# Testing and documentation

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## 1 Getting and understanding the weather\_app code.

• Clone the repository https://github.com/simonpf/weather\_app, which provides an interface to the current SMHI weather forecast. The project folder contains the following subfolders and files:

- Have a look at the code in the weather\_app/api.py source flie. It should be sufficiently well documented to figure out how to use it.
- Use the weather\_app.api module to plot predicted temperature and precipitation.

# 2 Test driven development

• Install the pytest package using pip:

```
pip install pytest
```

- Run pytest on the tests in the test subfolder. You will see that one of the tests fail.
- Implement the required functionality to make the test pass.

### 3 Turning your code into a package

- Add the required files to turn you code into a package. Use weather\_app\_<your\_name>
  as the package name to avoid name clashes when uploading the package.
- Add the required non-standard library packages to the install\dependencies in the setup.py.
- Install your package locally using pip

## 4 Uploading your code into a package

- Build wheels for you package following the instruction from the lecture
- Create an account on test.pypi.org
- Upload your binary distribution package to the test.pypi index.

#### 5 Testing your package in a virtual environment

- Create a new folder, change into it and create a virtual environment
- Install your uploaded weather\_app package from PyPI. Note that you have to specify the index explicitly https://test.pypi.org
- Use your package to plot the temperature forecast for the next 24 hours.