INTERNET AND WORLD WIDE WEB
Assignment 1: Web Server

Posted on the 7th March 2019

I. Assignment Description and Requirements

Students are required to develop a Web Server by using Windows Socket Programming C++. The program should be able to serve **multiple requests** concurrently from different Web Browsers. The Web document stored in the Web Server could be HTML file, image or any other resources. The sample programs (namely, "server.cpp" and "client.cpp") can be downloaded from the course Web site. The following is the illustration of the interactions between server and client:

(1) User input the IP address of the Web Server in the address bar of a Web Browser. The Web Browser will make a request to the Web Server as follows:

```
GET   /index.html   HTTP/1.0
```

(2) The Web Server should accept the request, and give a proper response to the Web Browser as follows:

```
HTTP/1.0   200   OK

Content-Type: TEXT/HMTL

Content-Length: 100

...
```

(3) When the Web Browser receives the requested Web Page, it will interpret the content and display on the screen.

II. Assignment Submission

(1) This is a group assignment (up to 2 students). Please send your group members to me by Email on or before the **11th March 2019 (Monday)**.

(2) Students are required to submit the source codes (in a single compressed file) to Dr. Ricky Hou by Email ("rickyhou@uic.edu.hk") on or before the **21st March 2019 (Thursday, before 9:00am)**.

(3) Each group is required to give a 10-minutes English presentation with demonstration on the **21st and 26th March 2019**.