Package 'seekr'

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Type Package

Title R interface for SEEK API (connection to FAIRDOWHUD)
Version 0.1.0.9000
Description The package provides several functions for upload/download of data organized in pISA-tree to SEEK based cloud platform (specifically FAIRDOMHub).
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<pre>URL https://github.com/NIB-SI/seekr</pre>
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 ${\tt contentType}$

 $Determine\ MIME\ type\ for\ file.$

Description

Determine MIME type for file.

Usage

```
contentType(file)
```

Arguments

file

file name.

Value

MIME type string.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

```
contentType("bla.txt")
contentType("bla.pdf")
contentType("bla.tar.gz")
contentType("bla.bla")
contentType("bla")
contentType("bla.")
```

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print.seek_api

Print method for seek_api object

Description

Print method for seek_api object

Usage

```
## S3 method for class 'seek_api'
print(x, content = FALSE, ...)
```

Arguments

x object of class seek_api.

content If FALSE (default), content is no printed.

... further arguments passed to or from other methods.

Value

An object (list) of class seek_api.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

See Also

skParse

```
## Not run:
options(.sk$test)
options("sk.myid")
r <- skRead("people",options("sk.myid"))
# Print contents
print( r, TRUE)
# Short version, default
r
r$response$status_code
status_code(r$response)
r$status
## End(Not run)</pre>
```

4 skContent

skContent

Get content from an *sk* object.

Description

Get content from an *sk* object.

Usage

```
skContent(r, node, ...)
```

Arguments

r object retrieved by skGet.

node name of the required element. If missing, a list with all relevant objects is re-

turned.

... further arguments.

Value

File name (string).

Note

Parameter ... is ignored at this time.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

See Also

get

```
## Not run:
options(.sk$test)
options("sk.myid")
r <- skRead("people",options("sk.myid"))</pre>
d <- skContent(r,"attributes")</pre>
names(d)
d$last_name
skContent(r)$attributes$tools
# Get list of people
r <- skList("people")
d <- skContent(r)</pre>
length(d)
names(d)
names(d[[1]])
titles <- sapply(d,function(x) x$attributes$title)</pre>
head(titles)
# Get FAIRDOMhub user id
```

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```
myname <- titles[1]
myname
d[[pmatch(myname,titles)]]
id <- d[[pmatch(myname,titles)]]$id
id
## End(Not run)</pre>
```

skCreate

Create pISA layer or *sk* component.

Description

Create pISA layer or *sk* component.

Usage

```
skCreate(type = "assays", meta = list(), class = "EXP", file = "NA.TXT")
```

Arguments

type	Component type (e.g. 'people', 'projects',).
meta	Data frame with pISA metadata or a list with minimal information (short layer name, Title, Description, *ToDo: add fields*). See Examples.
class	Assay class key string. Possible values are 'EXP' and 'MODEL'.
file	File name with path, relative to layer.

Value

FAIRDOMhub created component.

Note

Upon success (status code 200) details of newly created component can be used. Check status code. Created component id is set in options.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

skGet

6 skCreate

```
## Not run:
if(FALSE)
options(.sk$test)
options(sk.prid = 26)
skOptions("id")
meta= list(
     project=paste("Test project", Sys.time())
    , Title="Test project"
    , Description="Testing upload")
meta
rm(sp)
 sp <- skCreate( type = "projects"</pre>
   , meta = meta
    )
 skFindId("projects",meta$project)
 cat(skContent(sp)$attributes$description)
# Call to API does not set the 'member' field
# Add member manually in the project page on the web site:
# /Actions/Administer project members
 options(sk.prid=26, sk.pid=sp$id)
 skOptions("id")
 meta= list(
      Investigation=paste("Test investigation", Sys.time())
    , Title = "Test investigation"
    , Description="Testing upload")
    meta
   rm(si)
 si <- skCreate( type = "investigations"</pre>
  , meta=meta
    )
 si
 skContent(si)$id
 {\tt skFindId} ("{\tt investigations"}, {\tt meta\$Investigation})
 skOptions("id")
# Create Study
 iid <- si$id
 options(sk.prid=26, sk.pid=sp$id, sk.iid=si$id)
 skOptions("id")
 meta= list(
      Study=paste("Test study", Sys.time())
    , Title="Test Study"
    , Description="Testing upload")
 ss <- skCreate( type = "studies", meta)</pre>
 SS
ss$id
 skFindId("studies",meta$Study)
# Assay
 options(sk.prid = 26
       , sk.pid=skContent(sp)$id
       , sk.iid=skContent(si)$id
       , sk.sid=skContent(ss)$id
```

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```
skOptions()
 meta= list(
      Assay=paste("Test Assay", Sys.time())
    , Title="Test Assay"
    , Description="Testing upload"
    , class="EXP"
 sa <- skCreate( type = "assays" , meta)</pre>
 sa
 sa$id
 skContent(sa)$relationships$submitter
 skContent(sa)$links
}
 file <- "input/README.MD"</pre>
options(sk.prid = 26, sk.pid=sp$id, sk.iid=si$id , sk.sid=ss$id , sk.aid=sa$id)
 skOptions()
 type <- "data_files"</pre>
 type <- "documents"</pre>
 sdat <- skCreate( type = type</pre>
  , meta= list(
      Title=paste("Test document", Sys.time())
     Description="Testing of upload")
  , file=file
 #str(sdat)
 sdat
 skContent(sdat)$id
if(interactive()) setwd(oldwd)
getwd()
res <- sdat$content
item_link <- paste0(res$meta$base_url,res$links$self)</pre>
if(interactive()) shell.exec(item_link)
## End(Not run)
```

skDelete

Delete component.

Description

Delete component.

Usage

```
skDelete(type, id, uri = options("sk.url"), ...)
```

Arguments

```
type Component type (e.g. "assay").
id Repository id of component.
uri Repository base address (URI).
... further arguments.
```

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Value

Deleted object (list) of class seek_api.

Note

```
Parameter ... is ignored at this time.
Component id in options is set to NULL.
```

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

skCreate

Examples

```
## Not run:
options(.sk$test)
options("sk.myid")
r <- skDelete("assay",options("sk.aid"))
names(r)
r$response$status_code
status_code(r$response)
r
## End(Not run)</pre>
```

skExists

Check if component exists within the layer.

Description

Check if component exists within the layer.

Usage

```
skExists(type, title, ptype, pid, verbose = FALSE)
```

Arguments

type	Component type (possibly shortened e.g. 'pe' for 'people', 'proj' for 'projects',).	
title	Character string, component name.	
ptype	Parent component type (possibly shortened).	
pid	Parent component id. If missing, appropriate part skOptions is used.	
verbose	logical, if TRUE, details are printed.	

Value

logical value indicating whether the component named by argument title exists.

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Note

Check if named layer (.e.g. assay) exists in the parent layer. Parent layer is usually just one above (e.g. study where the assay is supposed to reside) but can be any above.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

Examples

```
## Not run:
options(.sk$test)
skFindId("projects","_p_Demo")
skOptions()
skExists("people", "Andrej Blejec", "proj", options("sk.pid"))
skExists("people", "Andrej Blejec", "proj", verbose=TRUE)
skExists("investigations","_I_Test", "proj", options("sk.pid"),TRUE)
skExists("pe", "Guest", "proj", options("sk.pid"))
## End(Not run)
```

skExistsa

Check if component exist anywhere in the repository.

Description

Check if component exist anywhere in the repository.

Usage

```
skExistsa(type, title, verbose = FALSE)
```

Arguments

type Component type (possibly shortened e.g. 'pe' for 'people', 'proj' for 'projects', ...).

title Character string with the identifier of the component (title part).

verbose logical, if TRUE, details are printed.

Value

logical value indicating whether the component named by argument title exists.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

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Examples

```
## Not run:
options(.sk$test)
skExistsa("people", "Andrej Blejec")
skExistsa("projects", "Demo", verbose=TRUE)
skExistsa("pe", "Guest")
## End(Not run)
```

skExistsp

Check if component exist within the project.

Description

Check if component exist within the project.

Usage

```
skExistsp(type, title, pid = getOption("sk.pid"), verbose = FALSE)
```

Arguments

type Component type (possibly shortened e.g. 'pe' for 'people', 'proj' for 'projects', ...).

title Character string with the identifier of the component (title part).

pid numeric or character. Parent component id. Note: might be not needed.

verbose logical, if TRUE, details are printed.

Value

logical value indicating whether the component named by argument title exists.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

```
## Not run:
options(.sk$test)
skFindId("projects","_p_Demo")
skOptions()
skExistsp("people", "Andrej Blejec")
skExistsp("investigations","_I_Test", verbose=TRUE)
skExistsp("pe", "Guest")
## End(Not run)
```

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skExpand

Expand shortened type name into full name.

Description

Expand shortened type name into full name.

Usage

```
skExpand(type)
```

Arguments

```
type Component type (possibly shortened e.g. 'pe' for 'people', 'proj' for 'projects', ...).
```

Value

Expanded type name.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

Examples

```
skExpand("pe")
skExpand("inv")
skExpand("inv")
skExpand("st")
skExpand("a")
skExpand(c("a","inv"))
# skExpand("p")
# Error in skExpand("p") : No such type or duplicate entry for 'p'
```

 ${\sf skFilesToUpload}$

Prepare the list of files for upload

Description

Prepare the list of files for upload

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Usage

```
skFilesToUpload(
  root,
  exclude.nokey = FALSE,
  exclude.md = TRUE,
  verbose = TRUE,
  quiet = FALSE,
  skignore = file.path(root, "seekignore.txt"),
  recursive = TRUE
)
```

Arguments

root character string. Directory, pointing to the branch of pISA-tree to be checked. exclude.nokey logical value. If TRUE, the layer will be ignored if the "Upload to FAIR-

DOMHub" is not present.

exclude.md logical value. If TRUE, the file will be ignored if it contains just the header line.

verbose logical. Shold print progress details? quiet logical. Should print final report?

skignore sharacter. File name or path to seekignore file.
recursive logical. Should the listing recurse into directories?

Note

Function 'skFilesToUpload' will first create a list of files in root directory. Then, it will read the seekignore.txt and extend it with patterns of layers that should not be uploaded according to metadata key "Upload to FAIRDOMHub". In addition, seekignre list will be appended with the list of empty README.MD files that might clutter the FAIRDOMHub list of files. Then it will filter it according to declarations in the combined seekignore pattern list.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

 ${\tt skIgnoreBlankReadme, skDoNotUpload}$

```
## Not run:
skFilesToUpload(.sroot)
skFilesToUpload(.aroot)
dirs <- skFilesToUpload(.iroot)
dirs
skFilesToUpload(exclude.md=FALSE)
skFilesToUpload( verbose=FALSE, quiet=TRUE)
seekignore <- c("# ignore patterns","*.zip","*.txt")
skFilesToUpload(skignore=seekignore)
skFilesToUpload(file.path(.iroot),skignore=NULL)
## End(Not run)</pre>
```

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skFindId

Get details of component with id from an *sk* object.

Description

Get details of component with id from an *sk* object.

Usage

```
skFindId(type, title)
```

Arguments

type Components name (e.g. 'people', 'projects', ...).

title Character string with the identifier of the component (title part).

Value

FAIRDOMhub component identifier: id, type and title. If argument title is missing, a data frame with identifiers for all items is returned.

Note

If item is not found, value 0 is returned as id.

Touched component id is set in options.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

```
skFindTitle
```

```
## Not run:
options(.sk$test)
id <- skFindId("people","Guest")
id
skFindTitle("people",id)
# does not exist
skFindId("people","No User")
# List of projects
projects <- skFindId("projects")
head(projects)
tail(projects)
## End(Not run)</pre>
```

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skFindTitle

Get details of component with id from an *sk* object.

Description

Get details of component with id from an *sk* object.

Usage

```
skFindTitle(type, id)
```

Arguments

type Components name (e.g. 'people', 'projects', ...).

id Character string with the identifier of the component (id part).

Value

FAIRDOMhub component identifier: id, type and title. If argument title is missing, a data frame with identifiers for all items is returned. See note.

Note

If item is not found, empty string is returned as title.

Touched component id is set in options.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

```
skFindTitle
```

```
## Not run:
skFindTitle("people",0)
## End(Not run)
```

skGet 15

skGet

Get information from repository.

Description

Get information from repository.

Usage

```
skGet(type, id, uri = options("sk.url"), verbose = FALSE, ...)
```

Arguments

```
type Type of information (e.g. "person").

id Repository id of an item.

uri Repository base address (URI).

verbose logical, print details if TRUE.

... further arguments.
```

Value

An object (list) of class seek_api.

Note

```
Parameter ... is ignored at this time.
```

Touched component id is set in the options (see: skOptions).

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

```
get, skRead, skList
```

```
## Not run:
options(.sk$test)
options("sk.myid")
r <- skGet("people",options("sk.myid"))
names(r)
r$response$status_code
status_code(r$response)
r
# Non existent user
skGet("people",0)
## End(Not run)</pre>
```

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skGetLayer

Get layer name from path.

Description

Get layer name from path.

Usage

```
skGetLayer(layer = "p", path = getwd(), verbose = FALSE)
```

Arguments

layer character. pISA-tree layer prefix (one of characters "p", "I", "S" or "A").

path Directory path, defaults to working directory.

verbose logical. Should warnings be printed?

Note

This function should be included in the package pisar.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

```
## Not run:
astring <- "_p_Demo/_I_Test/_S_Show/_A_Work-R/other"
oldwd <- setwd(system.file("extdata",astring,package="seekr"))
oldwd
.pname <- getLayer("p")
.pname
getLayer("I")
getLayer("S")
getLayer("A")
if(interactive()) setwd(oldwd)
getwd()
## End(Not run)</pre>
```

skGetOption 17

skGetOption

Get seekr option according to the type.

Description

Get seekr option according to the type.

Usage

```
skGetOption(type)
```

Arguments

type Components name (e.g. 'people', 'projects', ...).

Value

Option specified by type.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

See Also

skSetOption

```
## Not run:
skGetOption("myid")
skSetOption("myid", 368)
skOptions()
skSetOption("assay",1234)
skGetOption("assay")
# Delete/reset option sk.aid
skSetOption("assay",NULL)
skOptions()
Get options
skGetOption("myid")
skGetOption("inv")
## End(Not run)
```

18 skList

skList List operations return a list of all objects of the specified type, to which the authenticated user has access.

Description

List operations return a list of all objects of the specified type, to which the authenticated user has access.

Usage

```
skList(type, uri = options("sk.url"), ...)
```

Arguments

type Type of information (e.g. "person").uri Repository base address (URI).further arguments.

Value

An object (list) of class seek_api.

Note

```
Parameter ... is ignored at this time.

Touched component id is set in the options (see: skOptions).
```

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

```
skRead, skGet
```

```
## Not run:
options(.sk$test)
options("sk.myid")
r <- skList("people")
names(r)
r$response$status_code
status_code(r$response)
l <- skContent(r)
length(l)
# Short list of users
head(sort(sapply(l, function(x) x$attributes$title)),10)
## End(Not run)</pre>
```

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skListp

List of all objects of the specified type within the project.

Description

List of all objects of the specified type within the project.

Usage

```
skListp(
  class = projects,
  type,
  pid = getOption("sk.pid"),
  uri = options("sk.url"),
  ...
)
```

Arguments

```
class Type of parent layer (e.g. "projects").

type Type of information (e.g. "person").

pid Id of a project giving the scope of the list.

uri Repository base address (URI).

... further arguments.
```

Value

A data.frame with ids and titles of related object.

Note

```
Parameter ... is ignored at this time.

Touched component id is set in the options (see: skOptions).
```

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

```
skList
```

```
## Not run:
options(.sk$test)
options("sk.pid")
r <- skListp("proj", "people")
r
skListp("inv", "assays")
skListp("proj", "inv")</pre>
```

20 skLog

```
## End(Not run)
```

skLog

Writes a note to a log file.

Description

Writes a note to a log file.

Usage

```
skLog(..., file = "FAIRDOM.log", append = TRUE)
```

Arguments

... Objects to form a line.

file Log file name.

append Control append/rewrite mode.

Value

System time of invoking..

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

skGet

```
tst <- function(){
   skLog("Test", "writing to logfile", file="")
   fht <- system.time(Sys.sleep(1))
   skLog( "Time:", round(fht["elapsed"],2), file="")
}
tst()
rm(tst)</pre>
```

skOptions 21

Description

Lists selected seekr related options that are set in via the options function. Selection is based on the start and end of the name. All seekr options start with prefix 'sk.'. Argument end give the required sufix for the option to be listed. Typical use would be to list identifiers, when end = "id".

Usage

```
skOptions(end = "", start = "sk.", hide = "sk.pwd")
```

Arguments

end character string defining the end of the string. By default all names are valid

(empty string).

start character string defining the start of the name, default is "sk.", which is typical

for seekr options.

hide vector of names, that should not be listed. Default is "sk.pwd" which prevents

password to be revealed.

Value

A list of seekr related options.

Note

At the moment two locations are available: main FAIRDOMHub (https://www.fairdomhub.org/) and testing site (https://testing.sysmo-db.org).

Function options() is used to store server location, user credentials and pISA layer identifications. Options that can be declared:

sk.url server location

sk.usr username

sk.pwd password

sk.myid user id on server

sk.instid user's institution id

sk.prid program id

sk.pid project id

sk.iid investigation id

sk.sid study id

sk.aid assay id

sk.root root of files for upload

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

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See Also

```
startsWith, endsWith
```

Examples

```
## Not run:
options(sk.myid=368, sk.pid=166, sk.usr="Username")
skOptions()
skOptions("id")
skOptions(hide=NULL)
## End(Not run)
```

skParse

Parse the response from SEEK API and convert to a list.

Description

Parse the response from SEEK API and convert to a list.

Usage

```
skParse(resp, ...)
```

Arguments

resp response from SEEK API.
... further arguments.

Value

An object (list) of class seek_api.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

See Also

skGet

```
## Not run:
options(.sk$test)
options("sk.myid")
r <- skRead("people",options("sk.myid"))
names(r)
r$response$status_code
status_code(r$response)
names(r$content)
r
r <- skRead("people")</pre>
```

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```
length(r$content)
names(r$content)
r$content[[1]]
names(r)
r
## End(Not run)
```

skRead

Read operation will return information about the instance identified.

Description

Read operation will return information about the instance identified.

Usage

```
skRead(type, id, uri = options("sk.url"), content = FALSE, ...)
```

Arguments

type Type of information (e.g. "person").

id Repository id of an item.

uri Repository base address (URI).

content Return complete response (FALSE) or content part (TRUE).

... further arguments.

Value

```
An object (list) of class seek_api.
```

Note

Parameter ... is ignored at this time.

Touched component id is set in the options (see: skOptions).

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

```
skList, skGet
```

24 skRelated

Examples

```
## Not run:
options(.sk$test)
options("sk.myid")
r <- skRead("people",options("sk.myid"))
names(r)
r$response$status_code
status_code(r$response)
r
# Non existent user
skRead("people",0)
## End(Not run)</pre>
```

skRelated

List of relationships within an object.

Description

List of relationships within an object.

Usage

```
skRelated(type, id, select = NULL, uri = options("sk.url"), ...)
```

Arguments

type	Object type (e.g. "project").
id	Id of the object giving the scope of the list. If missing, appropriate part of skOptions is used.
select	Vector of character strings with object types of interest.
uri	Repository base address (URI).
	further arguments.

Value

A data.frame with ids, types, roles and titles of related objects.

Note

```
Parameter ... is ignored at this time.

Id of each last touched component is set in the options (see: skOptions).
```

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

```
skListp
```

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Examples

```
## Not run:
skRelated("projects",152)
skRelated("investigations",151)
skRelated("investigations",152)
skRelated("investigations",152, "assays")
skRelated("investigations("sk.pid"), "inv")
skRelated("inv",152, c("people","studies"))
skRelated("inv",152, c("pe","a"))
skRelated("studies",165)
skRelated("assays",494)
skRelated("people",368,"projects")
## End(Not run)
```

skReset

Reset seekr related options

Description

Reset seekr related options

Usage

```
skReset(all = FALSE)
```

Arguments

all

logical. Reset all options (including user and server related).

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

skOptions

```
## Not run:
options(sk.myid=368, sk.pid=166, sk.usr="Username")
skOptions()
skReset()
skOptions()
## End(Not run)
```

26 skSearch

skSearch

Search operation returns a list of references to resources.

Description

Search operation returns a list of references to resources.

Usage

```
skSearch(type = "data_files", q, uri = options("sk.url"), content = FALSE, ...)
```

Arguments

type Type of information (e.g. "person", default is "data_files").

q Text to search for, spaces acceptable.

uri Repository base address (URI).

content Return complete response (FALSE) or content part (TRUE).

further arguments.

Value

An object (list) of class seek_api.

Note

```
Parameter ... is ignored at this time.

Touched component id is set in the options (see: skOptions).
```

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

```
## Not run:
options(.sk$test)
options("sk.myid")
r <- skSearch("people","Guest")
names(r)
r$response$status_code
status_code(r$response)
str(skContent(r))
# Non existent user
x <- skSearch("people","XY")
x$content
str(skContent(x))
(skContent(skSearch("institutions","systems biology")))
## End(Not run)</pre>
```

skSetLayers 27

skSetLayers

Set seek layer names based on pISA-tree file path.

Description

Set seek layer names based on pISA-tree file path.

Usage

```
skSetLayers(
  path,
  root = .iroot,
  studyForFiles = "_S_Z-NotInAssays-files",
  assaySuffix = "-files"
)
```

Arguments

path Directory path, defaults to working directory.

layer character. pISA-tree layer prefix (one of characters "p", "I", "S" or "A").

verbose logical. Should warnings be printed?

Note

SEEK allows only files to be associated with assays. To upload files in investigation and study levels, a dummy study with assays for each study will be used to hold their files.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

```
## Not run:
astring <- "_p_Demo/_I_Test/_S_Show/_A_Work-R/other"</pre>
oldwd <- setwd(system.file("extdata",astring,package="seekr"))</pre>
oldwd
require(pisar)
pisa <- pisa()
options(.sk$test)
seekignore <- readLines(file.path(.iroot, "seekignore.txt"))</pre>
seekignore
dirs <- skFilesToUpload(.sroot)</pre>
skSetLayers(dirs[1], root=.sroot)
skSetLayers(dirs[2], root=.sroot)
skSetLayers(dirs[length(dirs)], root=.sroot)
sapply(dirs, function(x) skSetLayers(x))
if(interactive()) setwd(oldwd)
getwd()
## End(Not run)
```

28 skSetOption

skSetOption

Sets seekr option according to the type.

Description

Sets seekr option according to the type.

Usage

```
skSetOption(type, id)
```

Arguments

type Components name (e.g. 'people', 'projects', ...).

id Character string with the identifier of the component (id part).

Value

A list with the set option or NA if the type is not registered.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

```
skFindTitle
```

```
## Not run:
skSetOption("people",111)
skSetOption("myid", 368)
skOptions()
skSetOption("bla",1) # can not be set
# Set option sk.aid
skSetOption("assay",1234)
skOptions()
# Delete/reset option sk.aid
skSetOption("assay",NULL)
skOptions()
Get options
skGetOption("myid")
skGetOption("myid")
## End(Not run)
```

skSkeleton 29

skSkeleton

Create *sk* skeleton.

Description

Creates *sk* object with required structure.

Usage

```
skSkeleton(type = "assay")
```

Arguments

type

Component type (e.g. 'people', 'projects', ...). a list with minimal information (Title, Description, *ToDo: add fields*).

Value

A list with the minimal information structure.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

skCreate

```
## Not run:
require(jsonlite)
type <- "projects"</pre>
sp <- skSkeleton( type = type )</pre>
type = "investigations"
si <- skSkeleton( type = type )</pre>
str(si)
type = "studies"
ss \leftarrow skSkeleton(type = type)
str(ss)
type = "assays"
sa <- skSkeleton( type = type )</pre>
str(sa)
type = "data_files"
sdata <- skSkeleton( type = type )</pre>
str(sdata)
## End(Not run)
```

30 skUpload

skUpload

Upload file.

Description

Upload file to a created object of type 'documents' or 'data_files'.

Usage

```
skUpload(object, file)
```

Arguments

object A previously created SEEK component. Must be one of 'documents' or 'data_files'.

file File name with path, relative to layer.

Value

FAIRDOMhub created component.

Note

Upon success (status code 200) details of newly created component can be used. Check status code.

Author(s)

```
Andrej Blejec <andrej.blejec@nib.si>
```

See Also

skCreate

```
## Not run:
file <- dir()[1]
file
fhd <- skCreate("documents",meta,file=file)
fhd
sd <- skUpload(fhd, file)
## End(Not run)</pre>
```

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