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Demonstration and study visit: Digital learning at the University of Ljubljana

Using proctoring systems – Exam.net case study
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Summative assessment/Final examination

- Final examination has strict requirements:
 - more complex from the technical perspective, protocols, preventing cheating, monitoring,
 - using proctoring systems
- Proctoring:
 - Test proctoring is testing overseen by an authorized, neutral, proctor, who ensures the identity of the test taker and the integrity of the test taking environment. In short, a proctor is a proxy for the instructor, who oversees a test.
- Exam.net: online, web based proctoring solution

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Exam.net at UL

- UL has licenced all teachers in all UL members to be able to use Exam.net for final examination
 - Teachers logon with their digital identity
 - Students do not need to input any specific credential. They access the exam by using the exam key provided by their teacher
- Using web browser only is sufficient
 - In case of the need for higher security, Safe Exam Browser (SEB) is needed for Win users, Exam.net application for Mac users

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Safe environment

- Prevent using other software, web sites, assistance from the friend/relative, using other technology...
 - is it really necessary?
- Safety can never be 100% assured
- More safety required, bigger complexity – need to balance
- Critical issues: what if network connection fails? What if computer shuts down? What if browser freezes? What if...
 - Protocols for writing exams need to be well prepared
 - Students need to be aware and understand the procedure; need to test technology before real exam;

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Exam.net and safety

- Two levels of security & settings
- Low level – simple, but works:
 - any browser is allowed; exam opens in the full screen;
 - using other software, web sites... not prevented, however, teacher gets noticed the student lost focus to the exam;
 - mitigation: ask for explanation why the focus was lost; locking the exam for specific amount of time
- High level: requires SEB or application
 - prevents using other software, however, installation can be tricky;
 - doesn't prevent everything
- Using videoconferencing tool for monitoring (optional)

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Teachers using Exam.net

- Develop, prepare the exam
 - Upload already existing PDF exam
 - Common, students either: type answers in web input form of the Exam.net web site; draw with the drawing tool; write/draw answers on the paper, make the picture with their phone and upload it to the exam
 - Write questions in web input form
 - Students either: type answers in web input form of the Exam.net web site; draw with the drawing tool; write/draw answers on the paper, make the picture with their phone and upload it to the exam
 - Prepare exam with auto marked questions
- Monitor progress
 - there is a physical limit (not the software limit) to the number of students one can monitor
- Mark the exam results outside of the Exam.net (!)

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Students using Exam.net

- Browser only: input the exam key, received from the teacher
- Time limit
- Chat with teacher
- Using additional tools within the exam.net proctoring tool
- Simple
- Higher security mode: requires pretesting!

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Questions and remarks?

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