

Package ‘dtmapi’

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Title An R Package for Fetching Data from the Displacement Tracking Matrix

Version 0.0.1

Description Displacement Tracking Matrix provides the R package allowing the humanitarian community, academia, media, government, and non-governmental organizations to utilize the data collected by DTM. It provides non-sensitive Internally Displaced Person figures, aggregated at the country, Admin 1 (states, provinces, or equivalent), and Admin 2 (smaller administrative areas) levels.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Imports httr, jsonlite, config

Suggests knitr, rmarkdown, testthat (>= 3.1.0)

VignetteBuilder knitr

NeedsCompilation no

Author Luong Bang Tran [aut, cre]

Maintainer Luong Bang Tran <lutran@iom.int>

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| | |
|-------------------|----------------------------|
| get_all_countries | <i>Fetch All Countries</i> |
|-------------------|----------------------------|

Description

This function sends a GET request to retrieve a list of all countries from the API specified in the configuration file.

Usage

```
get_all_countries()
```

Value

A data frame containing the list of all countries.

Examples

```
## Not run:  
# Fetch all countries  
countries_df <- get_all_countries()  
head(countries_df)  
  
## End(Not run)
```

| | |
|--------------------|-----------------------------|
| get_all_operations | <i>Fetch All Operations</i> |
|--------------------|-----------------------------|

Description

This function sends a GET request to retrieve a list of all operations from the API specified in the configuration file.

Usage

```
get_all_operations()
```

Value

A data frame containing the list of all operations.

Examples

```
## Not run:  
# Fetch all operations  
operations_df <- get_all_operations()  
head(operations_df)  
  
## End(Not run)
```

| | |
|---------------------|------------------------------|
| get_idp_admin0_data | <i>Fetch IDP Admin0 Data</i> |
|---------------------|------------------------------|

Description

This function retrieves IDP data at the Admin 0 level based on specified parameters from the API. At least one of the following parameters must be provided: Operation, CountryName, or Admin0Pcode.

Usage

```
get_idp_admin0_data(
  Operation = NULL,
  CountryName = NULL,
  Admin0Pcode = NULL,
  FromReportingDate = NULL,
  ToReportingDate = NULL,
  FromRoundNumber = NULL,
  ToRoundNumber = NULL
)
```

Arguments

| | |
|-------------------|---|
| Operation | Optional; Name of the DTM operation for which the data was collected. |
| CountryName | Optional; Name of the country where the data was collected. |
| Admin0Pcode | Optional; Country code (ISO 3166-1 alpha-3). |
| FromReportingDate | Optional; Start date for the reporting period (format: 'YYYY-MM-DD'). |
| ToReportingDate | Optional; End date for the reporting period (format: 'YYYY-MM-DD'). |
| FromRoundNumber | Optional; Starting round number for the data collection range. |
| ToRoundNumber | Optional; Ending round number for the data collection range. |

Value

A data frame containing the IDP Admin0 data matching the specified criteria.

Examples

```
## Not run:
# Fetch IDP data at Admin Level 0
idp_admin0_df <- get_idp_admin0_data(CountryName='Ethiopia', FromRoundNumber=1, ToRoundNumber=10)
head(idp_admin0_df)

## End(Not run)
```

| | |
|---------------------|------------------------------|
| get_idp_admin1_data | <i>Fetch IDP Admin1 Data</i> |
|---------------------|------------------------------|

Description

This function retrieves IDP data at the Admin 1 level based on specified parameters from the API. At least one of the following parameters must be provided: Operation, CountryName, or Admin0Pcode.

Usage

```
get_idp_admin1_data(
  Operation = NULL,
  CountryName = NULL,
  Admin0Pcode = NULL,
  Admin1Name = NULL,
  Admin1Pcode = NULL,
  FromReportingDate = NULL,
  ToReportingDate = NULL,
  FromRoundNumber = NULL,
  ToRoundNumber = NULL
)
```

Arguments

| | |
|-------------------|---|
| Operation | Optional; Name of the DTM operation for which the data was collected. |
| CountryName | Optional; Name of the country where the data was collected. |
| Admin0Pcode | Optional; Country code (ISO 3166-1 alpha-3). |
| Admin1Name | Optional; Name of level 1 administrative boundaries. |
| Admin1Pcode | Optional; Place code of level 1 administrative boundaries. |
| FromReportingDate | Optional; Start date for the reporting period (format: 'YYYY-MM-DD'). |
| ToReportingDate | Optional; End date for the reporting period (format: 'YYYY-MM-DD'). |
| FromRoundNumber | Optional; Starting round number for the data collection range. |
| ToRoundNumber | Optional; Ending round number for the data collection range. |

Value

A data frame containing the IDP Admin1 data matching the specified criteria.

Examples

```
## Not run:
# Fetch IDP data at Admin Level 1
admin1_data_df <- get_idp_admin1_data(CountryName='Sudan', Admin1Name="Blue Nile")
head(admin1_data_df)

## End(Not run)
```

| | |
|---------------------|------------------------------|
| get_idp_admin2_data | <i>Fetch IDP Admin2 Data</i> |
|---------------------|------------------------------|

Description

This function retrieves IDP data at the Admin 2 level based on specified parameters from the API. At least one of the following parameters must be provided: Operation, CountryName, or Admin0Pcode.

Usage

```
get_idp_admin2_data(
  Operation = NULL,
  CountryName = NULL,
  Admin0Pcode = NULL,
  Admin1Name = NULL,
  Admin1Pcode = NULL,
  Admin2Name = NULL,
  Admin2Pcode = NULL,
  FromReportingDate = NULL,
  ToReportingDate = NULL,
  FromRoundNumber = NULL,
  ToRoundNumber = NULL
)
```

Arguments

| | |
|-------------------|---|
| Operation | Optional; Name of the DTM operation for which the data was collected. |
| CountryName | Optional; Name of the country where the data was collected. |
| Admin0Pcode | Optional; Country code (ISO 3166-1 alpha-3). |
| Admin1Name | Optional; Name of level 1 administrative boundaries. |
| Admin1Pcode | Optional; Place code of level 1 administrative boundaries. |
| Admin2Name | Optional; Name of level 2 administrative boundaries. |
| Admin2Pcode | Optional; Place code of level 2 administrative boundaries. |
| FromReportingDate | Optional; Start date for the reporting period (format: 'YYYY-MM-DD'). |
| ToReportingDate | Optional; End date for the reporting period (format: 'YYYY-MM-DD'). |
| FromRoundNumber | Optional; Starting round number for the data collection range. |
| ToRoundNumber | Optional; Ending round number for the data collection range. |

Value

A data frame containing the IDP Admin2 data matching the specified criteria.

Examples

```
## Not run:  
# Fetch IDP data at Admin Level 2  
admin2_data_df <- get_idp_admin2_data(Operation='Yemen conflict', CountryName="Yemen")  
head(admin2_data_df)  
  
## End(Not run)
```

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