Package 'AlgeriAPIs'

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Type Package

Title Access Algerian Data via Public APIs

Version 0.1.0

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Description Provides functions to access data from public RESTful APIs including
'World Bank API' and 'REST Countries API', retrieving real-time or historical
information related to Algeria. The package enables users to query economic
indicators and international demographic and geopolitical statistics in a
reproducible way. It is designed for researchers, analysts, and developers who
require reliable and programmatic access to Algerian data through established APIs.
For more information on the APIs, see:
'World Bank API' <https:
//datahelpdesk.worldbank.org/knowledgebase/articles/889392>
and 'REST Countries API' <https://restcountries.com/>.

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Language en

URL https://github.com/lightbluetitan/algeriapis,
https://lightbluetitan.github.io/algeriapis/

BugReports https://github.com/lightbluetitan/algeriapis/issues

Encoding UTF-8

Depends R (>= 4.1.0)

Imports utils, httr, jsonlite, dplyr, scales, tibble

Suggests ggplot2, testthat (>= 3.0.0), knitr, rmarkdown

RoxygenNote 7.3.2

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

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AlgeriAPIs   *AlgeriAPIs: Access Algerian Data via Public APIs*

Description

This package provides functions to access data from public RESTful APIs including World Bank
API and REST Countries API, retrieving real-time or historical information related to Algeria.

Details

AlgeriAPIs: Access Algerian Data via Public APIs

Access Algerian Data via Public APIs.

Author(s)

Maintainer: Renzo Caceres Rossi <arenzocaceresrossi@gmail.com>

See Also

Useful links:

- https://github.com/lightbluetitan/algeriapis

---

algiers_temp_df	*Daily Maximum and Minimum Air Temperatures for Algiers, Algeria*

Description

This dataset, algiers_temp_df, is a data frame containing daily maximum and minimum air temperature records for Algiers, Algeria. It provides a comprehensive time series of temperature measurements useful for climate analysis, heatwave detection, and meteorological research.

Usage

```
data(algiers_temp_df)
```

Format

A data frame with 16,436 observations and 3 variables:

t Date of observation (Date)

tMax Daily maximum air temperature in degrees Celsius (numeric)

tMin Daily minimum air temperature in degrees Celsius (numeric)

Details

The dataset name has been kept as 'algiers_temp_df' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the AlgeriAPIs package and assists users in identifying its specific characteristics. The suffix 'df' indicates that the dataset is a data frame object. The original content has not been modified in any way.

Source

Data taken from the **heatwaveR** package version 0.5.4

---

get_algeria_child_mortality	
	Get Algeria's Under-5 Mortality Rate from World Bank

Description

Retrieves Algeria's under-5 mortality rate, measured as the number of deaths of children under five years of age per 1,000 live births, for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is SH.DYN.MORT.

Usage

```
get_algeria_child_mortality()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns NULL with an informative message.

Value

A tibble with the following columns:

- indicator: Indicator name (e.g., "Mortality rate, under-5 (per 1,000 live births)")
- country: Country name ("Algeria")
- year: Year of the data (integer)
- value: Mortality rate (per 1,000 live births)

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/SH.DYN.MORT

See Also

GET, fromJSON, as_tibble

Examples

```
if (interactive()) {
  get_algeria_child_mortality()
}
```

---

get_algeria_cpi   *Get Algeria's Consumer Price Index (2010 = 100) from World Bank*

Description

Retrieves Algeria's Consumer Price Index (CPI), with 2010 as the base year (index = 100), for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is FP.CPI.TOTL.

Usage

```
get_algeria_cpi()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns NULL with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "Consumer price index (2010 = 100)")
- `country`: Country name ("Algeria")
- `year`: Year of the data (integer)
- `value`: Consumer Price Index (numeric, base year 2010 = 100)

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/FP.CPI.TOTL

See Also

GET, fromJSON, as_tibble

Examples

```
if (interactive()) {
  get_algeria_cpi()
}
```

---

get_algeria_energy_use

Get Algeria's Energy Use (kg of oil equivalent per capita) from World Bank

---

Description

Retrieves Algeria's energy use per capita, measured in kilograms of oil equivalent, for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `EG.USE.PCAP.KG.OE`.

Usage

```
get_algeria_energy_use()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "Energy use (kg of oil equivalent per capita)")
- `country`: Country name ("Algeria")
- `year`: Year of the data (integer)
- `value`: Energy use in kilograms of oil equivalent per capita

Note

Requires internet connection.

Source

World Bank Open Data API: <https://data.worldbank.org/indicator/EG.USE.PCAP.KG.OE>

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
if (interactive()) {
  get_algeria_energy_use()
}
```

---

get_algeria_gdp   *Get Algeria's GDP (current US$) from World Bank*

Description

Retrieves Algeria's Gross Domestic Product (GDP) in current US dollars for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `NY.GDP.MKTP.CD`.

Usage

```
get_algeria_gdp()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "GDP (current US$)")

- `country`: Country name ("Algeria")

- `year`: Year of the data (integer)

- `value`: GDP in current US dollars

- `value_label`: Formatted GDP with commas (e.g., "1,800,000,000,000")

Note

Requires internet connection.

Source

World Bank Open Data API: <https://data.worldbank.org/indicator/NY.GDP.MKTP.CD>

See Also

GET, fromJSON, as_tibble, comma

Examples

```
if (interactive()) {
  get_algeria_gdp()
}
```

---

get_algeria_hospital_beds

Get Algeria's Hospital Beds (per 1,000 people) from World Bank

---

Description

Retrieves Algeria's number of hospital beds per 1,000 people for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `SH.MED.BEDS.ZS`.

Usage

```
get_algeria_hospital_beds()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "Hospital beds (per 1,000 people)")
- `country`: Country name ("Algeria")
- `year`: Year of the data (integer)
- `value`: Number of hospital beds per 1,000 people

Note

Requires internet connection.

Source

World Bank Open Data API: <https://data.worldbank.org/indicator/SH.MED.BEDS.ZS>

See Also

`GET`, `fromJSON`, `as_tibble`

Examples

```
if (interactive()) {
  get_algeria_hospital_beds()
}
```

---

get_algeria_life_expectancy

Get Algeria's Life Expectancy at Birth (Total, Years) from World Bank

---

Description

Retrieves Algeria's life expectancy at birth (total, years) for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `SP.DYN.LE00.IN`.

Usage

```
get_algeria_life_expectancy()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- `indicator`: Indicator name (e.g., "Life expectancy at birth, total (years)")
- `country`: Country name ("Algeria")
- `year`: Year of the data (integer)
- `value`: Life expectancy at birth in years

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/SP.DYN.LE00.IN

See Also

GET, fromJSON, as_tibble

Examples

```
if (interactive()) {
  get_algeria_life_expectancy()
}
```

---

get_algeria_literacy_rate

Get Algeria's Adult Literacy Rate

Description

Retrieves Algeria's adult literacy rate (for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is `SE.ADT.LITR.ZS`.

Usage

```
get_algeria_literacy_rate()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns `NULL` with an informative message.

Value

A tibble with the following columns:

- indicator: Indicator name
- country: Country name ("Algeria")
- year: Year of the data (integer)
- value: Literacy rate as a percentage

Note

Requires internet connection.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/SE.ADT.LITR.ZS

See Also

GET, fromJSON, as_tibble

Examples

```
literacy_data <- get_algeria_literacy_rate()
head(literacy_data)
```

---

get_algeria_population

Get Algeria's Total Population from World Bank

Description

Retrieves Algeria's total population for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is SP.POP.TOTL.

Usage

```
get_algeria_population()
```

Details

The function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns NULL with an informative message.

Value

A tibble with the following columns:

- indicator: Indicator name (e.g., "Population, total")
- country: Country name ("Algeria")
- year: Year of the data (integer)
- value: Population as a numeric value
- value_label: Formatted population with commas (e.g., "51,000,000")

Note

Requires internet connection. The data is retrieved in real time from the World Bank API.

Source

World Bank Open Data API: https://data.worldbank.org/indicator/SP.POP.TOTL

See Also

GET, fromJSON, as_tibble, comma

Examples

```
if (interactive()) {
  get_algeria_population()
}
```

---

get_algeria_unemployment

Get Algeria's Unemployment Rate (Total) from World Bank

Description

Retrieves Algeria's total unemployment rate, measured as a percentage of the total labor force, for the years 2010 to 2022 using the World Bank Open Data API. The indicator used is SL.UEM.TOTL.ZS.

Usage

```
get_algeria_unemployment()
```

Details

This function sends a GET request to the World Bank API. If the API request fails or returns an error status code, the function returns NULL with an informative message.

Value

A tibble with the following columns:

- indicator: Indicator name (e.g., "Unemployment, total (
- country: Country name ("Algeria")
- year: Year of the data (integer)
- value: Unemployment rate as a numeric value (percentage)

Note

Requires internet connection.

Source

World Bank Open Data API: <https://data.worldbank.org/indicator/SL.UEM.TOTL.ZS>

See Also

GET, fromJSON, as_tibble

Examples

```
if (interactive()) {
  get_algeria_unemployment()
}
```

---

get_country_info_dz   *Get Country Information for Algeria*

Description

Retrieves comprehensive country information for Algeria from the REST Countries API. This function fetches data including official and common names, geographical information, capital, area, population, and languages.

Usage

```
get_country_info_dz()
```

Value

A tibble with one row containing Algeria's country information, or NULL if the API is unavailable.

Examples

```
dz_info <- get_country_info_dz()
print(dz_info)
```

---

internet_users_tbl_df   *Internet Users in Algeria*

Description

This dataset, internet_users_tbl_df, is a tibble containing the percentage of Internet users in Algeria and comparative data for regional and global contexts. It tracks the percentage of individuals using the Internet over time for Algeria, the Maghreb Union, the Arab World, the European Union, and the World average.

Usage

```
data(internet_users_tbl_df)
```

Format

A tibble with 32 observations and 6 variables:

Year Year of observation (numeric)

Algeria Percentage of Internet users in Algeria (numeric)

Maghreb_union Percentage of Internet users in the Maghreb Union (numeric)

Arab_world Percentage of Internet users in the Arab World (numeric)

European_Union Percentage of Internet users in the European Union (numeric)

The_World Percentage of Internet users globally (numeric)

Details

The dataset name has been kept as 'internet_users_tbl_df' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the AlgeriAPIs package and assists users in identifying its specific characteristics. The suffix 'tbl_df' indicates that the dataset is a tibble object. The original content has not been modified in any way.

Source

Data obtained from Kaggle: https://www.kaggle.com/datasets/fundal/algeria-five-indicators

---

view_datasets_AlgeriAPIs

View Available Datasets in AlgeriAPIs

Description

This function lists all datasets available in the 'AlgeriAPIs' package. If the 'AlgeriAPIs' package is not loaded, it stops and shows an error message. If no datasets are available, it returns a message and an empty vector.

Usage

```
view_datasets_AlgeriAPIs()
```

Value

A character vector with the names of the available datasets. If no datasets are found, it returns an empty character vector.

Examples

```
if (requireNamespace("AlgeriAPIs", quietly = TRUE)) {
  library(AlgeriAPIs)
  view_datasets_AlgeriAPIs()
}
```

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