

Submitted by:

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In the file "inputUrl.txt", we can find the HTTP request saved. We can use this "inputUrl.txt" to run this code with other Urls, we just have to change the Url part and Host part of the request. We read through the inputFile and then we parse the url from the request message. After this we save the hostname and the port number to connect to the server later. The program starts its main function with an if statement where it checks the local cache if there exists any file named under the hostname. If there exists a file named with the hostname then it checks if the data of the local cache is modified or not. The code gets the date of the Last-Modified header and then we send a conditional get request by adding an extra header field named "If-Modified-Since" with the date of the Last-Modified header we fetched before. If the server responds with a status code of 304 then the object/data fetched is not modified. If the status code is not 304 then the object/data is modified and so we update the cache file with the updated data/object. If the local cache does not have any file named under the hostname then it forms a socket and connects to the server with the hostname and port, and sends the GET request message. Then when the server responds with the data/object, the program saves the data fetched in the cache file named under the hostname. And thus, lastly the program displays the actual object/data on the terminal.