

Project - 1

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Browser Used: Google Chrome

How to run

> Make all

> ./http-server PortNumber

List of Implemented Options:

1. Concurrent HTTP server.
 2. GET Method (For files and directories).
 3. Request Parser (Parsing only GET method for others like POST, HEAD returns, Method not implemented)
 4. Response contains Content-Length and Content-Type.
 5. Persistent Connections.
 6. Ability to break connection, depending on the request sent by the client.
 7. All mentioned Status Code and corresponding response phrases.
 8. Concurrent service requests from multiple clients.
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Optional Features

Server Port Initialization

1. "Server.cpp" takes port number as argument via a command line argument.
2. Included "dirent.h" to read all the files/directories present in a given directory

Reply with a hyperlinked directory listing if a directory is the requested resource

1. If a directory is requested with the format "http://hostname/path/dir/" returns "index.html" of the directory if present.
2. Else returns the hyperlinked directory listing.
3. Included "dirent.h" to read all the files/directories present in a given directory.

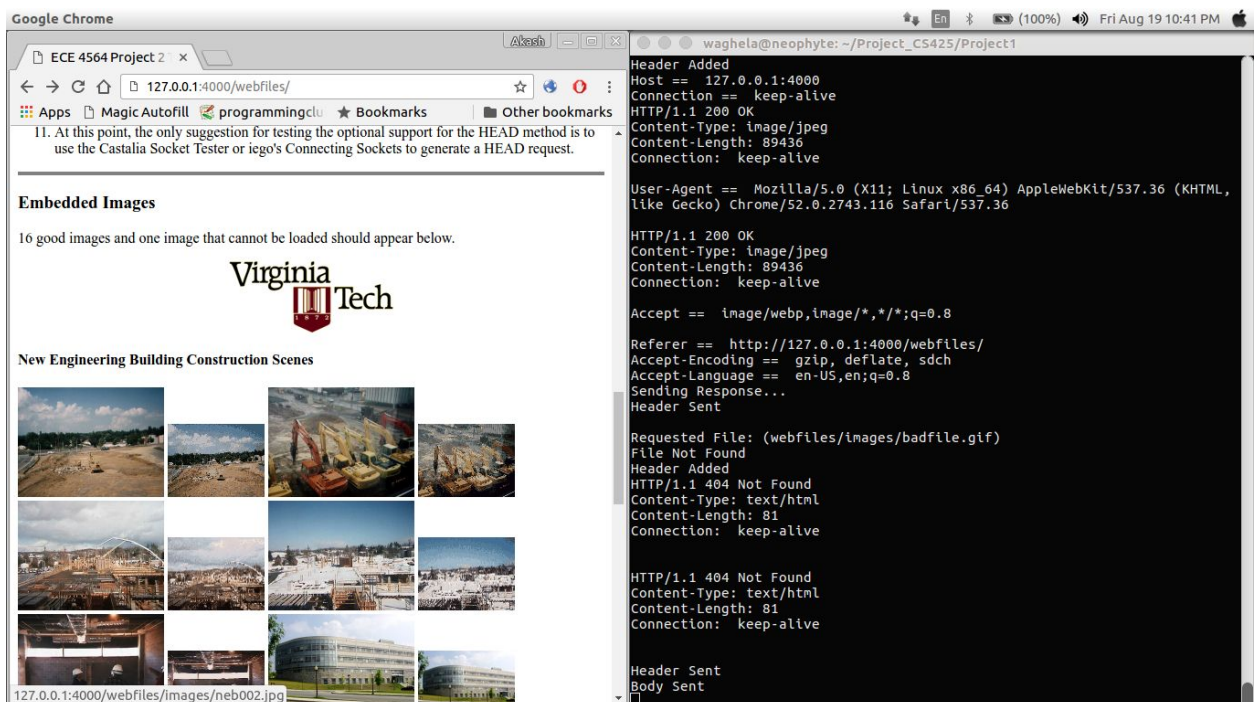
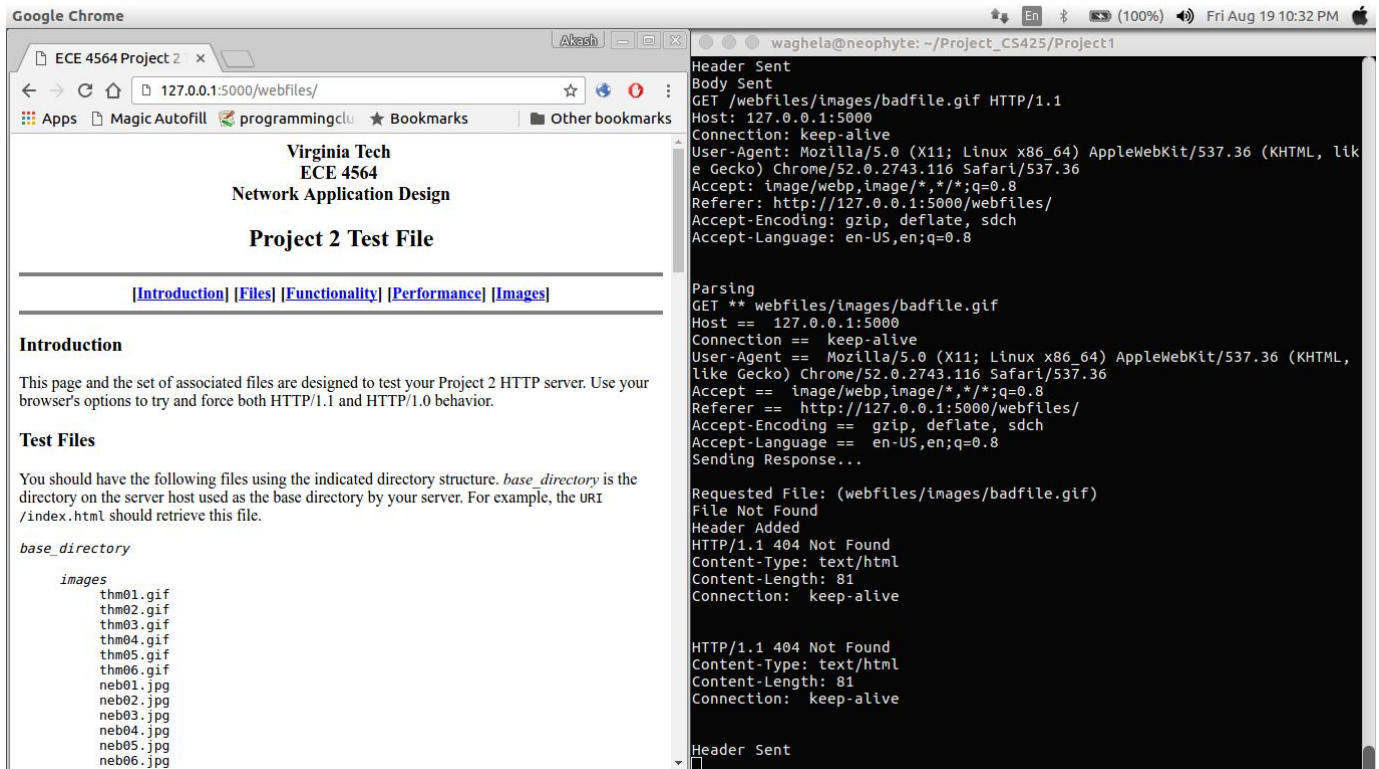
Note:

"." indicate current directory

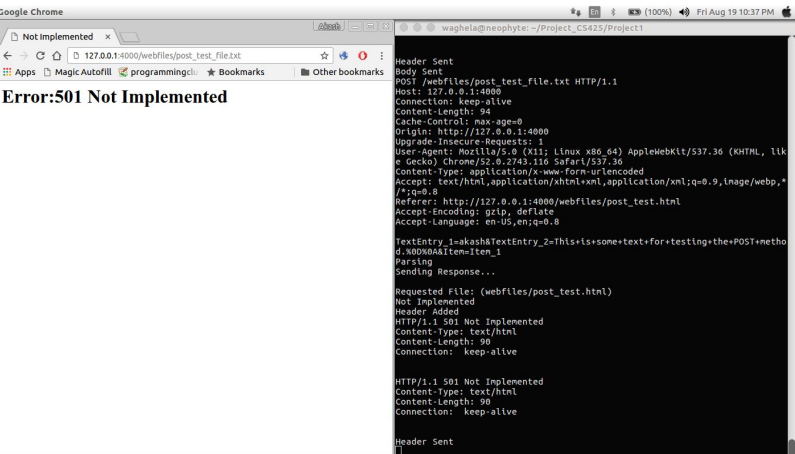
".." indicate parent directory

Testing Results

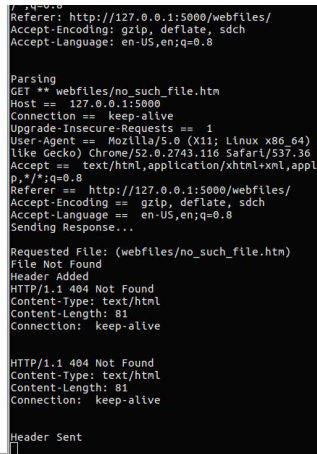
1. Get request for "index.html" (given test case file)
2. Returning default file "index.html" for requested directory'



3. Status Codes



404 Not Found



4. Directory Listing

