CS50011 Lab 7 HTTP Server

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1.Introduction

In this lab, we are going to implement two style of the process style for server to receive the request from the client and send back the result such as image/file/code's result/html/directory to the client.

In this way, we can know the basic knowledge of the http 's protocol and implement our own web server.

The main knowledge we can learn from this lab is in the following:

- 1. System based execution for the file.
- 2. Using the system's library to help us to show more detail about the file.
- 3.http's protocol
- 4. Coding ability.

After running the the bash as ./run.sh in my code.

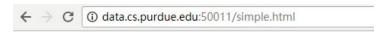
It will automatically run the http server in -p mode.

The index.html look likes:



2.Simple Test

After click on the Simple Test, we have the following results:



HTTP SERVER

This is a simple test

• Gustavo Rodriguez-Rivera.

Assistants

- Rui Chen.
- Jinnan Sun.

3. Complex Test



4. Showing normal file

TxT:



Gif:



Tar:



Name Last mo subdir4/ 2018-7-25 subdir2/ 2018-7-25 subdir1/ 2018-7-25 subdir3/ 2018-7-25 <u>2</u> c 2018-7-25 <u>a</u> 2018-7-25 <u>b</u> 2018-7-25 <u>d</u> 2018-7chat.gif 2018 lab5-submission.tar Back To Parent Director Zhanfu Yang: yang16 <u>burdue.edu</u> Last modified: Sat 28 14:14:47 EST ab5-submission.tar (Ebook.PDF).-.O'....pdf ^

5. Browsing Directory

/dir1/

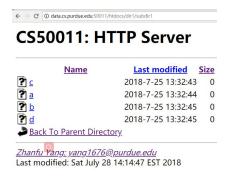


/dir

← → ♂ ③ data.cs.purdue.edu:50011/dir1 CS50011: HTTP Server Last modified Size Name subdir4/ 2018-7-25 13:32:41 subdir2/ 2018-7-25 13:32:42 2018-7-25 13:32:38 subdir1/ chat.gif a 2018-7-25 13:32:45 2018-7-25 13:32:40 8K 2018-7-25 13:32:41 0 subdir3/ b d 2018-7-25 13:32:40 2018-7-25 13:32:43 2018-7-25 13:32:46 2018-7-16 20:6:11 276K lab5-submission.tar Back To Parent Directory

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Go to child dir: subdir1/:



Use: "../" to go to parent dir:



6.Sort

Sort By Name:



CS50011: HTTP Server

<u>Name</u>	Last modified	<u>Size</u>
? a	2018-7-25 13:32:41	0
? <u>b</u>	2018-7-25 13:32:43	0
? ⊆	2018-7-25 13:32:38	0
chat.gif	2018-7-25 13:32:40	8K
? d	2018-7-25 13:32:46	0
lab5-submission.tar	2018-7-16 20:6:11	276K
subdir1/	2018-7-25 13:32:45	-
subdir2/	2018-7-25 13:32:42	170
subdir3/	2018-7-25 13:32:40	-
subdir4/	2018-7-25 13:32:41	-
Back To Parent Directory		

Sort By Last Modified:

 $\begin{tabular}{ll} \leftarrow & \rightarrow & {\bf C} & \hline {\bf 0} & {\bf data.cs.purdue.edu:} 50011/htdocs/dir1/?C=M;O=A \\ \end{tabular}$

CS50011: HTTP Server

<u>Name</u>	Last modified	Size
lab5-submission.tar	2018-7-16 20:6:11	276K
? <u>c</u>	2018-7-25 13:32:38	0
chat.gif	2018-7-25 13:32:40	8K
subdir3/	2018-7-25 13:32:40	1-1
subdir4/	2018-7-25 13:32:41	-
? <u>a</u>	2018-7-25 13:32:41	0
subdir2/	2018-7-25 13:32:42	-
? <u>b</u>	2018-7-25 13:32:43	0
subdir1/	2018-7-25 13:32:45	-
? d	2018-7-25 13:32:46	0
Back To Parent Directo	rv	

Sort By Size

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CS50011: HTTP Server

Name	Last modified	Size
subdir4/	2018-7-25 13:32:41	-
subdir2/	2018-7-25 13:32:42	_
subdir1/	2018-7-25 13:32:45	-
subdir3/	2018-7-25 13:32:40	
? <u>c</u>	2018-7-25 13:32:38	0
? a	2018-7-25 13:32:41	0
? <u>b</u>	2018-7-25 13:32:43	0
? d	2018-7-25 13:32:46	0
chat.gif	2018-7-25 13:32:40	8K
lab5-submission.tar	2018-7-16 20:6:11	276K
Back To Parent Director	TY.	

7.Extra Credit(Running the executable file)

Cgi-bin:test-env



Cgi-bin:test-cgi



With ?a=2&b=1:



Cgi-bin:finger:



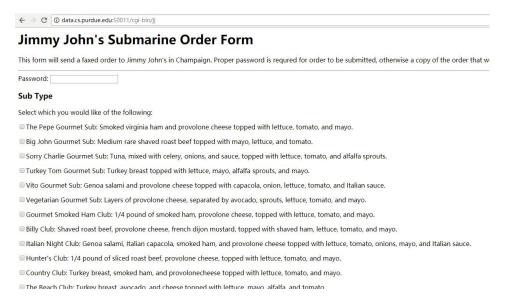
Finger Gateway

This is a gateway to "finger". Type a user@host combination in your browser's search dialog.

Use ?a=1&b=2:



Cgi-bin:pizza:



8.Conclusion

In this lab, I have learned much practical skill in the web server and applied system, which is really helpful for my further study in the System and Web Security.

In the future, I hope I will try my best to learn much well and try to know some of the latest research area in the Security and applied System.