Package: spud (via r-universe)

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Title Sharepoint upload & download

Version 0.1.7

Description Enables uploading, downloading and listing of files in sharepoint.

Depends R (>= 3.5.0)

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Encoding UTF-8

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`sharepoint` *Create sharepoint connection for downloading data.*

Description

Create sharepoint connection for downloading data.

Create sharepoint connection for downloading data.

Public fields

`client` A low-level sharepoint client object, which can be used to interact directly with the sharepoint API. This object mostly handles authentication, etc.

Methods

Public methods:

- `sharepoint$new()`
- `sharepoint$download()`
- `sharepoint$folder()`

Method `new()`**:** Create sharepoint object for downloading data from sharepoint

Usage:

```
sharepoint$new(sharepoint_url, auth = NULL)
```

Arguments:

`sharepoint_url` Root URL of sharepoint site to download from

`auth` Authentication data passed to the client

Returns: A new `sharepoint` object

Method `download()`**:** Download data from sharepoint

Usage:

```
sharepoint$download(
  sharepoint_path,
  dest = NULL,
  progress = FALSE,
  overwrite = FALSE
)
```

Arguments:

`sharepoint_path` Path to the resource within sharepoint

`dest` Path to save downloaded data to

`progress` Display a progress bar during download?

`overwrite` Overwrite existing files?

Returns: Path to saved data

Method `folder()`**:** Create a `folder` object representing a sharepoint folder, with which one can list, download and upload files. See `sharepoint_folder` for more details.

Usage:

```
sharepoint$folder(site, path, verify = FALSE)
```

Arguments:

`site` The name of the sharepoint site (most likely a short string)

`path` Relative path within that shared site. It seems that "Shared Documents" is a common path that most likely represents a "Documents" collection when viewed in the sharepoint web interface.

`verify` Logical, indicating if the site/path combination is valid (slower but safer).

`sharepoint_download` *Download a dataset from sharepoint*

Description

Download a dataset from sharepoint

Usage

```
sharepoint_download(
  sharepoint_url,
  sharepoint_path,
  dest = NULL,
  progress = FALSE,
  overwrite = FALSE
)
```

Arguments

`sharepoint_url`	The base URL of sharepoint e.g. https://imperiallondon.sharepoint.com
`sharepoint_path`	The path to the dataset you want to download - this should include any subsites in the url and should be of the form sites/nested/subsites/docs/path/to/document e.g. if you want to get the file at Data/shape files/example.geojson from the site groupA which is in site facultyA the full path would be sites/facultyA/groupA/docs/Data/shape files/example.geojson You should be able to get this if you locate the data you want to download in a browser and click menu on the RHS of the file name which appears on hover -> Copy link and manually edit to get the file path. See vignette for more details.
`dest`	Path to location you want to save the data. The default save location is a tempfile with the same file extension as the downloaded file.
`progress`	If `TRUE` then HTTP requests will print a progress bar
`overwrite`	if `TRUE` then the `dest` will be ovewritten if it exists (otherwise it an error will be thrown)

Value

Path to downloaded data

`sharepoint_folder` *Interact with sharepoint folders and their files.*

Description

Interact with sharepoint folders and their files.

Interact with sharepoint folders and their files.

Public fields

`site` Name of the sharepoint site (readonly)

`path` Path of the folder (readonly)

Methods

Public methods:

- `sharepoint_folder$new()`
- `sharepoint_folder$files()`
- `sharepoint_folder$folders()`
- `sharepoint_folder$list()`
- `sharepoint_folder$delete()`
- `sharepoint_folder$parent()`
- `sharepoint_folder$folder()`
- `sharepoint_folder$create()`
- `sharepoint_folder$download()`
- `sharepoint_folder$upload()`

Method `new()`**:** Create sharepoint_folder object to enable listing, creating downloading and uploading files & folders

Usage:

```
sharepoint_folder$new(client, site, path, verify = FALSE)
```

Arguments:

`client` A low-level sharepoint client object, which can be used to interact directly with the sharepoint API.

`site` The name of the sharepoint site (most likely a short string)

`path` Relative path within that shared site. It seems that "Shared Documents" is a common path that most likely represents a "Documents" collection when viewed in the sharepoint web interface.

`verify` Logical, indicating if the site/path combination is valid (slower but safer).

Method `files()`**:** List all files within the folder

Usage:

```
sharepoint_folder$files(path = NULL)
```

Arguments:

`path` Folder relative to this folder, uses this folder if NULL

Method `folders()`**:** List all folders within the folder

Usage:

```
sharepoint_folder$folders(path = NULL)
```

Arguments:

`path` Folder relative to this folder, uses this folder if NULL

Method `list()`**:** List all folders and files within the folder; this is a convenience wrapper around the `files` and `folders` methods.

Usage:

```
sharepoint_folder$list(path = NULL)
```

Arguments:

`path` Folder relative to this folder, uses this folder if NULL

Method `delete()`**:** Delete a folder. Be extremely careful as you could use this to delete an entire sharepoint. Deleted files are sent to the recycle bin, so can be restored with relative ease, but it will still be alarming. There is a mechanism to prevent accidental deletion by declaring a file that exists within the folder.

Usage:

```
sharepoint_folder$delete(path, check)
```

Arguments:

`path` The path to delete. Use `NULL` to delete the current folder.

`check` A file (not folder) that exists directly within `path`, used as a method to verify that you really do want to delete this folder (to prevent things like accidental deletion of the entire sharepoint, for example).

Method `parent()`**:** Create an object referring to the parent folder

Usage:

```
sharepoint_folder$parent(verify = FALSE)
```

Arguments:

`verify` Verify that the folder exists (which it must really here)

Method `folder()`**:** Create an object referring to a child folder

Usage:

```
sharepoint_folder$folder(path, verify = FALSE)
```

Arguments:

`path` The name of the folder, relative to this folder

`verify` Verify that the folder exists (which it must really here)

Method `create()`**:** Create a folder on sharepoint

Usage:

```
sharepoint_folder$create(path)
```

Arguments:

`path` Folder relative to this folder

Method `download()`**:** Download a file from a folder

Usage:

```
sharepoint_folder$download(
  path,
  dest = NULL,
  progress = FALSE,
  overwrite = FALSE
)
```

Arguments:

`path` The name of the path to download, relative to this folder

`dest` Path to save downloaded data to. If `NULL` then a temporary file with the same file extension as `path` is used. If coderaw() (or any other raw value) then the raw bytes will be returned.

`progress` Display httr's progress bar?

`overwrite` Overwrite the file if it exists?

Method `upload()`**:** Upload a file into a folder

Usage:

```
sharepoint_folder$upload(path, dest = NULL, progress = FALSE)
```

Arguments:

`path` The name of the path to upload, absolute, or relative to R's working directory.

`dest` Remote path save downloaded data to, relative to this folder. If `NULL` then the basename of the file is used.

`progress` Display httr's progress bar?

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