

Auto Marking Program Guideline

Things to do for Web Server

- 1. You have to handle message received from Web client with multi thread(Iteration Structure, Single Thread Structure is not acceptable)
- There is a lot of ERROR CODE on HTTP; however, we are going to mark 3 codes 200 OK, 404 NOT FOUND, 400 BAD REQUEST(in 400 BADD REQUEST case, you just need to handle HTTP/1.1 Protocol. If Client send request message as HTTP/1.0 Protocol version you should send 400 BAD REQUEST. It is what you have to do for 400 ERROR CODE)
- 3. You have to make 2 Pages(First Page: Index, Second Page: Image, You can build pages as different names)
 - A. First page header should be text/html and 1024 length
 - B. Second page header should be image/jpeg and 1024 length
 - C. This conditions are for testing criteria
- 4. You have to set HTTP header Content Length as '1024', and Content Type as text/html for first page, Image/jpeg for second page

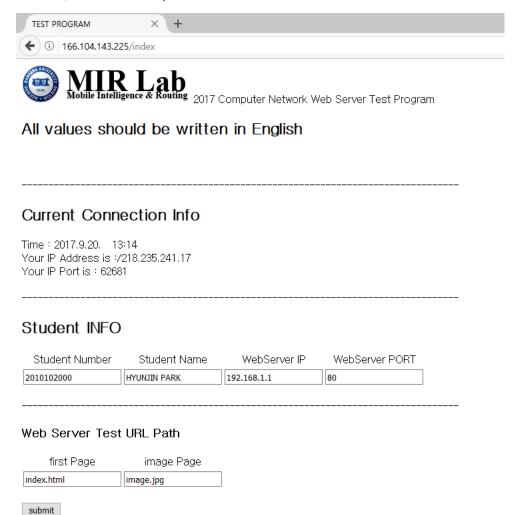
List of grading items

- (1) Socket & Program Handling
 - A. Web Server socket is opened normally
 - B. Multi Thread Web Server should handle message with multi thread on each messages
- (2) Restful API
 - A. You just need to implement 'GET' method
- (3) ERROR Handling and response appropriate with response code
 - A. 200 OK: You should response 200 OK when Web Client approach correct URL that you assign on Web Server
 - B. 404 NOT FOUND: You should response 404 NOT FOUND if Web Client approach WRONG URL that you don't assign on Web Server
 - C. 400 BAD REQUEST: If Client send you request with HTTP/1.0 Version, you should send 400 BAD REQUEST.
- (4) HTTP Header Handling CheckD
 - A. Content Length: We set Content Length as '1024' so as to check if you can handle http header or not
 - B. Content Type: text/html (first Page), image/jpeg (second Page)



How to test?

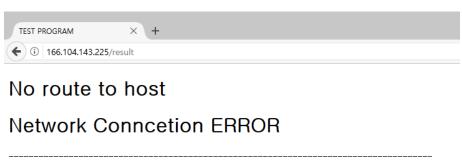
 Approach <u>166.104.143.225/index</u> through your web browser (Internet Explorer, Chrome, Firefox and etc.)



- 2. Fill in the blanks
 - A. Student Number(2017xxxxx)
 - B. Student Name (Should be written in English)
 - C. Your Web Server IP Address. If you are hard to find your global IP, refer to Current Connection Info in case you approaches this web site with the same computer
 - D. Port that you assign for your Web server, Check this out on your Source Code
 - E. First Page that your text/html is located
 - F. Second Page that your Image/jpeg is located



3. ERROR Page



Reason

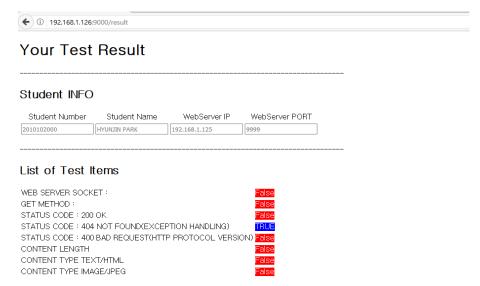
- 1. Firewall Problem // sol. Port Forwarding if possible
- 2. Wrong IP or Port Number

If you are still in trouble, visit ITBT-402-1 or email us phj3372@hanyang.ac.kr

If you confront this page, 2 main reasons are Firewall problem or you had put Wrong Web Server IP Address or Port Number.

- (1) Firewall problem: You have to forward your port through Router. Most routers are available to forward specific port number; however some Router is impossible to forward part because of Telecom policy, in this case visit ITBT/402-1 and test it as local address.
- (2) Check your Web Server IP address or Port

4. Result Page



(1) You can see what is wrong or correct with Reason

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