A web-based presentation framework for museums

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EATIS '07 Proceedings of the 2007 Euro American conference on Telematics and information systems
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Abstract

• Presents a framework
  • Supports a web-based multimedia presentation of a museum on fixed information and educational stations and web sites
  • Has been applied and refined in 30 medium-sized museums in Greece

• Offered a wizard-like procedure
  • No technical expertise also can complete this procedure
Framework presentation

Figure 1. Framework modules.
Framework presentation

- Content specification defined
- Artifacts
- Context information
- General information
- Multimedia content
- Stations
- Places
Framework presentation

• Content management system defined
  • Primary content pool creation and gathering
  • Content editing
  • Content association forms
  • Presentation applications tuning
• Content export
Framework presentation

Figure 2. Information pools.
Framework presentation

• Information stations defined
  • Basic information station
  • Educational station

Figure 3. Information station specifications.
Applications

• Presentation applications
  • Station interaction
  • Group presentation
  • Artifact selection
  • Artifact presentation
  • Context information presentation
  • Museum general presentation

• Educational applications
Applications

• **Framework application execution steps**
  - Insert into the primary content pool existing textual and multimedia content and edit it
  - Create textual and multimedia content and insert it into the primary content pool
  - Define the museum’s general presentation
  - Define information stations by providing the appropriate information
  - Define and populate artifacts and associate them to information stations
  - Define context information in hierarchies
  - Assign content to artifacts from the primary content pool and relate them to context information and multimedia content
  - Provide the parameters that are needed by the presentation and educational applications for every station through a wizard-like process
  - Export application files and transfer them to the information stations or a web site. The files contain all necessary instances of applications that are needed for presenting the defined content
Applications

Figure 4. Example installations.
Technical details

• Store data
  • Access (MySQL, Oracle)

• Interface
  • Dynamic HTML
  • Macromedia Flash

• Others
  • Apple’s QTVR
Conclusions & Future work

• Presented a framework
  • Supports curators of medium-sized museums in order to generate multimedia presentations of artifacts
  • May be used for bigger museums
  • Supports the structuring of content to be presented and the tuning of applications
  • Has been applied in 30 medium-sized museums in Greece

• The main advantages
  • The easy customization for a new museum without requiring technical knowledge from museum curators

• In the future, planning use its application in more museums
Thanks for Listening!