



eAssessment with Moodle 3.9 (Safe Exam Browser deeper integration)

Thomas Korner & Marco Lehre, ETH Zurich, Switzerland

Luca Bösch, Bern University of Applied Sciences, Switzerland

Moodle is great for online and blended learning, but...

...if you do a lot of online learning, you want to grade online too and sometimes you do have to do it summative with a final exam.

Challenges:





- Most popular Learning Management System
- Open Source
- Moodle Pty Ltd.
- <https://moodle.org>

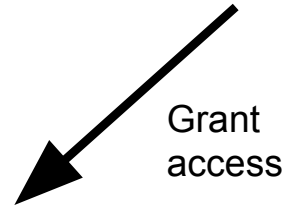
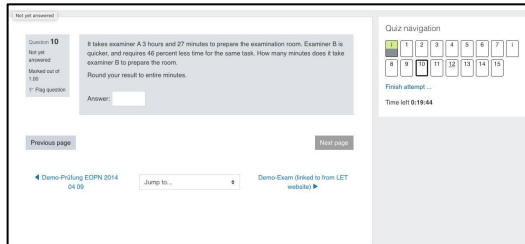
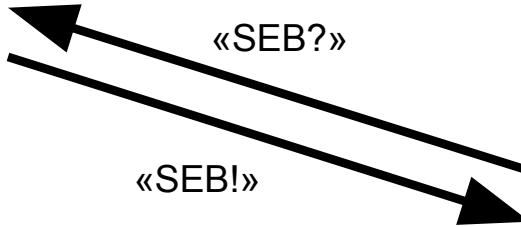
- Most popular open source lockdown browser
- Open Source
- SEB consortium
- <https://safeexambrowser.org>

«The best straight forward solution for online learning and assessment»

Accessing a quiz



Kiosk mode



Scenarios – just two of many

Exam with BYOD

«Dan wants to confront students with challenging tasks and questions in exam situations. Dan setups a Moodle quiz with SEB, that allows no external URL or communication except the quiz. He selects different buttons in the quiz settings to lock down the system following his wishes.

When students arrive for the exam with their notebooks, they start the quiz. Those who didn't install safeexambrowser before are asked to do so. With pressing the start button, the SEB settings are loaded from Moodle. The exam can start.»

Exam on managed devices

«Eric is responsible for online exams in his University. All the online exams are done on managed systems in a controlled environment. He integrates the safeexambrowser into the image of the devices. While approaching the exam sessions, he configures different configuration files for the exams. One of them allows using the calculator. A day before the exam, he determines in Moodle, which configuration file of SEB should be used in which exam. No additional work needed systemwise, although, every exam is using a different configuration.»

Live Demo

Deeper Integration compatibility

Moodle 3.9 (Version May 4th+)

Safe Exam Browser

Win 3.0+ (probably a backward compatibility in 2.4.x in future)

Mac 2.1.5+

iOS 2.1.16+

A collaboration between universities

Leading houses

ETH Zurich, Switzerland

Bern University of Applied Sciences, Switzerland

Funding partners

Zurich University of Applied Sciences, Switzerland

Ruhr-Universität Bochum, Germany

Berlin School of Economics and Law, Germany

Hochschule Neubrandenburg, Germany

University of Applied Sciences Upper Austria, Austria

University of Applied Sciences and Arts, Hannover, Germany

Development partners

Catalyst IT, Australia

Moodle Pty Ltd., Australia

Project timeline

Dec 2018	First discussions (ETHZ)
Feb 2019 – Mar 2019	Wireframes, User stories (ETHZ, BFH)
Mar 2019	Basic agreement and cost estimation (ETHZ, BFH, HQ)
Apr 2019	Fundraising (BFH, ETHZ)
Aug 2019	Offers by some Moodle partners (ETHZ, BFH, HQ)
Sep 2019	Contracting Catalyst IT and Moodle HQ (BFH)
Oct 2019 – Apr 2020	Development by Catalyst IT, Testing and Integration (ETHZ, BFH, HQ)

People involved and tasks

Andrew Madden (Catalyst IT)	Development
Daniel Schneider (ETHZ)	SEB main developer
Dmitrii Metelkin (Catalyst IT)	Development, integration, testing
Hina Khan (Moodle)	UI Design and strings wording
Jake Dallimore (Moodle)	Integration, testing
Kristina Isacson (ETHZ)	User stories, wireframes, testing
Luca Bösch (BFH)	Initiation, fundraising, financial accounting, user stories, wireframes, testing, documentation
Marco Lehre (ETHZ)	Project lead, user stories, wireframes, testing
Matt Porritt (Catalyst IT)	Catalyst lead
Michael Röthlin (BFH)	User stories
Nicholas Hoobin (Catalyst IT)	Development
Sander Bangma (Moodle)	Moodle product manager
Thomas Korner (ETHZ)	Initiation, contract negotiations, fundraising, communication
Tim Hunt (OU UK)	General consultation

Thank you guys!

Questions

Thomas Korner, ETHZ

Marco Lehre, ETHZ

Luca Bösch, BFH

thomas.korner@let.ethz.ch

marco.lehre@let.ethz.ch

luca.boesch@bfh.ch

