

Lahore Garrison University

DHA Phase 6 Lahore

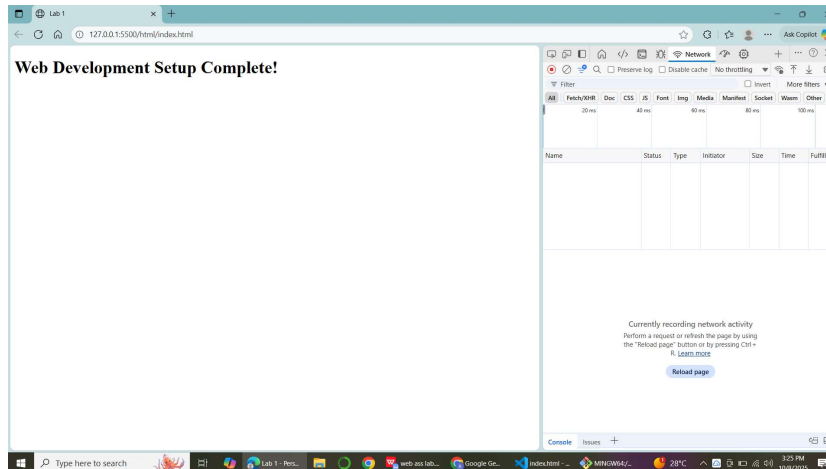


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Subject	Web Technologies
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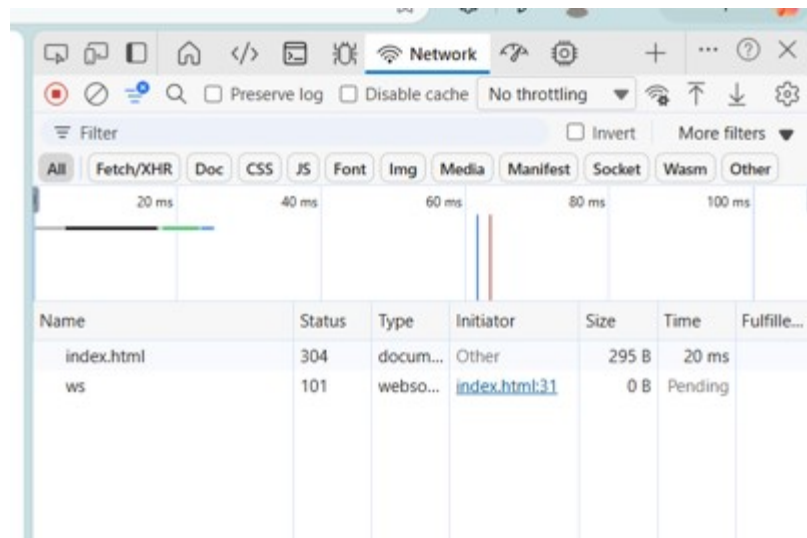
Lab 2

Step 1: Inspect HTTP Requests with DevTools

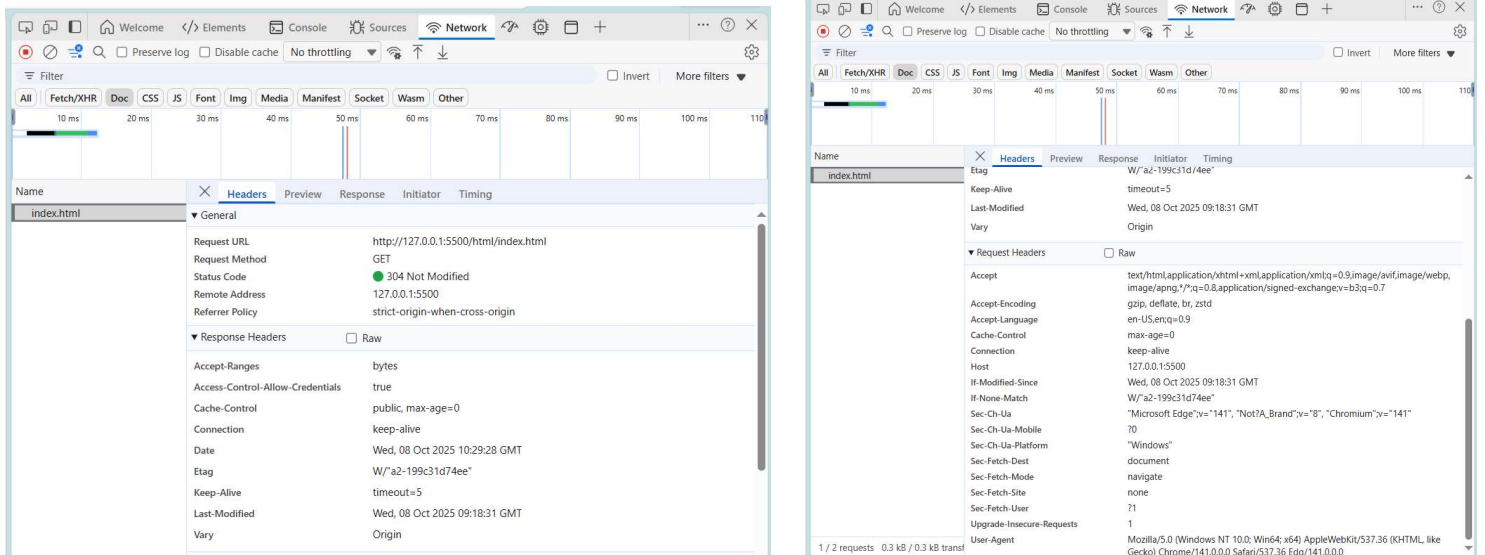
1. Open any simple HTML page (e.g., `index.html`) using **Live Server**.



2. Right-click → **Inspect** → go to **Network** tab.



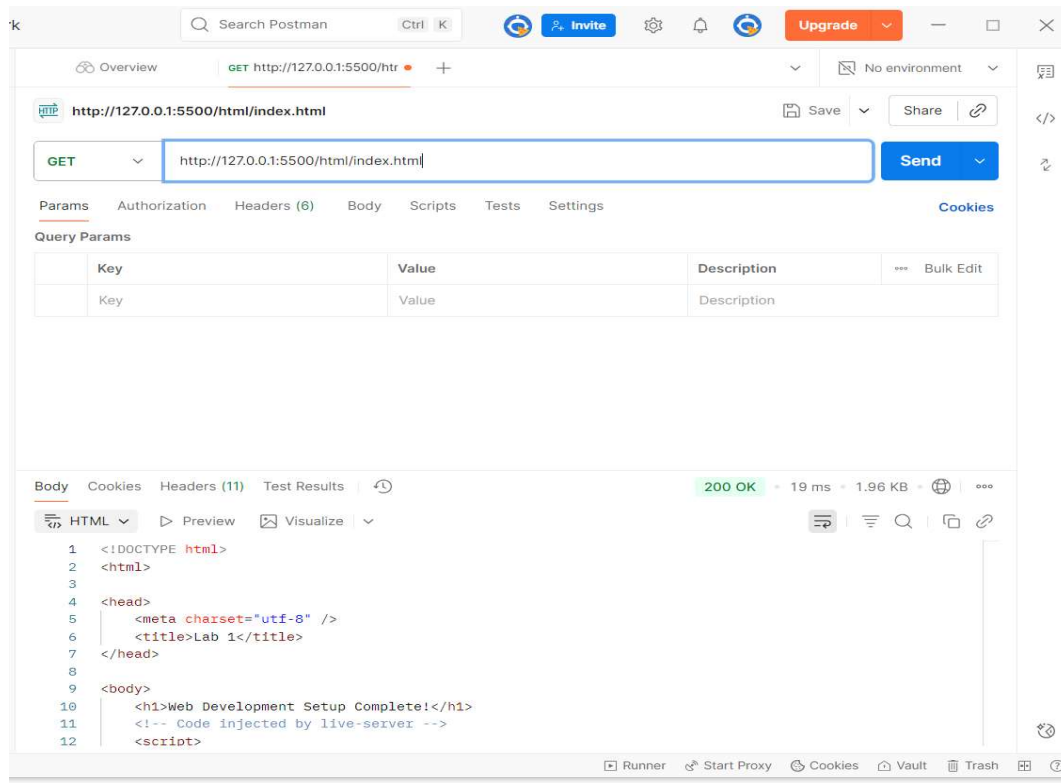
3. Click on the main request (e.g., `index.html`) and observe:



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`).

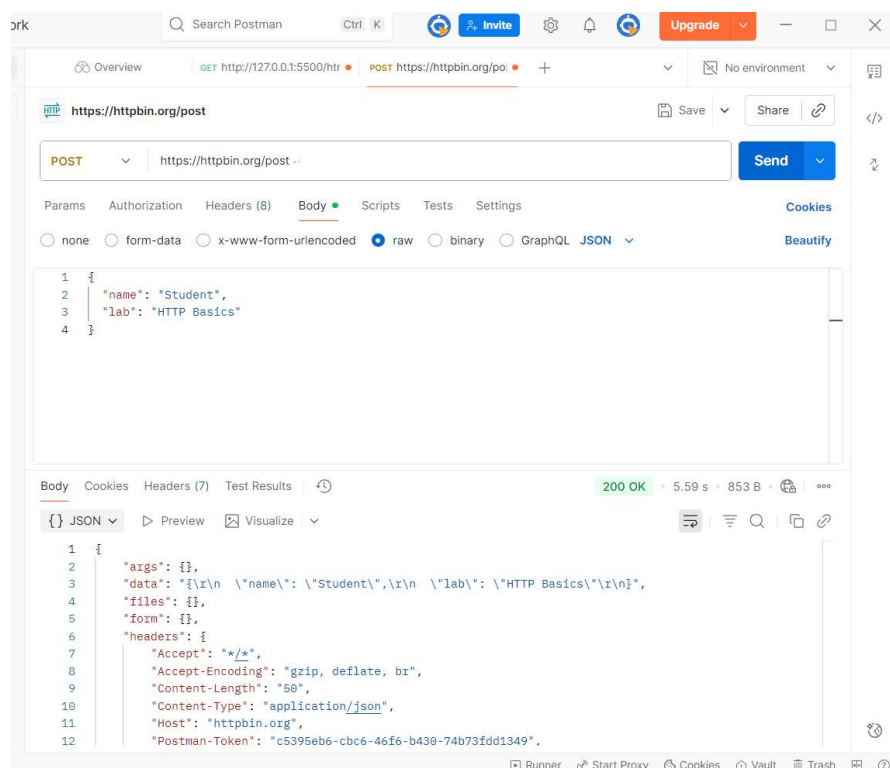


2. Observe the **status code**, **response body**, and **headers**.

Body	Cookies	Headers (11)	Test Results	🔄	200 OK	• 11 ms • 2.18 KB • 🌐	📄 Save Response	⋮
Key	Value							
Vary	Origin							
Access-Control-Allow-Credentials	true							
Accept-Ranges	bytes							
Cache-Control	public, max-age=0							
Last-Modified	Wed, 08 Oct 2025 18:51:13 GMT							
ETag	W/"188-199c529c81a"							
Content-Type	text/html; charset=UTF-8							
Content-Length	1885							

🏃 Runner 🌐 Start Proxy 🍪 Cookies 🏠 Vault 🗑️ Trash

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

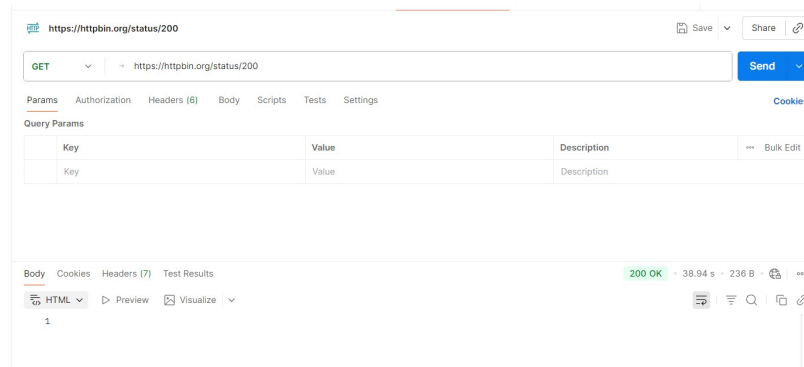


Step 3: Simulate Caching and Status Codes

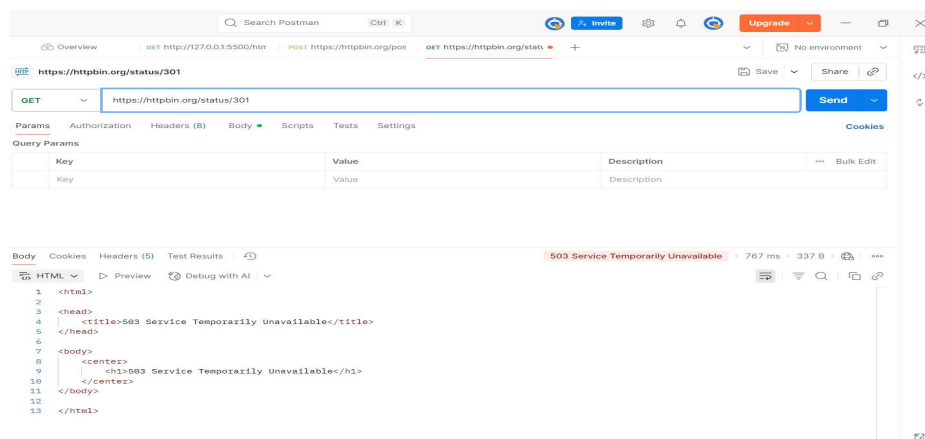
Modify HTML to simulate caching

```
index.html M x README
html > index.html > html > head > head
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8" />
5   <title>Lab 1</title>
6 </head>
7   <title>Lab 1</title>
8   <meta http-equiv="Cache-Control" content="no-cache, no-store, must-revalidate">
9   <meta http-equiv="Pragma" content="no-cache">
10  <meta http-equiv="Expires" content="0">
11 </head>
12 </head>
13 <body>
14   <h1>Web Development Setup Complete!</h1>
15 </body>
16 </html>
```

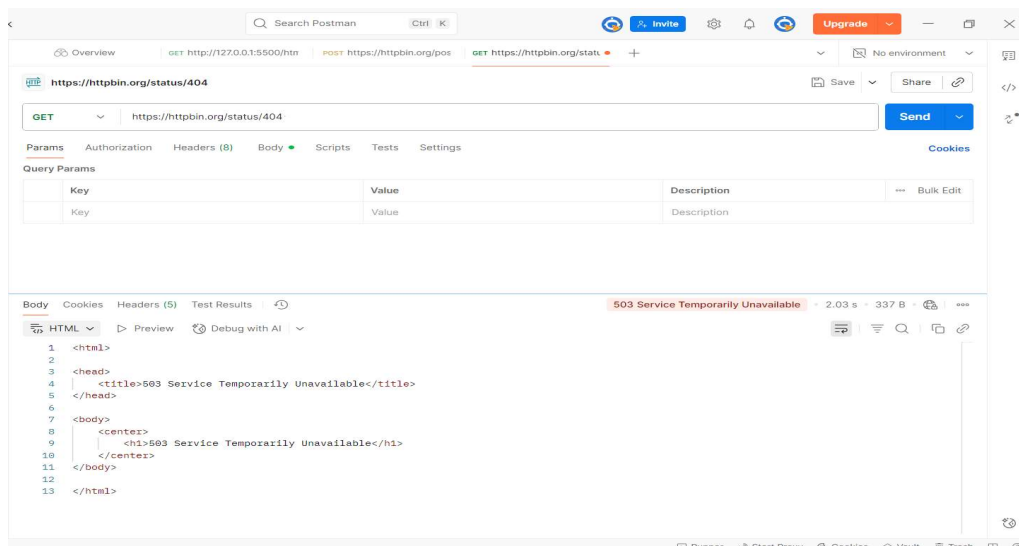
200 OK: <https://httpbin.org/status/200>



301 Redirect: <https://httpbin.org/status/301>



404 Not Found: <https://httpbin.org/status/404>



Deliverables

1. Explanations

a. Parts of a Request:

Method: Action the client wants (e.g., GET to retrieve, POST to submit).

URL: Address of the resource being targeted.

Headers: Metadata about the client or the request (e.g., User-Agent, Content-Type).

Body: Data sent with the request (only in methods like POST or PUT).

b. Parts of a Response:

Status Code: Shows the result of the request (e.g., 200= success, 404 = error).

Headers: Info about the server, content type, and caching rules.

Body: The actual content returned (e.g., HTML code, JSON data).

c. Caching Headers:

Cache-Control: no-cache, no-store

Pragma: no-cache

Expires: 0

d. Status Code Meanings:

200 OK: Request was successfully processed and the result is returned.

301 Redirect: Resource has been permanently moved to a new URL.

404 Not Found: Requested resource could not be found on the server.

CONCLUSION:

RUBRICS:

Performance			Lab Report		
Description	Total Marks	Marks Obtained	Description	Total Marks	Marks Obtained
Ability to Conduct practical	5		Structure	5	
Data Analysis & Interpretation	5		Efficiency	5	
Total Marks obtained			Total Marks Obtained		

Instructor Signature _____