

Scientific Software Development with Python

Project requirements

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The project part comprises 4 mandatory presentations that will be given during and after the actual project work: **3 retrospectives**, focusing on the ongoing work, and **a final presentation**, presenting the project work as a whole. In addition to this, the projects should fulfill the following technical requirements:

1 Technical requirements

The final projects should fulfill the following technical requirements:

- Final project published as Python package on PyPI
- Installable via `pip`
- Automated test suite with high coverage ($> 90\%$)
- Automated deployment
- Online documentation hosted on GitHub or Read The Docs.

2 Presentations

2.1 Retrospectives

During the retrospectives each team will present their progress. Presentations will be limited to 10 minutes.

2.1.1 1st retrospective (~ Week 5)

- Background and motivation for project
- Related and similar software
- User stories defining the project scope
- Road map outlining the implementation
- How you plan to organize your work

2.1.2 2nd and 3rd retrospective (~ Week 10 and 14)

- Present current development snapshot
- Reflection on progress since first implementation
- Current state of the backlog
- What do you want to improve during next iteration?
- Encountered difficulties and lessons learned

2.2 Final presentation

Final presentations will be limited to a maximum of 20 minutes and consist of two parts.

1. Project presentation
 - Present final project results
 - Feature show case
 - General usage
2. Reflection
 - How did you organize your work?
 - What tools did you use?
 - How well did the collaboration work?
 - What went well what didn't?