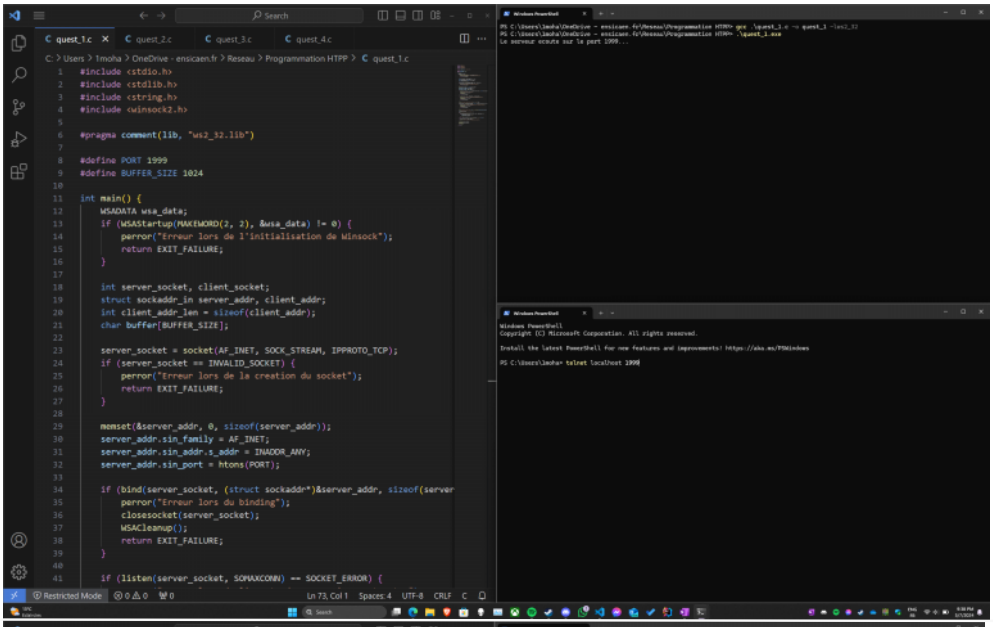
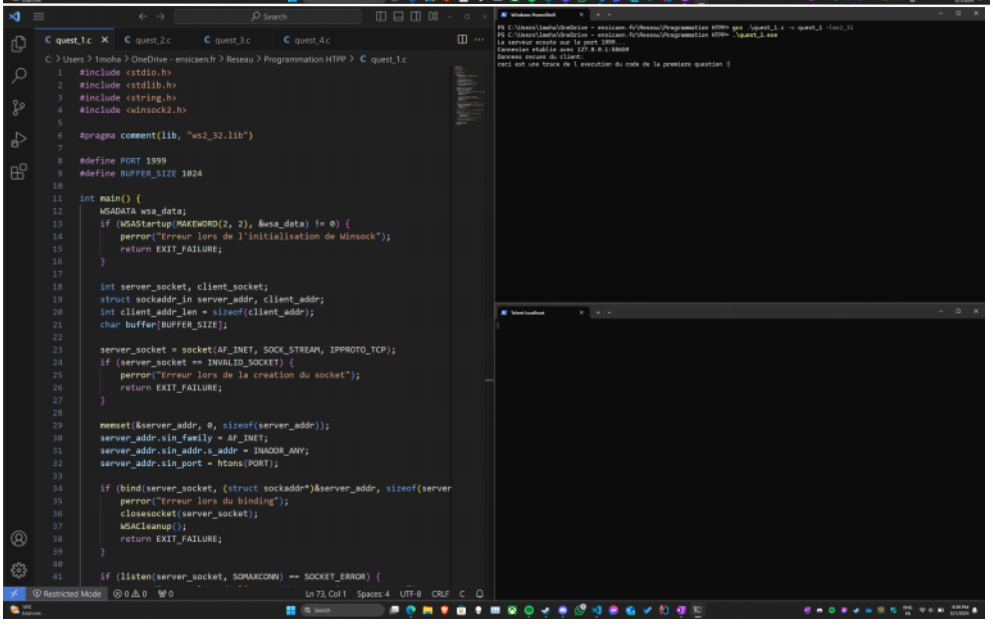
Programmation HTTP - TOUJANI Mohamed - Trace d'exécution

Tuesday, May 7, 2024 9:38 PM

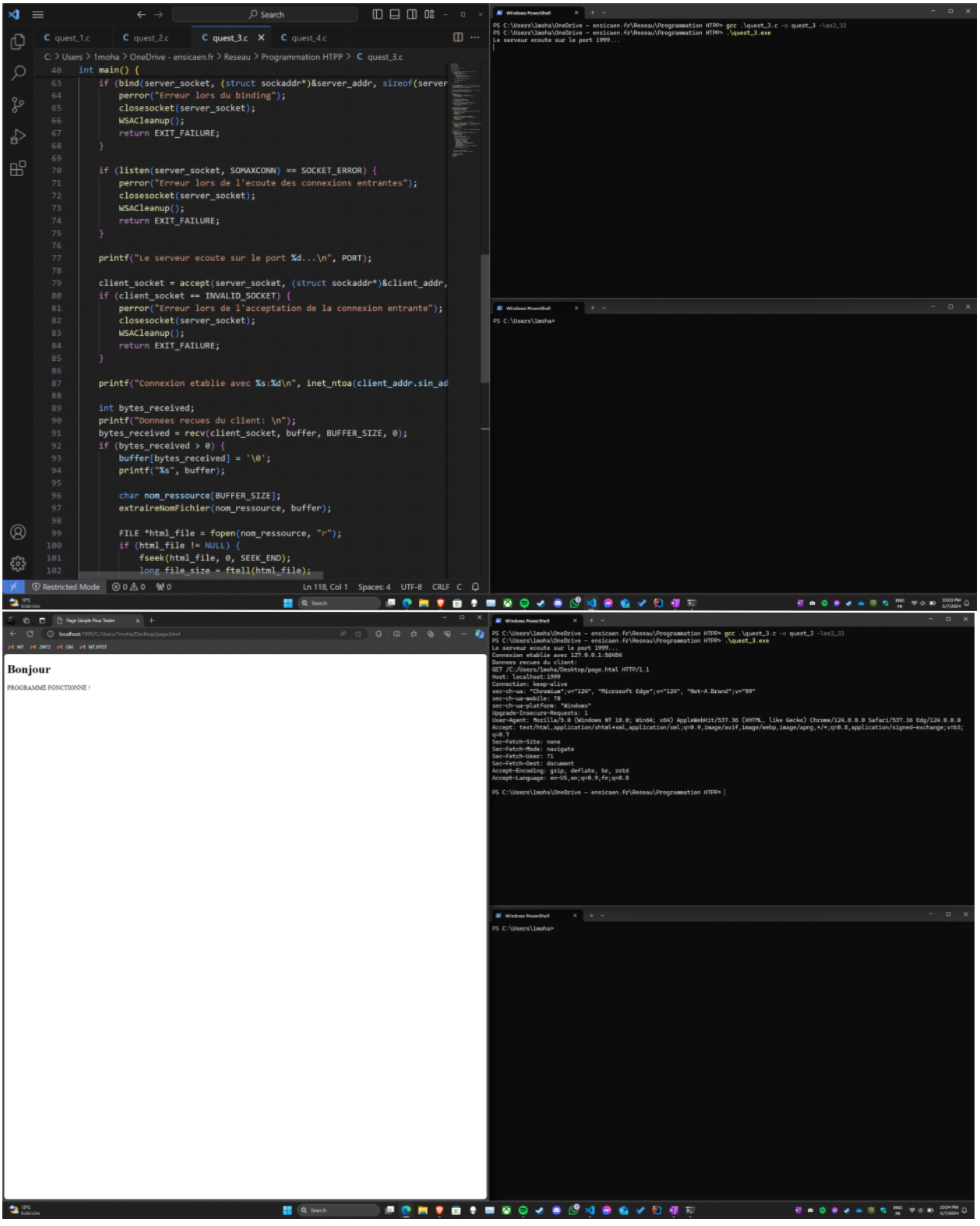
EXECUTION, CODAGE ET DEBUGGING DONE ON WINDOWS AND NOT ON LINUX!

QUESTION 1

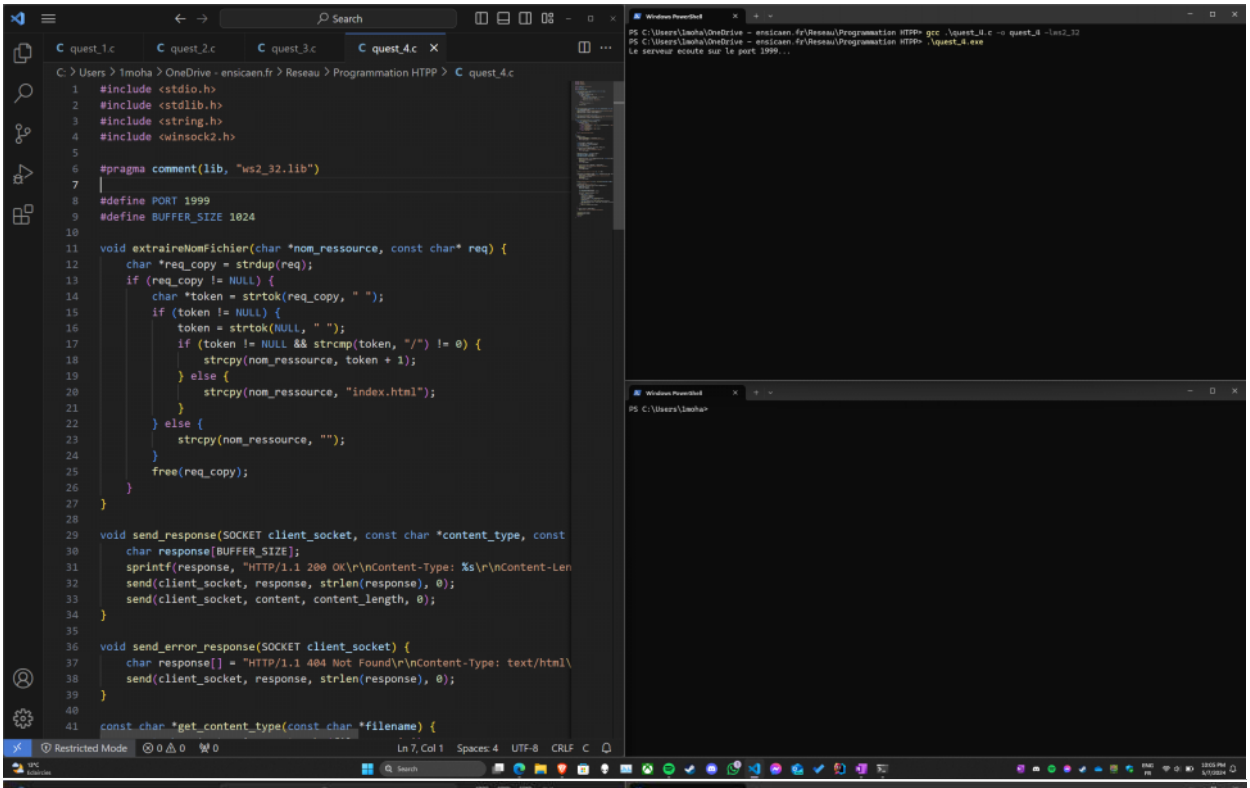


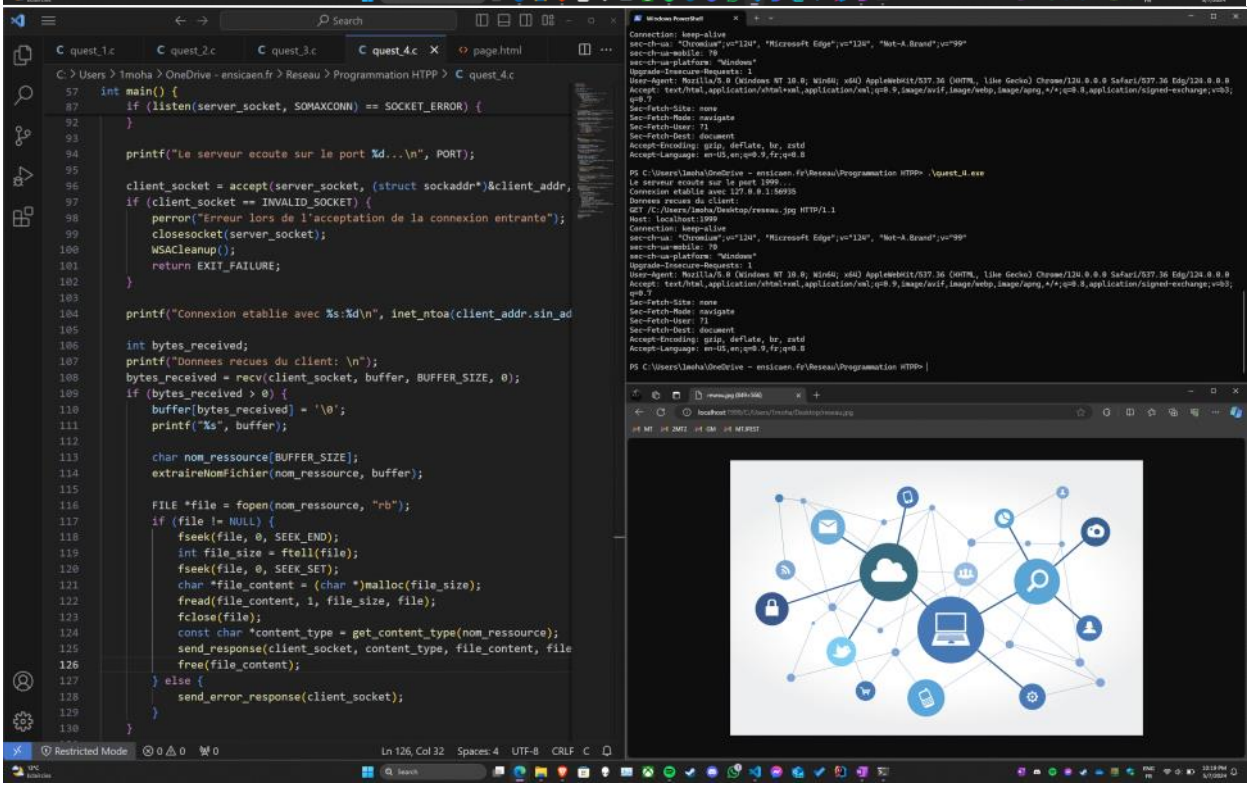


Question 3


quest_1.c
quest_2.c
quest_3.c
quest_4.c
int main() {
if (bind(server_socket, (struct sockaddr*)&server_addr, sizeof(server
perror("Erreur lors du binding");
closesocket(server_socket);
WSACleanup();
return EXIT_FAILURE;
}
if (listen(server_socket, SOMAXCONN) == SOCKET_ERROR) {
perror("Erreur lors de l'ecoute des connexions entrantes");
closesocket(server_socket);
WSACleanup();
return EXIT_FAILURE;
}
printf("Le serveur ecoute sur le port %d...\n", PORT);
client_socket = accept(server_socket, (struct sockaddr*)&client_addr,
if (client_socket == INVALID_SOCKET) {
perror("Erreur lors de l'acceptation de la connexion entrante");
closesocket(server_socket);
WSACleanup();
return EXIT_FAILURE;
}
printf("Connexion etablie avec %s:%d\n", inet_ntoa(client_addr.sin_ad
int bytes_received;
printf("Donnees recues du client: \n");
bytes_received = recv(client_socket, buffer, BUFFER_SIZE, 0);
if (bytes_received > 0) {
buffer[bytes_received] = '\0';
printf("%s", buffer);
char nom_ressource[BUFFER_SIZE];
extraireNomFichier(nom_ressource, buffer);
FILE *html_file = fopen(nom_ressource, "r");
if (html_file != NULL) {
fseek(html_file, 0, SEEK_END);
long file_size = ftell(html_file);
Restricted Mode
Ln 118, Col 1
Spaces: 4
UTF-8
CRLF
C
PS C:\Users\lmoha\OneDrive - ensicaen.fr\Reseau\Programmation HTPP> gcc .\quest_3.c -o quest_3 -lws2_32
PS C:\Users\lmoha\OneDrive - ensicaen.fr\Reseau\Programmation HTPP> .\quest_3.exe
Le serveur ecoute sur le port 1999...
PS C:\Users\lmoha>
Bonjour
PROGRAMME FONCTIONNE !
Le serveur ecoute sur le port 1999...
Connexion etablie avec 127.0.0.1:56456
Donnees recues du client:
GET /C:/Users/lmoha/Desktop/page.html HTTP/1.1
Host: localhost:1999
Connection: keep-alive
sec-ch-ua: "Chromium";v="124", "Microsoft Edge";v="124", "Not-A.Brand";v="99"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/124.0.0.0 Safari/537.36 Edg/124.0.0.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;
q=0.7
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Accept-Encoding: gzip, deflate, br, zstd
Accept-Language: en-US,en;q=0.9,fr;q=0.8
PS C:\Users\lmoha\OneDrive - ensicaen.fr\Reseau\Programmation HTPP>
PS C:\Users\lmoha>

Question 4


quest_1.c
quest_2.c
quest_3.c
quest_4.c
C: > Users > 1moha > OneDrive - ensicaen.fr > Reseau > Programmation HTPP > C quest_4.c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <winsock2.h>
#pragma comment(lib, "ws2_32.lib")
#define PORT 1999
#define BUFFER_SIZE 1024
void extraireNomFichier(char *nom_ressource, const char* req) {
char *req_copy = strdup(req);
if (req_copy != NULL) {
char *token = strtok(req_copy, " ");
if (token != NULL) {
token = strtok(NULL, " ");
if (token != NULL && strcmp(token, "/") != 0) {
strcpy(nom_ressource, token + 1);
} else {
strcpy(nom_ressource, "index.html");
}
} else {
strcpy(nom_ressource, "");
}
free(req_copy);
}
}
void send_response(SOCKET client_socket, const char *content_type, const
char response[BUFFER_SIZE];
sprintf(response, "HTTP/1.1 200 OK\r\nContent-Type: %s\r\nContent-Len
send(client_socket, response, strlen(response), 0);
send(client_socket, content, content_length, 0);
}
void send_error_response(SOCKET client_socket) {
char response[] = "HTTP/1.1 404 Not Found\r\nContent-Type: text/html\
send(client_socket, response, strlen(response), 0);
}
const char *get_content_type(const char *filename) {
Restricted Mode
Ln 7, Col 1
Spaces: 4
UTF-8
CRLF
C
PS C:\Users\1moha\OneDrive - ensicaen.fr\Reseau\Programmation HTPP> gcc .\quest_4.c -o quest_4 -lws2_32
PS C:\Users\1moha\OneDrive - ensicaen.fr\Reseau\Programmation HTPP> .\quest_4.exe
Le serveur ecoute sur le port 1999...
PS C:\Users\1moha>


quest_1.c
quest_2.c
quest_3.c
quest_4.c
page.html
C: > Users > 1moha > OneDrive - ensicaen.fr > Reseau > Programmation HTPP > C quest_4.c
int main() {
if (listen(server_socket, SOMAXCONN) == SOCKET_ERROR) {
}
printf("Le serveur ecoute sur le port %d...\n", PORT);
client_socket = accept(server_socket, (struct sockaddr*)&client_addr,
if (client_socket == INVALID_SOCKET) {
perror("Erreur lors de l'acceptation de la connexion entrante");
closesocket(server_socket);
WSACleanup();
return EXIT_FAILURE;
}
printf("Connexion etablie avec %s:%d\n", inet_ntoa(client_addr.sin_ad
int bytes_received;
printf("Donnees recues du client: \n");
bytes_received = recv(client_socket, buffer, BUFFER_SIZE, 0);
if (bytes_received > 0) {
buffer[bytes_received] = '\0';
printf("%s", buffer);
char nom_ressource[BUFFER_SIZE];
extraireNomFichier(nom_ressource, buffer);
FILE *file = fopen(nom_ressource, "rb");
if (file != NULL) {
fseek(file, 0, SEEK_END);
int file_size = ftell(file);
fseek(file, 0, SEEK_SET);
char *file_content = (char *)malloc(file_size);
fread(file_content, 1, file_size, file);
fclose(file);
const char *content_type = get_content_type(nom_ressource);
send_response(client_socket, content_type, file_content, file
free(file_content);
} else {
send_error_response(client_socket);
}
}
Restricted Mode
Ln 126, Col 32
Spaces: 4
UTF-8
CRLF
C
Connection: keep-alive
sec-ch-ua: "Chromium";v="124", "Microsoft Edge";v="124", "Not-A.Brand";v="99"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/124.0.0.0 Safari/537.36 Edg/124.0.0.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;
q=0.7
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Accept-Encoding: gzip, deflate, br, zstd
Accept-Language: en-US,en;q=0.9,fr;q=0.8
PS C:\Users\1moha\OneDrive - ensicaen.fr\Reseau\Programmation HTPP> .\quest_4.exe
Le serveur ecoute sur le port 1999...
Connexion etablie avec 127.0.0.1:56935
Donnees recues du client:
GET /C:/Users/1moha/Desktop/reseau.jpg HTTP/1.1
Host: localhost:1999
Connection: keep-alive
sec-ch-ua: "Chromium";v="124", "Microsoft Edge";v="124", "Not-A.Brand";v="99"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/124.0.0.0 Safari/537.36 Edg/124.0.0.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;
q=0.7
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Accept-Encoding: gzip, deflate, br, zstd
Accept-Language: en-US,en;q=0.9,fr;q=0.8
PS C:\Users\1moha\OneDrive - ensicaen.fr\Reseau\Programmation HTPP>