Package 'pumilioR'

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Title Pumilio in R

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Description R package to query and get data out of a Pumilio sound archive system (http://ljvillanueva.github.io/pumilio/).

Depends R(>= 2.14.0), XML, RCurl

Suggests knitr

License GPL-3

URL <http://ljvillanueva.github.io/pumilioR/>

BugReports <https://github.com/ljvillanueva/pumilioR/issues>

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

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R topics documented:

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checkVersion   *Get Pumilio Version*

Description

Function to find if the version of the Pumilio system can work with this package. Version 2.6.0, or newer, of Pumilio is required and if the system allows querying.

Usage

```
checkVersion(pumilio_URL, credentials = NA, pumiliologin = NA)
```

Arguments

pumilio_URL	URL of the Pumilio installation, with trailing slash. For example: "http://server.com/pumilio/"
credentials	username and password, separated with a colon, for websites that require basic Apache webserver authentication
pumiliologin	username and password, separated with a colon, for Pumilio systems that require a valid user

Value

Returns a boolean if the Pumilio version matches the requirement.

Examples

```
## Not run:
access <- checkVersion(pumilio_URL = "http://pumilio.coquipr.com/pumilio/")

access

## End(Not run)
```

---

getCollections   *Get Collections from Pumilio*

Description

Function to get the collections with sounds from Pumilio.

Usage

```
getCollections(pumilio_URL, credentials = NA, pumiliologin = NA)
```

Arguments

pumilio_URL	URL of the Pumilio installation, with trailing slash. For example: "http://server.com/pumilio/"
credentials	username and password, separated with a colon, for websites that require basic Apache webserver authentication
pumiliologin	username and password, separated with a colon, for Pumilio systems that require a valid user

Value

Returns a data frame with the collections data.

ColID	ID of the collection
CollectionName	name of the collection
Author	author of the collection
FilesSource	source of the collection
CollectionFullCitation	
	full citation to use for this collection
URL	web page for more details of this collection
notes	notes of the collection

Examples

```
## Not run:
cols <- getCollections(pumilio_URL = "http://pumilio.coquipr.com/pumilio/")
cols[1,]

## End(Not run)
```

---

getFile	*Download a sound file from Pumilio*

Description

Function to download one sound file, specified with SoundID, to the working directory from the result of a query using getSounds.

Usage

```
getFile(result, SoundID = NA, credentials = NA)
```

Arguments

result	the result of the function getSounds
SoundID	ID of a valid record, obtained using getSounds
credentials	username and password, separated with a colon, for websites that require basic Apache webserver authentication

Value

Returns the filename.

Examples

```
## Not run:
#First, get a list of results
results <- getSounds(pumilio_URL = "http://pumilio.coquipr.com/pumilio/",
SiteID = 111, type = "site")

#Then, get the file from the first row, identified with the SoundID = 4078
getFile(results, SoundID = 4078)

## End(Not run)
```

---

getSites   *Get Sites from Pumilio*

Description

Function to get the sites with sounds from Pumilio.

Usage

```
getSites(pumilio_URL, credentials = NA, pumiliologin = NA)
```

Arguments

pumilio_URL	URL of the Pumilio installation, with trailing slash. For example: "http://server.com/pumilio/"
credentials	username and password, separated with a colon, for websites that require basic Apache webserver authentication
pumiliologin	username and password, separated with a colon, for Pumilio systems that require a valid user

Value

Returns a data frame with the sites data.

SiteID	ID of the site
SiteName	name of the site
latitude	latitude of the site, in decimal degrees
longitude	longitude of the site, in decimal degrees
elevation	elevation of the site, in meters above sea level
notes	notes of the site

Examples

```
## Not run:
sites <- getSites(pumilio_URL = "http://pumilio.coquipr.com/pumilio/")
sites[1,]

## End(Not run)
```

---

getSounds   *Get Sounds from Pumilio*

Description

Function to get the data from sounds that match the search query.

Usage

```
getSounds(pumilio_URL, SiteID=NA, ColID=NA, type="all",
credentials = NA, pumiliologin = NA)
```

Arguments

pumilio_URL	URL of the Pumilio installation, with trailing slash. For example: "http://server.com/pumilio/"
SiteID	ID of a valid site, obtained using `getSites`
ColID	ID of a valid collection, obtained using `getCollections`
type	type of query to run: "all" to get all sounds in the archive; "site" for the site specified with `SiteID`; "col" for the collection specified with `ColID`; "both" for sounds that match both the site specified with `SiteID` and the collection specified with `ColID`.
credentials	username and password, separated with a colon, for websites that require basic Apache webserver authentication
pumiliologin	username and password, separated with a colon, for Pumilio systems that require a valid user

Value

Returns a data frame with the sound data.

SoundID	ID of the soundfile in the database
ColID	ID of the collection in which this file is archived in
SiteID OriginalFilename	ID of the site where this sound was recorded
	filename of the soundfile
SoundName	filename of the soundfile, usually `OriginalFilename` without the extension
day	day part of the date when it was recorded

month	month part of the date when it was recorded
year	year part of the date when it was recorded
hour	hour part of the date when it was recorded
minutes	minutes part of the date when it was recorded
seconds	seconds part of the date when it was recorded
SamplingRate	sampling rate used to record the soundfile, in Hz
BitRate	bitrate of the file, in bits
Channels	number of channels
Duration	duration of the soundfile, in seconds
SoundFormat	format of the file
SensorID	ID of the sensor used to record the soundfile
Notes	notes of the soundfile
timestamp	date and time stamp when the soundfile was added to the archive
FileSize	file size of the soundfile, in bytes
FilePath	URL of the soundfile
AudioPreviewFormat	
	format of the preview file, usually mp3
AudioPreviewFilename	
	filename of the preview file
AudioPreviewFilePath	
	URL of the preview file

Examples

```
## Not run:
sounds <- getSounds(pumilio_URL="http://pumilio.coquipr.com/pumilio/",
SiteID=111, type="site")
sounds[1,]

## End(Not run)
```

---

pumilioR	*pumilioR*

Description

Functions to get data from a Pumilio sound archive system (http://ljvillanueva.github.io/pumilio/). Requires version 2.6.0, or newer, of Pumilio installed and XML turned on in the Admin menu.

Details

Package:	pumilioR
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License:	GPLv3

Author(s)

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