Package 'picsure'

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Type Package

Title Simplified R library to connect to PIC-SURE network

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Description Non-RS6 library that is used to connect to a PIC-SURE
network and access various resources (such as HPDS).

License GPL (>= 3)

Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

Depends R (>= 3.1.0)

Imports R6, jsonlite, httr, stringr

R topics documented:

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connect   *Create a connection to a PIC-SURE network.*

Description

Create a connection to a PIC-SURE network.

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Usage

```
connect(url, token, verbose = FALSE)
```

Arguments

url	The url of the PIC-SURE endpoint.
token	A security token to access the endpoint.
verbose	(optional) set to TRUE to get debugging output

Examples

```
#  myconn = picsure::connect(url="http://your.pic-sure.server/PIC-SURE/", token="your-security-token")
```

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list.resources   *Get a list of resource UUIDs for the passed PIC-SURE connection.*

Description

Get a list of resource UUIDs for the passed PIC-SURE connection.

Usage

```
list.resources(connection, verbose = FALSE)
```

Arguments

connection	An established PIC-SURE connection object.
verbose	(optional) set to TRUE to get debugging output

Examples

```
#  myconn = picsure::connect(url="http://your.pic-sure.server/PIC-SURE/", token="your-security-token")
#   picsure::list.resources(myconn)
```

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picsure   *picsure: A Client Library for PIC-SURE Networks.*

Description

This package is used to connect to a PIC-SURE network and provide connection services required by all resource-specific libraries/packages.

PicSureClient   *R6 class used to establish connections to a PIC-SURE network.*

Description

R6 class used to establish connections to a PIC-SURE network.

Usage

```
PicSureClient
```

Format

PicSureClient object.

Value

Object of R6Class with methods for connecting to PIC-SURE network.

Methods

Documentation For full documentation of each method go to https://github.com/hms-dbmi/pic-sure-r-client

new() This method is used to create object of this class.

version() This method prints the current package version.

connect(url, token) This method returns a new `PicSureConnection` object configured to connect to a PIC-SURE Network at the given `url` and using the provided `token` for security.

PicSureConnection   *R6 class that represents an establish connection to a PIC-SURE network.*

Description

R6 class that represents an establish connection to a PIC-SURE network.

Usage

```
PicSureConnection
```

Format

PicSureConnection object.

Value

Object of R6Class with methods for connecting to PIC-SURE network.

Methods

 Documentation For full documentation of each method go to https://github.com/hms-dbmi/pic-sure-r-client

 new(url, token) This method is used to create object of this class.

 about(resourceId = FALSE) This method...

 list() This method...

 getInfo() This method...

 getResources() This method...

 INTERNAL_api_obj(url, token) This is an internal method used to retreve a `PicSureConnectionAPI` object which handles all communication/authentication with the PIC-SURE Network for a Resource-level package.

 PicSureConnectionAPI *R6 class used by other Resource-oriented packages to communicate in*
           a standard way with a Resource hosted on a PIC-SURE network.

Description

R6 class used by other Resource-oriented packages to communicate in a standard way with a Resource hosted on a PIC-SURE network.

Usage

 PicSureConnectionAPI

Format

 [PicSureConnectionAPI](#) object.

Value

 Object of [R6Class](#) with methods for connecting to PIC-SURE network.

Methods

 Documentation For full documentation of each method go to https://github.com/hms-dbmi/pic-sure-r-client

 new(url, token) This method is used to create object of this class.

 info(resource_uuid) This method is used by other packages...

 search(resource_uuid, query) This method is used by other packages...

 asynchQuery(resource_uuid, query) This method is used by other packages...

 synchQuery(resource_uuid, query) This method is used by other packages...

 queryStatus(resource_uuid, query_uuid) This method is used by other packages...

 queryResult(resource_uuid, query_uuid) This method is used by other packages...

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resource.details   *Get the details of a PIC-SURE resource.*

Description

Get the details of a PIC-SURE resource.

Usage

```
resource.details(connection, resourceUUID, verbose = FALSE)
```

Arguments

connection	A PIC-SURE connection object.
resourceUUID	The UUID identity of a Resource hosted via the PIC-SURE connection.
verbose	(optional) set to TRUE to get debugging output

Value

A string containing details of the requested Resource.

Examples

```
#  myconn = picsure::connect(url="http://your.pic-sure.server/PIC-SURE/", token="your-security-token")
#   resources = picsure::list.resources(myconn)
#   picsure::resource.details(connection=myconn, resources[0])
```

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