

Package ‘peermodels’

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Title Client-Side R API Wrapper for Peer Models Network Model
Repository

Version 0.10.2

Description Enables direct cloud access to health care decision mod-
els hosted on the PRISM server of the Peer Models Network.

Depends R (>= 3.6.0)

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Encoding UTF-8

URL <https://www.peermodelsnetwork.com>

Imports jsonlite, httr, stringr

RoxygenNote 7.1.1

NeedsCompilation no

Author amin adibi [aut, cre],
Mohsen Sadatsafavi [aut, cph]

Maintainer amin adibi <adibi@alumni.ubc.ca>

Repository CRAN

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default_server	<i>Returns the default server path for PRISM server</i>
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Description

Returns the default server path for PRISM server

Usage

```
default_server()
```

Value

the default server path for PRISM server

draw_plots	<i>draws plots generated by the model in R Session</i>
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Description

draws plots generated by the model in R Session

Usage

```
draw_plots(plot_number = NULL)
```

Arguments

plot_number the number of the plot to be rendered

Value

graphical object in R

get_async_results	<i>Retrieves async results</i>
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Description

Retrieves async results

Usage

```
get_async_results(
  model_name = NULL,
  token = NULL,
  api_key = NULL,
  server = NULL
)
```

Arguments

model_name	name of the model
token	async job token
api_key	API key
server	Server address. Defaults to PMN.

Value

processed (from JSON to R object result of the call)

get_default_input	<i>Returns default PRISM model input</i>
-------------------	--

Description

Returns default PRISM model input

Usage

```
get_default_input(model_name = NULL, api_key = NULL, server = NULL)
```

Arguments

model_name	name of the model. If null, it will be set to the last call's value.
api_key	API key. If null, it will be set to the last call's value.
server	Server address. If null, it will be set to Peer Models Network PRISM server on the first run and to the last call's value on subsequent runs.

Value

default model inputs, which can be changed and submitted to the model for a different run.

Examples

```
## Not run:  
sample_input <- get_default_input(model_name = "accept", api_key = "YOUR_API_KEY")  
  
## End(Not run)
```

get_plots	<i>Retrieves plots generated by the model in R Session</i>
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Description

Retrieves plots generated by the model in R Session

Usage

```
get_plots()
```

Value

URL of plots

get_session	<i>returns session info</i>
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Description

returns session info

Usage

```
get_session()
```

Value

returns current session variables

handshake	<i>checks to see if a model is available on the cloud server</i>
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Description

checks to see if a model is available on the cloud server

Usage

```
handshake(model_name, server = default_server())
```

Arguments

model_name	name of the model
server	base url of the server

Value

TRUE if model is available on the server, FALSE otherwise

Examples

```
handshake("accept")
```

model_run	<i>Executes PRISM model</i>
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Description

Executes PRISM model

Usage

```
model_run(  
  model_name = NULL,  
  model_input = NULL,  
  api_key = NULL,  
  server = NULL,  
  async = FALSE  
)
```

Arguments

model_name	name of the model
model_input	required custom parameters for current model
api_key	API key
server	server address. Defaults to the Peer Models Network PRSIM repository.
async	should the model be called in async mode?

Value

0 for success and 1 for error

Examples

```
## Not run:
sample_input <- get_default_input(model_name = "epic", api_key = "YOUR_API_KEY")
sample_input$global_parameters.time_horizon <- 15
model_run ("epic", model_input = sample_input)

## End(Not run)
```

prism_call

Generic call to PRISM server

Description

Generic call to PRISM server

Usage

```
prism_call(func, base_url, api_key = NULL, ...)
```

Arguments

func	function to call
base_url	the url to call
api_key	API key
...	other parameters

Value

processed (from JSON to R object result of the call)

reset_session	<i>resets session info and clears stored environmental variables such as API keys and server address.</i>
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Description

resets session info and clears stored environmental variables such as API keys and server address.

Usage

```
reset_session()
```

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