

CO-560-B

Databases and Web Services **Project**

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Lab Project

- Implement core of an individual web service
 - Guided
 - Teams of 2 – 4
- Topics? **suggest your own!**
 - Earlier examples: cocktail database, stock trade monitoring, hospital drug inventory
- Tech platform: **LAMP** = Linux, Apache, MYSQL, [PHP | Python]
- Lab: **offline** work, submission via repo, discussion in class
 - Weekly lab slots with TA availability: Thu 11:15 – 12:30

Lab Project (contd.)

- Develop wherever you want, but **final handover on a ClamV Linux box!**
 - Support only for ClamV – *you will want to do it there*
 - Will inspect & discuss source code with you – *better understand what you submit*
- 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

Where to Work

- CLAMV has reserved **clabsql** machine
- Connect with:
 - `ssh <CampusNet Name>@clabsql.clamv.jacobs-university.de`
 - `ssh <CampusNet Name>@10.72.1.14`
 - Password as distributed on paper
- Assistance:
 - Tas, instructor
 - Dr Geleßus, AGelessus@constructor.university (CLAMV topics only!)

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 *clabsql*, files sitting in your home directory -> `public_html/` are accessible via web server
- Example:
 - User `pbaumann`
 - File `public_html/index.html`
 - Accessible via <https://clabsql.clamv.jacobs-university.de/~pbaumann/index.html>
- Caveat: web server must have permissions to access, minimum:
 - Files: permissions 644
 - Home `directory` & `public_html` & subdirectories: permissions 755

Finally, Logistics

- Assignment sheets distributed every Thu
- Results to be returned latest next Thu midnight
- Allows addressing last questions in Thu helpdesk session