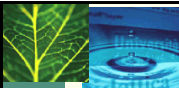


Towards a Multi-Vendor Mobile Learning Management System

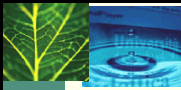
L. Colazzo, A. Molinari, M. Ronchetti, A. Trifonova

Università degli Studi di Trento, Italy



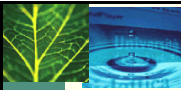
M-Learning – what is it?

- M-learning can include anything from job aids and courseware downloaded on your personal digital assistant to Net-based, instructor-facilitated training via laptop
 - Interact with people
 - Voice
 - Written messages
 - Still and moving images
 - Access content
 - Local
 - Remote
 - Access services



Porta-bile project

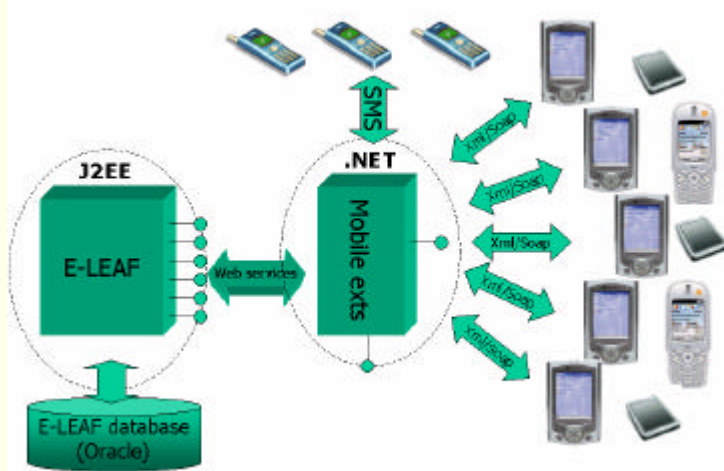
- The goal: To investigate the use of mobile computing technologies to support the learning processes in an educational context
- Focuses on the technological aspects of mobile learning
- Experimentation of the integration between the two most used development frameworks for web application
 - SUN J2EE
 - Microsoft .NET
 - interaction between the two will be granted by web services technology



The Services offered by Porta-bile

- Management of SMSs sent by teachers to students or by administrative staff to teachers and students
- Common agenda (organizer) that will be available on the mobile device and will keep all the important dates for the actor (students and teachers)
- Lessons conducted using Learning Objects distributed via LMS and accessed by students and teachers through PDAs

The Architecture of the mobile portal



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Alternatives to build the interaction

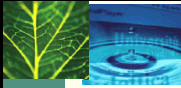
(between the PDAs and the central database)

- Using the PDA embedded browser
- Using a client database application
- Synchronizing the PDA with the central database and the agenda of the user by using cradles and database synchronization
- Building a client/server application
- **Building a web application that requests a web service**

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Conclusions

- E-learning systems and Learning Management Systems are nowadays a key element in the learning processes
- M-learning is often considered as the future of learning as an integral part of any other form of educational process
- Support of mobile users
 - SMS
 - Common agenda
 - Communicate with others – mailing lists, forums
 - Access educational materials