

TAKE HOME ASSIGNMENT#1

[C#1,2,3,4,5, NETWORK & APPLICATIONS]

Due Date: October 10, 2003 (4x200=800 points)

CS 6/75995 ST: INTERNET-BASED APPLICATIONS

Fall 2003, Department of Computer Science, Kent State University

1. (HTTP conversation) For this assignment I have hidden a HTML page in my Website under URL <http://www.cs.kent.edu/~javed/internetbook/webbook/test-page.html>. Outline the HTTP 1.1 requests and responses that must be carried out between the Browser and the server before this document can be retrieved. List the key fields with their values, and provide an explanation of the dialogue. (You need to read HTTP 1.1 specification. The RFC can be found in the webbook).
2. Explain the advantages and disadvantages of multithreading in the server design. Explain what strategies can be used for concurrency control? What type of thread control adjustments were made in the experiments described in “CSN-1A”?
3. Explain the main roles of “SemTag” and “Seeker” in the CSN-3A. Can you explain the algorithm explained in Fig-2 and Fig-3? I think the authors did not do a good job explaining them. But your score will depend on how well you can make it understandable, perhaps with an example.
4. Explain the edge addition and deletion process in YAPPIR in P2P-1 paper.