. This includes adds or drops, whether it was a free agent or a waiver, notes, and more.

Usage
get_transactions(league_id, round)

Arguments
league_id League ID generated by Sleeper (numeric or character)
round round of transactions to gather (can also be thought of as week depending on when your league processes transactions) (numeric)

Value
Returns a data frame containing information about the round of transactions for that league.

Author(s)
Nick Bultman, <njbultman74@gmail.com>, September 2021

Examples
## Not run: get_transactions(688281863499907072, 2)

get_trending_players

Gather Trending Player Information

Description
Given a sport and type (add or drop), return the top trending players for that selection. More specifically, the player ID and count are returned in a data frame, allowing one to see which players have been added/dropped the most given the particular lookback period (default lookback period of one day).

Usage
get_trending_players(sport, type, lookback_hours = 24, limit = 25)
Arguments

- **sport**
  - Sport that you would like to query (nfl, nba, etc.) (character)
- **type**
  - Either "add" or "drop" (character)
- **lookback_hours**
  - Number of hours to look back (numeric). Default is 24
- **limit**
  - Number of results you would like (numeric). Default is 25

Value

Returns a data frame containing information (player ID and count) about the trending players.

Author(s)

Nick Bultman, <njbultman74@gmail.com>, December 2021

Examples

```r
## Not run: get_trending_players("nfl", "add", 24, 25)
```

---

get_user

**Gather User Data**

Description

Given a user ID, grab the data concerning that particular user. This includes username, user ID, display name, and more.

Usage

```r
get_user(user_id)
```

Arguments

- **user_id**
  - User ID generated by Sleeper (numeric or character)

Value

Returns a list containing information about the user.

Author(s)

Nick Bultman, <njbultman74@gmail.com>, September 2021

Examples

```r
## Not run: get_user(688556535013502976)
```
**get_user_drafts**  
*Gather User Draft Information*

**Description**

Given a user ID, sport abbreviation, and season number, gather draft information for that selection.

**Usage**

```r
get_user_drafts(user_id, sport, season)
```

**Arguments**

- **user_id**  
  User ID generated by Sleeper (numeric)

- **sport**  
  Sport that you would like to query ("nfl" only supported currently) (character)

- **season**  
  Season that you would like to select (numeric)

**Value**

Returns a data frame containing information about the draft(s).

**Author(s)**

Nick Bultman, <njbultman74@gmail.com>, December 2021

**Examples**

```r
## Not run: get_user_drafts(68856535013502976, "nfl", 2021)
```

---

**get_user_leagues**  
*Gather Leagues for User*

**Description**

Given a user ID and optional sport and season, grab the league data concerning that particular user. This includes total rosters, scoring settings, roster positions, and more.

**Usage**

```r
generate_leagues(
    user_id, 
    sport = "nfl", 
    season = substr(Sys.Date(), start = 1, stop = 4)
)
```
get_winner_playoff_bracket

Gather Winner Playoff Bracket

Description
Given a league ID, get the winner playoff bracket for the league.

Usage
get_winner_playoff_bracket(league_id)

Arguments
league_id League ID generated by Sleeper (numeric or character)

Value
Returns a data frame containing playoff information for the winner bracket.

Author(s)
Nick Bultman, <njbultman74@gmail.com>, December 2021

Examples
## Not run: get_winner_playoff_bracket(688281863499907072)
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