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University of Applied Sciences

Enhancing Digital Learning: A User Management and Access System for Remote Laboratories

University of Applied Sciences Mittweida

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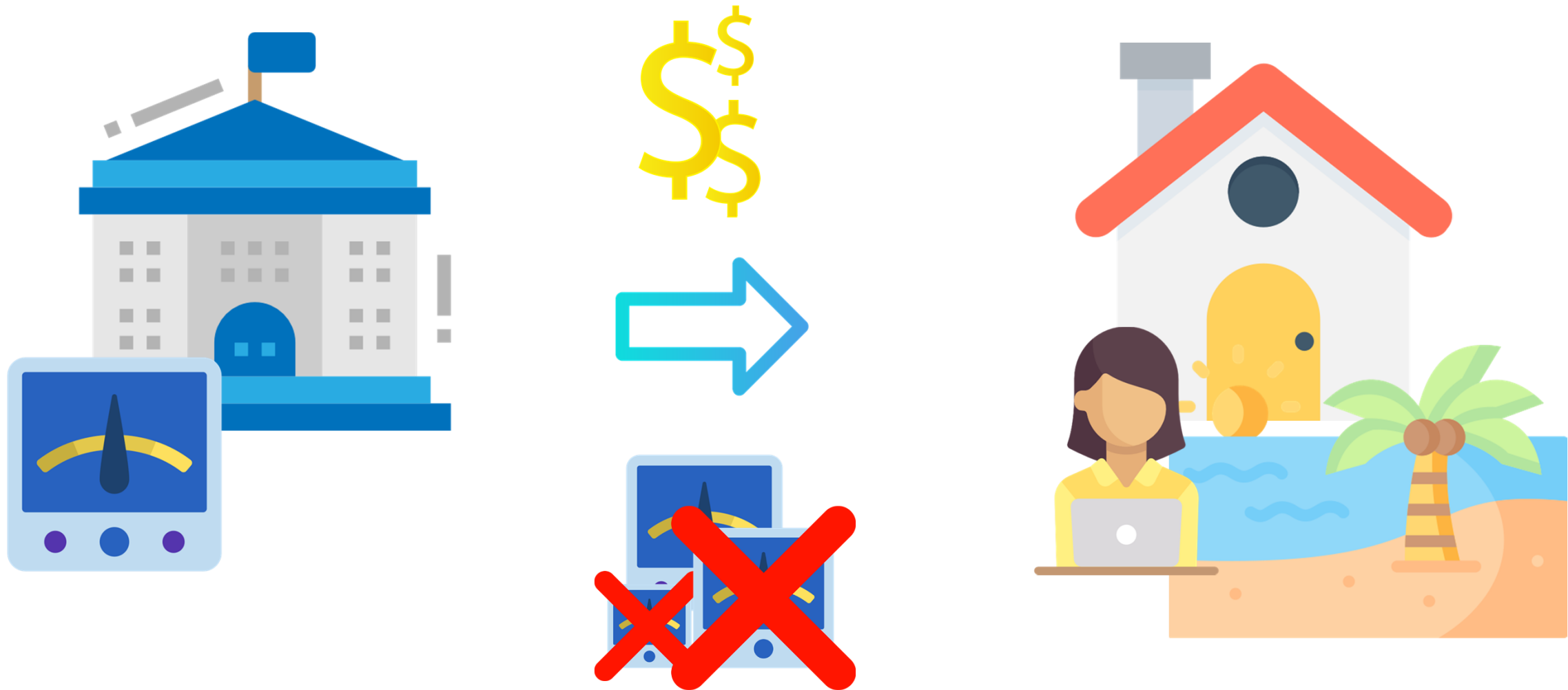
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Agenda

1. Problem
2. Solution
3. Software Architecture
4. Challenges
5. Quality Assessment
6. Prospect
7. Summary

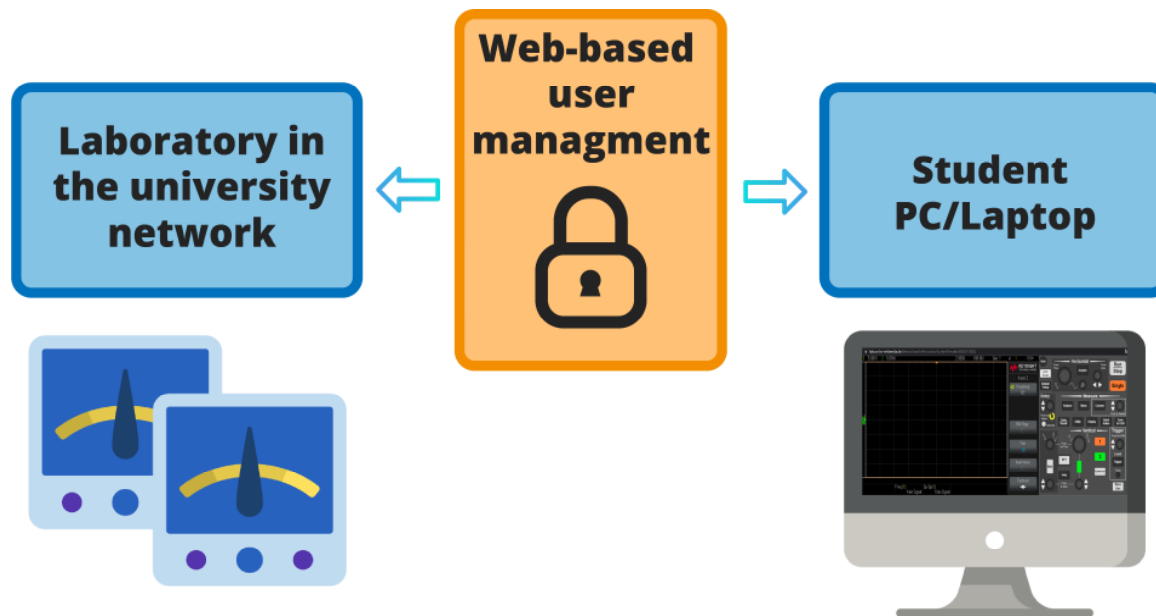


Problem and Current Solutions



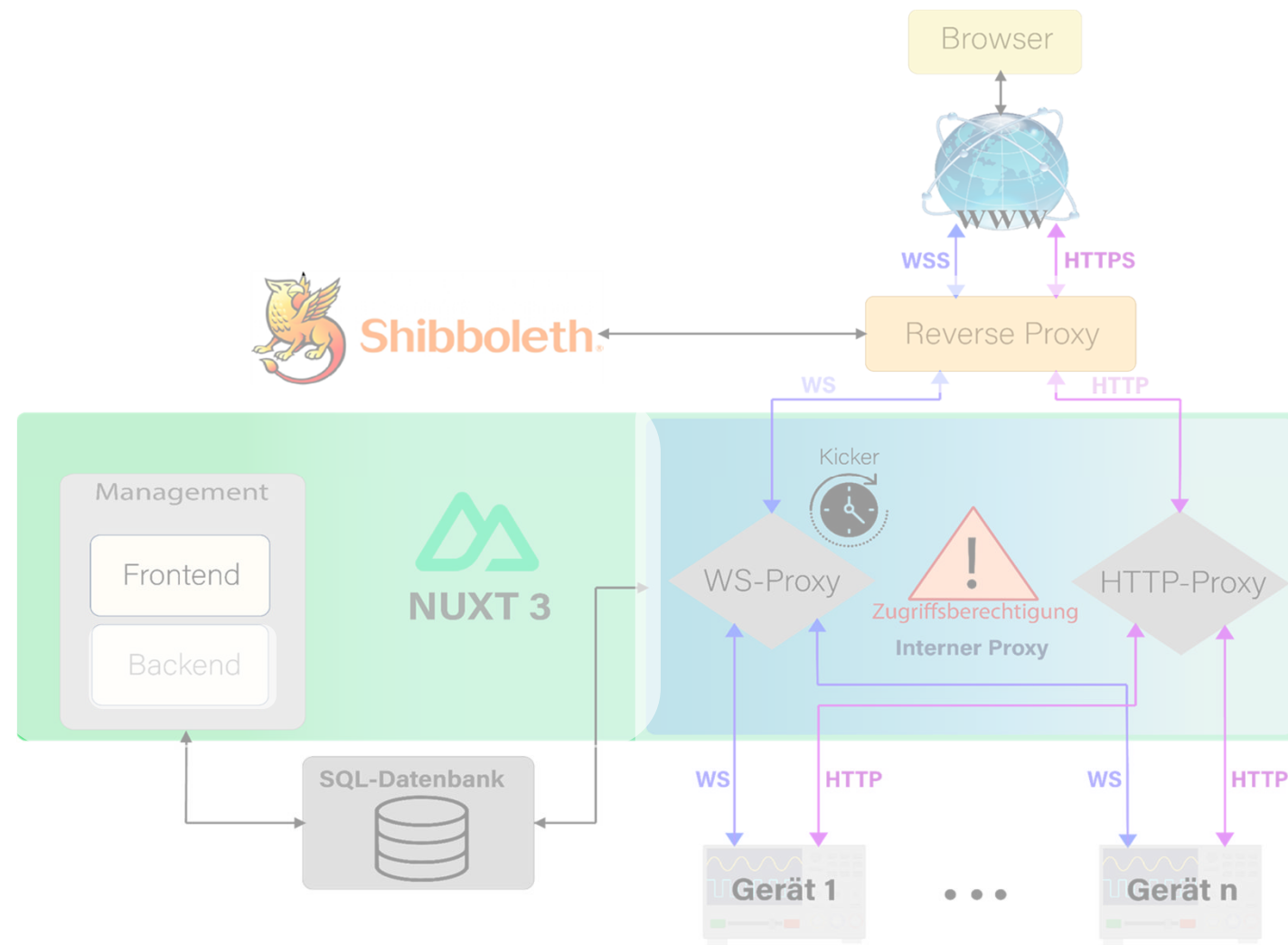
Solution - LabCon

LabCon

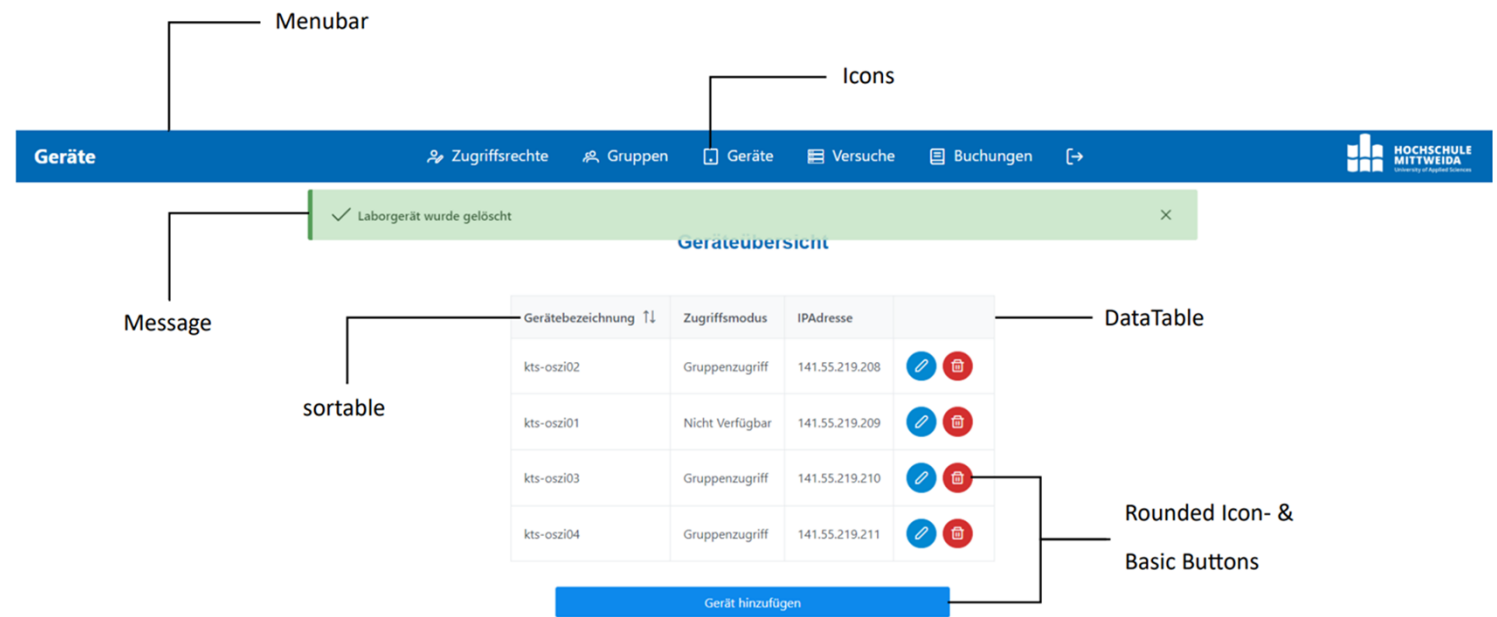
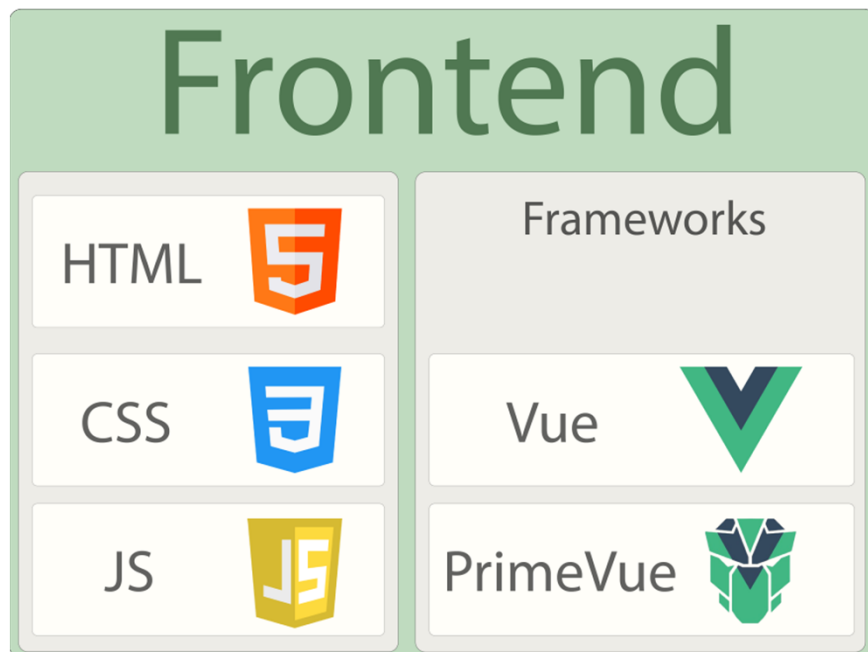


- ✓ Open-Source
- ✓ Web-based RLS
- ✓ LMS-Functions
- ✓ Expandable
- ✓ Easy to integrate

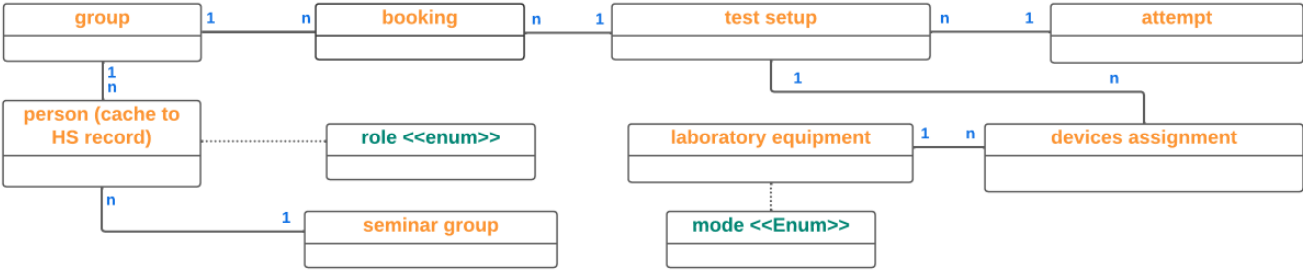
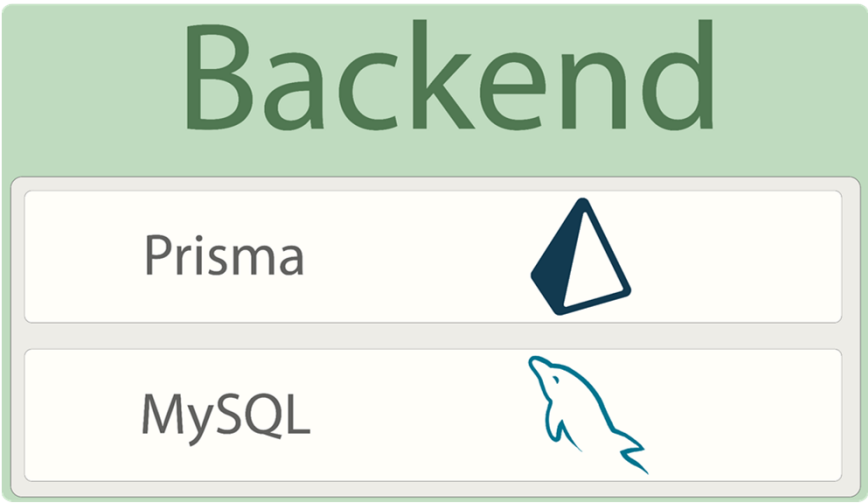
Software Architecture



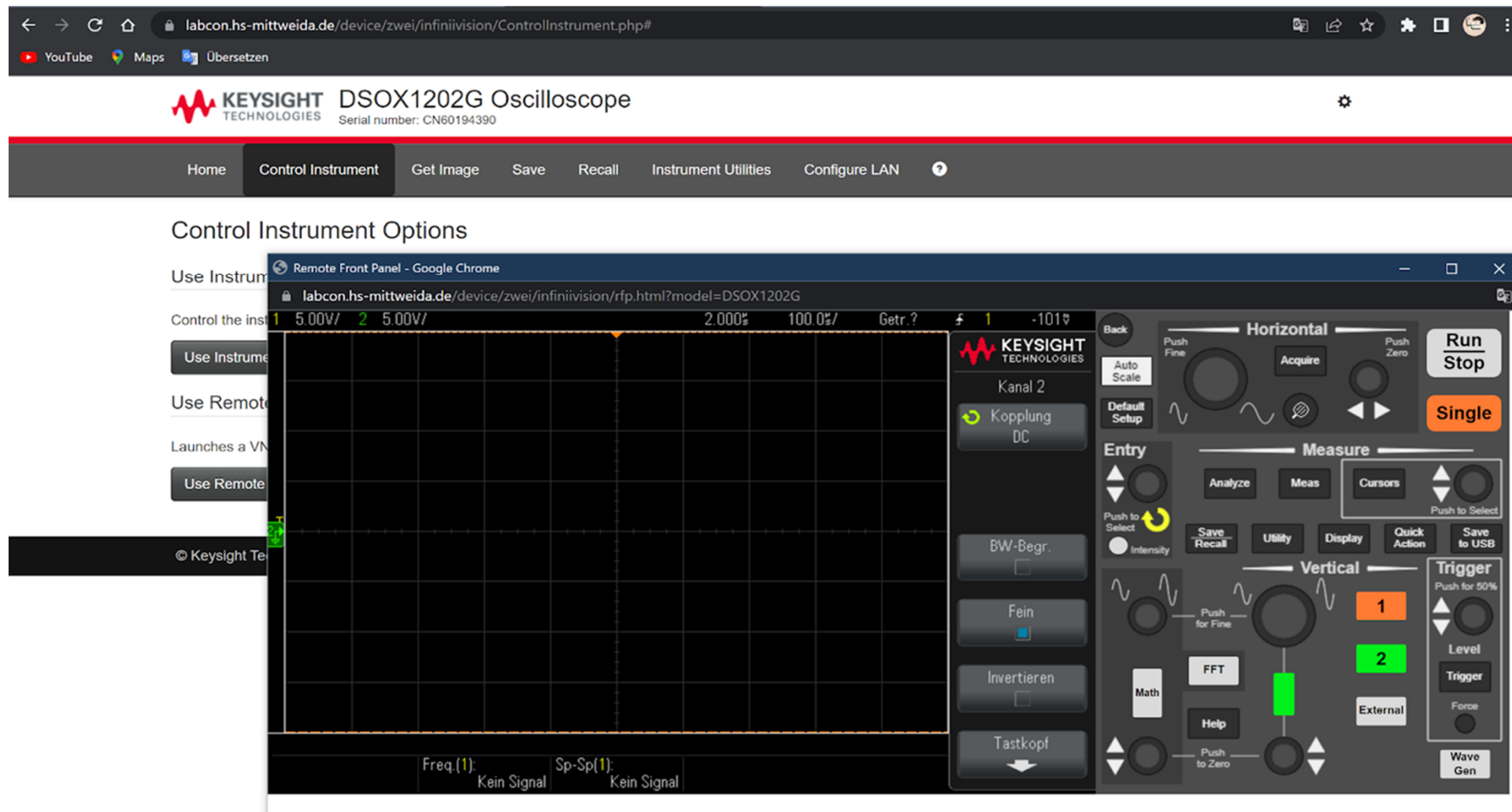
Software Architecture – Frontend



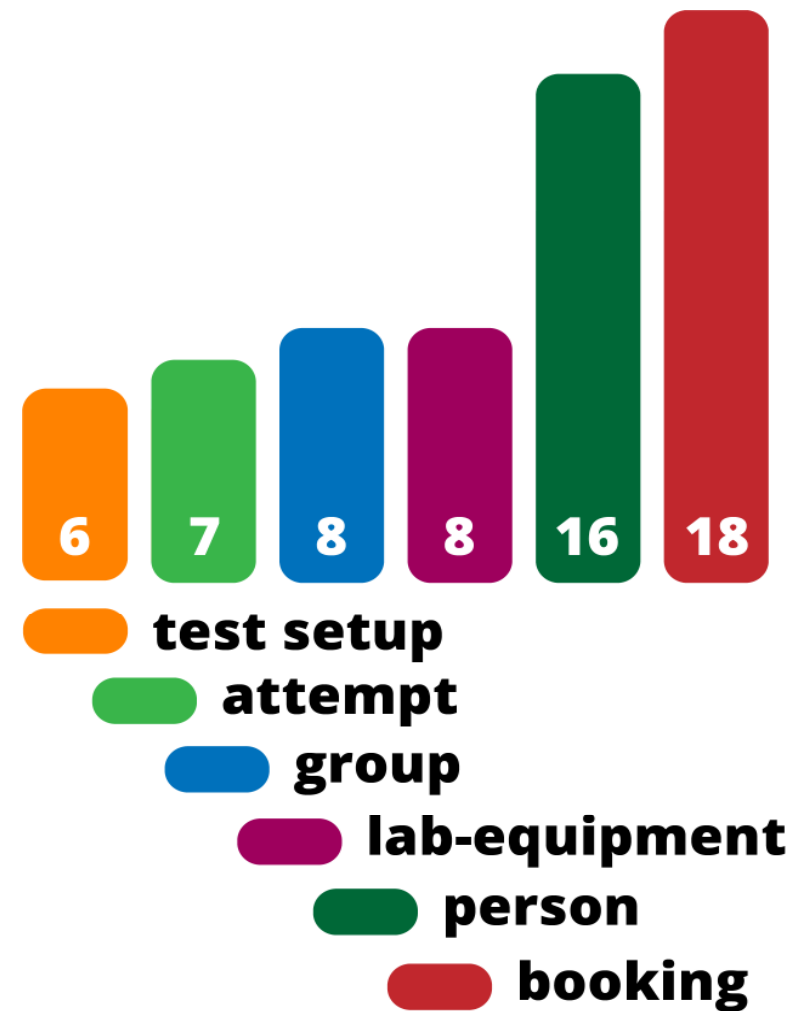
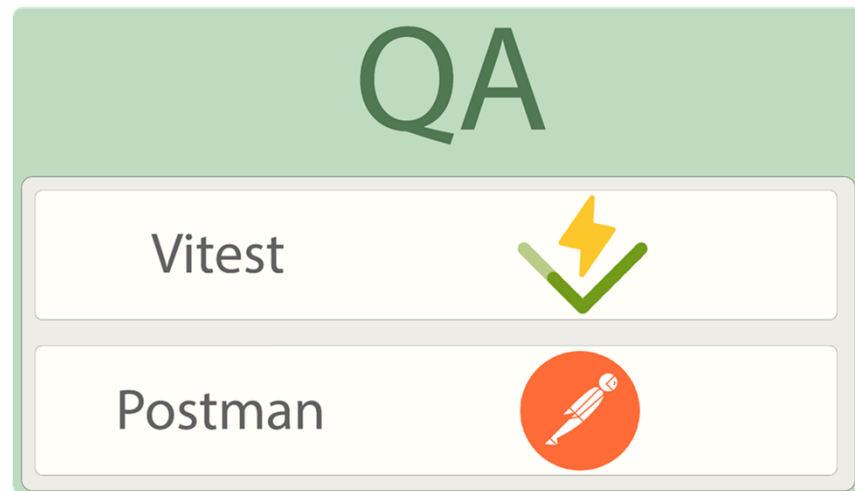
Software Architecture - Backend



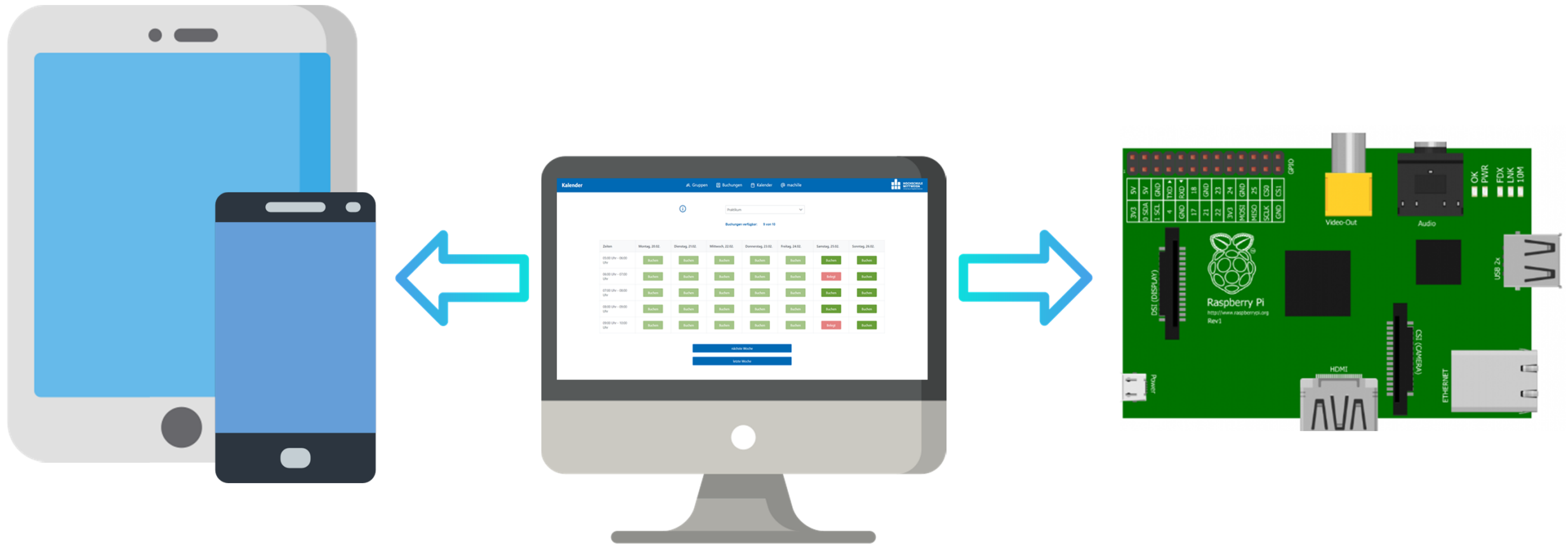
Challenges – Hardware Access



Quality Assessment



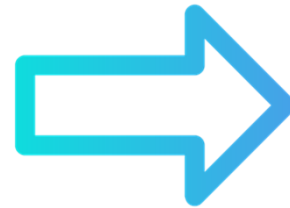
Prospect



Summary

Existing Solutions:

- Expensive
- Not expandable
- No Authentication
- No LMS



LabCon:

- Open-Source
- Expandable
- Authentication
- LMS
- Easy to integrate



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Thank You!

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