

Package ‘blsAPI’

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Title Request Data from the U.S. Bureau of Labor Statistics API

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Description Allows users to request data for one or multiple series through the U.S. Bureau of Labor Statistics API. Users provide parameters as specified in <https://www.bls.gov/developers/api_signature.htm> and the function returns a JSON string.

Depends R (>= 3.1.1)

Imports rjson, RCurl

License GPL (>= 2)

LazyData true

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blsAPI	<i>Request Data from the U.S. Bureau Of Labor Statistics API</i>
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Description

Allows users to request data for one or multiple series through the U.S. Bureau of Labor Statistics API. Users provide parameters as specified in <https://www.bls.gov/developers/api_signature.htm> and the function returns a JSON string or data frame.

Usage

```
blsAPI(payload = NA, api.version = 1, return.data.frame = FALSE)
```

Arguments

`payload` a string or a list containing data to be sent to the API.

`api.version` an integer for which api version you want to use (i.e. 1 for v1, 2 for v2)

`return.data.frame` a boolean if you want the function to return JSON (default) or a data frame. If the data frame option is used, the series id will be added as a column. This is helpful if multiple series are selected.

Details

See <https://www.bls.gov/developers/> and https://www.bls.gov/developers/api_signature.htm for more details on the payload.

Examples

```
## These examples are taken from https://www.bls.gov/developers/api_signature.htm
library(rjson)
library(blsAPI)

## API Version 1.0 R Script Sample Code
## Single Series request
response <- blsAPI('LAUCN040010000000005')
json <- fromJSON(response)
## Not run:
## Multiple Series
payload <- list('seriesid'=c('LAUCN040010000000005', 'LAUCN040010000000006'))
response <- blsAPI(payload)
json <- fromJSON(response)

## One or More Series, Specifying Years
payload <- list(
  'seriesid'=c('LAUCN040010000000005', 'LAUCN040010000000006'),
  'startyear'=2010,
  'endyear'=2012)
response <- blsAPI(payload)
json <- fromJSON(response)

## API Version 2.0 R Script Sample Code
## Single Series
response <- blsAPI('LAUCN040010000000005', 2)
json <- fromJSON(response)
## Or request a data frame
df <- blsAPI('LAUCN040010000000005', 2, TRUE)

## Multiple Series
payload <- list('seriesid'=c('LAUCN040010000000005', 'LAUCN040010000000006'))
response <- blsAPI(payload, 2)
```

```

json <- fromJSON(response)

## One or More Series with Optional Parameters
payload <- list(
  'seriesid'=c('LAUCN04001000000005', 'LAUCN04001000000006'),
  'startyear'=2010,
  'endyear'=2012,
  'catalog'=FALSE,
  'calculations'=TRUE,
  'annualaverage'=TRUE,
  'registrationKey'='995f4e779f204473aa565256e8afe73e')
response <- blsAPI(payload, 2)
json <- fromJSON(response)

## End(Not run)

```

blsQCEW

Request QCEW Data from the U.S. Bureau Of Labor Statistics Open Data Access

Description

Allows users to request quarterly census of employment and wages (QCEW) data from the U.S. Bureau of Labor Statistics open access. Users provide parameters and the function returns a data frame. This function is based off of the sample code developed by the BLS that is found at https://www.bls.gov/cew/doc/access/data_access_examples.htm.

Usage

```
blsQCEW(method, year = NA, quarter = NA, area = NA, industry = NA,
        size = NA)
```

Arguments

method	a string describing which type of data you want requested. Valid options are: Area, Industry and Size. The method is not case sensitive.
year	a string for the year of data you want
quarter	a string indicating the quarter (1, 2, 3 or 4) or "a" for the annual average.
area	a string indicating which area you want the data for. See https://www.bls.gov/cew/doc/titles/area/area_titles.htm for all area codes and titles.
industry	a string for the NAICS code. Some industry codes contain hyphens but the open data access uses underscores instead of hyphens. So 31-33 becomes 31_33. For all industry codes and titles see: https://www.bls.gov/cew/doc/titles/industry/industry_titles.htm
size	a string for the size code. See https://www.bls.gov/cew/doc/titles/size/size_titles.htm for all establishment size classes and titles. Note: Size data is only available for the first quarter of each year.

Details

This function is a wrapper for multiple data request methods. See code examples for which parameters are required for which methods. Visit <https://www.bls.gov/cew/opendata.htm> for an overview of the BLS's open data access.

Examples

```
## These examples are taken from the sample code examples found at:
## <https://www.bls.gov/cew/doc/access/data_access_examples.htm>

## Area Data Request

## Required parameters are:
## * year
## * quarter
## * area

## Example: Request the first quarter of 2013 for the state of Michigan
MichiganData <- blsQCEW('Area', year='2013', quarter='1', area='26000')
## Not run:
## Industry Data Request

## Required parameters are:
## * industry
## * quarter
## * year

## Example: Request Construction data for the first quarter of 2013
Construction <- blsQCEW('Industry', year='2013', quarter='1', industry='1012')

## Size Data Request
## * size
## * year

## Example: Request data for the first quarter of 2013 for establishments with
## 100 to 249 employees
SizeData <- blsQCEW('Size', year='2013', size='6')

## End(Not run)
```

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