

Package ‘walmartAPI’

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Type Package

Title Walmart Open API Wrapper

Version 0.1.5

Description

Provides API access to the Walmart Open API <<https://developer.walmartlabs.com/>>, that contains data about stores, Value of the day and products which includes names, sale prices, shipping rates and taxonomies.

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Imports glue, purrr, httr, tibble, magrittr, stringr, dplyr

URL <https://github.com/EmilHvitfeldt/walmartAPI>

NeedsCompilation no

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ifelse_null	Returns NA if input is null, else returns input
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Description

Returns NA if input is null, else returns input

Usage

```
ifelse_null(x)
```

Arguments

x A number.

Value

A number or NA.

Examples

```
ifelse_null(NA)
ifelse_null(1)
```

item_base_response	Returns tibble of items in base response format
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Description

response formats are described at the url https://developer.walmartlabs.com/docs/read/Item_Field_Description.

Usage

```
item_base_response(x)
```

Arguments

x A List.

Value

A tibble with 15 columns in base response format.

lookup	<i>Looks up product information</i>
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Description

`lookup` gives access to item price and availability in real-time.

Usage

```
lookup(key = auth_cache$KEY, lsPublisherId = NULL, id = NULL,
       upc = NULL, list_output = FALSE)
```

Arguments

key	Your API access key.
lsPublisherId	Your LinkShare Publisher Id.
id	vector of item ids.
upc	upc of the item.
list_output	Indicator for list output.

Details

An API key will be required to run this function and can be acquired by creating an account on the following website <https://developer.walmartlabs.com/member>.

For more information refer to the original documentation <https://developer.walmartlabs.com/docs/read/Home>.

Response formats are described at the url https://developer.walmartlabs.com/docs/read/Item_Field_Description.

Value

A tibble with 15 columns in base response format.

Examples

```
## Not run:
key <- "*****"

## Up to 20 ids can be called at once.
lookup(id = c(12417882:12417937), key = key)

lookup(id = 12417832, key = key)

lookup(upc = 10001137891, key = key)

## First argument will be used with conflicting arguments.
lookup(id = 12417837, upc = 10001137891, key = key)
```

```
lookup(id = 12417832, key = key, list_output = TRUE)

## End(Not run)
```

paginted	<i>Looks up product information</i>
----------	-------------------------------------

Description

`lookup` gives access to item price and availability in real-time.

Usage

```
paginted(key = auth_cache$KEY, lsPublisherId = NULL, category = NULL,
         brand = NULL, specialOffer = NULL, list_output = FALSE)
```

Arguments

<code>key</code>	Your API access key.
<code>lsPublisherId</code>	Your LinkShare Publisher Id.
<code>category</code>	Category id of the desired category. This should match the id field from <code>taxonomy</code> function.
<code>brand</code>	Brand name.
<code>specialOffer</code>	Special offers like (rollback, clearance, specialBuy).
<code>list_output</code>	Indicator for list output.

Details

An API key will be required to run this function and can be acquired by creating an account on the following website <https://developer.walmartlabs.com/member>.

For more information refer to the original documentation <https://developer.walmartlabs.com/docs/read/Home>.

Response formats are described at the url https://developer.walmartlabs.com/docs/read/Item_Field_Description.

Value

A tibble with 16 columns. First 15 is the items in base response format, followed by a column containing the URL path for the next page.

Examples

```
## Not run:
key <- "*****"

paginted(key = key, brand = "Apple")

paginted(key = key, category = 3944)

paginted(key = key, category = 3944, specialOffer = "rollback")

paginted(key = key, brand = "Apple", list_output = TRUE)

## End(Not run)
```

```
save_walmart_credentials
      Save API credentials for later use
```

Description

This functions caches the credentials to avoid need for entering it when calling other functions

Usage

```
save_walmart_credentials(app_key)
```

Arguments

```
app_key      application key
```

Examples

```
# since not checking is preformed not to waste API calls
# it falls on the user to save correct information
save_walmart_credentials("APP_KEY")
```

```
searching      searching with text the Walmart catalogue
```

Description

searching allows text search on the Walmart.com catalogue and returns matching items available for sale online. An API key will be required to run this function and can be acquired by creating an account on the following website <https://developer.walmartlabs.com/member>.

Usage

```
searching(query, key = auth_cache$KEY, lsPublisherId = NULL,
  categoryId = NULL, start = NULL, sort = NULL, order = NULL,
  numItems = NULL, facet = FALSE, facet.filter = NULL,
  list_output = FALSE)
```

Arguments

query	Search text - whitespace separated sequence of keywords to search for.
key	Your API access key.
lsPublisherId	Your LinkShare Publisher Id.
categoryId	Category id of the category for search within a category. This should match the id field from Taxonomy API.
start	Starting point of the results within the matching set of items - up to 10 items will be returned starting from this item.
sort	Sorting criteria, allowed sort types are (relevance, price, title, bestseller, customerRating, new). Default sort is by relevance.
order	Sort ordering criteria, allowed values are (asc, desc). This parameter is needed only for the sort types (price, title, customerRating).
numItems	Number of matching items to be returned, max value 25. Default is 10.
facet	Logical. Enables facets. Default value is FALSE. Set this to on to enable facets.
facet.filter	Filter on the facet attribute values. This parameter can be set to <facet-name>:<facet-value> (without the angles). Here facet-name and facet-value can be any valid facet picked from the search API response when facets are on.
list_output	Indicator for list output.

Details

For more information refer to the original documentation https://developer.walmartlabs.com/docs/read/Search_API.

Response formats are described at the url https://developer.walmartlabs.com/docs/read/Item_Field_Description.

Value

A tibble with 15 columns in base response format.

Examples

```
## Not run:
key <- "*****"

searching(query = "ipod", key = key)

searching(query = "ipod", key = key, categoryId = 3944)
```

```
searching(query = "ipod", key = key, start = 44)
searching(query = "ipod", key = key, numItems = 44)
searching(query = "ipod", key = key, sort = "price", order = "asc")
searching(query = "ipod", key = key, sort = "bestseller")
searching(query = "ipod", key = key, list_output = TRUE)
## End(Not run)
```

smart_subset	<i>Subsets up to n elements in a vector</i>
--------------	---

Description

Subsets up to n elements in a vector

Usage

```
smart_subset(x, n)
```

Arguments

x	A vector.
n	A number.

Value

vector of length equal to length of x or n, whichever is smallest.

Examples

```
smart_subset(1:10, 5)
smart_subset(1:10, 50)
```

store_locator	<i>Locale nearby Walmart stores</i>
---------------	-------------------------------------

Description

`store_locator` helps locate nearest Walmart Stores by letting you users search for stores by latitude and longitude, by zip code and by city.

Usage

```
store_locator(key = auth_cache$KEY, lat = NULL, lon = NULL, city = NULL,
              zip = NULL, list_output = FALSE)
```

Arguments

key	Your API access key.
lat	latitude.
lon	longitude.
city	city.
zip	zip code.
list_output	Indicator for list output.

Details

An API key will be required to run this function and can be acquired by creating an account on the following website <https://developer.walmartlabs.com/member>.

For more information refer to the original documentation https://developer.walmartlabs.com/docs/read/Store_Locator_API.

Value

A tibble with 12 columns in base response format.

Examples

```
## Not run:
key <- "*****"

store_locator(key = key, lat = 29, lon = -95)

store_locator(key = key, city = "Houston")

store_locator(key = key, zip = 77063)

store_locator(key = key, zip = 77063, list_output = TRUE)

## End(Not run)
```

taxonomy	<i>The category taxonomy used by walmart.com to categorize items</i>
----------	--

Description

This function returns the top level of categories only, for further levels run function with `list_output = FALSE` for nested list.

Usage

```
taxonomy(key = auth_cache$KEY, list_output = FALSE)
```

Arguments

key	Your API access key.
list_output	Indicator for list output.

Details

`taxonomy` gives returns the category taxonomy used by walmart.com to categorize items.

An API key will be required to run this function and can be acquired by creating an account on the following website <https://developer.walmartlabs.com/member>.

For more information refer to the original documentation https://developer.walmartlabs.com/docs/read/Taxonomy_API.

Value

A tibble with 15 columns in base response format.

Examples

```
## Not run:  
key <- "*****"  
  
taxonomy(key = key)  
  
taxonomy(key = key, list_output = TRUE)  
  
## End(Not run)
```

trending	<i>Trending products at Walmart.com</i>
----------	---

Description

`trending` gives information on what is bestselling on Walmart.com right now.

Usage

```
trending(key = auth_cache$KEY, lsPublisherId = NULL, list_output = FALSE)
```

Arguments

<code>key</code>	Your API access key.
<code>lsPublisherId</code>	Your LinkShare Publisher Id.
<code>list_output</code>	Indicator for list output.

Details

An API key will be required to run this function and can be acquired by creating an account on the following website <https://developer.walmartlabs.com/member>.

For more information refer to the original documentation https://developer.walmartlabs.com/docs/read/Trending_API.

Response formats are described at the url https://developer.walmartlabs.com/docs/read/Item_Field_Description.

Value

A tibble with 15 columns in base response format.

Examples

```
## Not run:  
key <- "*****"  
  
trending(key = key)  
  
trending(key = key, list_output = TRUE)  
  
## End(Not run)
```

VOD	<i>Value of the day</i>
-----	-------------------------

Description

VOD provides the Value of the Day item at walmart.

Usage

```
VOD(key = auth_cache$KEY, list_output = FALSE)
```

Arguments

key	Your API access key.
list_output	Indicator for list output.

Details

An API key will be required to run this function and can be acquired by creating an account on the following website <https://developer.walmartlabs.com/member>.

Response formats are described at the url https://developer.walmartlabs.com/docs/read/Item_Field_Description.

Value

A tibble with 15 columns in base response format.

Examples

```
## Not run:  
key <- "*****"  
  
VOD(key = key)  
  
VOD(key = key, list_output = TRUE)  
  
## End(Not run)
```

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