Package 'AvenueAPI'

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Type Package	
Title Retrieve Data from 7Park Data's Avenue API	
Version 0.2	
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Description Provides R-methods to retrieve and download metrics from the 7Park Data Avenue AF	I.
License MIT + file LICENSE	
Encoding UTF-8	
LazyData true	
Depends R (>= 3.1.0)	
Imports httr, rjson, reshape2, dplyr, lubridate, xts, zoo, methods	
<pre>URL https://github.com/sevenpark/AvenueAPI-R RoxygenNote 6.0.1</pre>	
Collate 'Avenue_Auth_Methods.R' 'data_resources.R' R topics documented:	
cc_names check_api_key check_date check_dom_source check_rev_firm check_rev_source connect_avenue extension_names extract_metrics fetch_app_series	22 23 33 44 44 55 66

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cc_names

Valid Firm Names for the Credit Card Data Series

Description

Valid Firm Names for the Credit Card Data Series

Usage

cc_names

Format

A character vector of length 13

check_api_key

Function to check the validity of an Avenue API key

Description

Function to check the validity of an Avenue API key

Usage

```
check_api_key(object)
```

Arguments

object

character; typically, this function is called to validate the api_key slot of an object of class AvenueApiClient. It may also be used to examine a length 1 character vector.

Value

An un-altered api key or, in the case of warnings, message(s) collected from the evaluation process.

check_date 3

check_date

Function to check the validity of date inputs

Description

Function to check the validity of date inputs

Usage

```
check_date(x, future_warning = FALSE)
```

Arguments

Χ

Date; a length 1 Date or a string expressed in a standard unambiguous format. Descriptive errors are produced for numeric inputs or invalid string formats.

future_warning logical; When TRUE, a warning message is produced if the supplied date is greater than current date + 1 day.

Value

When no errors are triggered, check_date returns a valid Date object equal to the input.

Examples

```
## Not run:
check_date(3)
Error in check_date(3) :
'3' is an invalid date selection of class 'numeric'.
You must supply a valid date object or a character of form 'YYYY-MM-DD'!
## End(Not run)
```

check_dom_source

Function to check the validity of an Avenue traffic domain

Description

Function to check the validity of an Avenue traffic domain

Usage

```
check_dom_source(x)
```

Arguments

Х

character; a length 1 character vector of the domain you are requesting, e.g. 'google.com'

Value

When no errors are triggered, check_dom_source returns an appropriate domain name which is passed to the Avenue API.

check_rev_source

	Check that a specificied company name is contained within the 7Parklata Avenue API for a given revenue data source
--	--------------------------------------------------------------------------------------------------------------------

Description

Check that a specificied company name is contained within the 7Parkdata Avenue API for a given revenue data source

Usage

```
check_rev_firm(x, data_source = "", validate_name = NULL)
```

Arguments

x character; a company name

data_source character; a data source name, one of m1, m2, or cc

validate_name logical; when TRUE (the default) TRUE is tested against a vector of known/valid

names.

check_rev_source Function to check the validity of an Avenue Revenue series source in-

put

Description

Function to check the validity of an Avenue Revenue series source input

Usage

```
check_rev_source(x)
```

Arguments

character; a length 1 character vector and one of "cc" (credit card panel), "m1" (Merchant Intel data), or "m2" (Merchant Intel2 data).

Value

When no errors are triggered, check_rev_source returns an appropriate dataset name which is passed to the Avenue API.

connect_avenue 5

connect_avenue

Set credentials for a 7Parkdata Avenue API connection.

Description

Set credentials for a 7Parkdata Avenue API connection.

Usage

```
connect_avenue(api_key = "")
```

Arguments

api_key

character; a valid Avenue API key. Must be a length 1 character vector. Contact your 7Park Sales Representative to obtain your key

Examples

```
## Not run:
connection <- connect_avenue(api_key=good_key)
## End(Not run)</pre>
```

extension_names

Valid Domain Names for the Avenue Extension Series

Description

Valid Domain Names for the Avenue Extension Series

Usage

```
extension_names
```

Format

A character vector of length 12,092.

6 fetch_app_series

extract_metrics	Helper function to transform an AvenueAPI data object from list to data.frame format
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Description

Helper function to transform an AvenueAPI data object from list to data.frame format

Usage

```
extract_metrics(metrics = metrics, data = NULL)
```

Arguments

metrics character; the metric names of the supplied object

data list; a data set extracted from the .\$data slot of an object of class "AvenueAPI'

Value

a "long" data.frame of the requested metrics

fetch_app_series fetch_app_series Methods

Description

```
fetch_app_series Methods
```

Usage

```
fetch_app_series(.Object, app, cadence, start_date = "", end_date = "",
    country_code = "", region = NULL)

## S4 method for signature 'AvenueApiClient'
fetch_app_series(.Object, app = NULL,
    cadence = NULL, start_date = "", end_date = "", country_code = "",
    region = NULL)
```

Arguments

.Object	A valid AvenueApiClient connection
арр	character; an length-1 vector of the Android package name, e.g. "com.facebook.katana"
cadence	character; the cadence requested. Must be one of: 'daily' (daily app usage) or 'weekly' (weekly app usage)
start_date	string; a length-one character vector expressed as 'YYYY-MM-DD' (ISO 8601) representing the start date of the requested series
end_date	string; a length-one character vector expressed as 'YYYY-MM-DD' (ISO 8601) representing the end date of the requested series

fetch_data 7

country_code character; the ISO 3166 alpha-2 country_code for which you are requesting app

data. If left unset, the API returns data for all countries.

region character; the UN region code for which you are requesting app data. An error

is thrown if **both** region and country_code are set.

Examples

fetch_data

fetch_data Method.

Description

fetch_data Method.

Usage

```
fetch_data(.Object, ave_url, params = "")
## S4 method for signature 'AvenueApiClient'
fetch_data(.Object, ave_url, params = "")
```

Arguments

.0bject A valid AvenueApiClient connection ave_url Fully constructed Avenue API URL

params Params passed to the API

fetch_revenue_series fetch_revenue_series Methods

Description

fetch_revenue_series Methods

Usage

```
fetch_revenue_series(.Object, firm, data_source, start_date = "",
   end_date = "", validate_name = TRUE)

## S4 method for signature 'AvenueApiClient'
fetch_revenue_series(.Object, firm = NULL,
   data_source = NULL, start_date = "", end_date = "",
   validate_name = TRUE)
```

8 fetch_traffic_series

Arguments

.Object A valid AvenueApiClient connection character; an length-1 vector of the company name, e.g. "Chipotle" firm data_source character; the source dataset. Must be one of: 'cc' (credit card panel), 'm1' (Merchant Intel), 'm2' (Merchant Intel2) start_date string; a length-one character vector expressed as 'YYYY-MM-DD' (ISO 8601) representing the start date of series end_date string; a length-one character vector expressed as 'YYYY-MM-DD' (ISO 8601) representing the end date of series logical; when TRUE, AvenueAPI checks the supplied firm name against a vector validate_name of known/valid names.

Examples

fetch_traffic_series fetch_traffic_series Methods

Description

```
fetch_traffic_series Methods
```

Usage

```
fetch_traffic_series(.Object, domain = NULL, platform = "",
   dataseries = "", start_date = "", end_date = "", country_code = "",
   validate_name = TRUE)

## S4 method for signature 'AvenueApiClient'
fetch_traffic_series(.Object, domain = NULL,
   platform = "PC", dataseries = "extension", start_date = "",
   end_date = "", country_code = "US", validate_name = TRUE)
```

Arguments

.Object	A valid AvenueApiClient connection
domain	character; an length-1 vector of the requested domain name, e.g. "www.google.com"
platform	character; the user's computing platform. Must be one of: 'PC' (desktop browser data), 'mobile' (mobile web browser data), or 'ALL' (mobile + PC).
dataseries	character; currently, the only valid value for this parameter is "extension" (the default). This will be updated as new traffic series are added to the API.

m1_names

start_date string; a length-one character vector expressed as 'YYYY-MM-DD' (ISO 8601)

representing the start date of the requested series

end_date string; a length-one character vector expressed as 'YYYY-MM-DD' (ISO 8601)

representing the end date of the requested series

country_code character; the ISO 3166 alpha-2 country_code for which you are requesting traf-

fic data. If left unset, the API returns data for all countries.

validate_name logical; when TRUE, AvenueAPI checks the supplied domain name against a

vector of known/valid names.

Examples

m1_names

Valid Firm Names for the Merchant Intel Data Series

Description

Valid Firm Names for the Merchant Intel Data Series

Usage

m1_names

Format

A character vector of length 1,311

m2_names

Valid Firm Names for the Merchant Intel2 Data Series

Description

Valid Firm Names for the Merchant Intel2 Data Series

Usage

 $m2_names$

Format

A character vector of length 571

transform_avenue_series

Transform a 7Parkdata Avenue API return into a "long" or "wide" dataframe for anaysis.

Description

Transform a 7Parkdata Avenue API return into a "long" or "wide" dataframe for anaysis.

Usage

```
transform_avenue_series(x, wide = FALSE)
```

Arguments

x list; a 7Park Data revenue object pulled with fetch_*_series method.

wide logical; if TRUE, a "wide" data frame is returned using dcast

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