

**README**  
**ECEN 602 Network Programming Assignment #4**  
**SIMPLE HTTP PROXY**

**Team No:** 11

**Team Members:**

- 1) Srividhya Balaji : UIN : 827007169
- 2) Sanjana Srinivasan : UIN : 927008860

**Individual Contributions:**

- 1) Srividhya did the server implementation, documentation.
- 2) Sanjana did the client implementation and testing

**The package contains the 5 files:**

- 1) server.cc
- 2) client.cc
- 3) Makefile
- 4) README.txt
- 5) Test Cases.pdf

To compile the code, run the Makefile : make (it is necessary to have g++ compiler installed)

Run the server code using the command line : ./server server\_ip  
server\_port

Run the client code using the command line : ./client server\_ip portno  
HTTP\_URL

To clean the executables, run : make clean

### **IMPLEMENTATION DETAILS:**

The server starts on a user specified port and listens for incoming HTTP requests. When the server receives a request from the client, it checks whether the requested html file is already present in its own cached data. If the entry is found in cache, the request is served using this. However, it checks whether the cached data is valid. If not, the request is proxied to the intended address, the response that is obtained is sent by the server to the client and the response is also cached by the server. The entries in the server cache aren't used if they are stale, which is indicated by the EXPIRES header.

[BONUS] : Even if the EXPIRES header indicates that the document has expired the Conditional GET condition technique, can be used based upon the content change date. If the Expire timestamp is not present or has expired then the Conditional Get is issued using IF-MODIFIED-SINCE header in request. The IF-MODIFIED-SINCE header represents the date from the EXPIRES field.