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SCALE FOR PROJECT WEBSERV (HTTPS://PROJECTS.INTRA.42.FR/PROJECTS/WEBSERV)

You should evaluate 3 students in this team

Introduction

Please comply with the following rules:

- Remain polite, courteous, respectful and constructive throughout the evaluation process. The well-being of the community depends on it.
- Identify with the student or group whose work is evaluated the possible dysfunctions in their project. Take the time to discuss and debate the problems that may have been identified.
- You must consider that there might be some differences in how your peers might have understood the project's instructions and the scope of its functionalities. Always keep an open mind and grade them as honestly as possible. The pedagogy is useful only and only if the peer-evaluation is done seriously.

Guidelines

- Only grade the work that was turned in the Git repository of the evaluated student or group.
- Double-check that the Git repository belongs to the student(s). Ensure that the project is the one expected. Also, check that 'git clone' is used in an empty folder.
- Check carefully that no malicious aliases was used to fool you and make you evaluate something that is not the content of the official repository.
- To avoid any surprises and if applicable, review together any scripts used to facilitate the grading (scripts for testing or automation).
- If you have not completed the assignment you are going to evaluate, you have to read the entire subject prior to starting the evaluation process.
- Use the available flags to report an empty repository, a non-functioning program, a Norm error, cheating, and so forth.

 In these cases, the evaluation process ends and the final grade is 0. Give this repository a star. (https://github.com/rphlr/42-Evals) or -42 in case of cheating. However, except for cheating, student are strongly encouraged to review together the work that was turned in, in order

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to identify any mistakes that shouldn't be repeated in the future.

- Remember that for the duration of the defence, no segfault, no other unexpected, preserved, whether of the program, else the final grade is 0. Use the appropriate flag. You should never have to edit any file except the configuration file if it exists. If you want to edit a file, take the time to explicit the reasons with the evaluated student and make sure both of you are okay with this.
- You must also verify the absence of memory leaks. Any memory allocated on the heap must be properly freed before the end of execution. You are allowed to use any of the different tools available on the computer, such as leaks, valgrind, or e_fence. In case of memory leaks, tick the appropriate flag.

Attachments

subject.pdf (https://github.com/rphlr/42-Subjects/blob/main/Rank05/webserv)

tester (https://github.com/rphlr/42-Subjects/raw/main/Rank05/webserv/tester)

ubuntu cgi tester (https://github.com/rphlr/42-Subjects/raw/main/Rank05/webserv/ubuntu cgi tester)

cgi tester (https://github.com/rphlr/42-Subjects/raw/main/Rank05/webserv/cgi_tester)

ubuntu_tester (https://github.com/rphlr/42-Subjects/raw/main/Rank05/webserv/ubuntu_tester)

Mandatory Part

Check the code and ask questions

- · Launch the installation of siege with homebrew.
- Ask explanations about the basics of an HTTP server.
- Ask what function the group used for I/O Multiplexing.
- Ask for an explanation of how does select() (or equivalent) work.
- Ask if they use only one select() (or equivalent) and how they've managed the server to accept and the client to read/write.
- The select() (or equivalent) should be in the main loop and should check file descriptors for read and write AT THE SAME TIME. If not, the grade is 0 and the evaluation process ends now.
- There should be only one read or one write per client per select() (or equivalent). Ask the group to show you the code from the select() (or equivalent) to the read and write of a client.
- Search for all read/recv/write/send on a socket and check that, if an error is returned, the client is removed.
- Search for all read/recv/write/send and check if the returned value is correctly checked (checking only -1 or 0 values is not enough, both should be checked).
- If errno is checked after read/recv/write/send, the grade is 0 and the evaluation process ends now.
- Writing or reading ANY file descriptor without going through the select() (or equivalent) is strictly EORBIDDEN.
- The project must compile without any re-link ssue. If not, use the invalid (https://github.com/rphlr/42-Evals)
- If any point is unclear or is not correct, the evaluation stops.

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Yes No

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In the configuration file, check whether you can do the following and test the result:

- Search for the HTTP response status codes list on the internet. During this evaluation, if any status codes is wrong, don't give any related points.
- Setup multiple servers with different ports.
- Setup multiple servers with different hostnames (use something like: curl --resolve example.com:80:127.0.0.1 http://example.com/ (http://example.com/)).
- Setup default error page (try to change the error 404).
- Limit the client body (use: curl -X POST -H "Content-Type: plain/text" --data "BODY IS HERE write something shorter or longer than body limit").
- Setup routes in a server to different directories.
- · Setup a default file to search for if you ask for a directory.
- Setup a list of methods accepted for a certain route (e.g., try to delete something with and without permission).

Yes No

Basic checks

Using telnet, curl, prepared files, demonstrate that the following features work properly:

- · GET, POST and DELETE requests should work.
- UNKNOWN requests should not result in a crash.
- For every test you should receive the appropriate status code.
- · Upload some file to the server and get it back.

Yes No

Check CGI

Pay attention to the following:

- The server is working fine using a CGI.
- The CGI should be run in the correct directory for relative path file access.
- With the help of the students you should check that everything is working properly. You have to test the CGI with the "GET" and "POST" methods.
- You need to test with files containing errors to see if the error handling works properly. You can use a script
 containing an infinite loop or an error; you are free to do whatever tests you want within the limits of
 acceptability that remain at your discretion. The group being evaluated should help you with this.

The server should never crash and an error should be visible in case of a problem.

Yes No
Give this repository a star.

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Check with a browser

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• Use the reference browser of the team. Open the network part of it, and try to connect to the server using it.

- Look at the request header and response header.
- It should be compatible to serve a fully static website.

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- · Try to list a directory.
- Try a redirected URL.
- Try anything you want to.

Yes No

Port issues

- In the configuration file setup multiple ports and use different websites. Use the browser to ensure that the configuration works as expected and shows the right website.
- In the configuration, try to setup the same port multiple times. It should not work.
- Launch multiple servers at the same time with different configurations but with common ports. Does it work? If it does, ask why the server should work if one of the configurations isn't functional. Keep going.

Yes		No	

Siege & stress test

- · Use Siege to run some stress tests.
- Availability should be above 99.5% for a simple GET on an empty page with a siege -b on that page.
- · Verify there is no memory leak (Monitor the process memory usage. It should not go up indefinitely).
- · Check if there is no hanging connection.
- You should be able to use siege indefinitely without having to restart the server (take a look at siege -b).

Yes	No

Bonus part

Evaluate the bonus part if, and only if, the mandatory part has been entirely and perfectly done, and the error management handles unexpected or bad usage. In case all the mandatory points were not passed during the defense, bonus points must be totally ignored.

Cookies and session

There is a working session and cookies system on the webserver.

Yes	No

CGI

There is more than one CGI system.

Yes Give this repository a star. ★ (https://github.com/rphlr/42-Evals)