Testing and documentation

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1 Updating your `weather_app` code.

- Update your clone of `https://github.com/simonpf/weather_app` repository that you used last lecture.

- The code has been updated and now contains a command-line application

- Make Python install the command-line application by adding the following lines to your `setup.py`:

```python
setuptools.setup(
    ...
    entry_points={
        "console_scripts": [
            "smhpy=weather_app.app:smhpy"
        ]
    }
    ...
)
```

  - Reinstall the package.
  - Test the installation by running `smhpy` from the command line.

2 Adding Sphinx documentation

- Install Sphinx

- Follow the instruction from the lecture (or course homepage) to initialize the Sphinx documentation.

- Add the pages `installtion.rst`, `usage.rst` and `api_reference.rst` and reference them from `index.rst`

- Build the HTML documentation

3 Including Python docstrings in the documentation

- Enable the `autodoc` and `napoleon` extensions

- Add a file `api_referenc/api.rst` and reference it from `api_reference.rst`

- Include the documentation from the `weather_app.api` module using the `automodule` directive.

4 Autmating unit tests

- Add a GitHub workflow to automate running unit tests to the repository

- Push the workflow to your personal fork of the repository

- Check the Actions tab on the GitHub page to make sure that workflows are running

- Add a badge for the workflow to your README.md