

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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Encoding UTF-8

RoxygenNote 7.1.1

Imports httr, jsonlite, plyr

Suggests testthat (>= 2.0.0)

NeedsCompilation no

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Repository CRAN

Date/Publication 2022-09-14 06:50:02 UTC

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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

```
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

```
## Not run: get_avatar_picture("c751b27d9158c1dd41bd33dc7e4bcdde", type = "full")
```

get_draft *Gather Draft Information*

Description

Given a draft ID, gather draft information for selection.

Usage

```
get_draft(draft_id)
```

Arguments

draft_id	Draft ID generated by Sleeper (integer)
----------	---

Value

Returns a list containing information about the draft.

Author(s)

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

Examples

```
## Not run: get_draft(688281872463106048)
```

`get_draft_picks`

Gather Draft Picks

Description

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

Usage

```
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

```
## 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

```
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

```
## 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

```
get_league(league_id)
```

Arguments

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

Value

Returns a list containing information about the league.

Author(s)

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

Examples

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

get_league_drafts	<i>Gather League Draft Information</i>
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Description

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

Usage

```
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

```
## Not run: get_league_drafts(688281863499907072)
```

get_league_users	<i>Gather User Data for League</i>
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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

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

Value

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

Author(s)

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

Examples

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

get_loser_playoff_bracket	<i>Gather Loser Playoff Bracket</i>
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Description

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

Usage

```
get_loser_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 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	<i>Gather Roster Data for League</i>
-------------	--------------------------------------

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

```
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

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

get_sport_state	<i>Gather Sport State</i>
-----------------	---------------------------

Description

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

Usage

```
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.

Author(s)

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

Examples

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

get_traded_picks	<i>Gather League Trades</i>
------------------	-----------------------------

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

```
## 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

```
## 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

```
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

```
## 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

```
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

```
## Not run: get_user_drafts(688556535013502976, "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

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

Arguments

user_id	User ID generated by Sleeper (numeric or character)
sport	Sport for league information (character)
season	Season for league information (numeric or character)

Value

Returns a data frame containing information about the user.

Author(s)

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

Examples

```
## Not run: get_user_leagues(688556535013502976)
## Not run: get_user_leagues("688556535013502976", sport = "nfl", season = "2021")
```

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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