University of New Brunswick
Faculty of Computer Science

UNB

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Mark

CS 3873 – Net-Centric Computing

Course Work:

Lab 1

Assignment / Lab Number

Date:

Jan.25/19

3471065		Briggs, Avery

Student Number **Last, First Name (PRINT)**

[Mandatory] "I warrant that this is my own work."

Avery Briggs

(Signature)

[Optional] "I hereby give my permission for this work to be used only (with my name and identifying information removed) for UNB Faculty of Computer Science program accreditation purposes."

A.B.

(Initials)

CS3873 Lab1

Jan.25/19

Avery Briggs

3471065

8. Examine your new trace captures in item 7 and answer the following questions:

 1) Inspect the contents of the first HTTP GET request for the Webpage "lab1.html" from your browser to the server. Do you see an "If-Modified-Since" line in the HTTP GET?

Yes, the if-modified-since tag is here:

```
> GET /~wsong/lab1.html HTTP/1.1\r\n
  Host: cs.unb.ca\r\n
  Connection: keep-alive\r\n
  Cache-Control: max-age=0\r\n
  Upgrade-Insecure-Requests: 1\r\n
  User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/68.0.3440.106 Safari/537.36\r\n
  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8\r\n
  Accept-Encoding: gzip, deflate\r\n
  Accept-Language: en-US,en;q=0.9\r\n
  If-None-Match: "21c-5635df07f6149"\r\n
  If-Modified-Since: Mon, 22 Jan 2018 14:06:41 GMT\r\n
  \r\n
  [Full request URI: http://cs.unb.ca/~wsong/lab1.html]
  [HTTP request 3/4]
  [Prev request in frame: 24]
  [Response in frame: 66]
  [Next request in frame: 67]
```

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

Yes, on the first load of the page, the entire contents were loaded into the browser. However, on the second try, all of the contents are already loaded, and therefore not reloaded.

3) Now inspect the contents of the next HTTP GET request for the Webpage "lab1.html" from your browser to the server. Do you see an "If-Modified-Since:" line in the HTTP GET? If so, what information follows the "IfModified-Since:" header?

Yes, the if-modified-since tag is inside the get request for the page. It shows the last time that the page was modified on the server. Since the page was already loaded once it has immediate access to this data.

4) What is the HTTP status code and phrase returned from the server in response to this second HTTP GET for "lab1.html"? Did the server explicitly return the contents of the file? Explain.

On the second load of the page, the browser used the cookies, left behind from the previous load to reconstruct, the page. Therefor the server did not return entirely the page on the new request.