CSC309 – Programming on the Web

Wendy Liu
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Fall 2007
Tuesday 1-3pm MC252
Thursday 1-2pm BA1240
http://www.cs.utoronto.ca/~wl/csc309

About Me
- Ph.D. candidate in Software Engineering
- Requirements Engineering
- Software Architecture and Design
- Professional Experience – I/T Consultant
  - Developed Commercial Banking Web Apps
  - Web-based Multi-million-dollar Government Project
- Technologies: EJB, Servlets, JSP, Java Beans, JavaScript, HTML
- Office Hours
  - Tuesday 3-4pm, Thursday* 2-3pm
  - BA 2200

Learning Objectives
- Use Web-based software technologies
- Static and dynamic content generation, n-tiered architectures, and web services
- Know principles and issues
  - General internet concepts, Web design and engineering principles, and security and scalability issues
- Develop an end-to-end Web-based application
- Enhance problem solving and technical writing capabilities
- Be inspired and have fun

Teaching Philosophy
- Interactive learning
- Questions are encouraged in class
- Hands-on experience is valuable
- Getting to know each other
  - Classmates, TAs, instructor
- Use lectures as road maps
- To explore the wealth of Web development knowledge

Readings
- Text book
  - Programming the World Wide Web
    Robert W. Sebesta
- Standard documents at http://www.w3.org
- Online resources
- Lecture notes
  - Usually posted before or shortly after the lecture

Prerequisite
- CSC209 - Software Tools and Systems Programming
- CSC343 - Introduction to Databases
- Familiarity with Java, SQL, and RDBMS
- Experience in developing programs of significant size (i.e., a few thousand lines)
- No prior knowledge of Web technologies is assumed
### Evaluation
- Assignments (50%)
  - A1 (15%)
    - XHTML, CSS, XML, Javascript, and DOM
  - A2 (15%)
    - Java Servlets/JSP, concurrency control, JDBC, transactions
  - A3 (10%)
    - Web services
  - A4 (10%)
    - Ajax and enhancements
- Mid Term Test (15%)
  - October 18 (BA2195)
- Exam (35%)
  - Exam period (Dec 10-21)

### Your TAs
- Ali Juma
  - A1, A4
- Manos Papagelis
  - A2, midterm
- Mehrdad Sabetzadeh
  - A3, exam

### Classroom Policy
- Turn off your cell phone
- Inform the instructor or TA before class if you expect an important call
- Keep ringer off and go outside to talk
- Mute your laptop
- Minimize distractions or disturbances to others

### Assignment Policy
- Assignments will be posted and announced on the course web page
- All assignments are due at 1 pm of the due date
- All work to be submitted electronically on CDF (guidelines to be provided)
- You may use the drop-off box located in BA2220 for hard copy
- Faxed or emailed assignments will NOT be accepted.
- You must work on all assignments by yourself
- Plagiarism/cheating is a serious academic offense

### Assignment Policy (con’t)
- Lateness
  - One grace day per term
  - You must explicitly state that you are using your grace day towards a particular assignment
  - Otherwise, 20% deduction of your mark per 24 hour or less
  - E.g. a score of 90% becomes 72% after one day lateness
  - Assignment 4 must be handed in no later than 6 pm on Dec 7
  - Special circumstances must be reported directly to the instructor
- Re-marking
  - Attend the post-marking office hour (hosted on demand)
  - Initial request must be received within 7 days from the announced return date

### Communication and Email Policy
- Use the course bulletin board for questions and comments
- Main board for general requests (e.g. office hours) and questions
- Use the relevant sub-boards for assignments and tests
- Posts will be replied within 24 hours except on weekend or holidays
- Official announcements are made on the course web page
- Email the instructor or TA only on private matters
  - Email will be replied within 24 hours except on weekend or holidays
  - Include CSC309 in the subject line
Course Topics

- Static client content
- XHTML, CSS
- Dynamic client content
  - JavaScript, DOM, and Java Applets
- Dynamic server content
  - Java Servlets/JSP, and RDBMS
- Web 2.0
  - Ajax, XML
  - Web services
- Operational concepts
  - HTTP, concurrency control, transaction, security
- Web usability

Have a Vision

"The concern for man and his destiny must always be the chief interest of all technical effort. Never forget it between your diagrams and equations."

-- Albert Einstein

Your Expectations

- What have you heard about the course?
- What are your concerns?
- General questions, suggestions, and comments