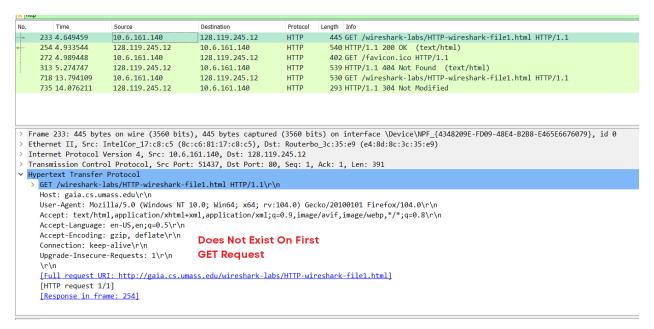
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Class : IUP CS B – Lab OS & Computer Network

NIM : 21/472698/PA/20322

## Class Activity 2.2 – Lab Computer Network

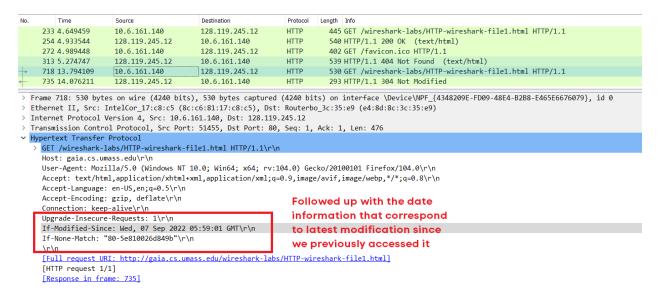
Inspect the contents of the first HTTP GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE" line in the HTTP GET?



Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?

```
Time
                     Source
                                          Destination
                                                              Protocol Length Info
    233 4 649459
                                                                       445 GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
                     10.6.161.140
                                          128 119 245 12
                                                              HTTP
                                     10.6.161.140
    254 4.933544
                     128.119.245.12
                                                              HTTP 540 HTTP/1.1 200 OK (text/html)
    272 4.989448
                     10.6.161.140
                                          128.119.245.12
                                                              HTTP
                                                                        402 GET /favicon.ico HTTP/1.1
                                                              HTTP
    313 5.274747
                     128.119.245.12
                                         10.6.161.140
                                                                        539 HTTP/1.1 404 Not Found (text/html)
    718 13.794109
                     10.6.161.140
                                         128.119.245.12
                                                              HTTP
                                                                        530 GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
    735 14.076211 128.119.245.12 10.6.161.140
                                                           HTTP
                                                                       293 HTTP/1.1 304 Not Modified
 Ethernet II, Src: Routerbo_3c:35:e9 (e4:8d:8c:3c:35:e9), Dst: IntelCor_17:c8:c5 (8c:c6:81:17:c8:c5)
> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.6.161.140
 Transmission Control Protocol, Src Port: 80, Dst Port: 51437, Seq: 1, Ack: 392, Len: 486
 Hypertext Transfer Protocol
  > HTTP/1.1 200 OK\r\n
    Date: Thu, 08 Sep 2022 01:39:40 GMT\r\n
    Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.30 mod perl/2.0.11 Perl/v5.16.3\r\n
    Last-Modified: Wed, 07 Sep 2022 05:59:01 GMT\r\n
    ETag: "80-5e810026d849b"\r\n
     Accent-Ranges: hytes\r\
    Content-Length: 128\r\n
    Keep-Alive: timeout=5, max=100\r\n
                                                                                          Received 128
    Connection: Keep-Alive\r\n
    Content-Type: text/html; charset=UTF-8\r\n
                                                                                          Bytes of files
                                                                                          on the first
    [HTTP response 1/1]
    [Time since request: 0.284085000 seconds]
                                                                                          GET Request
     [Request in frame: 233]
    [Request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html]
    File Data: 128 bytes
  Line-based text data: text/html (4 lines)
```

Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE:" line in the HTTP GET? If so, what information follows the "IF-MODIFIED-SINCE:" header?



What is the HTTP status code and phrase returned from the server in response to this second HTTP GET? Did the server explicitly return the contents of the file? Explain.

Server will no longer return the content of the file since it has already been stored in the cache system of the browser and matched with the previous unmodified version.

