Cloud based e-learning solution E-CHO

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Laboratory for Telecommunications - profile

- Established in 1946, remains the most innovative R&D laboratory in the field of telecommunications in Slovenia
  - International scientific, R&D and interdisciplinary projects cooperation
  - Young and motivated team
  - 50+ scientists, researchers, students, technicians ...

Class Conference 2012
R&D COMPETENCES

• Scientific and industry oriented R&D
  – Future Internet, Internet of Things
  – Quality of Service/Experience (QoS/QoE) tools and modeling
  – Communications systems & services – SSW, NGN/IMS, MultiPlay, IPTV
  – Communications protocol development (SS7, SIGTRAN, SIP, Diameter)
  – Self-Organized Networks – SON algorithms, emmulation
  – SmartGrid and energetics communication technologies and solutions
  – Assistive technologies and eHealth
  – Multimedia-based eLearning technologies, solutions and content
  – GNSS applications – tracking, eToll collection system
  – Mobile application development (iOS, Android)
  – Converged multimedia applications (IPTV, Web 2.0)
SELECTED RESEARCH AREA: MULTIMEDIA

- ICT supported learning
  - LCMS platform, cloud based
  - Social learning
  - M-learning
  - Game based mobile learning

- Design and development of multimedia applications on convergent terminals
  - iPhone, iPad, Android
  - Interactive / smartTV, Set-top-boxes

- Design and evaluation of intuitive user interfaces
  - Heterogeneous interaction modalities
    - touch, gestures, voice
WHAT IS E-CHO CLOUD PLATFORM

- E-CHO Cloud eLearning Platform supports:
  - all technical, didactical and organizational aspects of e-learning,
  - large scale implementations,
  - multimedia and interactive content,
  - various didactical approaches,
  - virtual laboratories
CONTENT

• “LO” – Learning Objects are elementary “Content” entity in E-CHO
  – Anything: text, picture, video, html, URL, File, question
  – Joining LOs into groups – Courses; (linear/nonlinear)
  – Transcoding and streaming
  – LO parameters: Arbitrary Meta Tagging

• “Activity” is an entity belonging to “LO”
  – discussing, file exchange, commenting, rating
  – social. collaborative learning enabler

• Simplicity of content development
  – concurrent work on different LOs
  – import/export SCORM, ZIP
  – Collaborative authoring, versioning
LEARNING DELIVERY

• Desktop, mobile, TV
  – Multimedia courses, activities, tests

• Corporate environments
  – Knowledge Management: E-CHO as the main environment encompassing all existing knowledge resources (management and processing of knowledge)
  – Training support (e-learning, blended learning)

• Schools and academia
  – E-schoolbooks
  – Teachers lessons (LOs+activities)
  – Learning games, virtual laboratories...
PROGRESS TRACKING AND MANAGEMENT

• Administrative progress tracking
  – Each LO: Access, Time
  – Each LO group: Time percentage
• Knowledge assessments
  – Questions and tests: detailed reports
  – Tutor subjective grading: any activity per user (numerical, percentage)

• Management of Learning Process, Learning Content, Users and Groups
• User accounts
  – regular, linked
• Access rights are defined on the E-CHO process level
  – Predefined roles are based on roles templates
  – Arbitrary access rights generation
• Grouping of users
TARGET ENVIRONMENTS

- E-CHO 3.0 is a cloud based system, ADAPTED to performance of:
  - centralized corporate e-learning (cloud based hosting)
  - ICT based education in schools (www.e-gradiva.si)
  - corporate e-learning and knowledge management (E-CHO 3.0 corporate)
CORPORATE USE OF E-CHO

• Case examples:
  – NLB d.d. – biggest national bank in Slovenia
  – Telekom d.d. – National Telco operator, Mobile operator

• Close integration with internal IT systems
  – AD/LDAP/User databases (mirroring corporate organization charts, Single sign on)
  – Corporation Intranet integration
  – Integration with HRM systems (way towards Knowledge Management)
  – Semantic tools

• Cloud based hosting
  – Quick and easy e-learning setup
  – Content sharing or distribution – one source delivery
WWW.EGRADIVA.SI

- 18 multimedia, interactive e-textbooks
- Knowledge assessment, virtual projects activities
- 26000 users (teachers, pupils, students)
- Cloud based hosting, complete learning process support
ICT-ACADEMY

• Initiative & common brand for LTFE professional trainings activities

• Over 15 years of experiences in delivery of ICT trainings for
  – telco and service providers
  – ICT vendors
  – agencies, governmental institutions
  – educational institutions
  – enterprises
  – individuals
ICT-ACADEMY

• An ecosystem of
  – Experienced lecturers, assistants, support personnel
  – Training programmes
  – Professional equipment & laboratories
  – *Satisfied customers*

[Image of a group of people as part of the ICT Academy]

[Website URL: www.ict-academy.eu]
Additional information

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