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User guide for the repository IO-TEMPLATE-LIB

IO-TEMPLATE-LIB is a template repository for creating Python libraries. This document describes how to use this repository to create a new repository. In the following instructions, we assume that the new repository should be named my-lib and the library to be created with it should be named my-lib.

I. Requirements

Regarding operating system, Ubuntu version 20.04 and above and Windows version 10 and above are supported. An existing Python 3 installation is required. Furthermore, the use of an IDE or a text editor that can replace texts across files is useful.

II. Repository creation

1. Create the new repository my-lib

As described here, the new repository my-lib must first be created. The creation of a very minimal basic version is sufficient, i.e. the only necessary parameter is the repository name.

- 2. Copy the repository io-template-lib
 - Open Git Bash
 - Create a bare clone of the repository.
 git clone --bare https://github.com/io-aero/io-template-lib
 - Mirror-push to the new repository
 cd io-template-lib.git git push --mirror https://github.com/io-aero/my-lib
 - Remove the temporary local repository you created earlier
 cd .. rm -rf io-template-lib.git
- 3. Create a local copy of the new repositoy my-lib

```
git clone https://github.com/io-aero/my-lib
```

4. Delete the two files with the User's Guide

```
`user_guide.md`
`user_guide.pdf`
```

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5. Rename the following file directories and files

Old name	New name
iotemplatelib	mylib
run_io_template_lib.bat	run_my_lib.bat
run_io_template_lib.sh	run_my_lib.sh
settings_io_template_lib.toml	settings_my_lib.toml

4. Replacing texts in the new repository my-lib

It is absolutely necessary to respect the capitalization!

Old text	New text
IO-TEMPLATE-LIB	MY-LIB
IO_TEMPLATE_LIB	MY_LIB
io-template-lib	my-lib
<pre>io_template_lib</pre>	my_lib
iotemplatelib	mylib

5. Store your AWS access rights in file ~/.aws/credentials

```
[default]
aws_access_key_id=...
aws_secret_access_key=...
```

6. Create the package index configuration file ~/.pypirc

```
[distutils]
index-servers =
    codeartifact
    pypi
    testpypi

[codeartifact]
repository = https://io-aero-444046118275.d.codeartifact.us-east-
1.amazonaws.com/pypi/io-aero-pypi/
    username = aws
    password = <password>

[pypi]
repository = https://upload.pypi.org/legacy/
```

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```
username = io-aero
password = <password>

[testpypi]
repository = https://test.pypi.org/legacy/
username = io-aero-test
password = <password>
```

7. Test the current state of the new library

```
make pipenv-dev
make-final
```

8. Commit and push all changes to the repository as 'Base version'