Package 'labstepR'

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Description Convenient wrapper functions around the Labstep API. Document your experiments, attach files, comments and more.
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2 attachFile

a thread on Labstep	Adds a comment	addComment
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Description

This function allows you to comment on different content types

Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

commande

object The labstep object you want to comment on. Can be 'protocol', 'experiment' or

'resource'

body The body of the comment in plain text.

Value

Returns a 'comment' object

Examples

```
user <- login("demo@labstep.com","demopassword")
expName = 'My First Experiment'
expDesc = 'An experiment testing the labstepR library'
experiment <- createExperiment(user,expName,expDesc)
commentBody = 'An experiment testing the labstepR library'
comment <- addComment(user,experiment,commentBody)
print(comment)</pre>
```

attachFile

Attaches a file to a thread on Labstep

Description

This function allows you to attach a file to different content types

Usage

```
attachFile(user, object, filepath, caption)
```

Arguments

user	A labstep user object.	Must contain an 'api_key' field	. Returned from 'login'
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command

object The labstep object you want to comment on. Can be 'protocol', 'experiment' or

'resource'

filepath The path to ther file to attach.

caption A caption describing your file (optional)

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Value

Returns a 'comment' object with the file attached

Examples

```
user <- login("demo@labstep.com","demopassword")
expName = 'My First Experiment'
expDesc = 'An experiment testing the labstepR library'
experiment <- createExperiment(user,expName,expDesc)
filepath = 'mydata.RData'
save.image(filepath)
caption = 'The R workspace after running this script'
file <- attachFile(user,experiment,filepath,caption)
print(file)</pre>
```

attachProtocol

Attach a Protocol to an Experiment on Labstep

Description

This function allows you to attach a Protocol to an existing Experiment.

Usage

```
attachProtocol(user, experiment, protocol)
```

Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command

experiment The experiment you want to attach the protocol to. Must have at least an 'id'

field.

protocol The protocol you want to attach. Must have at least an 'id' field

Value

Returns an 'experiment' object

Examples

```
user <- login("demo@labstep.com","demopassword")
expName = 'My First Experiment'
expDesc = 'An experiment testing the labstepR library'
experiment <- createExperiment(user,expName,expDesc)
protocol <- createProtocol(user,'My First Protocol')
experiment <- attachProtocol(user,experiment,protocol)
print(experiment)</pre>
```

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createExperiment Create an Experiment on Labstep
--

Description

This function allows you to create an experiment card.

Usage

```
createExperiment(user, name, description = NULL, protocolIds = NULL)
```

Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command

name The name you want to give your experiment.

description Give your experiment a description to help you remember what it was about.

protocolIds List of ids for protocols to attach to the experiment.

Value

Returns an 'experiment' object

Examples

```
user <- login("demo@labstep.com","demopassword")
expName = 'My First Experiment'
expDesc = 'An experiment testing the labstepR library'
experiment <- createExperiment(user,expName,expDesc)
print(experiment)</pre>
```

createProject

Create a Project on Labstep

Description

This function allows you to create a Labstep Project.

Usage

```
createProject(user, name)
```

Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command

name The name you want to give your Project.

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Value

Returns an 'project' object

Examples

```
user <- login("demo@labstep.com","demopassword")
project <- createProject(user,'My First Project')
print(project)</pre>
```

createProtocol

Create a Protocol on Labstep

Description

This function allows you to create a protocol.

Usage

```
createProtocol(user, name)
```

Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command

name The name you want to give your protocol.

Value

Returns an 'protocol' object

Examples

```
user <- login("demo@labstep.com","demopassword")
protocol <- createProtocol(user,'My First Protocol')
print(protocol)</pre>
```

createResource

Create a Resource on Labstep

Description

This function allows you to create a resource on Labstep.

Usage

```
createResource(user, name)
```

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Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command.

name The name you want to give your resource

Value

Returns a 'resource' object

Examples

```
user <- login("demo@labstep.com","demopassword")
resource <- createResource(user,'My First Resource')
print(resource)</pre>
```

getExperiment

Get Experiment

Description

This function allows you to retrieve metadata for a single experiment

Usage

```
getExperiment(user, id)
```

Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command

id ID of the experiment to retrieve

Value

Returns an 'experiment' object

Examples

```
user <- login("demo@labstep.com","demopassword")
experiment <- getExperiment(user,123)
print(experiment)</pre>
```

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Description

This function allows you to search your Experiments on Labstep.

Usage

```
getExperiments(user, count = 100)
```

Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command

count Number of results to return. Defaults to 100.

Value

Returns a list of 'experiment' objects

Examples

```
user <- login("demo@labstep.com","demopassword")
experiments <- getExperiments(user)
print(experiments)</pre>
```

getProject Get Project

Description

This function allows you to retrieve metadata for a single project

Usage

```
getProject(user, id)
```

Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command

id ID of the project to retrieve

Value

Returns a 'project' object

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Examples

```
user <- login("demo@labstep.com","demopassword")
project <- getProject(user,123)
print(project)</pre>
```

getProtocol

Get Protocol

Description

This function allows you to retrieve metadata for a single protocol

Usage

```
getProtocol(user, id)
```

Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command

id ID of the protocol to retrieve

Value

Returns a 'protocol' object

Examples

```
user <- login("demo@labstep.com","demopassword")
protocol <- getProtocol(user,123)
print(protocol)</pre>
```

getProtocols

Get Protocols

Description

This function allows you to search your Protocol library on Labstep.

Usage

```
getProtocols(user, count = 100)
```

Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command

count Number of results to return. Defaults to 100.

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Value

Returns a list of 'protocol' objects

Examples

```
user <- login("demo@labstep.com","demopassword")
protocols <- getProtocols(user)
print(protocols)</pre>
```

getResource

Get Resource

Description

This function allows you to retrieve metadata for a single resource

Usage

```
getResource(user, id)
```

Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command

id ID of the resource to retrieve

Value

Returns a 'resource' object

Examples

```
user <- login("demo@labstep.com","demopassword")
resource <- getResource(user,123)
print(resource)</pre>
```

getResources

Get Resources

Description

This function allows you to search your Resource library on Labstep.

Usage

```
getResources(user, count = 100)
```

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Arguments

user A labstep user object. Must contain an 'api_key' field. Returned from 'login'

command

count Number of results to return. Defaults to 100.

Value

Returns a list of 'resource' objects

Examples

```
user <- login("demo@labstep.com","demopassword")
resources <- getResources(user)
print(resources)</pre>
```

login

Authenticate a Labstep user

Description

This function allows you to retrieve the user details for your Labstep account. It also returns your unique API key which you need to use the other Labstep API functions.

Usage

```
login(username, password)
```

Arguments

username Your Labstep username (usually the email address you signed up with)

password Your Labstep password

Value

Returns a 'user' object.

Examples

```
user <- login("demo@labstep.com","demopassword")
print(user)</pre>
```

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