Write Up

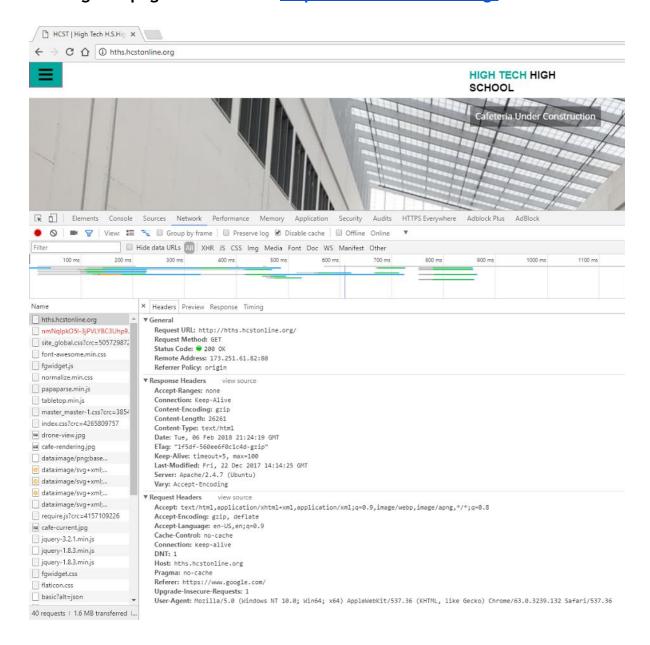
A request method is a format for an HTTP request that indicates the intent the request has. For example, a GET request attempts to retrieve data from a source but a POST request submits data into a source for storage or some sort of server-side feedback. These methods have different structures for how these methods should be sent and appear differently in HTTP code.

Response headers are HTTP headers coming to a client from a server in response to an HTTP request. These headers often have information such as the authentication methods, cookies, CORS restrictions, or allowed content types. They allow the client to gain insight to the quality of their requests and can often have data for the client to process.

Request headers are HTTP headers going from a client to a server attached to an HTTP request. These headers give the server information about the client in order for the server to respond appropriately but do not describe any data in the body of the request according to Mozilla's glossary¹.

¹ https://developer.mozilla.org/en-US/docs/Glossary/Request_header

Existing Webpage Screenshot - http://hths.hcstonline.org/



Pre Submission Page - http://www.se.rit.edu/~amc8391/get_post/

www.se.rit.edu/~amc839 x	<u> </u>
← → C 🏠 🛈 www.se.rit.ed	du/~amc8391/get_post/form_page.html
First name:	
Mickey	
Last name:	
Mouse	
Submit With Get	
First name:	
Mickey	
Last name:	
Mouse	
Submit With Post	

If you click the "Submit" button, the form-data will be sent to a page called "/target_page.php".

Post Submission Page (using GET)



First Name: Mickey

Last Name: Mouse

Notice how information is appearing in the URL header?

Telnet GFT

```
$ telnet www.se.rit.edu 80
Trying 129.21.208.132...
Connected to www.se.rit.edu.
Escape character is '^]'.
POST /~amc8391/get post/target page.php HTTP/1.1
HOST: www.se.rit.edu
Content-Type: application/x-www-form-urlencoded
Content-Length: 32
firstname=Mickey&lastname=Mouse
HTTP/1.1 200 OK
Server: nginx
Date: Fri, 09 Feb 2018 00:46:19 GMT
Content-Type: text/html
Transfer-Encoding: chunked
Connection: keep-alive
X-Powered-By: PHP/5.3.29
ab
<html>
<head>
</head>
<body>
 First Name: Mickey
>Last Name: Mouse
 Notice how no information is appearing in the URL header?
</body>
</html>
```

Telnet POST

```
bash-4.4$ telnet www.se.rit.edu 80
Trying 129.21.208.132...
Connected to www.se.rit.edu.
Escape character is '^]'.
POST /~amc8391/get post/post/target page.php HTTP/1.1
Host: www.se.rit.edu
Content-Type: application/x-www-form-urlencoded
Content-Length: 39
firstname=Mickey&state=AL&gender=Female
HTTP/1.1 200 OK
Server: nginx
Date: Fri, 09 Feb 2018 02:22:21 GMT
Content-Type: text/html
Transfer-Encoding: chunked
Connection: keep-alive
X-Powered-By: PHP/5.3.29
b8
<html>
<head></head>
<body>
 First Name: Mickey
 State: AL
 Gender: Female
 Notice how no information is appearing in the URL header?
</body>
</html>
```

Telnet Commands

GET	telnet www.se.rit.edu 80 GET /~amc8391/get_post/get/target_page.php?firstname=Mickey&state=AL&gender=Female HTTP/1.1 HOST: www.se.rit.edu
POST	POST /~amc8391/get_post/post/target_page.php HTTP/1.1 Host: www.se.rit.edu Content-Type: application/x-www-form-urlencoded Content-Length: 39
	firstname=Mickey&state=AL&gender=Female