

Package ‘NSO1212’

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Title National Statistical Office of Mongolia's Open Data API Handler

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Description National Statistical Office of Mongolia (NSO) is the national statistical service and an organization of Mongolian government. NSO provides open access and official data via its web site <<http://www.1212.mn/>> and API <<http://opendata.1212.mn/en/doc>>. The package NSO1212 has functions for accessing the API service. The functions are compatible with the API v2.0 and get data sets and its detailed informations from the API.

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URL <https://github.com/galaamn/NSO1212>

BugReports <https://github.com/galaamn/NSO1212/issues>

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License GPL-3

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all_tables	<i>Brief Information about All Tables</i>
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Description

Brief information about all available tables on the API opendata.1212.mn which is supported by [National Statistical Office of Mongolia \(NSO\)](http://www.nso.gov.mn)

Usage

```
all_tables(try = FALSE)
```

Arguments

try logical: Should the body of the function be wrapped by the function `try`? See details.

Details

The NSO server returns "HTTP error 500" frequently. Due to the server error, error handling is supported. if `try` is TRUE, you have to write code with error handling as shown in the example.

Value

A data frame which has brief information of all available tables if the function is executed without error, but an object of class "try-error" containing the error message, if it fails. The data frame has following structure:

rownum Row number
list_id Sector number
tbl_id Table identification number
tbl_nm Table name in Mongolian
tbl_eng_nm Table name in English
unit_id Unit code
cd_nm Unit name in Mongolian
cd_eng_nm Unit name in English
strt_prd Start date
end_prd Finish date
prd_se Time frequency
lst_chn_de Last update date

References

<http://opendata.1212.mn/en/doc/Api/GET-api-Itms>

See Also

[get_table](#), [get_table_info](#), [get_sector_info](#)

Examples

```
all.tables <- all_tables(try = TRUE)
if (!inherits(all.tables, "try-error")) {
  print(all.tables$tbl_nm)
  print(all.tables$tbl_id)
}
```

get_sector_info

Detailed Information about All Sectors

Description

Detailed information about all 34 sectors, which are major classification of data, on the API [open-data.1212.mn](#) which is supported by [National Statistical Office of Mongolia \(NSO\)](#)

Usage

```
get_sector_info(try = FALSE)
```

Arguments

try logical: Should the body of the function be wrapped by the function `try`? See details.

Details

The NSO server returns "HTTP error 500" frequently. Due to the server error, error handling is supported. if `try` is TRUE, you have to write code with error handling as shown in the example.

Value

A data frame which has sector information if the function is executed without error, but an object of class "try-error" containing the error message, if it fails. The data frame has following structure:

rownum Row number

list_id Sector identification number

up_list_id Sub sector identification number

list_nm Sector name in Mongolian

list_eng_nm Sector name in English

isExist Whether or exist sub-sectors

References

<http://opendata.1212.mn/en/doc/Api/GET-api-Sector>

See Also

[all_tables](#), [get_table](#), [get_table_info](#), [get_subsector_info](#)

Examples

```
sector_info <- get_sector_info(try = TRUE)
if (!inherits(sector_info, "try-error")) {
  print(sector_info)
}
```

get_subsector_info *Detailed Information about a Sub-Sector*

Description

Detailed information about a sub-sector, which is minor classification of data, on the API opendata.1212.mn which is supported by [National Statistical Office of Mongolia \(NSO\)](#)

Usage

```
get_subsector_info(subid, try = FALSE)
```

Arguments

subid	character string, Sub-sector identification number
try	logical: Should the body of the function be wrapped by the function <code>try</code> ? See details.

Details

The NSO server returns "HTTP error 500" frequently. Due to the server error, error handling is supported. if try is TRUE, you have to write code with error handling as shown in the example.

Value

A data frame which has sub-sector information if the function is executed without error, but an object of class "try-error" containing the error message, if it fails. The data frame has following structure:

- rownum** Row number
- list_id** Sector identification number
- up_list_id** Sub sector identification number
- list_nm** Sector name in Mongolian
- list_eng_nm** Sector name in English
- isExist** Whether or exist sub-sectors

References

http://opendata.1212.mn/en/doc/Api/GET-api-Sector_subid

See Also

[all_tables](#), [get_table](#), [get_table_info](#), [get_sector_info](#)

Examples

```
subsector_info <- get_subsector_info("976_L05", try = TRUE)
if (!inherits(subsector_info, "try-error")) {
  print(subsector_info)
}
```

get_table

Download Statistical Data

Description

It downloads a table, which contains statistical data, from the API opendata.1212.mn which is supported by [National Statistical Office of Mongolia \(NSO\)](#).

Usage

```
get_table(
  tbl_id,
  PERIOD = NULL,
  CODE = NULL,
  CODE1 = NULL,
  CODE2 = NULL,
  try = FALSE
)
```

Arguments

tbl_id	character string, Table identification number
PERIOD	character vector, Time
CODE	character vector, Classification code (age, gender etc)
CODE1	character vector, Classification code (age, gender etc)
CODE2	character vector, Classification code (age, gender etc)
try	logical: Should the main body of the function be wrapped by the function try? See details.

Details

The NSO server returns "HTTP error 500" frequently. Due to the server error, error handling is supported. if try is TRUE, you have to write code with error handling as shown in the example.

Value

A data frame if the function is executed without error, but an object of class "try-error" containing the error message, if it fails. The data frame has following structure:

TBL_ID Row number

Period Time

CODE Classification code

SCR_MN Classification name in Mongolian

SCR_ENG Classification name in English

CODE1 Classification code

SCR_MN1 Classification name in Mongolian

SCR_ENG1 Classification name in English

CODE2 Classification code

SCR_MN2 Classification name in Mongolian

SCR_ENG2 Classification name in English

DTVAL_CO Data value

References

<http://opendata.1212.mn/en/doc/Api/POST-api-Data>

See Also

[all_tables](#), [get_table_info](#), [get_sector_info](#)

Examples

```
nso.data <- get_table(  
  tbl_id = "DT_NSQ_2400_015V2",  
  PERIOD = c("201711", "201712", "201801"),  
  CODE = c("10", "11"),  
  CODE1 = "11",  
  try = TRUE  
)  
if (!inherits(nso.data, "try-error")) {  
  print(nso.data)  
}
```

Description

Detailed information about a table and its classification on the API opendata.1212.mn which is supported by [National Statistical Office of Mongolia \(NSO\)](https://www.nso.mn)

Usage

```
get_table_info(tbl_id, simplify = FALSE, try = FALSE)
```

Arguments

<code>tbl_id</code>	character string, Table identification number
<code>simplify</code>	logical: Should the result be simplified to a vector and a data frame?
<code>try</code>	logical: Should the body of the function be wrapped by the function <code>try</code> ? See details.

Details

The NSO server returns "HTTP error 500" frequently. Due to the server error, error handling is supported. if `try` is TRUE, you have to write code with error handling as shown in the example.

Value

A list which contains table information and classification if the function is executed without error, but an object of class "try-error" containing the error message, if it fails. The list has following structure:

- tbl_id** Table identification number
- unit_id** Unit identification number
- unit_nm** Unit name in Mongolia
- unit_eng_nm** Unit name in English
- obj** Table classification:
 - obj_var_id** Variable identification
 - var_ord_sn** Variable identification number
 - field** Field name
 - scr_mn** Variable name in Mongolian
 - scr_eng** Variable identification
 - itm** Variable classification and code:
 - itm_id** Classification number
 - up_itm_id** Sub-classification
 - scr_mn** Classification name in Mongolian
 - scr_eng** Classification name in English

if `simplify` is TRUE, an user-friendly result is returned.

References

<http://opendata.1212.mn/en/doc/Api/GET-api-Items-id>

See Also

[all_tables](#), [get_table](#), [get_sector_info](#)

Examples

```
# tree shaped result
table_info <- get_table_info("DT_NSQ_2400_015V2", try = TRUE)
if (!inherits(table_info, "try-error")) {
  table_info$unit_nm
  table_info$obj[[1]]$itm[[1]]$scr_mn
}
# tabular result
table_info_simplified <- get_table_info("DT_NSQ_2400_015V2", simplify = TRUE, try = TRUE)
if (!inherits(table_info_simplified, "try-error")) {
  table_info_simplified$tbl_id
  table_info_simplified$unit
  table_info_simplified$codes
  table_info_simplified$CODE
  table_info_simplified$CODE1
}
```

NSO1212

National Statistical Office of Mongolia's Open Data API Handler

Description

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References

<http://opendata.1212.mn/en/doc>, <http://www.en.nso.mn>

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