State-of-the-art solutions are
• Mostly interrogator-responder based
• Repetitive
• Not exciting
• Not available for smartphones

Build a next-generation mobile learning environment based on Google Android
• Mobile operating system released in 2008
• Constantly increasing number of devices
• Java runtime compatible with version 1.6
• Sophisticated SDK for third party applications

Interactive e-learning for mobile devices
• Allow the execution of interesting, exciting e-learning courses
• Take advantage of modern hardware features such as cameras
• Use different input techniques
• Collectively form a variable and interesting learning experience

Integration of e-learning with social networks
• Users can publish their learning results on social networks
• Learners are encouraged to discuss content with other students
• Motivation through competition between connected students

Andreas Kuntner hat den SOMA-Kurs „Erste Hilfe Basiskurs“ absolviert und 85% der Fragen richtig beantwortet!
Samstag um 15:51  · Kommentieren  · Gefällt mir
Auch an diesem Kurs teilnehmen  · Andere SOMA-Kurse herunterladen...

Fabian Kromer gefällt das

Methodology and results

A platform for course suppliers
• Exercises use plugins to present content
• Courses are encoded in XML

A framework for developers of e-learning solutions
Server
stores courses and plugins and provides them for download by
requests individual results from
and may publish them through social networks

Framework
encapsulates access to hardware features on mobile devices for

Plugin runtime
st ores courses and plugins and provides them for download by
requests individual results from
and may publish them through social networks

A prototype for evaluating how interactive e-learning can enhance the learning progress

Research work
concerning didactical topics and a comparison of existing e-learning solutions

Survey among potential users
questioning usage of mobile phones and experience with e-learning environments

Case study with test users
using a sample first-aid course, the SOMA prototype and three sample plugins