XML Techniques for E-Commerce

Organization

Guest Lecture at Eötvös Loránd University
Budapest, 26. - 29.9.2005

Institute for Information Processing and Microprocessor Technology (FIM)
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Questions?

Please ask them immediately!
Curriculum Vitae

- Studied computer science at the JKU
  - Master thesis (Dipl.-Ing.): Teleworking
  - PhD thesis (Dr.): Mobile Agents and Security
- Studied jurisprudence at the JKU
- Currently assistant at FIM (Prof. Mühlbacher)
- Current research interests:
  - Distance education
    » Metadata, use of agents in DE; developing a system and some tools
  - Intelligent agents
    » Security, mobility; not really focused on AI
  - Legal aspects of computer science
    » El. Signatures, privacy, E-Commerce laws, ...
- Professional experience: IT manager of call center
  - International leased lines, VoIP, VPN, applications, network, ...
One topic group per day (hopefully!):

- Basics:
  - XML, DTD, Namespaces
- Syntax:
  - XML Schema
- Presentation:
  - XPath, XSLT, XSL-FO
- Programming:
  - SAX, DOM, Serialization
- Higher E-Commerce standards
  - ebXML
  - SOAP, WSDL, UDDI
  - XML Signatures, XML Encryption
  - RDF, OWL
Course schedule

- 26.9. (Monday): 16:00-18:00
  - Room 2-108 (South Building)
- 27.9. (Tuesday): 18:00-20:00
  - Room 2-108 (South Building)
- 28.9. (Wednesday): 16:00-18:00
  - Room 2-108 (South Building)
- 29.9. (Thursday): 18:00-20:00
  - Room 2-108 (South Building)
- 30.9. (Friday): 14:00-16:00
  - Room 2-108 (South Building)
The slides and information on the course can be found on the following webpage:

http://www.sonntag.cc/teaching/XML_E-Commerce_WS0506/

Please note: We will not always cover all of the slides!

See also the list at the end of each part for more literature and links!
Examination

- Small projects after the course
  - Programming a small application working on some kind of XML
  - Designing XML: E.g. Schema, XSLT
  - Overview on a related area: E.g. XLink, XForms, XQuery
- For each project, a very brief webpage presenting the result must be created
  - Area of application, design rationale, example
- Timeframe: 31.10. 2005 (Monday)
  - Send complete result (webpage, source code, examples, etc.) to me in a single ZIP file via E-Mail
● Your own topic!
  → If you have an idea, please talk to me. We will work out an assignment based on it!
● Slides for presentation with explanation text
  → Overview and comparison of XQuery and SQLX
  → Specific standards/specifications/applications:
    » XForms
    » XQuery
    » XML key management
    » SMIL
    » RSS (in all versions)
    » SVG
    » VoiceXML: Subsets only!
    » OASIS OpenDocument
      – General overview
      – Overview on smaller subareas
Contact details

- You can reach me in these ways:
  - Post: Michael Sonntag, Institute for Information Processing and Microprocessor Technology (FIM), Altenbergerstr. 69, A-4040 Linz, Austria
    - Only if you want to send we voluminous written material!
  - Telephone: +43 (70) 2468-9330
    - Only if it's very urgent!
  - Fax: +43 (70) 2468-8599
    - For all short written notices
  - E-Mail: sonntag@fim.uni-linz.ac.at
    - Fastest answers, general use
  - Personally before/during/after the lecture
    - The best chance, if possible!