Package 'dtmapi'

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Title Fetching Data from the 'Displacement Tracking Matrix'

Version 0.0.2

Description Allows humanitarian community, academia, media, government, and non-governmental organizations to utilize the data collected by the 'Displacement Tracking Matrix' (<https://dtm.iom.int>), a unit in the International Organization for Migration. This also 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>,

<https://displacement-tracking-matrix.github.io/dtmapi-R/>

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Imports httr2, jsonlite, magrittr

Suggests knitr, rmarkdown, testthat (>= 3.1.0)

VignetteBuilder knitr

NeedsCompilation no

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Contents

get_all_countries   *Fetch All Countries*

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

```
# Fetch all countries
countries_df <- get_all_countries()
head(countries_df)
```

get_all_operations   *Fetch All Operations*

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

```
# Fetch all operations
operations_df <- get_all_operations()
head(operations_df)
```

get_idp_admin0_data   *Fetch IDP Admin0 Data*

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 = 0,
  ToRoundNumber = 0
)
```

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

```
# Fetch IDP data at Admin Level 0
idp_admin0_df <- get_idp_admin0_data(CountryName='Ethiopia', FromRoundNumber=1, ToRoundNumber=10)
head(idp_admin0_df)
```

get_idp_admin1_data   *Fetch IDP Admin1 Data*

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 = 0,
  ToRoundNumber = 0
)
```

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

```
# Fetch IDP data at Admin Level 1
idp_admin1_df <- get_idp_admin1_data(CountryName='Sudan', Admin1Name="Blue Nile")
head(idp_admin1_df)
```

get_idp_admin2_data   *Fetch IDP Admin2 Data*

Description

Retrieve IDP data at Admin 2 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 = 0,
  ToRoundNumber = 0
)
```

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

```
# Fetch IDP data at Admin Level 2
idp_admin2_df <- get_idp_admin2_data(Operation='Yemen conflict', CountryName="Yemen")
head(idp_admin2_df)
```

Index