

Mobile Learning Management System specification

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This document describes the features that a mobile LMS (mLMS) should, or could, support. It must be emphasised that not all of these features will be available in NKIs mLMS, but some services might be implemented at a later stage. This specification is divided into six categories:

- Overall framework needs
- Course content
- Access to courseware
- Communication
- Administration of users
- Others

Overall framework needs

- The mLMS must be a part of an LMS and support the mobile client as well as traditional clients.
- The mLMS should provide different types of content to different devices automatically.
- The mLMS must create a comfortable learning environment for students studying with mobile devices

Course content

- The mLMS must be able to store course content in the system.
- The mLMS should provide easy navigation
- The mLMS should provide a zoom function for illustrations and pictures

Access to courseware

- Access to resources, library, references, glossary and exam database.
- Access to course planning tools and calendar.
- Students must have the possibility for submitting assignments
- Tutors must have the possibility to answer and return assignments.
- One must have access to class list with tutor and student information.
- Students must have the possibility to answer using multiple choices, drag and drop test/exercises, etc.
- Text to speech possibilities would be very helpful.
- The mLMS must support graphics, audio and video, moving image.
- The mLMS must immediately provide answers and feedback on test/exercises to students.
- It would be useful to have searchable course content.

Communication

- One must have access to online synchronous communication such as chat.
- One must have access asynchronous communication system such as e-mail
- The mLMS could support Short Messages Service (SMS) between students and teachers for instance to notify the teacher that a student has just delivered a new assignment. The other way around, a student could get a notification that the teacher has just sent the answer to the assignment. Could also contain the score/grade.
- The mLMS could support the use of Multimedia Messaging Service (MMS)
- SMS between users of the mLMS and the mLMS to give reminders and other information as well as enrolling and signing up to exams and other arrangements.
- Students and tutors must have access to course forums to read and write messages.
- One must have access to list with both tutor and student information
- Message board.
- Announcements.

Administration of users

This is a feature that is meant for the administration of the institutions and is not actually a part of the end user system for the mobile student or tutor.

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- The mLMS should give to possibility register for an exams
- One must have access to student records
- Student tracking

Other

- The mLMS should give the possibility to enrol to a course (students enrol from a web page)
- Provide export features to have course access even when offline.
- Adjustment of personal settings such as changing password or e-mail address.
- Access to frequently asked question (FAQ).
- Access to contact information.
- Access to general study information such exams dates, student handbooks, regulations, etc.
- Access to a sitemap.
- A possibility to print from the device.
- An area where you can upload and store personal files.
- Access to technical support services.