Package: hintr (via r-universe)

October 2, 2024

Title R API for calling naomi district level HIV model

Version 1.2.3

Description R API for calling naomi district level HIV model.

Depends R (>= 3.5.0)

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Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

Additional_repositories https://mrc-ide.r-universe.dev

Imports data.table, digest, docopt, dplyr, fs, geojsonio (>= 0.8.0), glue, ids, jsonlite (>= 1.2.2), naomi (>= 2.9.28), naomi.options (>= 1.1.0), porcelain (>= 0.1.8), qs, R6, readxl, rlang, rrq (>= 0.7.15), specio (>= 0.1.4), storr, traduire (>= 0.0.5), V8, yaml, zip

Suggests callr, cli, covr, duckdb, httr, jsonvalidate, mockery, pkgload, ps, redux, ssh, testthat (>= 2.1.0), tidyselect, withr

Remotes mrc-ide/naomi

Config/testthat/edition 3

Config/testthat/parallel true

Repository https://mrc-ide.r-universe.dev

RemoteUrl https://github.com/mrc-ide/hintr

RemoteRef main

RemoteSha a5b255439a9f931381d4e995abcbb5710a870201

Contents

`api` *Build and start the API*

Description

Build and start the API

Usage

```
api(
  queue_id = NULL,
  workers = 2,
  results_dir = tempdir(),
  inputs_dir = NULL,
  log_level = "info",
  health_check_interval = 0
)
```

Arguments

`queue_id`	ID of an existing queue to connect to, creates a new one if NULL
`workers`	Number of workers to spawn
`results_dir`	The dir for results to be saved to
`inputs_dir`	THe directory where input files are stored
`log_level`	The "lgr" log level to use
`health_check_interval`	Interval in seconds, after which the next time the redis connection is used the connection will be reset. 0 for no reconnection. This is used on cloud services where the TCP connections have an idle timeout and must be manually kept alive or restarted by the client.

Value

Running API

download_debug *Get debug output from naomi*

Description

Get debug output from naomi

Usage

```
download_debug(id, server = NULL, dest = tempfile(), verbose = TRUE)
```

Arguments

id	The model run id to download. This will be printed below the error message.
server	The url of the server. The default is to use the production naomi/hint/hintr instance. It is not possible to use the staging instance. You can change this if running locally.
dest	The destination for the downloaded data. The actual data will be unpacked into a directory corresponding to the run id within this, so it is safe to use a common directory.
verbose	Add a progress bar

hintr_submit_prerun *Submit a prerun to the web app*

Description

This requires VPN or RDP access to work.

Usage

```
hintr_submit_prerun(
  inputs,
  model_output,
  calibrate_output,
  server = "http://naomi.unaids.org",
  port = "8888",
  output_zip_path = tempfile(fileext = ".zip")
)
```

Arguments

`inputs`	The model inputs, a named list of file paths including pjnz, shape, population, survey and optionally programme and anc.
`model_output`	The `hintr_output` object from model fit
`calibrate_output`	The `hintr_output` object from calibration
`server`	The server URL to upload files to
`port`	The port the API is running on
`output_zip_path`	The path to save the output zip at, will use a tempfile by default

Details

This will take all model files and upload to a specified server and output the model output zip which can be saved into the ADR or uploaded into the Naomi app to view plots of model outputs.

Can use this for countries which cannot get a fit to work via the app you can prepare a model fit locally and then upload those outputs into the app.

Value

Path to the generated output zip

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