

Ex3:

Question 1: What is the status code and phrase returned from the server to the client browser?

Status code is 200. Response phrase is OK.

Question 2: When was the HTML file that the browser is retrieving last modified at the server? Does the response also contain a DATE header? How are these two fields different?

Last modified date is Tue, 23 Sep 2003 05:29:00 GMT. Date header is 50s after the last modified date. The last modified date response HTTP header contains the date and time at which the origin server believes the resource was last modified. The Date general-header field represents the date and time at which the message was originated.

Question 3: Is the connection established between the browser and the server persistent or nonpersistent? How can you infer this?

The connection established between the browser and the server is persistent since the connection field is keep-alive.

Question 4: How many bytes of content are being returned to the browser?

73 bytes of content are being returned to the browser.

Question 5: What is the data contained inside the HTTP response packet?

A html file called was contained inside the HTTP response packet.

Ex4:

Question 1: Inspect the contents of the first HTTP GET request from the browser to the server. Do you see an "IF-MODIFIED-SINCE" line in the HTTP GET?

There is not have a field called 'IF-MODIFIED-SINCE' in the first message.

Question 2: Does the response indicate the last time that the requested file was modified?

Yes. Since the fourth message return by a status code 304 which is not modified since Tue, 23 Sep 2003 05:35:00 GMT.

Question 3: Now inspect the contents of the second HTTP GET request from the browser to the server. Do you see an "IF-MODIFIED-SINCE:" and "IF-NONE-MATCH" lines in the HTTP GET? If so, what information is contained in these header lines?

Yes. There are fields called 'IF-MODIFIED-SINCE' and 'IF-NONE-MATCH'. 'IF-MODIFIED-SINCE' indicates that the last modified date is Tue, 23 Sep 2003 05:35:00. If an entity return from the server which means it has been modified after this date, otherwise status code 304(not modified) will be sent.

Question 4: 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? Exp

The status code is 304(Not modified message) returned from the server in response to this second HTTP GET. There is not contents be returned, since there is not any changes after the date that specified in the 'IF-MODIFIED-SINCE' field.

Question 5: What is the value of the Etag field in the 2nd response message and how it is used? Has this value changed since the 1st response message was received?

Etag value is ETag: "1bfef-173-8f4ae900" in the 2nd response message,it used to determine whether 2 representations of a resource are the same. Once the resource representation at that URL ever changes,a new and different ETag is assigned. The Etag value did not change since the 1st response which indicates that the resource did not modified.