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# User guide for the repository IO-TEMPLATE-APP

**IO-TEMPLATE-APP** is a template repository for creating Python applications. 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-repo and the application to be created with it should be named myapp.

# 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-repo

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

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

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
iotemplateapp	туарр
run_io_template_app.bat	run_my_repo.bat
run_io_template_app.sh	run_my_repo.sh
settings_io_template_app.toml	settings_my_repo.toml

### 4. Replacing texts in the new repository my-repo

It is absolutely necessary to respect the capitalization!

Old text	New text
IO-TEMPLATE-APP	MY-REPO
IO_TEMPLATE_APP	MY_REPO
io-template-app	my-repo
<pre>io_template_app</pre>	my_repo
iotemplateapp	myrepo

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

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

6. Test the current state of the new application

#### 6.1 If Miniconda is required

- Install Miniconda
- Run make conda-dev
- Run make-final

#### 6.2 If Miniconda is not required

- Run make pipenv-dev
- Run make-final

#### 7. Define GitHub Actions secrets

Under 'settings' -> 'Secrets and variables' -> 'Actions' -> Tab 'Secrets' define the following 'New repository secret's:

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AWS\_ACCESS\_KEY\_ID
AWS\_SECRET\_ACCESS\_KEY
GLOBAL\_USER\_EMAIL

## 8. Define GitHub repository variables

Under 'settings' -> 'Secrets and variables' -> 'Actions' -> Tab 'Variables' define the following 'New repository variable's:

Name	Value	Reason
CONDA	true	To get Miniconda installed

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