

Project 1 Socket Programming: Web Server.

A detailed description on the assignment can be found in file ***WebServer_programming_lab_only.pdf***. Simply read through the instructions and supply the missing code. Use your own port number (must be larger than 5000) and create your own HTML file, and /or images, etc.. Test your server's ability to retrieve files and return http requests.

Use your own port number (must be **larger than 5000**). Test your server's ability to retrieve files and return http requests. You can create your own HTML files and/or images for testing.

Both the server and a browser can run on the same computer. Find your computer's IP address, or use 127.0.0.1 (this is a loopback address referring to the computer itself).

BONUS: Multithreaded Web Server (25%). Do the "Optional Exercises" #1 on the multithreaded server as described on the third page.

What to submit:

- (a) The complete server code.
- (c) Write a two-page report about your project, including the server IP address and Port #, and your testing cases with the screenshots of your client browser, verifying that the client browser actually receives the contents (e.g., the HTML file, an image) from the server.
- (d) If you completed the BONUS part, submit the complete server code; your report should have an extra page explaining how your multithreaded server works, and the screenshots should show the evidence that at least two threads are running concurrently. You can mark on the screenshots.
- (e) The server code and report should be named with your name.
- (f) When submit, do not zip files, only separate files.
- (g) Grading will use different HTML files. If you submit the bonus part, large files will be used to test Multithreaded Web Server.