

Topic: Best SE practices for heterogenous Java projects

- ▶ **Motivation:** The 101companies chrestomathy contains dozens of Java projects which differ in terms of Eclipse version they have been tested with, third-party software they rely on, project layout used in the file system, and yet other ways. Such diversity makes it hard to actually use, understand, and evolve these projects.
- ▶ **Objective:** The existing heterogeneity needs to be critically analyzed; best practices for such projects have to be derived from the analysis and put into place with a re-engineering effort. Ultimately, all projects should be buildable and testable from the command line and they must not contain any third-party software that can be reasonably downloaded by a pre-build step, e.g., based on Maven. This effort relates to build systems and software deployment as well as variability management. Related work on 'continuous integration' shall be leveraged.

This topic is preferably for a *Bachelor thesis*.