

Advanced Databases **Lab**

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„The way to your goal starts the day
you take over 100% responsibility for your actions.“

– Dante Alighieri

Lab Project

- Implement core of an individual web service
 - Guided
 - Teams of 2 – 4
- Topics? **suggest your own!**
- Self-organized team work
 - Guided by weekly assignments incrementing the project
 - Submission via repo, discussion in class
- Support: Teams Channel
 - S26_MDE-CS-04-B_Advanced Databases **Lab**

Where to Work

- VM to work with: <http://teaching.peter-baumann.org>
 - Ubuntu 24.04, ssh access, **git repo**, Web server
 - Will create your logins after drop/add ends; TAs will ask for your public key!
- Per team, git repository as central information turnpike
 - We pull from your repository account shortly after submission deadline
 - Your responsibility to have results there in time
 - Highly recommended: **use git always** – group comm, backup, ...

Assignment Timing

- Lab work to start **after drop/add period ends** = Feb 18
- Assignment sheets distributed every Mon evening
- Results to be returned latest next Mon midnight

Assignment Evaluation

- Develop wherever you want, but **final handover on a lab server!**
 - Support only for there – *you will want to do it there*
 - Assignment submissions exclusively on **git @ lab server** (you will get accounts)
- main evaluation criteria (no particular order):
 - complete wrt. requirements
 - engineering (bug-free, project & code documentation, coding quality, ...)
 - user-friendliness, professional look & feel
 - complexity (in absolute terms & in comparison to other teams' work)
 - own understanding (will inspect & discuss source code with you!)
 - *No AI used for code writing*
- No budget granted for TA → limited support

Small Intro to Interactive SQL Access

- Login to *clabsql*
- Launch mysql client: `mysql -u user -p`
- Pick database: `use dbws;`
- List tables: `show tables;`
- List table definition: `describe Sailors;`
- Send SQL query: `select * from Sailors;`

Web Pages

- On lab server, files in `~user/public_html/` are accessible via web server
- Example:
 - User `pbaumann`
 - File `/home/pbaumann/public_html/index.html`
 - Accessible via <http://teaching.peter-baumann.org/~pbaumann/index.html>
- Caveat: web server must have permissions to access, minimum:
 - **Files:** permissions `-rw-r--r--`
 - Home **directory** & `public_html` & subdirectories: permissions `drwxr-xr-x`

