



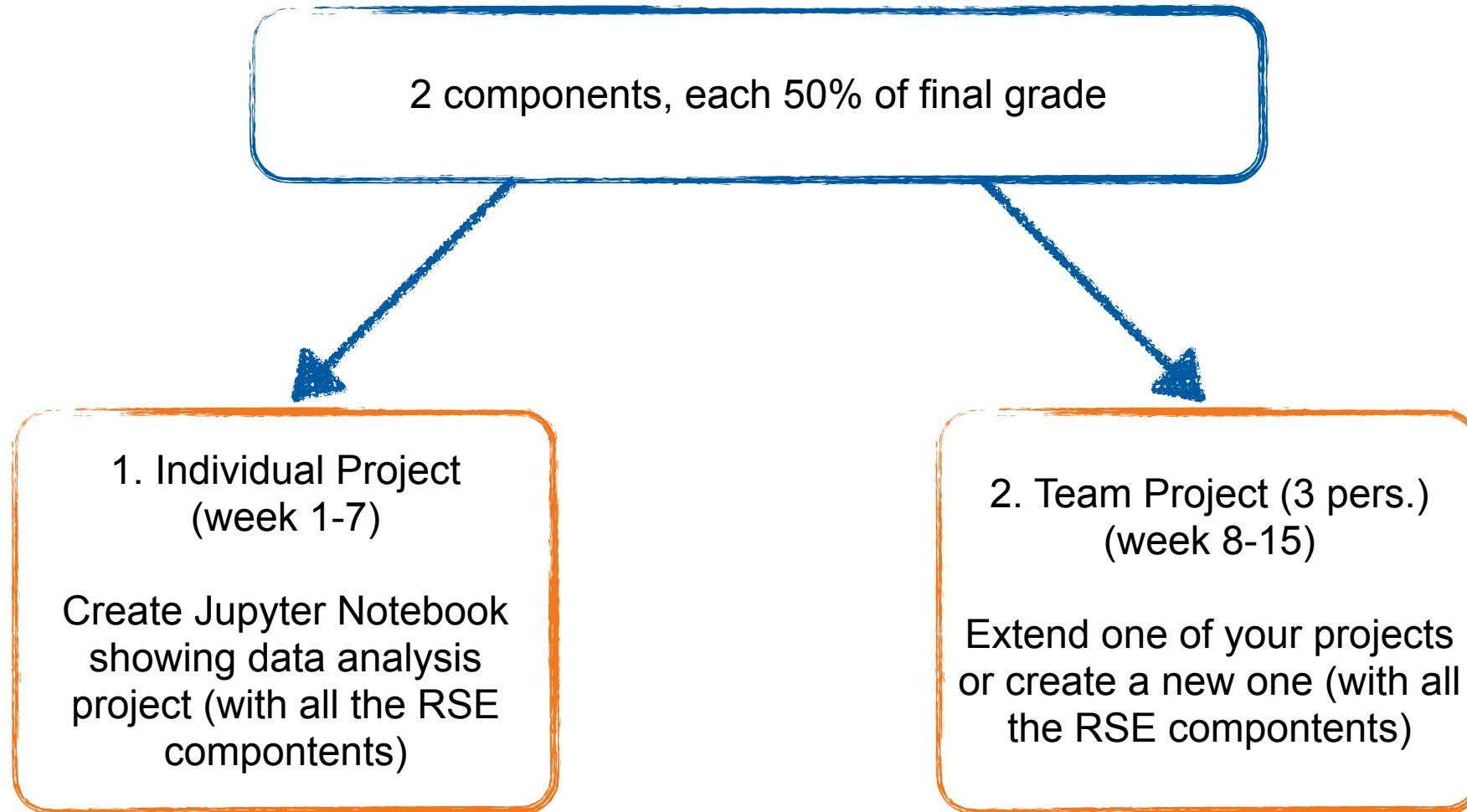
Introduction to Research Software Engineering

Practical Lab - Introduction

Department for Information Services and Computing | Computational Science Department | Fredo Erxleben, Katja Linnemann, Guido Juckeland

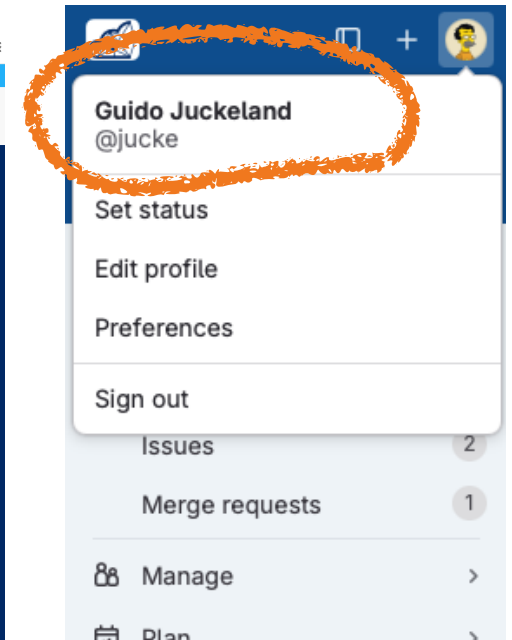
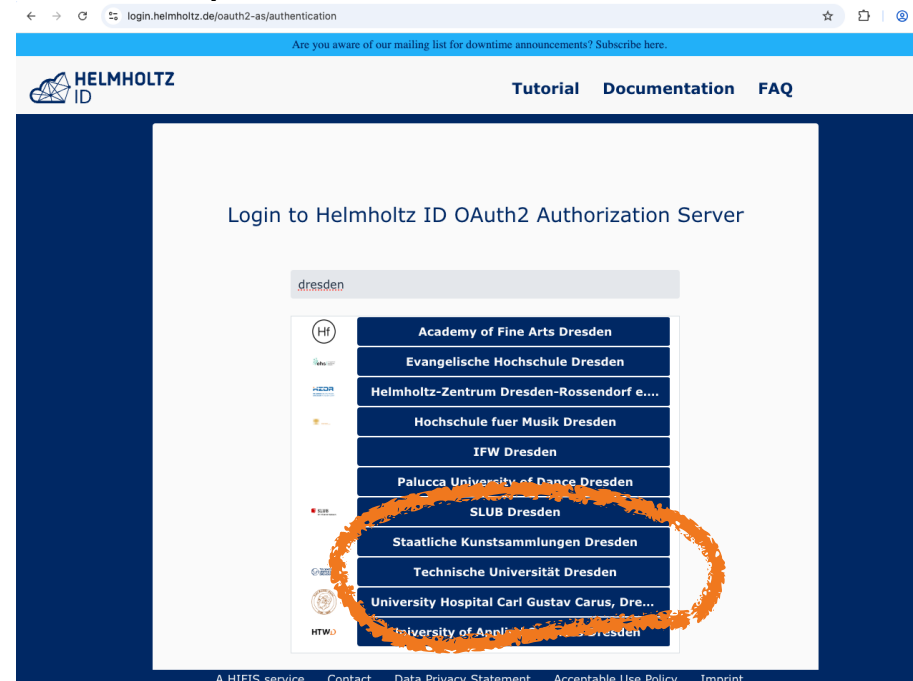
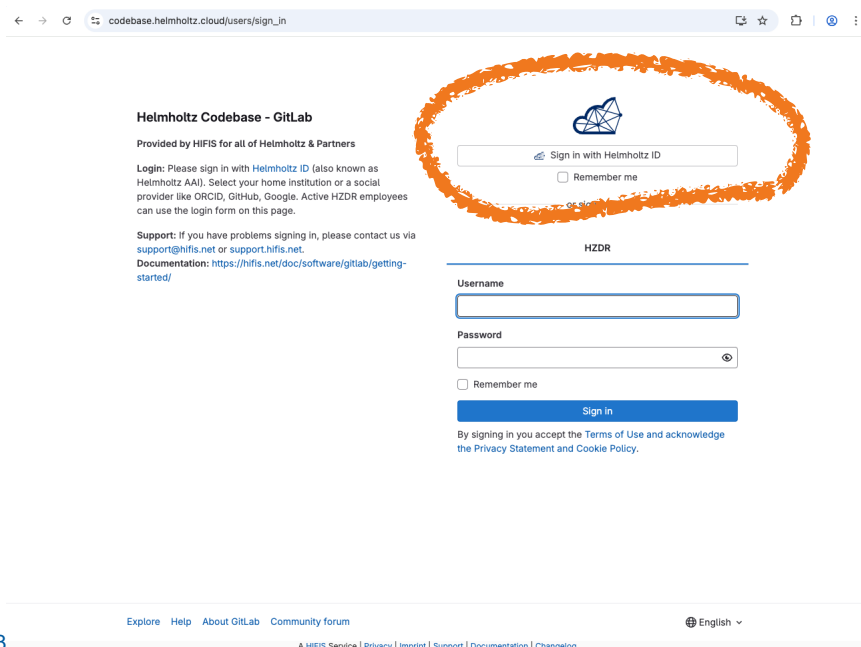


How will this practical lab work?



Housekeeping: Setting up the central infrastructure

- We need to know that you really want to participate in the lab. Please sign the attendance sheet or reach out to us to let us know. Otherwise, we will remove you from OPAL
- We will use the HZDR hosted GitLab instance that is part of the Helmholtz cloud at <https://codebase.helmholtz.cloud>
 - Please log in there using the "Helmholtz ID" and your TU Dresden login.
 - Enter your name and GitLab username in the pad for the course!



Projects

Individual project

- Create a Jupyter Notebook (from our template - shared next week) that shows the analysis of a data set
- Demonstrate that you know how to build well enough engineered analysis code in six subtasks
- Submission on May 19

Group project

- After May 26: Form teams of three students each
- Either extend one of your projects into a standalone python project or create a new one
- Demonstrate team workflows, add CI/CD/Testing, build tools, and make it a publication
- Submit your project on July 14
- Optional: Celebrate your project at our CodeFest during the last lecture/lab day