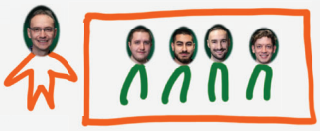
Projects with even more Practical Orientation? – Sure!

1. **Practical relevance through international projects across semesters and degree programs**
2. **Introduction of very good Master students to teaching**
3. **Development of an innovative learning tool for algorithms and data structures**

Core Team

Lecturer and product owner:
Jens Liebehenschel
Master students:
Edward Späth, Ibrahim Hayber, Stefan Kresovic, Tim Finmans



Master students' roles

→Participants in Master projects
→Lecturers in Bachelor projects in innovative team teaching format
→Special tasks like fix and take over work products of Bachelor students

Winter Term 2024/25 – Bring ideas to life

It begins with a vision: create an innovative learning platform for algorithms and data structures. We combine our ideas and lay the foundation.

3

Summer Term 2025 – Got it - let's go

The project officially starts with the implementation of initial ideas. We make good progress through structured planning and efficient teamwork.

1 2 3

Winter Term 2025/26 – Coding hell

The development process enters an intensive phase. Our focus is on implementation of many exercises, managing technical challenges, and ensuring quality.

1 2 3

Summer Term 2026 – Final countdown

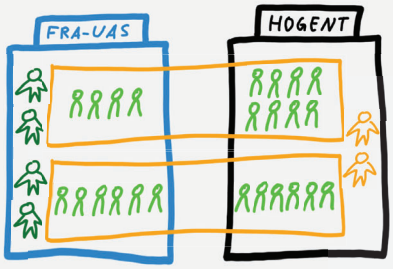
The final development phase comprises addition of even more exercises, comprehensive testing, and optimization to ensure a seamless user experience.

1 2 3

Winter Term 2025/26

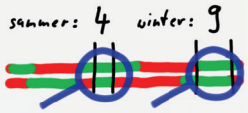
→Collaboration with HOGENT
→Two Bachelor projects with 24 students in total
→Four lecturers from FRA-UAS
→Two lecturers from HOGENT

→Learning tool development
→Start: 29th September 2025
→Kickoff-week in Gent with team building, training, and intensive work
→Then online collaboration
→End: 12th December 2025



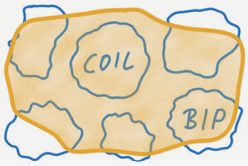
Main Challenges

→Identifying well-fitting projects
→Harmonize teaching formats
→Handling different number of ECTS



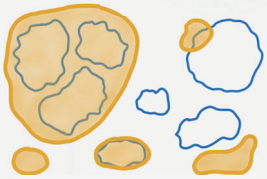
→Small overlap of lecture times

→Usage of students' work products

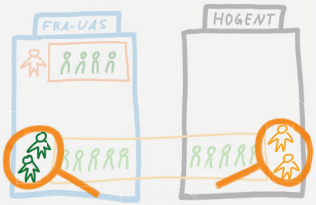


→Project format: no BIP, no COIL

→Finding students at FRA-UAS



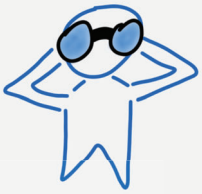
→Administrative processes



→Fair grading fitting to university

Figures by the end of 2025

→Over 60 contributors, mostly Bachelor students
→About 800 exercises of various types, several difficulty levels, partially with high variability



Outlook

→Finalize implementation
→Quality assurance

Jens Liebehenschel's website
https://www.fra-uas.de/liebehenschel

Project website
https://jensliebehenschel.github.io/ADLT

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