

Package ‘ZillowR’

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Type Package

Title R Interface to Zillow Real Estate and Mortgage Data API

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URL <https://github.com/fascinatingfingers/ZillowR>

Description Zillow, an online real estate company, provides real estate and mortgage data for the United States through a REST API. The ZillowR package provides an R function for each API service, making it easy to make API calls and process the response into convenient, R-friendly data structures. See <<http://www.zillow.com/howto/api/APIOverview.htm>> for the Zillow API Documentation.

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GetChart	<i>Make request to Zillow API GetChart Web Service</i>
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Description

The GetChart API generates a URL for an image file that displays historical Zestimates for a specific property. The API accepts as input the Zillow Property ID as well as a chart type: either percentage or dollar value change. Optionally, the API accepts width and height parameters that constrain the size of the image. The historical data can be for the past 1 year, 5 years or 10 years.

Usage

```
GetChart(zpid = NULL, unit_type = c("percent", "dollar"), width = NULL,
         height = NULL, chartDuration = c("1year", "5years", "10years"),
         zws_id = getOption("ZillowR-zws_id"),
         url = "http://www.zillow.com/webservice/GetChart.htm")
```

Arguments

zpid	The Zillow Property ID for the property for which to obtain information. Required.
unit_type	A string value that specifies whether to show the percent change (unit_type = 'percent') or dollar change (unit_type = 'dollar'). Required.
width	An integer value that specifies the width of the generated image; the value must be between 200 and 600, inclusive.
height	An integer value that specifies the height of the generated image; the value must be between 100 and 300, inclusive.
chartDuration	The duration of past data that needs to be shown in the chart. Valid values are '1year', '5years' and '10years'. If unspecified, the value defaults to '1year'.
zws_id	The Zillow Web Service Identifier. Required.
url	URL for the GetChart Web Service. Required.

Value

A named list with the following elements:

request a list with the request parameters

message a list of status code(s) and message(s) returned by the API

response an XMLNode with the API-specific response values. At this time, no further coercion is performed, so you may have to use functions from the XML package to extract the desired output.

Examples

```
## Not run:
GetChart(zpid = 48749425)
GetChart(zpid = 48749425, unit_type = 'dollar', width = 600, height = 300,
         chartDuration = '10years')
## End(Not run)
```

GetComps

*Make request to Zillow API GetComps Web Service***Description**

The GetComps API returns a list of comparable recent sales for a specified property. The result set returned contains the address, Zillow property identifier, and Zestimate for the comparable properties and the principal property for which the comparables are being retrieved.

Usage

```
GetComps(zpid = NULL, count = NULL, rentzestimate = FALSE,
         zws_id = getOption("ZillowR-zws_id"),
         url = "http://www.zillow.com/webservice/GetComps.htm")
```

Arguments

zpid	The Zillow Property ID for the property for which to obtain information. Required.
count	The number of comparable recent sales to obtain (between 1 and 25)
rentzestimate	Return Rent Zestimate information if available (logical, default: false).
zws_id	The Zillow Web Service Identifier. Required.
url	URL for the GetComps Web Service. Required.

Value

A named list with the following elements:

request a list with the request parameters

message a list of status code(s) and message(s) returned by the API

response an XMLNode with the API-specific response values. At this time, no further coercion is performed, so you may have to use functions from the XML package to extract the desired output.

Examples

```
## Not run:
GetComps(zpid = 48749425, count = 5)
GetComps(zpid = 48749425, count = 5, rentzestimate = TRUE)
## End(Not run)
```

GetDeepComps

Make request to Zillow API GetDeepComps Web Service

Description

The GetDeepComps API returns a list of comparable recent sales for a specified property. The result set returned contains the address, Zillow property identifier, and Zestimate for the comparable properties and the principal property for which the comparables are being retrieved. This API call also returns rich property data for the comparables.

Usage

```
GetDeepComps(zpid = NULL, count = NULL, rentzestimate = FALSE,
             zws_id = getOption("ZillowR-zws_id"),
             url = "http://www.zillow.com/webservice/GetDeepComps.htm")
```

Arguments

<code>zpid</code>	The Zillow Property ID for the property for which to obtain information. Required.
<code>count</code>	The number of comparable recent sales to obtain (between 1 and 25)
<code>rentzestimate</code>	Return Rent Zestimate information if available (logical, default: false).
<code>zws_id</code>	The Zillow Web Service Identifier. Required.
<code>url</code>	URL for the GetDeepComps Web Service. Required.

Value

A named list with the following elements:

request a list with the request parameters

message a list of status code(s) and message(s) returned by the API

response an XMLNode with the API-specific response values. At this time, no further coercion is performed, so you may have to use functions from the XML package to extract the desired output.

Examples

```
## Not run:
GetDeepComps(zpid = 48749425, count = 5)
GetDeepComps(zpid = 48749425, count = 5, rentzestimate = TRUE)
## End(Not run)
```

GetDeepSearchResults *Make request to Zillow API GetDeepSearchResults Web Service*

Description

The GetDeepSearchResults API finds a property for a specified address. The result set returned contains the full address(s), zpid and Zestimate data that is provided by the GetSearchResults API. Moreover, this API call also gives rich property data like lot size, year built, bath/beds, last sale details etc.

Usage

```
GetDeepSearchResults(address = NULL, citystatezip = NULL,  
    rentzestimate = FALSE, zws_id = getOption("ZillowR-zws_id"),  
    url = "http://www.zillow.com/webservice/GetDeepSearchResults.htm")
```

Arguments

address	The address of the property to search. Required.
citystatezip	The city+state combination and/or ZIP code for which to search. Required.
rentzestimate	Return Rent Zestimate information if available (logical, default: false).
zws_id	The Zillow Web Service Identifier. Required.
url	URL for the GetDeepSearchResults Web Service. Required.

Value

A named list with the following elements:

request a list with the request parameters

message a list of status code(s) and message(s) returned by the API

response an XMLNode with the API-specific response values. At this time, no further coercion is performed, so you may have to use functions from the XML package to extract the desired output.

Examples

```
## Not run:  
GetDeepSearchResults(address = '2114 Bigelow Ave', citystatezip = 'Seattle, WA')  
GetDeepSearchResults(address = '2114 Bigelow Ave', citystatezip = 'Seattle, WA',  
    rentzestimate = TRUE)  
## End(Not run)
```

GetMonthlyPayments	<i>Make request to Zillow API GetMonthlyPayments Web Service</i>
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Description

For a specific loan amount, the GetMonthlyPayments API returns the estimated monthly payment that includes principal and interest based on today's mortgage rate. The API returns the estimated monthly payment per loan type (30-year fixed, 15-year fixed, and 5/1 ARM). If a ZIP code is entered, the estimated taxes and insurance are returned in the result set.

Usage

```
GetMonthlyPayments(price = NULL, down = NULL, dollarsdown = NULL,
  zip = NULL, zws_id = getOption("ZillowR-zws_id"),
  url = "http://www.zillow.com/webservice/GetMonthlyPayments.htm")
```

Arguments

price	The price of the property for which monthly payment data will be calculated. Required.
down	The percentage of the total property price that will be placed as a down payment. If omitted, a 20 payment is less than 20 specified for each returned loan type.
dollarsdown	The dollar amount that will be placed as a down payment. This amount will be used for the down payment if the 'down' parameter is omitted. If the down payment is less than 20 monthly private mortgage insurance amount is specified for each returned loan type.
zip	The ZIP code in which the property is located. If omitted, monthly property tax and hazard insurance data will not be returned.
zws_id	The Zillow Web Service Identifier. Required.
url	URL for the GetMonthlyPayments Web Service. Required.

Value

A named list with the following elements:

request a list with the request parameters

message a list of status code(s) and message(s) returned by the API

response an XMLNode with the API-specific response values. At this time, no further coercion is performed, so you may have to use functions from the XML package to extract the desired output.

Examples

```
## Not run:
GetMonthlyPayments(price = 300000L)
GetMonthlyPayments(price = 300000L, down = 10)
GetMonthlyPayments(price = 300000L, dollarsdown = 10000L)
GetMonthlyPayments(price = 300000L, zip = 98109)
## End(Not run)
```

GetRateSummary

Make request to Zillow API GetRateSummary Web Service

Description

The GetRateSummary API returns the current rates per loan type – as well as rates from a week ago – from Zillow Mortgage Marketplace. Current supported loan types are 30-year fixed, 15-year fixed, and 5/1 ARM. Rates are computed from real quotes borrowers receive from lenders just seconds before the rate data is returned. The GetRateSummary API returns rates for a specific state if the optional state parameter is used.

Usage

```
GetRateSummary(state = NULL, zws_id = getOption("ZillowR-zws_id"),
  url = "http://www.zillow.com/webservice/GetRateSummary.htm")
```

Arguments

state	The state for which to return average mortgage rates. Two-letter state abbreviations should be used (AK, AL, AR, AZ, CA, CO, CT, DE, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, VT, WA, DC, WI, WV, WY). If omitted, national average mortgage rates are returned.
zws_id	The Zillow Web Service Identifier. Required.
url	URL for the GetRateSummary Web Service. Required.

Value

A named list with the following elements:

request a list with the request parameters

message a list of status code(s) and message(s) returned by the API

response an XMLNode with the API-specific response values. At this time, no further coercion is performed, so you may have to use functions from the XML package to extract the desired output.

Examples

```
## Not run:
GetRateSummary()
GetRateSummary(state = 'WA')
## End(Not run)
```

GetSearchResults

Make request to Zillow API GetSearchResults Web Service

Description

The GetSearchResults API finds a property for a specified address. The content returned contains the address for the property or properties as well as the Zillow Property ID (ZPID) and current Zestimate. It also includes the date the Zestimate was computed, a valuation range and the Zestimate ranking for the property within its ZIP code.

Usage

```
GetSearchResults(address = NULL, citystatezip = NULL,
  rentzestimate = FALSE, zws_id = getOption("ZillowR-zws_id"),
  url = "http://www.zillow.com/webservice/GetSearchResults.htm")
```

Arguments

address	The address of the property to search. Required.
citystatezip	The city+state combination and/or ZIP code for which to search. Required.
rentzestimate	Return Rent Zestimate information if available (logical, default: false).
zws_id	The Zillow Web Service Identifier. Required.
url	URL for the GetSearchResults Web Service. Required.

Value

A named list with the following elements:

request a list with the request parameters

message a list of status code(s) and message(s) returned by the API

response an XMLNode with the API-specific response values. At this time, no further coercion is performed, so you may have to use functions from the XML package to extract the desired output.

Examples

```
## Not run:
GetSearchResults(address = '2114 Bigelow Ave', citystatezip = 'Seattle, WA')
GetSearchResults(address = '2114 Bigelow Ave', citystatezip = 'Seattle, WA',
  rentzestimate = TRUE)
## End(Not run)
```

GetUpdatedPropertyDetails

Make request to Zillow API GetUpdatedPropertyDetails Web Service

Description

For a specified property, the GetUpdatedPropertyDetails API returns all of the home facts that have been edited by the home's owner or agent. The result set contains the following attributes:

Usage

```
GetUpdatedPropertyDetails(zpid = NULL, zws_id = getOption("ZillowR-zws_id"),
  url = "http://www.zillow.com/webservice/GetUpdatedPropertyDetails.htm")
```

Arguments

zpid	The Zillow Property ID for the property for which to obtain information. Required.
zws_id	The Zillow Web Service Identifier. Required.
url	URL for the GetUpdatedPropertyDetails Web Service. Required.

Details

- Property address
- Zillow property identifier
- Posting details such as the agent name, MLS number, price, and posting type (For Sale or Make Me Move(tm))
- Up to five photos of the property
- Updated home facts such as beds, baths, square footage, home description, and neighborhood and school names

Value

A named list with the following elements:

request a list with the request parameters

message a list of status code(s) and message(s) returned by the API

response an XMLNode with the API-specific response values. At this time, no further coercion is performed, so you may have to use functions from the XML package to extract the desired output.

Examples

```
## Not run:
GetUpdatedPropertyDetails(zpid = 48749425)
## End(Not run)
```

GetZestimate

Make request to Zillow API GetZestimate Web Service

Description

For a specified Zillow property identifier (zpid), the GetZestimate API returns:

Usage

```
GetZestimate(zpid = NULL, rentzestimate = FALSE,
             zws_id = getOption("ZillowR-zws_id"),
             url = "http://www.zillow.com/webservice/GetZestimate.htm")
```

Arguments

zpid	The Zillow Property ID for the property for which to obtain information. Required.
rentzestimate	Return Rent Zestimate information if available (logical, default: false).
zws_id	The Zillow Web Service Identifier. Required.
url	URL for the GetZestimate Web Service. Required.

Details

- The most recent property Zestimate
- The date the Zestimate was computed
- The valuation range
- The Zestimate ranking within the property's ZIP code.
- The full property address and geographic location (latitude/longitude) and a set of identifiers that uniquely represent the region (ZIP code, city, county & state) in which the property exists.

The GetZestimate API will only surface properties for which a Zestimate exists. If a request is made for a property that has no Zestimate, an error code is returned. Zillow doesn't have Zestimates for all the homes in its database. For such properties, we do have tax assessment data, but that is not provided through the API. For more information, see our Zestimate coverage.

Value

A named list with the following elements:

request a list with the request parameters

message a list of status code(s) and message(s) returned by the API

response an XMLNode with the API-specific response values. At this time, no further coercion is performed, so you may have to use functions from the XML package to extract the desired output.

Examples

```
## Not run:  
GetZestimate(zpid = 48749425)  
GetZestimate(zpid = 48749425, rentzestimate = TRUE)  
## End(Not run)
```

`zillow_web_service_id` *Get/Set Zillow Web Service ID*

Description

Convenience functions to set your Zillow Web Service ID as a global option

Usage

```
get_zillow_web_service_id()  
  
set_zillow_web_service_id(x)
```

Arguments

`x` A character string of length 1 with your Zillow Web Service ID.

Details

Each subscriber to Zillow Web Services is uniquely identified by an ID sequence, and every request to Web Services requires this ID. You may pass your ID to each ZillowR function explicitly, but by default each function uses the value saved in the global 'ZillowR-zws_id' option. The `get_zillow_web_service_id` and `set_zillow_web_service_id` functions make it easy to manipulate this option.

Visit the following URL to register for your own Zillow Web Service ID:
<http://www.zillow.com/webservice/Registration.htm>

Value

`get_zillow_web_service_id` returns a character value with the current 'ZillowR-zws_id' option, or NULL if unset.

`set_zillow_web_service_id` invisibly returns NULL.

Examples

```
set_zillow_web_service_id('ZWSID')  
get_zillow_web_service_id()
```

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