README.md

OS-assignment-2

Instructions for Using the Server and Client Programs

Prerequisites

• Ensure that each file to be downloaded has a file extension (e.g., .txt , .list , etc.).

Server Setup

• To activate the server program, provide the full path where the server will run. For example:

./server /path/to/server/directory

Client Usage

- The client program accepts the following arguments:
- <method> : The HTTP method to use (POST or GET). Note that the method is casesensitive.
- <REMOTEPATH> : The path relative to the server's directory. This should start with the
 server's address (must start with http or https), followed by the DNS of the
 server, and then the rest of the path. For example,

https://example.com/path/relative/to/server.

- <PATHTOCONTENTS> : (Only required for POST method) The full path to the file containing the contents to be posted.
- To download a file from the server (GET request), run the client with the following command:

```
./client GET https://example.com/path/relative/to/server
```

The file will be saved in the directory where the client is being run from, with the same name as it had on the server.

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> • To upload a file to the server (POST request), run the client with the following command:

```
./client POST https://example.com/path/relative/to/server
/full/path/to/local/file
```

If a file with the same name already exists on the server, the request will result in a 500 Internal Server Error. The client should receive a response from the server (200 OK , 404 FILE NOT FOUND , Or 500 INTERNAL ERROR).

Additional Notes

• The line ending used in the communication between the client and server is CRLF (\r\n).

Run Sample:

running the server (as written in server setup above)

```
osboxes@osboxes:~/Documents/Development/OS/assignment_2/server$ ./server /home/osboxes/Documents/Development/OS/assignment_2/ass2
Server socket created
Socket options set
Server socket bound and listening
New client accepted.
Client details:
IP Address: 127.0.0.1
Port: 46524
New client accepted.
Client details:
IP Address: 127.0.0.1
Port: 38498
New client accepted.
Client details:
IP Address: 127.0.0.1
Port: 38514
New client accepted.
Client details
IP Address: 127.0.0.1
Port: 38526
New client accepted.
Client details:
IP Address: 127.0.0.1
Port: 38540
New client accepted.
Client details:
IP Address: 127.0.0.1
Port: 38546
```

 running POST in the client (as written in client usage above) osboxes@osboxes:~/Documents/Development/OS/assignment_2/client\$./client POST http://localhost/another_new_folder/ st.list /home/osboxes/Documents/Development/OS/assignment_2/ass2/trying_stuff_for_OS_ASS_2/notcodedlst.list 200 OK

running GET in the client (as written in client usage above)

```
Documents/Development/OS/assignment_2/client$ ./client GET http://localhost/trying stuff for OS/
SS_2/tryl.list
200 OK
200 OK
```