T-110.5140 Network Application Frameworks

5/2011 Examination

The use of a calculator is ok. All other material is forbidden.

Choose 3 of the 4 topics below and write essays on them. Each topic has additional questions as hints on what kind of material you should include. Discuss other relevant issues as well. Remember to consider what is important and what is not when writing your essay.

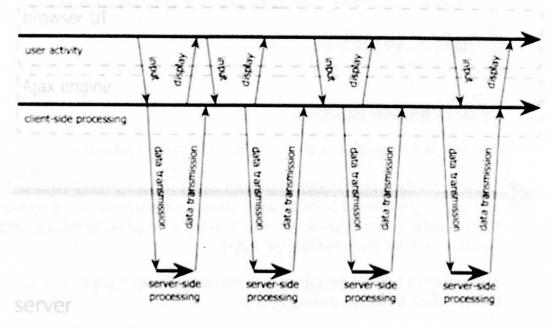
Remember to include the following information in your paper: the course name, date, student ID, name, and signature.

1. SOAP/REST

Compare Web Services (WS_*) and REST approaches. In which cases selecting Web Services would make sense? In which cases REST might make more sense? How do you estimate the future of these two technologies? Remember to justify your views.

2. AJAX

Explain using the attached figure how AJAX works. What are the essential differences to traditional web application? What advantages can be achieved with AJAX? What difficulties does it introduce?



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3. Robots.txt

Attached snippets of text are from two files: robots.txt and http://www.dailymail.co.uk/sitemap-articles-year~2011.xml. Why has the system administrator added these files to the web site? How is the information in the file used and by whom? Explain what the Disallow commands in robots.txt mean? Explain what can be the influence of lastmod date in sitemap?

Robots.txt:

Robots.txt for http://www.dailymail.co.uk/

User-agent: Meltwater

Disallow: /

User-agent: *

Disallow: /*redirect.php?

Disallow: /news/article-1328592/TUITION-FEES-PROTEST-On-roof-

 $students\hbox{-}cheered\hbox{-}Below\hbox{-}thugs\hbox{-}kicked\hbox{-}windows.html$

Disallow: /news/article-1367053/Royal-Wedding-Prince-Harrys-face-replaces-Williams-commemorative-Royal-wedding-cup-blunder.html

Disallow: /news/article-1367053/Ones-got-wrong-mug-Prince-Harrys-face-

replaces-Williams-commemorative-Royal-wedding-cup-

blunder.html?ito=feeds-newsxml

Sitemap files

Sitemap: http://www.dailymail.co.uk/newssitemap.xml

Sitemap: http://www.dailymail.co.uk/sitemap-articles-year~2011.xml

http://www.dailymail.co.uk/sitemap-articles-year~2011.xml:

- <sitemapindex>
- <loc>
 http://www.dailymail.co.uk/sitemap-articles-day~2011-01-01.xml
 </loc>
 clastmod>2011-01-01T00:00:00+00:00</lastmod>
 </sitemap>
- <sitemap>
- <loc>
 http://www.dailymail.co.uk/sitemap-articles-day~2011-01-02.xml
 </loc>

<lastmod>2011-01-02T00:00:00+00:00</lastmod>

4. RDF - Resource Description Framework

</sitemap>

Describe what is RDF. You may use the attached figure in your explanation. What new possibilities can be achieved with the use of RDF? How would RDF be useful in smart spaces applications?

