Evolving learning design:
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Evolving learning design

- Overview of presentation
- UK perspective from JISC design for learning programme - key emerging issues (Sheila)
- A European perspective (Dai)
- Discussion
JISC design for learning programme - what is it?

- 2 year programme - ends May 2008
- Part of the pedagogy strand of the JISC eLearning Programme
- Exploring learning design in wide context - not just IMS LD or LAMS
Exploring

- the process of designing, planning, sequencing or orchestrating of learning tasks which may include the use of e-Learning tools.
- practitioner focus to help make effective decisions about the use of e-Learning, and
- ways to support the effective design and use of learning design tools.
Programme aims

To:

further develop the community’s understanding of the principles that inform the design of effective learning activities which involve the use of technology.
Projects

- 14 projects in total
- Models of Practice (1) (completed)
- Pedagogic Planner (2) (end Feb 08)
- Implementation Projects (5) (end Oct 07)
- Technical Development Projects (4) (end Oct 07)
- Support project (CETIS)
- Evaluation Project (Glenaffric Ltd)
- Some projects using LAMS
Support project

- Provide technical and pedagogic expertise in learning design to the projects and the programme to support the process of design for learning.
- Enable the sharing of expertise in design for learning,
- Support the establishment of communities, services and resources to promote and sustain effective practice in design for learning.
Some emerging issues

- Exemplar designs - differences between ‘inspirational’ and ‘runnable’ designs (MOD4L)
- Representation of designs - need for multiple views
- Searching criteria - peer value & FOAF (Ped Planners)
- Lack of tools - starting to be addressed (LD4P)
- IMS LD way of mapping all representations – or is it?
- Should we be thinking of looser couplings, using (web) service approach etc?
Thinking outside the programme

- What are the other drivers for learning design? LAMS, European projects etc
- Do we need to push for further development of a specification?
- What do practitioners really need?
- What systems/services should we be developing
Dai Griffiths
CETIS, University of Bolton

- CETIS is a partner in the TENCompetence IP
- Much of our contribution is on design for learning and Learning Design
- TENCompetence is also organising a series of open workshops, proceedings and journal special issues
Dai Griffiths
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- Diana Laurillard just talked of the need to "represent the activities carried out by the learner"
- IMS LD set out to be powerful enough to model all the different ways in which those activities could be carried out
- Subsequently IMS realised that it should be possible to map exchange all the different models
- The model is given an XML binding and a toolset (which constrain possibilities)
- It’s hard to see beyond these to the model (which is why working on IMS LD tooling is interesting!)
IMS LD issues addressed by TENCompetence

1. The focus has been on pre-designed formal learning
   - This is OK, but what do we need to do to make this work in a wider context?
   - Can IMS LD work without the design time – runtime split?

2. Lack of flexible services in runtime

3. Authoring is hard for non-experts
1. The wider context for learning design

- The Personal Competence Manager
- An application which enables individuals to manage their life long competence development
- In communities and groups which can dynamically define their own competence definitions and activities
- Will export to IMS LD level A
Plan for Learn playing the guitar

Description
So you want to be a rock and roll star, well listen now to what I say...

Route
Basic chord songs

Hammer ons

Pulloffs

Bending

Paint it Black (The Rolling Stones)
2. Lack of flexible runtime services

- To promote interoperability, few services
- Local tool frameworks like LAMS have much richer tool environment
  - Easy provisioning
  - Integration of tools with the runtime behaviours, and the authoring environment
- TENCompetence is working on solutions
Widgets…

- Desktop
  - Apple Dashboard
  - Windows Vista Sidebar (not Windows 2000)

- Web
  - Yahoo! Widgets http://widgets.yahoo.com/gallery/
  - Google Gadgets
    http://www.google.com/ig/directory?synd=open
  - NetVibes http://www.netvibes.com/
Desktop Widgets…
Web widgets...
Widgets in TENCompetence

- Widgets are easy to develop, attractive, flexible
- Many thousands already exist, but mostly are single user
- Scott Wilson has developed a specification, based on WWW consortium,
  - a tool packaging format, local API
- A Widget engine as an add-on to CopperCore
- Supports multi-user Widgets
- Demonstrator scheduled December 2007
3. Authoring is too difficult

- The Reload team is developing a successor to the Reload Learning Design Editor.
- Leverages the Eclipse graphics and modelling framework
- Will be integrated with a QTI 2.1 Editor
- High level “pre-authoring” component
- Special focus on more flexible forms of assessment combining IMS LD with QTI
TENCompetence LD Authoring tool

- Uses IMS LD concepts (acts, roles, activities) but concepts can be renamed
- Much richer interface, breaking away from trees
- Can save parts of UOLs (activity structures, environments…)
- Will provide opportunity to explore the limits of the IMS LD metaphor with more accessible tooling
- Version 1 in 2007 (Level A)
- Version 2 in June 2008
Other related initiatives...

- Opendocument.net, a lightweight repository
- Can parse zip files and content packages (including IMS LD) and return information about them
- Design4Learning, links Reload Learning Design editor with Opendocument
  - http://designshare.opendocument.net/
IMS LD and VLEs

- LAMS export to IMS LD is very welcome!
- IMS LD is still on the Moodle roadmap
- .LRN has made great progress in runtime
  - Presentation at TENCompetence Barcelona Open Workshop on .LRN
  - Complete IMS LD player developed from scratch for .LRN
  - Led by developers based at Universidad Carlos III in Madrid
  - Virtual machine available at http://www.dotlrn.org/download/
And there are lots of other things going on in the learning design area

- Website at www.tencompetence.org
- Link to forums will go live on Monday. A good place to discuss these issues!
- Please post your comments and questions…
Links for more information

- http://dfl.cetis.ac.uk/ - programme support wiki
- http://designshare.opendocument.net/
- http://www.dotlrn.org/download/
- http://www.tencompetence.org

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