Internet Computing

Course Outline
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Assistants: TA

Pre-requisite: Java preferred
Objective
• The main objective of this module is to acquire a foundational understanding of the technologies of Internet Computing. The module aims at exposing to the students the concepts, principles, methods, and techniques for designing and building internet-enabled system that uses Web as the basic transport infrastructure. In particular, students will learn to appreciate the evolving Internet computing paradigm, and the technologies that enable such change. Emphasis will be placed on learning the concepts and to apply it in practical applications.

Topics
• Week 1: Course Outline and Introduction (Sept 1)
• Week 2: XML Introduction (Sept 8)
• Week 3: DTD and XML Schema (Sept 15)
• Week 4: XPath and XSL (Sept 22)
• Week 6: XMLSpy + XSL Lab (Oct 6)
• Week 7: DOM + SAX (Oct 13)
• Week 8: Server-Side Computing and HTTP (Oct 20)
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- Week 9: Client-side computing (Oct 27)
- Week 9: Assignment Q&A session, 3-5pm, PQ703 (Oct 30)
- Week 10: Storing XML Data (Nov 3) + Assignment due
- Week 11: Internet programming Lab (Nov 10)
- Week 11: Q&A session for quiz preparation, 4:30-5:30pm, PQ703 (Nov 13)
- Week 12: SOAP messages + Quiz: Week 1-8 (Nov 17)
- Week 14: Web Services with WSDL (Dec 1)
- Week 15: Class review and project presentations (Dec 8)

Assessment

- **Coursework:** 40% (In the form of 1 project, 1 Assignment and 1 Quiz)
- **Exam:** 60%
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Textbooks
- eBusiness & eCommerce – How to Program. Deitel, Deitel and Nieto, Prentice Hall, 2001 (A)
- XML How to Program, Deitel, Deitel, Nieto, Lin and Sadhu, Prentice Hall, 2001 (B)

References
- Marty Hall, “Core Web Programming”, Prentice-Hall
- Dave Cintron, “Fast Track Web Programming”, Wiley
- Campione Walrath, “The Java Tutorial”, Addision Wesley
- Alex Ceponkus et. “Applied XML”, Wiley
- Danny Goodman, “Javascript Bible”, IDG Press
- Larry Wall et. “Programming in Perl”, O’Reilly