

# 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-app 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-app

As described [here](#), the new repository my-app must first be created.

### 2. Create a local copy of the new repository my-app

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

### 3. Delete the two files with the User's Guide

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

### 4. Rename the following file directories and files

Old name	New name
iotemplateapp	myapp
run_io_template_app.bat	run_my_app.bat
run_io_template_app.sh	run_my_app.sh

### 5. Replacing texts in the new repository my-app

It is absolutely necessary to respect the capitalization!

Old text	New text
IO-TEMPLATE-APP	MY-APP
IO_TEMPLATE_APP	MY_APP

Old text	New text
<code>io-template-app</code>	<code>my-app</code>
<code>io_template_app</code>	<code>my_app</code>
<code>iotemplateapp</code>	<code>myapp</code>

## 6. Store your AWS access rights in file `~/.aws/credentials`

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

## 7. Test the current state of the new application

### 7.1 If Miniconda is required

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

### 7.2 If Miniconda is not required

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

## 8. Define GitHub Actions secrets

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

```
AWS_ACCESS_KEY_ID
AWS_SECRET_ACCESS_KEY
GLOBAL_USER_EMAIL
```

## 9. Define GitHub repository variables

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

Name	Value	Reason
<code>CONDA</code>	<code>true</code>	Include Miniconda
<code>COVERALLS</code>	<code>true</code>	Run coveralls.io

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