

Package ‘dtmapi’

August 29, 2024

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 collected data. 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.

URL <https://github.com/Displacement-Tracking-Matrix/dtmapi-R>

License MIT + file LICENSE

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>

Contents

get_all_countries	2
get_all_operations	2
get_idp_admin0_data	3
get_idp_admin1_data	4
get_idp_admin2_data	5
Index	7

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

Description

Retrieve all countries for which DTM data is publicly available through the API.

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

Retrieve all operations for which DTM data is publicly available through the API.

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

Retrieve IDP data at Admin 0 level based on specified parameters. 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

Retrieve IDP data at Admin 1 level based on specified parameters. 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

Retrieve IDP data at Admin 0 level based on specified parameters. 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)
```

Index

`get_all_countries`, [2](#)
`get_all_operations`, [2](#)
`get_idp_admin0_data`, [3](#)
`get_idp_admin1_data`, [4](#)
`get_idp_admin2_data`, [5](#)