slims_lisp

Laboratory of Integrative System Physiology (LISP) at EPFL

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DOCUMENTATION

1.1 slims_lisp.slims CLI

1.1.1 slims-lisp

A high-level CLI for SLIMS REST API

```
slims-lisp [OPTIONS] COMMAND [ARGS]...
```

eln

CLI for the Electronic Lab Notebook (ELN)

```
slims-lisp eln [OPTIONS] COMMAND [ARGS]...
```

add-attachment

Upload a file to a an existing ELN experiment attachment step.

Return:

Returns the HTTP POST request response.

Example:

$ slims-lisp eln add-attachment –url <your_slims_url> –proj <your_project_name> –exp <your_experiment_name> –step <your_attachment_step_name> –file <path/to/your/file>

```
slims-lisp eln add-attachment [OPTIONS]
```

Options

--url <url>
SLIMS REST URL. ex: https://<your_slims_address>/rest/rest [required]

--proj <proj>
Project name (if any).

--exp <exp>
Experiment name. [required]

--step <step>
Experiment step name. [default: results; required]

--active <active>
Search only in active or inactive steps (or in both). [default: true]

Options true|false|both

--file <file>
Path to the file that will be uploaded. [required]

--attm <attm>
A name to give to the attachement that will be created. [default: same as –file]

-v, --verbose
Print various messages.

-u, --username <username>
SLIMS user name. [required]

-p, --pwd <pwd>
SLIMS password. [required]

add-dataset

Create a new ELN experiment attachment step and upload multiple files to it (useful to upload a whole dataset containing multiple data and/or metadata files at once).

Return:

Returns HTTP POST requests responses in a dictionary.

Example:

$ slims-lisp eln add-dataset –url <your_slims_url> –proj <your_project_name> –exp <your_experiment_name> –files <file1>,<file2>,<file3> –title <your_dataset_name>

```
slims-lisp eln add-dataset [OPTIONS]
```

Options

--url <url>
SLIMS REST URL. ex: https://<your_slims_address>/rest/rest [required]

--proj <proj>
Project name (if any).

--exp <exp>
Experiment name. [required]

--files <files>
Comma-delimited paths to the files that will be uploaded. [required]

--title <title>
The title of the attachment block that will be created for the dataset in SLIMS. [default: dataset_<ISO 8601 timestamp>]

-v, --verbose
Print various messages.

-u, --username <username>
SLIMS user name. [required]

-p, --pwd <pwd>
SLIMS password. [required]

fetch-attachment

Download a file from an ELN experiment attachment step.

Return:

Returns the HTTP GET request response.

Output:

Generates two files (by default in the working directory):

-<output_dir>/<attm> The requested file

-<output_dir>/<attm>_metadata.txt Associated metadata in a JSON format

Example:

$ slims-lisp eln fetch-attachment –url <your_slims_url> –proj <your_project_name> –exp <your_experiment_name> –step <your_attachment_step_name> –attm <your_attachment_name>

```
slims-lisp eln fetch-attachment [OPTIONS]
```

Options

--url <url>
SLIMS REST URL (ex: https://<your_slims_address>/rest/rest). [required]

--proj <proj>
Project name (if any).

--exp <exp>
Experiment name. [required]

--step <step>
Experiment step name. [default: data_collection; required]

--active <active>
Search only in active or inactive steps (or in both). [default: true]

Options true|false|both

--attm <attm>
Attachment name. [required]

--linked <linked>
Search only linked or unlinked attachments (or both). [default: true]

Options true|false|both

--output_dir <output_dir>
Output directory [default: working directory].

-v, --verbose
Print various messages.

-u, --username <username>
SLIMS user name. [required]

-p, --pwd <pwd>
SLIMS password. [required]

1.2 slims_lisp.slims module

class slims_lisp.slims.**Eln**(*url*, *username*, *pwd*)
Bases: *slims_lisp.slims.Slims*

create_attachment_step(*proj*, *exp*, *title*, *verbose*)
Create a new attachment step in an experiment.

download_attachment(*proj*, *exp*, *step*, *active*, *attm*, *linked*, *output_dir*, *verbose*)
Download a file from a SLIMS experiment attachment step.

get_attachment(*linked*, ***kwargs*)

get_attachment_link(***kwargs*)

get_experiment(***kwargs*)

get_experiment_step(*active*, ***kwargs*)

get_project(***kwargs*)

upload_attachment(*proj*, *exp*, *step*, *active*, *file*, *attm*, *verbose*)
Upload a file to a an existing SLIMS experiment attachment step.

class `slims_lisp.slims.`**`Slims`**(*url*, *username*, *pwd*)

Bases: `object`

`get`(*table*, ***kwargs*)

`post`(*table*, ***kwargs*)

1.3 SLIMS requirements

- SLIMS version: >=6.1

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