

Schlüsselkompetenzen (SKO)

Prof. Dr. Uwe Aßmann

Meeting Hour: Thu, 11-12:00

INF 2087

Register with katrin.heber@tu-dresden.de<http://st.inf.tu-dresden.de/teaching/sko>**Exercise Sheet No. 2**

Software Technology Group

Institute for Software and Multimedia Technology

Department of Computer Science

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Innovation Stories

Task 2.1: Registering in Gitlab Chemnitz

As a group collaboration platform we will use <https://gitlab.hrz.tu-chemnitz.de/>. Please login with your TUD-ZIH account. Be careful to choose, on the first screen, the right university login system ("Technische Universität Dresden") before your TUD-ZIH login screen appears. Do not forget to use the 2-factor login.

1a) Request access to the sko2425 group, by pressing "Request Access" under the three-dot button (see image). This will send an email to your docent to access you access to the projects.

1b) After you were granted access, work can begin.

- Go to the home group page of our course <https://gitlab.hrz.tu-chemnitz.de/sko2425\protect\1et\futurelet\@let@token>.
- Use the browser to find out which subprojects of the group exist.
- Go into the "information" subproject.
- Download the "information" subproject as your first git project. To this end, copy the URL under the button "Code". You can feed it on your shell into a git clone command:
`git clone git@gitlab.hrz.tu-chemnitz.de:sko2425/information.git`. Inspect the contents of the new directory.

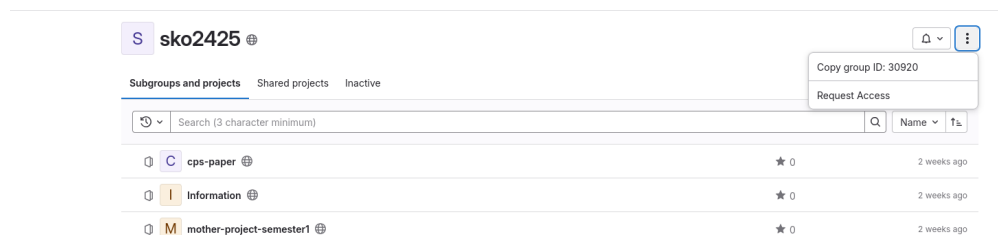


Figure 1: The screen of sko2425 in gitlab Chemnitz AFTER you got access to the course's group.

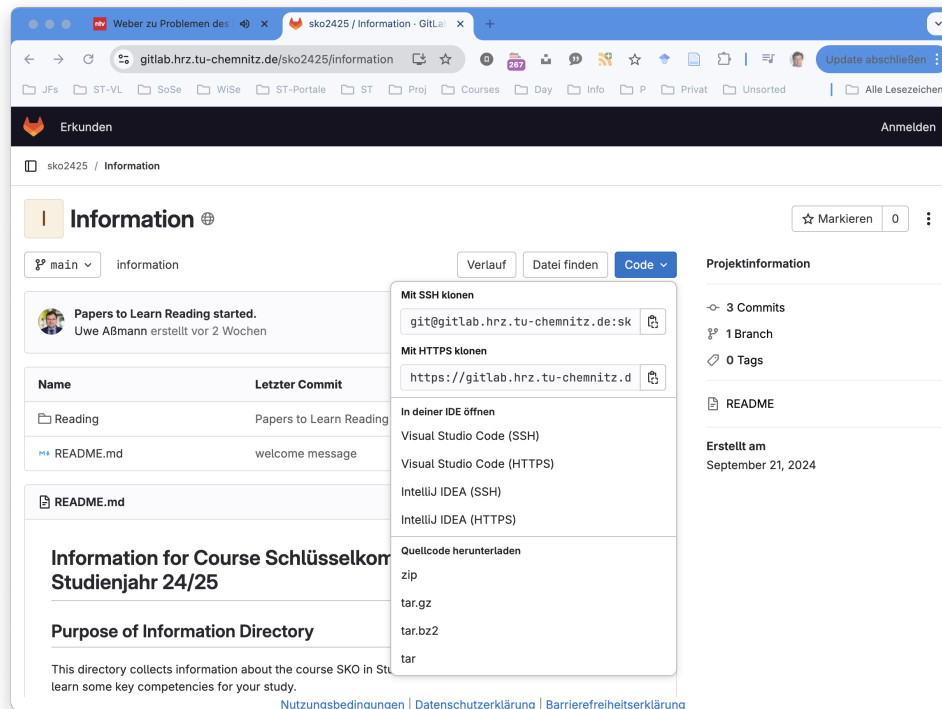


Figure 2: The screen of the information project in group sko2425 in gitlab Chemnitz, after pressing the Code button, with the opportunity to copy the git-id of the project.

Task 2.2: MRI Video Analysis

Watch the video of the MRI history from the Computer History Museum. <https://www.youtube.com/watch?v=AMAhVl8PUPQ&list=PLQsxaNhYv8dbXcFSqpuCtYALJ-XdLjTGw&index=4> and read https://en.wikipedia.org/wiki/History_of_magnetic_resonance_imaging.

- Summarize the video in 10 sentences in a markdown file `mri-video-analysis.md`. Use the PMI scheme of De Bono for structuring it.
- Write a remark about what you like about the history of MRI. Would it be satisfactory for you to develop future MRI software?

2a) Read the articles http://www.siemens.com/history/en/news/1204_magnetom.htm and <http://www.pro-physik.de/details/articlePdf/1492009/issue.html>. Which role did A. Ganssen and Siemens play in the development of MRI machines?

2b) Find out via web search how much money Siemens earns with MRI machines per year (Siemens Healthineers).

Task 2.3: Blogging about Startup Stories and Social Business

The book of Schäfer/Ternés "Startups international: Gründergeschichten rund um den Globus" is found under <https://link.springer.com/book/10.1007/978-3-658-21722-8>.

A student of any engineering science should know some of these stories, because start-up and product-launch are very similar processes in a company.

3a) Find out how to log into with your SLUB account. (If you do not yet have a SLUB account, get one. Because the SLUB shares several national licences with scientific publishers, the account is very important to download material for your studies.)

- Get an overview about the book. What are its main parts?
- Read the chapter Mit Computerkursen in ein besseres Leben - Oreoluwa Somolu Lesi, Gründerin von W.TEC. What are success factors of the company W.TEC?
- What distinguishes the business model of W.TEC from social business?
- Write a 5 sentence paragraph into your study blog.

3b) Read the chapter Mein Wegweiser zur Selbstständigkeit - Johannes Reck, Gründer von GetYourGuide.de. What are success factors of the company W.TEC?

- Try to find out about what GetYourGuide offers for the city you always wanted to travel to. What can you book?
- What distinguishes the business model of W.TEC from social business?
- Write a 5 sentence paragraph into your study blog.

3c) Investigate the following website with 7 interesting startups, e.g., Aravind.

<https://bmttoolbox.net/companies-stories/>.

- Which business idea do you like best?
- Why would you like to be in one of these companies?
- Write a 5 sentence paragraph into your study blog.