

Setup and Compilation

1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.
2. The submission includes:
 - Index.html
 - Img.jpg
 - testPresence.html
 - makefile
 - httpserver.hpp
 - httpserver.cpp
 - actionhandler.hpp
 - actionhandler.cpp
 - main.cpp
 - README.pdf
3. Environment: The program has been tested in Linux Virtual Machine, UWF SSH server (puTTY)
4. Compiling: Program include a Makefile for all the dependencies to run the program. In the command line in Linux, type "make main" to create executable files, including main.

Running the program: The submission comes with index.html, testPresence.html, img.jpg. Type "./main." Firefox web browser in the Linux Virtual Machine was utilized to run client side.

UserInput: Type in "localhost:60012" before pressing enter to open index.html page. There will be two available links that the user can click. One will redirect to testPresence.html, and another to fake.html which is the 404 error page.

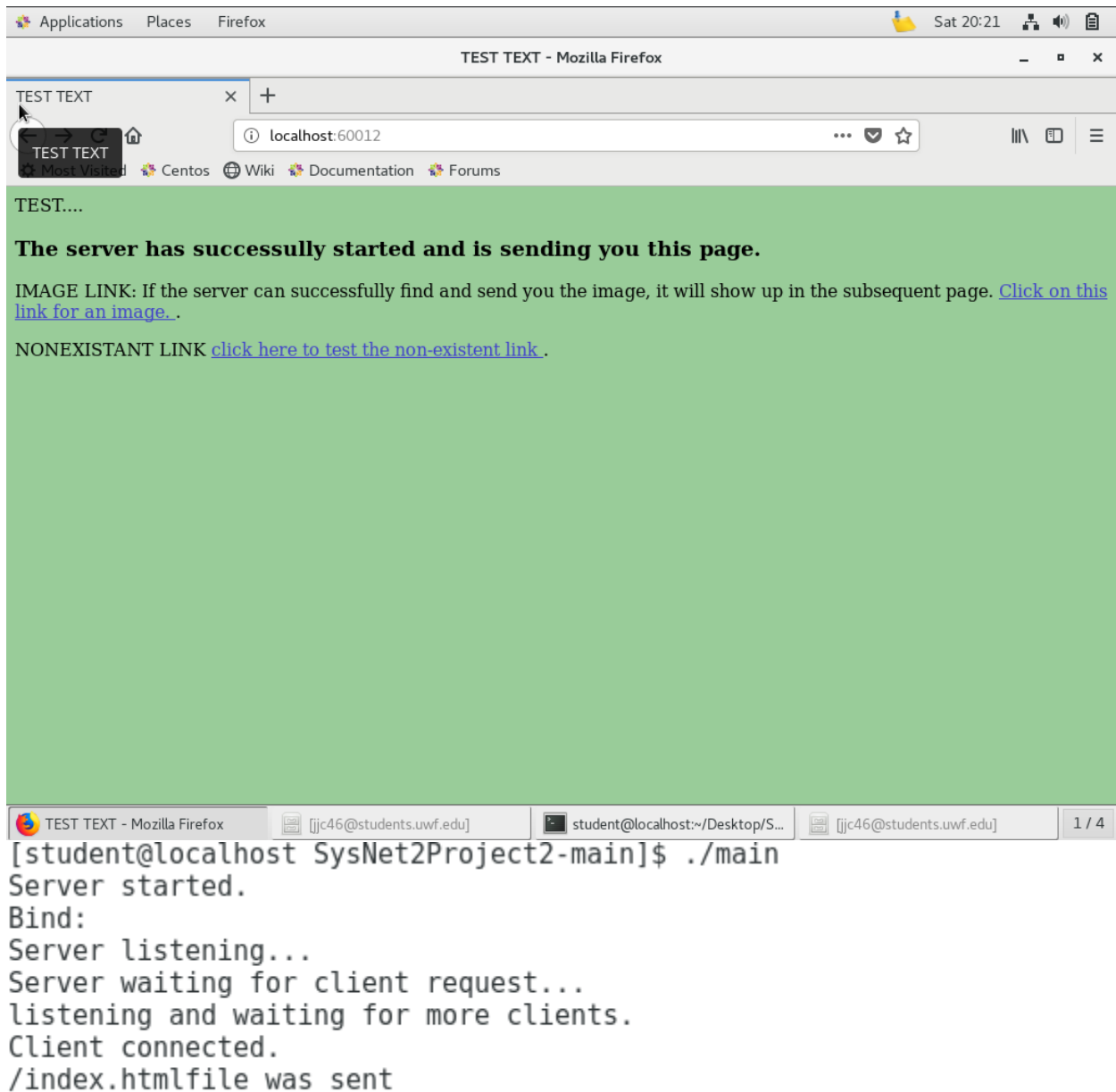
Output: Output for the program will resemble the following screen shots.

Compiling and running program:

```
actionhandler.hpp httpserver.hpp index.html makefile testPresence.html
[student@localhost SysNet2Project2-main]$ make main
make: Warning: File `makefile' has modification time 17522 s in the future
g++ -std=c++11 -g -Wall -c -o main.o main.cpp
g++ -std=c++11 -g -Wall -c -o httpserver.o httpserver.cpp
g++ -std=c++11 -g -Wall -c -o actionhandler.o actionhandler.cpp
g++ -std=c++11 -g -Wall -o main main.o httpserver.o actionhandler.o
make: warning: Clock skew detected. Your build may be incomplete.
[student@localhost SysNet2Project2-main]$ ./main
Server started.
Bind:
Server listening...
Server waiting for client request...
listening and waiting for more clients.
Client connected.
/index.htmlfile was sent
```

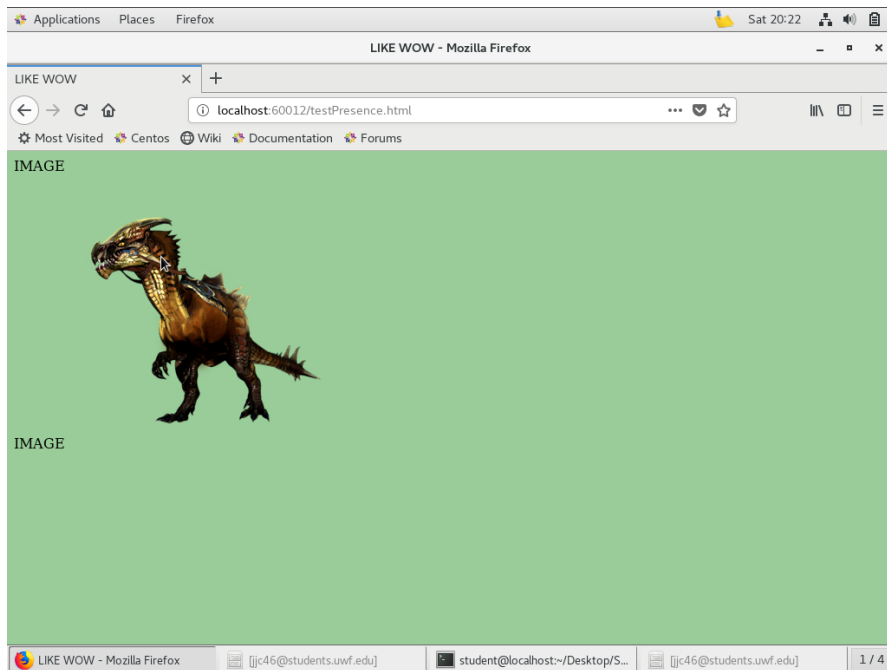
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Index.html:



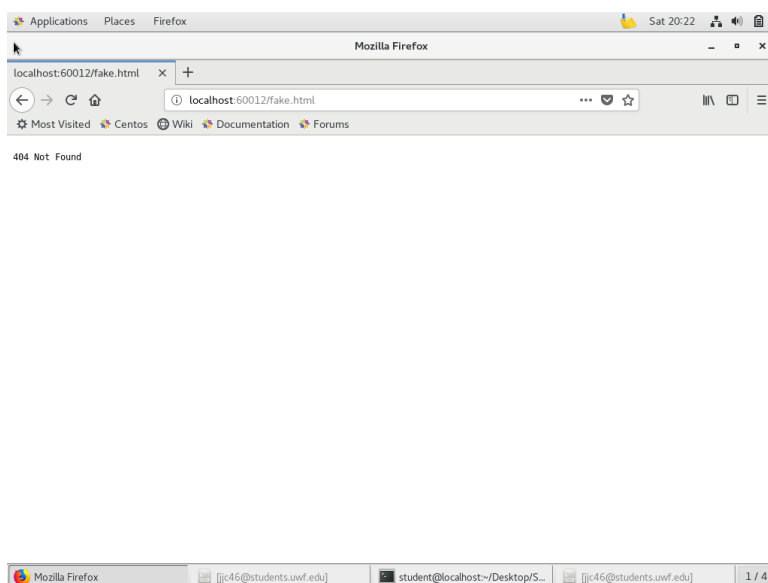
testPresence.html:

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/testPresence.htmlfile was sent
picture was sent
----- test 1 55000005 404

fake.html:



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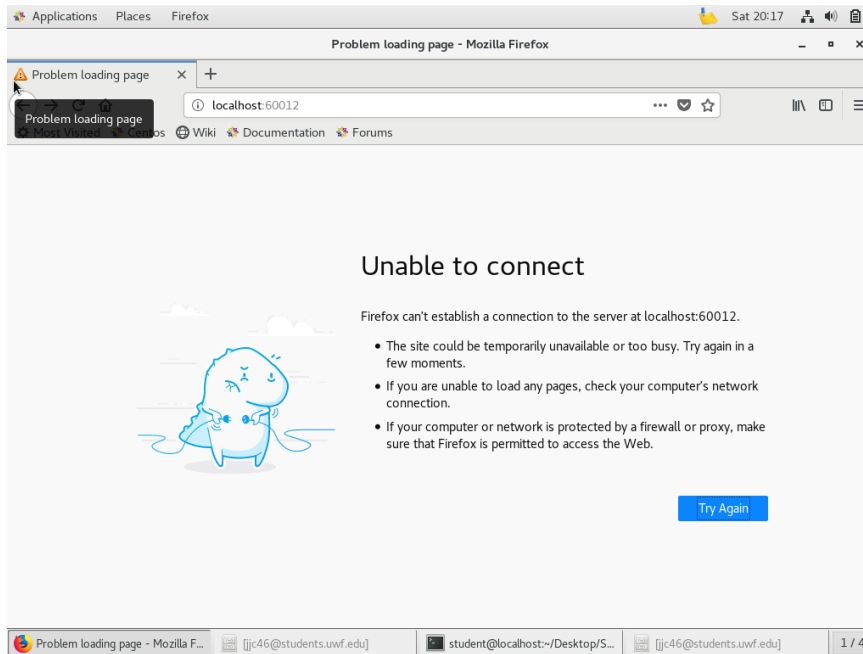
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Project 1

README

error message was sent | ERRORCODE: 404

Test client after server shutdown:



^C
[student@localhost SysNet2Project2-main]\$

Bug after user types “make clean” then “make main” then “./main” in sequence while web browser is in fake.html page:

```
404 Not Found
listening and waiting for more clients.
Client connected.
/index.htmlfile was sent
/testPresence.htmlfile was sent
picture was sent
error message was sent | ERRORCODE: 404
error message was sent | ERRORCODE: 404
^C
[student@localhost SysNet2Project1-main]$ make clean
make: Warning: File 'makefile' has modification time 510624 s in the future
rm -f *.o main
make: warning: Clock skew detected. Your build may be incomplete.
[student@localhost SysNet2Project1-main]$ make main
make: Warning: File 'makefile' has modification time 510621 s in the future
g++ -std=c++11 -g -Wall -c -o main.o main.cpp
g++ -std=c++11 -g -Wall -c -o httpserver.o httpserver.cpp
g++ -std=c++11 -g -Wall -c -o actionhandler.o actionhandler.cpp
g++ -std=c++11 -g -Wall -o main main.o httpserver.o actionhandler.o
make: warning: Clock skew detected. Your build may be incomplete.
[student@localhost SysNet2Project1-main]$ ./main
Server started.
Bind:
ERROR: Binding failed | if statement in start method, HTTPServer class: Address already in use
[student@localhost SysNet2Project1-main]$ S
```