Package 'uisapi'

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Title Access the UNESCO Institute for Statistics API

Version 0.1.2

Description Retrieve data from the UNESCO Institute for Statistics (UIS) API <https://api.uis.unesco.org/api/public/documentation/>. UIS provides public access to more than 4,000 indicators focusing on education, science and technology, culture, and communication.

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Depends R (>= 4.1)

Imports cli (>= 3.0.0), httr2 (>= 1.0.0), jsonlite (>= 1.0.0), tibble, dplyr (>= 1.0.0), tidyr (>= 1.0.0), rlang (>= 1.0.0)

Suggests curl, testthat (>= 3.0.0)

URL https://github.com/econdataverse/r-uisapi, https://econdataverse.github.io/r-uisapi/

BugReports https://github.com/econdataverse/r-uisapi/issues

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Encoding UTF-8

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Author Christoph Scheuch [aut, cre, cph] (ORCID: <https://orcid.org/0009-0004-0423-6819>)

Maintainer Christoph Scheuch <christoph@tidy-intelligence.com>

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`uis_bulk_files` *Get files available for download via UIS BDDS*

Description

Retrieves information about files available in the UNESCO Institute for Statistics (UIS) Bulk Data Download Service (BDDS).

Usage

```
uis_bulk_files()
```

Value

A data frame with information about files:

`file_name` Character. The name of the data set.

`file_url` Character. The URL of the data set.

`last_updated_description` Character. Information about last update.

Examples

```
# Download available files for bulk download
uis_bulk_files()
```

`uis_get` *Get data from the UIS API*

Description

Retrieves data from the UNESCO Institute for Statistics (UIS) API for specified entities, indicators, and time periods.

Usage

```
uis_get(
  entities = NULL,
  indicators = NULL,
  start_year = NULL,
  end_year = NULL,
  version = NULL
)
```

Arguments

`entities`	Character vector. The entity IDs (ISO 3166-1 alpha-3 codes) to retrieve data for. Must provide either this parameter or `indicators` or both. See uis_get_entities for a list of supported entities.
`indicators`	Character vector. The indicator IDs to retrieve data for. Must provide either this parameter or `entities` or both. See uis_get_indicators for a list of supported indicators.
`start_year`	Numeric or character. The starting year for the data retrieval period. If NULL, no start year constraint is applied.
`end_year`	Numeric or character. The ending year for the data retrieval period. If NULL, no end year constraint is applied.
`version`	Character. The API version to use. If NULL, the default version is used. See uis_get_versions for a list of supported versions.

Value

A data frame with the following columns:

`entity_id`	Character. The ID of the entity (geoUnit).
`indicator_id`	Character. The ID of the indicator.
`year`	Numeric. The year of the observation.
`value`	Numeric. The value of the indicator for the given entity and year.

Examples

```
# Get all data for a single indicator
uis_get(
  indicators = "CR.1"
)

# Get all data for a single country
uis_get(
  entities = "BRA"
)

# Get data for multiple indicators and countries
uis_get(
  entities = c("BRA", "USA"),
  indicators = c("CR.1", "CR.2")
)

# Get data for multiple indicators and countries and specific time range
uis_get(
  entities = c("BRA", "USA"),
  indicators = c("CR.1", "CR.2"),
  start_year = 2010,
  end_year = 2020
)
```

`uis_get_entities` *Get geographical entities from UIS API*

Description

Retrieves information about geographical entities (countries, regions, etc.) available in the UNESCO Institute for Statistics (UIS) API.

Usage

```
uis_get_entities(version = NULL)
```

Arguments

`version`	Character. The API version to use. If NULL (default), the API's default version will be used. See uis_get_versions for a list of supported versions.

Value

A data frame with information about geographical entities:

`entity_id`	Character. The unique identifier for the entity.
`entity_name`	Character. The name of the geographical entity.
`entity_type`	Character. The type of entity (e.g., country, region).
`region_group`	Character. Information about the region grouping.

Examples

```
# Download entities for default version
uis_get_entities()

# Download entities for a specific version
uis_get_entities("20240910-b5ad4d82")
```

`uis_get_indicators` *Get indicator definitions from UIS API*

Description

Retrieves information about indicators available in the UNESCO Institute for Statistics (UIS) API.

Usage

```
uis_get_indicators(
  version = NULL,
  disaggregations = FALSE,
  glossary_terms = FALSE
)
```

Arguments

`version`	Character. The API version to use. If NULL (default), the API's default version will be used. See uis_get_versions for a list of supported versions.
`disaggregations`	Logical. If TRUE, includes disaggregation information for indicators. Default is FALSE.
`glossary_terms`	Logical. If TRUE, includes glossary terms associated with indicators. Default is FALSE.

Value

A data frame with information about indicators:

`indicator_id`	Character. The unique identifier for the indicator.
`indicator_name`	Character. The name of the indicator.
`theme`	Character. The theme of the indicator.
`last_data_update`	Date. The last update date.
`last_data_update_description`	Character. A description about the last update date.
`data_availability`	List column. Contains nested information about data availability, including total record count and timeline min/max years.
`entity_types`	List column. Contains information about entity types associated with the indicator.

Examples

```
# Download indicators
uis_get_indicators()

# Download indicators with glossary terms and disaggregations
uis_get_indicators(disaggregations = TRUE, glossary_terms = TRUE)
```

`uis_get_versions` *Get available UIS API versions*

Description

Retrieves information about the available versions of the UNESCO Institute for Statistics (UIS) API.

Usage

```
uis_get_versions(default_only = FALSE)
```

Arguments

`default_only`	Logical. Indicates whether only the current default version should be retrievend. Defaults to FALSE.

Value

A data frame with the following columns:

`version`	Character. The version identifier.
`publication_date`	Date-time. The date when the version was released.
`description`	Character. The description of the version.
`theme`	List column. Each element is a nested data frame containing information about themes available in the version, with columns: theme_id, theme_last_update, theme_description

Examples

```
uis_get_versions()
```

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