Development of an Exploratory Learning Environment for SCORM 2004 LMS

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Features of POLITE (Portfolio Oriented e-Learning for IT Education)
- Adaptive learning environment by using learning portfolio
- An exploratory learning environment and curriculum learning environment
- Instructional materials in curriculum based environment are designed based on SCORM2004
- Virtual system development environment in an exploratory environment
- Another SCO can be referenced in some SCO
- Multi browser support
- Some functions supporting to learners: e-coach, e-note, retrieving web resources

Conceptual model of POLITE

Adaptive learning process

Combination of curriculum and exploratory based environment

Scenery of case studies

Evaluation of case studies

HIU Repository
Learning outcomes
Cooperation with IT enterprise (IT Experts)

Curriculum based learning environment
Explanatory based learning environment
Instructional material (SCORM2004)
Pedagogy

HIU Repository
Learning portfolio (skill, knowledge)

Teacher
Learner

Pre Test
Post Test

Exploatory based learning environment
Curriculum based learning environment

Interactive inquiry
Ask IT enterprise
Look at different level instructional material (SCORM2004)
Use virtual development environment (Data modeling, Java programming)

Section 1
Section 2

Chapter

The outcome of learning

Instructional material (SCO) for advanced level learner
Instructional material (SCO) for intermediate level learner
Instructional material (SCO) for beginner level learner

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The score distribution on the pre-test and post-test

The comparison of score distribution in e-learning and face-to-face

The reference frequency of FAQ