Authoring for Re-Use
in
Outcome-oriented Learning Scenarios
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What is the Situation?
Content is available in vast amounts

In Outcome-oriented, personalised learning scenarios, content is needed in tailorable formats

Quality?
Accessibility?

Granularity?

Ability to create something new?

What are our goals?
Background: ICOPER Project

- Interoperable Content for Performance in a Competency-driven Society – Adopting standards for European Educational Content

- Goal: improve interoperability and reuse of e-learning across Europe:
  - analysing best practices
  - developing overall reference model including a variety of existing standards and specifications (e.g. IEEE LOM, IMS CP, IMS LD, ADL SCORM, IMS-QTI, RDCEO, HR XML, OAI PMH, ...)
  - Open iCOPER content space

- 2008-2011
- Sponsored by e-contentplus
Architecture: Re-use-based authoring prototype

A standards-based prototype for
1. Collection of media
2. Authoring
3. Preparation for re-use

1. Collaborative collection and organisation of multi-media assets

- The MediaLibrary Prototype
Collection of Media Assets

Pull-Approach: Active Collection

Push-Approach: Publishing Interface

Organisation

Metadata
The MediaLibrary Prototype
Create or Upload a Media Asset

The MediaLibrary Prototype
Organising and Tagging a Media Asset
The MediaLibrary Prototype
Search and Publish

Published Items are Webserivce Accessable (OAI-PMH Target)

Asset Management Process

- Create or upload Asset
- Organise Assets
- Add Metadata
- Publish Metadata
2. Collaborative creation of learning units

- The authoring environment author42.ICOPER
... and Publish

Learning Content Authoring Tool
author42.ICOPER

Include in Production
3. Preparation for Re-use

- Linking to the Open ICOPER Content Space (OICS)
Collaborative collection of multi-media assets

Publish Metadata to OICS Repository

OICS offers search services to Retrieve contents again
Process: Preparation for Re-use

<table>
<thead>
<tr>
<th>OCIS</th>
<th>Harvest Metadata</th>
<th>Update Metadata Store</th>
<th>Publish Metadata</th>
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<td>Metadata Library</td>
<td>Request Metadata</td>
<td>Compile &amp; Return Metadata</td>
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<tr>
<td>OLAT LMS</td>
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<td>OLAT QAL-PHM</td>
<td>Request Metadata</td>
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Conclusion and Outlook
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First Evaluation at JTEL Summer School 2010 in Ohrid

Participants rate output as relevant, consistent, and understandable.

But we still have some usability issues to solve...

... and the functionality needs to be completed.

Thank you!

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