

Web Technology - Lab

Submitted By:

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Submitted To:

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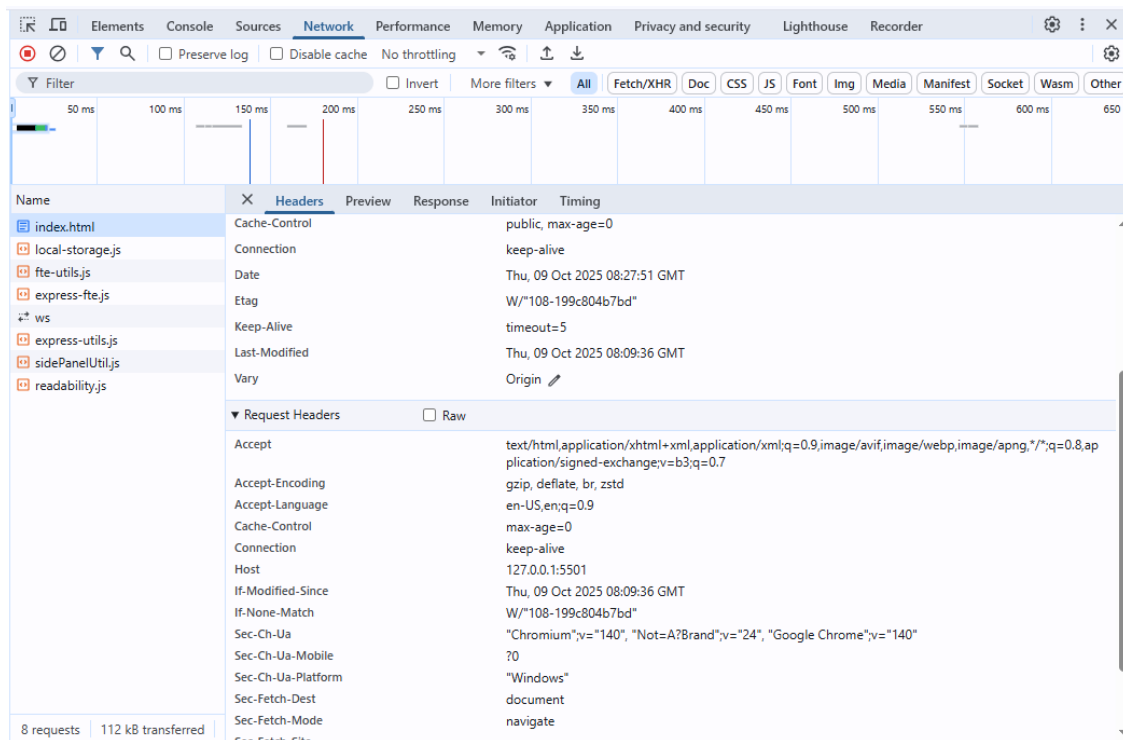
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Step 1: Inspect HTTP Requests with DevTools

1. Open any simple HTML page (e.g., index.html) using Live Server.
 2. Right-click → Inspect → go to Network tab.
 3. Reload the page (F5) to capture network activity.
 4. Click on the main request (e.g., index.html) and observe:
 - Request Method (GET)
 - Status Code (e.g., 200 OK)
 - Request Headers (Host, User-Agent)
 - Response Headers (Content-Type, Cache-Control) Screenshot Tip: Capture the headers and status code view.
-



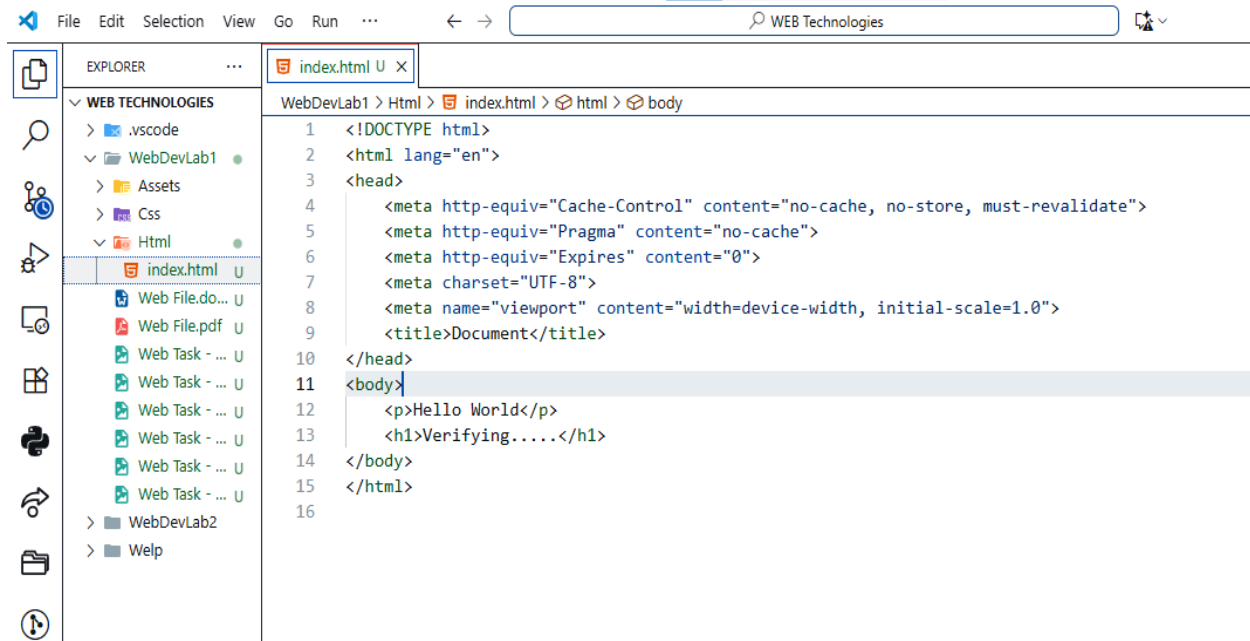
Step 2: Make GET/POST Requests with Postman or curl Using Postman

1. Open Postman and create a GET request to your local server (e.g., <http://localhost:5500/index.html>).

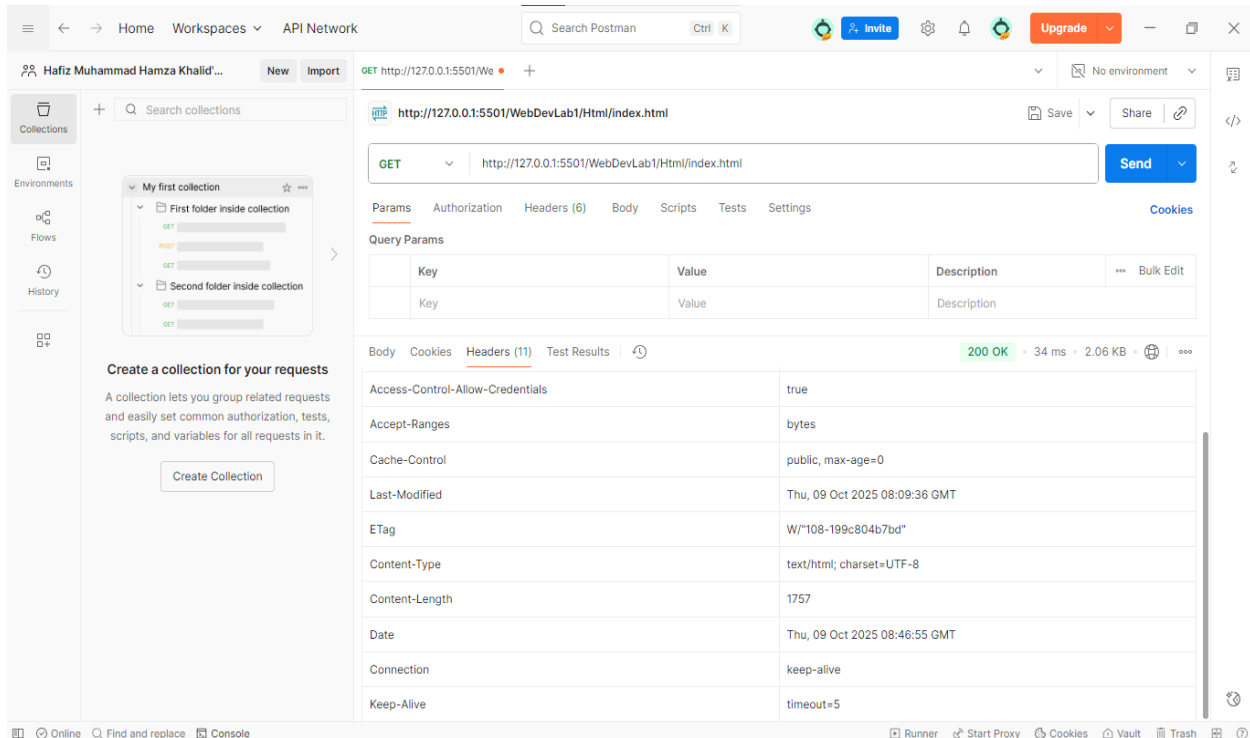
2. Observe the status code, response body, and headers.

3. Create a POST request to a test endpoint (e.g., <https://httpbin.org/post>).

- Add a JSON body: { o "name": "Student", o "lab": "HTTP Basics" o }
- Send the request and inspect the response. Using curl (optional) curl -X POST



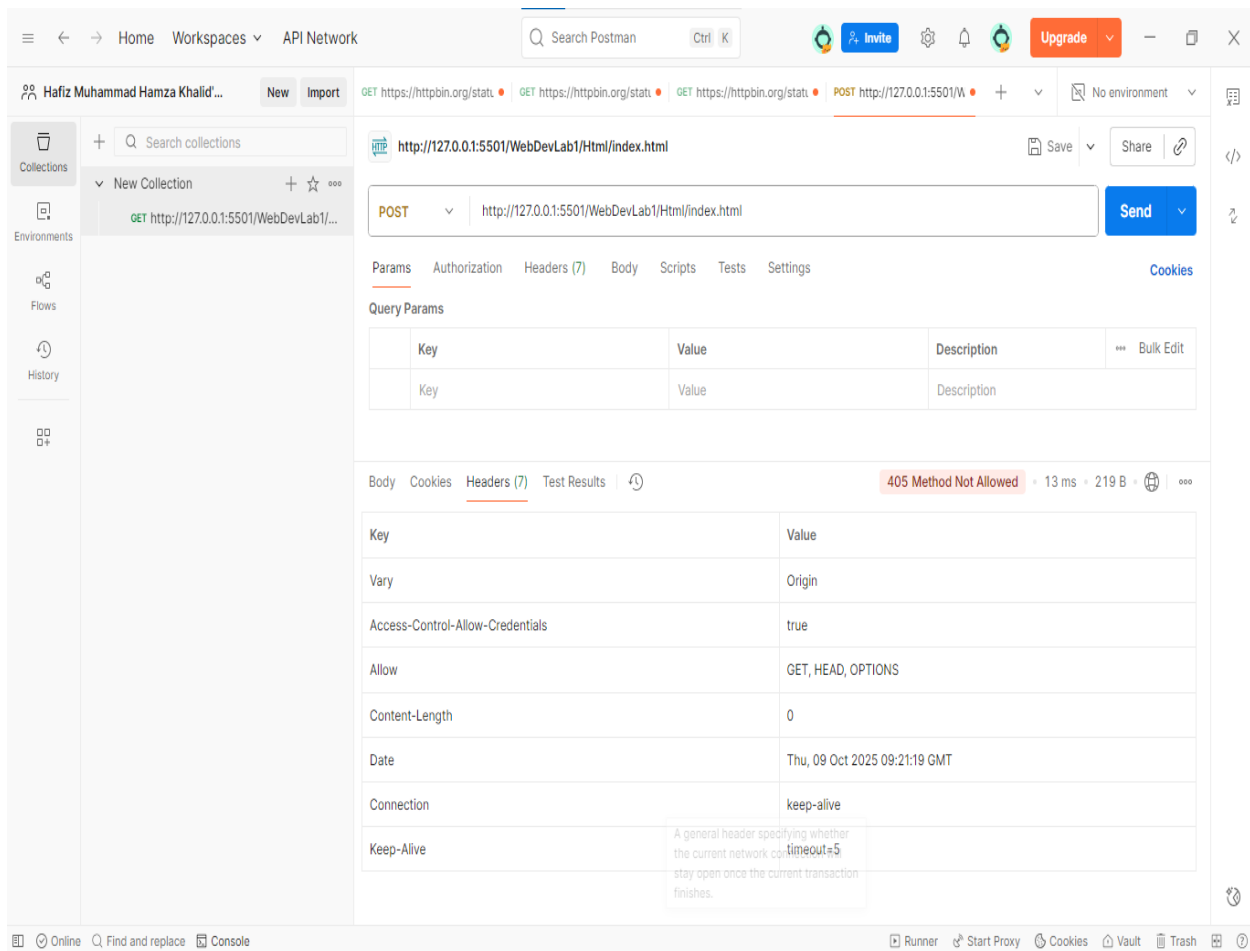
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta http-equiv="Cache-Control" content="no-cache, no-store, must-revalidate">
5   <meta http-equiv="Pragma" content="no-cache">
6   <meta http-equiv="Expires" content="0">
7   <meta charset="UTF-8">
8   <meta name="viewport" content="width=device-width, initial-scale=1.0">
9   <title>Document</title>
10 </head>
11 <body>
12   <p>Hello World</p>
13   <h1>Verifying.....</h1>
14 </body>
15 </html>
16
```



GET http://127.0.0.1:5501/WebDevLab1/Html/index.html

200 OK • 34 ms • 2.06 KB

Key	Value	Description
Access-Control-Allow-Credentials	true	
Accept-Ranges	bytes	
Cache-Control	public, max-age=0	
Last-Modified	Thu, 09 Oct 2025 08:09:36 GMT	
ETag	W/"108-199c804b7bd"	
Content-Type	text/html; charset=UTF-8	
Content-Length	1757	
Date	Thu, 09 Oct 2025 08:46:55 GMT	
Connection	keep-alive	
Keep-Alive	timeout=5	



Step 3: Simulate Caching and Status Codes Modify HTML to simulate caching

1. Add meta tags to your HTML :2. 3. 4. 5. Reload the page and observe changes in response headers. Simulate Status Codes Use these test URLs:

- 200 OK: <https://httpbin.org/status/200>
- 301 Redirect: <https://httpbin.org/status/301>
- 404 Not Found: <https://httpbin.org/status/404> Screenshot
- Tip: Capture each status code response in DevTools or P

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NewImport

GET http://127.0.0.1:5501/WoGET https://httpbin.org/statGET https://httpbin.org/statGET https://httpbin.org/stat+No environment

Collections

Search collections

My first collection

First folder inside collection

Second folder inside collection

Create a collection for your requests

https://httpbin.org/status/301

GEThttps://httpbin.org/status/301

Send

ParamsAuthorizationHeaders (6)BodyScriptsTestsSettingsCookies

Query Params

Key	Value	Description
Key	Value	Description

BodyCookiesHeaders (7)Test Results

200 OK1.31 s652 B

JSONPreviewVisualize

```
1 {
2   "args": {},
3   "headers": {
4     "Accept": "*/*",
5     "Accept-Encoding": "gzip, deflate, br",
6     "Host": "httpbin.org",
7     "Postman-Token": "1414c3f0-535a-446e-86ce-aa38c99e3865",
8     "Referer": "https://httpbin.org/redirect/1",
9     "User-Agent": "PostmanRuntime/7.48.0",
10    "X-Amzn-Trace-Id": "Root=1-68e77916-3e48098f556d1e4c02f6db45"
11  },
12   "origin": "149.40.228.66",
13   "url": "https://httpbin.org/get"
14 }
```

OnlineFind and replaceConsoleRunnerStart ProxyCookiesVaultTrash

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NewImport

GET http://127.0.0.1:5501/WoGET https://httpbin.org/statGET https://httpbin.org/statGET https://httpbin.org/stat+No environment

Collections

Search collections

My first collection

First folder inside collection

Second folder inside collection

Create a collection for your requests

https://httpbin.org/status/404

GEThttps://httpbin.org/status/404

Send

ParamsAuthorizationHeaders (6)BodyScriptsTestsSettingsCookies

Query Params

Key	Value	Description
Key	Value	Description

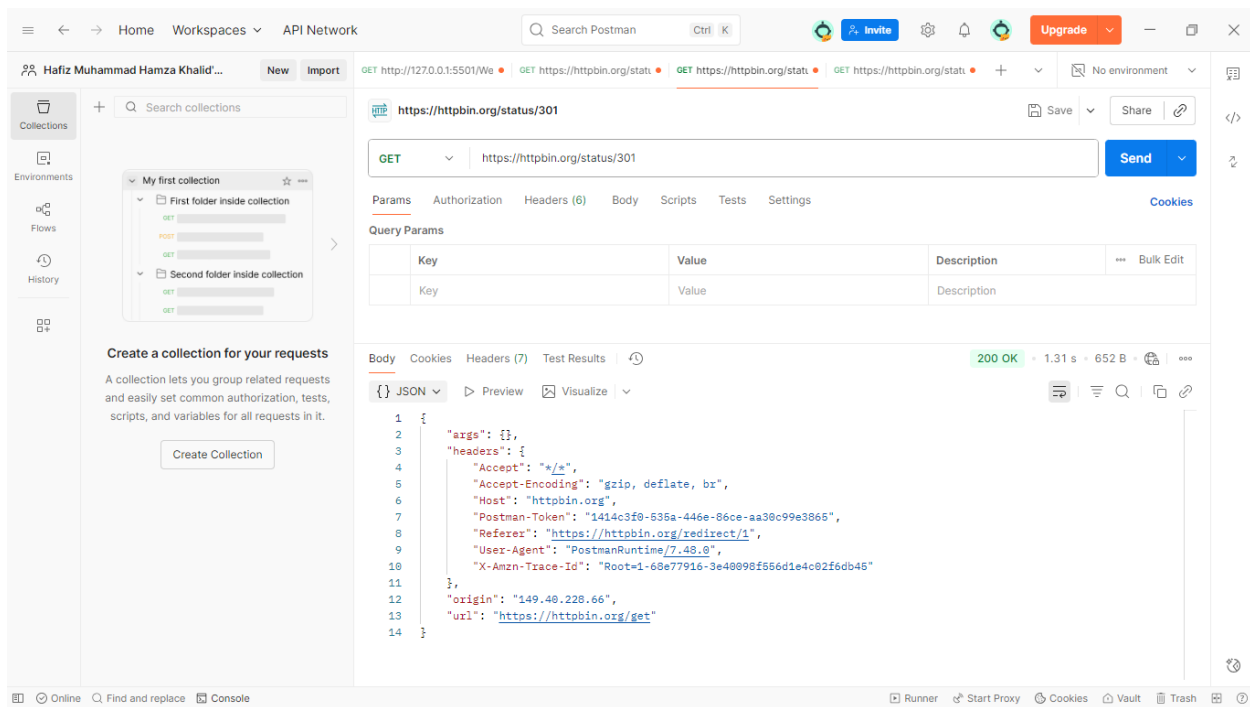
BodyCookiesHeaders (7)Test Results

404 NOT FOUND1.34 s243 B

JSONPreviewVisualize

Key	Value
Date	Thu, 09 Oct 2025 08:58:15 GMT
Content-Type	text/html; charset=utf-8
Content-Length	0
Connection	keep-alive
Server	gunicorn/19.9.0
Access-Control-Allow-Origin	*
Access-Control-Allow-Credentials	true

OnlineFind and replaceConsoleRunnerStart ProxyCookiesVaultTrash



CONCLUSION:

-----The End-----
