

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

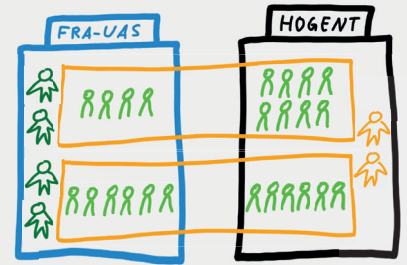
The final development phase comprises addition of even more exercises, comprehensive testing, and optimization to ensure a seamless user experience.

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

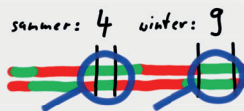
- Learning tool development
- Start: 29th September 2025
- Kickoff-week in Gent with team building, training, and intensive work
- Then online collaboration
- End: 12th December 2025



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 2026

- 10 Project courses
- Over 80 contributors, mostly Bachelor students
- Over 1200 exercises of various types, several difficulty levels, partially with high variability



Outlook

- Quality assurance
- Handover to JACK team



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



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