

Webserv

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1 webserv	1
2 Class Index	3
2.1 Class List	3
3 File Index	5
3.1 File List	5
4 Class Documentation	7
4.1 Client Class Reference	7
4.2 location_s Struct Reference	7
4.3 Parser Class Reference	8
4.4 Server Class Reference	8
4.5 Service Class Reference	8
4.6 serviceInfo Struct Reference	9
4.7 Token Struct Reference	9
5 File Documentation	11
5.1 Client.hpp	11
5.2 defines.hpp	12
5.3 Parser.hpp	13
5.4 Server.hpp	15
5.5 Service.hpp	16
5.6 utils.hpp	17
5.7 webserv.hpp	17
5.8 /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/src/Client.cpp File Reference	17
5.8.1 Detailed Description	18
Index	19

Chapter 1

webserv

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Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Client	7
location_s	7
Parser	8
Server	8
Service	8
serviceInfo	9
Token	9

Chapter 3

File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/ Client.hpp	11
/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/ defines.hpp	12
/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/ Parser.hpp	13
/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/ Server.hpp	15
/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/ Service.hpp	16
/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/ utils.hpp	17
/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/ webserv.hpp	17
/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/src/ Client.cpp	17

Chapter 4

Class Documentation

4.1 Client Class Reference

Public Member Functions

- **Client** ([Server](#) server, int socket)
- void **appendRequest** (char const *buffer, size_t size)
- bool **isTimeout** () const
- bool **clientsReadyToReceive** () const
- void **handleClientRequest** ()
- const std::string & **getRequest** () const
- const [Server](#) & **getServer** () const
- void **changeServer** ([Server](#) server)

The documentation for this class was generated from the following files:

- /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/Client.hpp
- /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/src/[Client.cpp](#)

4.2 location_s Struct Reference

Public Attributes

- std::string **root**
- std::vector< std::string > **methods**
- std::string **redirect**
- bool **autoindex**
- std::string **tryFile**
- bool **hasCGI**
- std::string **cgiPath**
- std::string **cgiExtension**
- std::string **uploadTo**

The documentation for this struct was generated from the following file:

- /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/Server.hpp

4.3 Parser Class Reference

Public Member Functions

- **Parser** (int argc, char **argv)
- std::vector< [Server](#) > & **getServersVector** ()
- std::set< std::string > **getSupportedExtensions** ()

The documentation for this class was generated from the following files:

- /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/Parser.hpp
- /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/src/Parser.cpp

4.4 Server Class Reference

Public Member Functions

- **Server** (std::vector< [Server](#) > &_serversVector, std::map< std::string, std::string > tempServerConfigMap, std::vector< std::map< std::string, std::string > > tempLocationMapVector)
- void **createSocket** ()
- bool **getIsDefault** ()
- const std::string & **getHost** () const
- const std::string & **getPort** () const
- int **getSocket** () const
- const std::string & **getServerName** () const
- const std::string & **getRoot** () const
- const std::string & **getIndex** () const
- const std::string & **getErrorPage** () const
- const std::string & **getErrorResponse** () const
- size_t **getClientMaxBodySize** () const
- void **printServers** ()
- void **printLocation** ([location_t](#) loc)

The documentation for this class was generated from the following files:

- /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/Server.hpp
- /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/src/Server.cpp

4.5 Service Class Reference

Public Member Functions

- **Service** (int argc, char **argv)
- void **setup** ()
- void **launch** ()
- void **printServersInfo** ()
- void **printServiceInfo** ()

The documentation for this class was generated from the following files:

- /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/Service.hpp
- /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/src/Service.cpp

4.6 serviceInfo Struct Reference

Public Attributes

- addinfo **parameters**
- addinfo * **address**
- std::string **host**
- std::string **port**
- int **listeningSocketFd**
- int **clientID**
- int **serverID**
- int **connectionSocketFd**
- int **pollID**
- short **mode**
- bool **launch**

The documentation for this struct was generated from the following file:

- /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/Service.hpp

4.7 Token Struct Reference

Public Attributes

- eToken **type**
- std::string **value**

The documentation for this struct was generated from the following file:

- /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/Parser.hpp

Chapter 5

File Documentation

5.1 Client.hpp

```
00001 #ifndef CLIENT_HPP
00002 #define CLIENT_HPP
00003
00004 #include "defines.hpp"
00005 #include "Server.hpp"
00006 #include "utils.hpp"
00007
00008 class Client
00009 {
00010     private:
00011         Server      _server;
00012         int         _socket;
00013         bool        _sentRequest;
00014         std::string _request;
00015         time_t      _lastRequest;
00016         std::string _resourcePath; //path to the ressource ../site/page
00017         std::string _method; //GET POST DELETE
00018
00019         std::string _requestPayload;
00020         std::map<std::string, std::string> _headers;
00021
00022
00023         //befor sending request to the Client
00024
00025         void      _checkRequest();
00026         void      _checkFirstLine(std::stringstream &ss);
00027         void      _checkAndGetHeaders(std::stringstream &ss);
00028         void      _checkAndGetPayload(std::stringstream &ss);
00029         void      _checkLocation(std::string &root, std::string &resource, size_t loopCount);
00030
00031
00032         Client();
00033
00034     public:
00035         Client(Server server, int socket);
00036         ~Client();
00037
00038         void      appendRequest(char const *buffer, size_t size);
00039         bool      isTimeout() const;
00040         bool      clientIsReadyToReceive() const;
00041
00042
00043         // void      sendResponseToClient();
00044         void      handleClientRequest(); //Janneta's function
00045
00046
00047
00048
00049
00050         const std::string& getRequest() const;
00051         const Server&      getServer() const;
00052         void               changeServer(Server server);
00053 };
00054
00055 #endif
```

5.2 defines.hpp

```

00001 #ifndef DEFINES_HPP
00002 #define DEFINES_HPP
00003
00004 // standart libraries
00005 #include <iostream>
00006 #include <csignal>
00007 #include <string>
00008 #include <cstring>
00009 #include <iomanip>
00010 #include <ctime>
00011 #include <exception>
00012 #include <map>
00013 #include <fstream>
00014 #include <sstream>
00015 #include <vector>
00016 #include <regex>
00017 #include <fcntl.h>
00018 #include <stdexcept>
00019 #include <cctype>
00020 #include <unistd.h>
00021 #include <set>
00022 #include <sys/stat.h>
00023 #include <sys/types.h>
00024 #include <dirent.h>
00025 #include <sys/socket.h>
00026 #include <netdb.h>
00027 #include <arpa/inet.h>
00028 #include <poll.h>
00029
00030 // Global variables
00031 extern bool g_shutdown;
00032
00033 //Default settings
00034
00035 #define POLL_TIME_OUT      200      // 200ms
00036 #define MAX_PENDING        10      // Maximum number of pending connections
00037 #define BUFFER_SIZE        2048    // 2KB
00038 #define SENT_TIMEOUT       60      // 60s
00039
00040 // Charset
00041 #define REQUEST_END         "\r\n\r\n"
00042 #define CURSOR_NEWLINE      "\r\n"
00043 #define REQUEST_HOST        "Host: "
00044
00045
00046
00047 // Custom Outputs
00048 #define RED                 "\033[0;31m"
00049 #define GREEN               "\033[0;32m"
00050 #define BLUE                "\033[0;34m"
00051 #define RESET               "\033[0m"
00052 #define CLEAR               "\033c"
00053
00054
00055 // printInfo messages
00056 #define START_MSG           "Webserv is starting..."
00057 #define END_MSG             "Webserv shutdowned"
00058 #define SHUTDOWN_MSG       "Webserv is shutting down..."
00059 #define SET_SERVER_MSG(host, port) "Server " + host + ":" + port + " setup complete"
00060 #define LAUNCH_MSG         "Launching servers..."
00061 #define EMPTY_MSG          ""
00062 #define POLLERR_MSG        "Connection closed. Error: POLLERR"
00063 #define POLLHUP_MSG        "Connection closed. Error: POLLHUP"
00064 #define POLLNVAL_MSG       "Connection closed. Error: POLLNVAL"
00065 #define CLOSE_MSG          "Connection closed"
00066 #define TIMEOUT_MSG        "Connection closed. Timeout"
00067
00068 // Parser check input errors
00069 #define ERR_ARG              "Invalid arguments\n\tUsage: ./webserv [config_file]"
00070 #define ERR_FILE_CONF(confFile) "'"+ confFile + "' is a invalid file\n\tFile must have a name and must be .conf"
00071 #define ERR_OPEN            "Couldn't open file "
00072 #define ERR_NO_SERVER_CONFIG "There is no bloc server in the configuration file "
00073
00074 //Parser token error
00075 #define ERR_INVALID_KEY(line) "Invalid keyword on line: '" + line + "'"
00076 #define ERR_SEMICOLON(line) "Missing ';' at line '" + line + "'"
00077 #define ERR_CLOSING_BRACKETS "Missing closing bracket"
00078 #define ERR_OPENING_BRACKET "Missing opening bracket"
00079 #define ERR_SERV_FORBIDDEN_DIRECTIVE(directive) "Directive '" + directive + "' is not allowed in Server block"
00080 #define ERR_LOC_FORBIDDEN_DIRECTIVE(directive) "Directive '" + directive + "' is not allowed in Location block"
00081
00082 //Bloc Server error

```



```

00083 #define ERR_PORT_INPUT(port)          "'"+ port + "' is not a valid port number. Port must be a
      number between 0 and 65535"
00084 #define ERR_HOST_INPUT(host)           "'"+ host + "' is not a valid host name or ip adresse."
00085 #define ERR_DIRECTORY(path)            "'"+ path + "' is not a valid directory"
00086 #define ERR_NOT_FILE_NOT_DIR(path)     "'"+ path + "' is neither a regular file nor a
      directory."
00087 #define ERR_FILE_INFO(path)             "Error retrieving file info for: '" + path + "'"
00088 #define ERR_OPEN_DIR(path)              "Unable to open directory: '" + path + "'"
00089 #define ERR_PATH(path)                  "'"+ path + "' is not a valid path"
00090 #define ERR_WRITE_PERM(path)            "Write access denied for path: '" + path + "'"
00091 #define ERR_SERV_DIRECTIVE_MISSING(directive) "Missing Directive '" + directive + "' in Server
      block"
00092 #define ERR_LOC_DIRECTIVE_MISSING(directive) "Missing Directive '" + directive + "' in Location
      block"
00093 #define ERR_FILE(file)                   "Couldn't open file '" + file + "' ."
00094 #define ERR_MAX_SIZE_INPUT(size)        "'"+ size + "' is not a valid size. Size must be a number
      positive or a number followed by a suffix (b - B, k - K, m - M, g - G)"
00095 #define ERR_MAX_SIZE_RANGE(size)        "'"+ size + "' is not a valid size. The max value allowed
      is 10G (10737418240 bytes)"
00096 #define ERR_MAX_SIZE_CONVERSION(size)    "'"+ size + "' is not a valid number."
00097 #define ERR_MAX_SIZE_CONVERSION_LONG(size) "'"+ size + "' is a number too large for long."
00098 #define ERR_INVALID_SERVER_NAME(server) "'"+ server + "' is not a valid server name, only
      alphanumeric, hyphens, and periods are allowed "
00099
00100 //Bloc Location Error
00101 #define ERR_LOCATION(path)               "Location's path needs to begin with a '/' "
00102 #define ERR_INVALID_METHOD(method, directive) "The method '" + method + "' in the directive'value
      :'" + directive + "' ."
00103 #define ERR_AUTOINDEX                    "The autoindex value should be 'on' or 'off'"
00104 #define ERR_ERR_CGI_DOT(extension)       "Extension '" + extension + "' must start with a point
      (.)"
00105 #define ERR_ERR_CGI_EXT(extension)       "Unsupported CGI extension: '" + extension + "'"
00106
00107
00108 //Setup Error
00109 #define ERR_SOCKET(server)               "failed to create network socket for server " + server
00110
00111
00112 // Service setServersAddress errors
00113 #define ERR_SET_SOCKET                    "setsockopt() failed: "
00114 #define ERR_GET_ADDR_INFO                "getaddrinfo() failed: "
00115 #define ERR_BIND_SOCKET                  "bind() failed: "
00116 #define ERR_LISTEN_SOCKET                "listen() failed: "
00117
00118 // Default settings
00119 #define DEFAULT_CONF                      "confFiles/default.conf"
00120
00121 // Service launch errors
00122 #define ERR_POLL_FAIL                     "poll() failed"
00123 #define ERR_ACCEPT_SOCKET                "accept() failed"
00124
00125 // Server parameters
00126 #define SERVER                           "server"
00127 #define LISTEN                            "listen"
00128 #define HOST                             "host"
00129 // #define ROOT                            "root"
00130 #define INDEX                            "index"
00131 #define MAX_SIZE                          "client_max_body_size"
00132 #define SERVER_N                          "server_name"
00133 #define ERROR_P                          "error_page"
00134
00135 // Servers' Location parameters
00136 #define LOCATION                          "location"
00137 #define ALLOW_M                           "allow_methods"
00138 #define TRY                              "try_file"
00139 #define RETURN                           "return"
00140 #define AUTOID                           "autoindex"
00141 #define ROOT_LOC                         "root"
00142 #define UPLOAD                           "upload_to"
00143 #define CGI_P                            "cgi_path"
00144 #define CGI_E                            "cgi_ext"
00145
00146 #endif

```

5.3 Parser.hpp

```

00001 #ifndef PARSER_HPP
00002 #define PARSER_HPP
00003
00004 #include "defines.hpp"
00005 #include "Server.hpp"
00006 #include "utils.hpp"
00007

```

```

00008 enum eToken {
00009     TK_SERVER,
00010     TK_LOCATION,
00011     TK_CLOSE_BRACKET,
00012     TK_TOKEN,
00013     TK_ERROR,
00014     TK_EMPTY,
00015     TK_COMMENT
00016 };
00017
00018 class Server;
00019 // struct location_t;
00020
00021 struct Token
00022 {
00023     eToken type;
00024     std::string value;
00025 };
00026
00027 typedef std::vector<Server> serverVector;
00028
00029 class Parser{
00030
00031     private:
00032         void _checkInputArg(int argc, char **argv);
00033         void _parseFile();
00034         void _checkBracket();
00035         void _getConfigAndInitServers();
00036         void _getConfigFromTokens();
00037         void _getParamFromToken(int enumToken);
00038         void _getServerParam();
00039         void _checkServerParam();
00040         void _getLocationParam();
00041         void _checkLocationParam();
00042         void _checkDirectiveName();
00043         void _checkDirectiveValue();
00044         void _checkLocDirName();
00045         void _checkLocDirValue();
00046         void _checkConfigs();
00047         void _delEndSemiColon(std::string& s);
00048         void _checkPath(std::string& dirValue, bool isDir, bool hasWPer = false);
00049
00050         //Directives checking functions:
00051         void _checkListen(std::string& dirValue);
00052
00053         void _checkHost(std::string& dirValue);
00054         bool _isValidIpAddress(const std::string& str);
00055         bool _isValidHostName(const std::string& str);
00056         void _checkRoot(std::string& dirValue);
00057         void _checkIndex(std::string& dirValue);
00058         void _checkMaxSize(std::string& dirValue);
00059         void _checkServerN(std::string& dirValue);
00060         void _checkErrorP(std::string& dirValue);
00061
00062         //Directives' Location checking functions:
00063         void _checkLocation(std::string& dirValue);
00064         void _checkAllowM(std::string& dirValue);
00065         void _checkTry(std::string& dirValue);
00066         void _checkReturn(std::string& dirValue);
00067         void _checkAutoID(std::string& dirValue);
00068         void _checkRootLoc(std::string& dirValue);
00069         void _checkUpload(std::string& dirValue);
00070         void _checkCgiP(std::string& dirValue);
00071         void _checkCgiE(std::string& dirValue);
00072
00073
00074
00075         size_t _nServer;
00076         size_t _nbLine;
00077
00078
00079         std::string _confFilePath;
00080         std::ifstream _confFile;
00081         std::vector<Token> _tokensVector;
00082
00083         std::vector<Server> _serversVector;
00084         std::map<std::string, std::string> _tempServerConfigMap;
00085
00086         std::vector<std::map<std::string, std::string> > _tempLocationMapVector;
00087         std::map<std::string, std::string> _tempLocationConfigMap;
00088         std::vector<location_t> _tempLocationVector;
00089         location_t _tempLocation;
00090         std::string _tempRootDirPath;
00091
00092
00093
00094     public:

```

```

00095         Parser(int argc, char **argv);
00096         ~Parser();
00097         std::vector<Server>& getServersVector();
00098         std::set<std::string> getSupportedExtensions();
00099
00100
00101     };
00102 #endif

```

5.4 Server.hpp

```

00001 #ifndef SERVER_HPP
00002 #define SERVER_HPP
00003
00004 #include "defines.hpp"
00005 #include "utils.hpp"
00006
00007 typedef struct location_s
00008 {
00009     std::string                root;
00010     std::vector<std::string>   methods;
00011     std::string                redirect;
00012     bool                       autoindex;
00013     std::string                tryFile;
00014     bool                       hasCGI;
00015     std::string                cgiPath;
00016     std::string                cgiExtension;
00017     std::string                uploadTo;
00018 } location_t;
00019
00020 class Server{
00021     private:
00022         std::string                _serverName;
00023         std::string                _port;
00024         std::string                _host;
00025         std::string                _root;
00026         std::string                _index;
00027         long                       _clientMaxBodySize;
00028         std::string                _errorPage;
00029         std::string                _errorResponse;
00030         std::vector<location_t>    _tempLocationVector;
00031         bool                       _isDefault;
00032         int                        _socket;
00033
00034         bool                       _checkDefaultServer(std::vector<Server>& _serversVector);
00035         long                       _getConvertedMaxSize(std::string& maxSizeStr);
00036
00037
00038
00039         //Servers
00040         // std::vector<Server>                _serversVector;
00041         std::map<std::string, std::string>    _ServerConfigMap;
00042
00043
00044         //Location
00045         std::vector<std::map<std::string, std::string> >    _LocationMapVector;
00046         std::map<std::string, std::string>    _LocationConfigMap;
00047         std::map<std::string, location_t>    _LocationMap;
00048         void                                   _getLocationStruct();
00049
00050     public:
00051         Server(std::vector<Server>& _serversVector, std::map<std::string, std::string>
tempServerConfigMap, std::vector<std::map<std::string, std::string> > tempLocationMapVector);
00052         ~Server();
00053         //called from Service
00054         void     createSocket();
00055
00056         //getters
00057         bool     getIsDefault();
00058         const std::string& getHost() const;
00059         const std::string& getPort() const;
00060         int     getSocket() const;
00061         const std::string& getServerName() const;
00062         const std::string& getRoot() const;
00063         const std::string& getIndex() const;
00064         const std::string& getErrorPage() const;
00065         const std::string& getErrorResponse() const;
00066         size_t     getClientMaxBodySize() const;
00067
00068
00069
00070         //utils
00071         void     printServers();

```

```

00072         void                printLocation(location_t loc);
00073
00074
00075
00076
00077
00078 };
00079
00080 #endif

```

5.5 Service.hpp

```

00001 #ifndef SERVICE_HPP
00002 #define SERVICE_HPP
00003
00004 #include "defines.hpp"
00005 #include "Parser.hpp"
00006 #include "Client.hpp"
00007 // #include "Service.hpp"
00008 // #include "utils.hpp"
00009
00010
00011 struct serviceInfo
00012 {
00013     addrinfo    parameters;
00014     addrinfo    *address;
00015     std::string host;
00016     std::string port;
00017     int         listeningSocketFd; //to listen - for server
00018     int         clientID;
00019     int         serverID;
00020     int         connectionSocketFd; //to connect - for client
00021     int         pollID;
00022     short       mode;
00023     bool        launch;
00024 };
00025
00026
00027
00028 /*
00029 For information:
00030
00031 struct addrinfo {
00032     int         ai_flags;        // options
00033     int         ai_family;      // address family (ipv4, ipv6) (AF_INET, AF_INET6, etc.)
00034     int         ai_socktype;    // kind of socket (SOCK_STREAM, SOCK_DGRAM, etc.)
00035     int         ai_protocol;    // protocol (IPPROTO_TCP, IPPROTO_UDP, etc.)
00036     size_t      ai_addrlen;     // address size
00037     struct sockaddr *ai_addr;    // socket addr
00038     char        *ai_canonname;   // canonical nam
00039     struct addrinfo *ai_next;    // pointer to the nex struct
00040 };
00041 */
00042
00043 class Service
00044 {
00045     private:
00046         std::vector<Server> _serversVector;
00047         std::vector<Client> _clientVector;
00048         std::vector<pollfd> _pollingFdVector;
00049         size_t              _defaultServers;
00050         serviceInfo         _tmpServiceInfo;
00051
00052         void                _initServiceInfo();
00053         void                _getSetupInfo(std::vector<Server>::iterator server);
00054         void                _setReuseableAddress();
00055         void                _resetTmpServiceInfo();
00056         void                _convertHostToAddress();
00057         void                _bindAddressToSocket();
00058         void                _setSocketListening();
00059         void                _addSocketToPollSockVec();
00060         void                _launch();
00061         void                _initPollingVector();
00062         void                _pollingManager();
00063         void                _getLaunchInfo(int const i);
00064         int                 _getServerIndex();
00065         bool                _hasDataToRead();
00066         bool                _isServerSocket();
00067         void                _acceptConnection();
00068         void                _readDataFromClient();
00069         void                _closeConnection(std::string const &msg);
00070         bool                _hasBadRequest();
00071         void                _sendDataToClient();
00072         void                _checkRequestedServer();

```

```

00073
00074
00075     public:
00076         Service(int argc, char **argv);
00077         ~Service();
00078
00079         void    setup();
00080         void    launch();
00081         void    printServersInfo();
00082         void    printServiceInfo();
00083
00084 };
00085
00086 #endif

```

5.6 utils.hpp

```

00001 #ifndef UTILS_HPP
00002 #define UTILS_HPP
00003
00004 #include "defines.hpp"
00005
00006 /* === String === */
00007
00008 /* === Time === */
00009 std::string    getTime();
00010
00011 /* === Logs === */
00012
00013 /* === Signal === */
00014 void    signalHandler(int signum);
00015
00016 /* === PrintInfo === */
00017
00018 void printMap(const std::map<std::string, std::string>& mapToPrint);
00019 void printInfo(std::string const &s, std::string const &color);
00020
00021
00022
00023 #endif

```

5.7 webserv.hpp

```

00001 /* ***** */
00002 /*
00003 /*
00004 /*    webserv.hpp
00005 /*
00006 /*    By: thibault <thibault@student.42.fr>
00007 /*
00008 /*    Created: 2024/09/30 14:24:20 by thibault
00009 /*    Updated: 2024/10/26 15:48:48 by thibault
00010 /*
00011 /* ***** */
00012
00013 // header to include all class header
00014
00015 #ifndef WEBSERV_HPP
00016 #define WEBSERV_HPP
00017
00018 #include "Service.hpp"
00019 #include "Parser.hpp"
00020 #include "Server.hpp"
00021
00022
00023 #endif

```

5.8 /Users/thibault/kdrive/1-PROJECTS/P-42/webserv/src/Client.cpp File Reference

```
#include "Client.hpp"
```

5.8.1 Detailed Description

Author

tsanglar

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0.1

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Copyright

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Index

[/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/Client.hpp](#),

[11](#)

[/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/Parser.hpp](#),

[13](#)

[/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/Server.hpp](#),

[15](#)

[/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/Service.hpp](#),

[16](#)

[/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/defines.hpp](#),

[12](#)

[/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/utils.hpp](#),

[17](#)

[/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/include/webserv.hpp](#),

[17](#)

[/Users/thibault/kdrive/1-PROJECTS/P-42/webserv/src/Client.cpp](#),

[17](#)

[Client](#), [7](#)

[location_s](#), [7](#)

[Parser](#), [8](#)

[Server](#), [8](#)

[Service](#), [8](#)

[serviceInfo](#), [9](#)

[Token](#), [9](#)

[webserv](#), [1](#)