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University

DHA Phase 6 Lahore



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Lab Task 2

Step 1: Inspect HTTP Requests with DevTools:

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

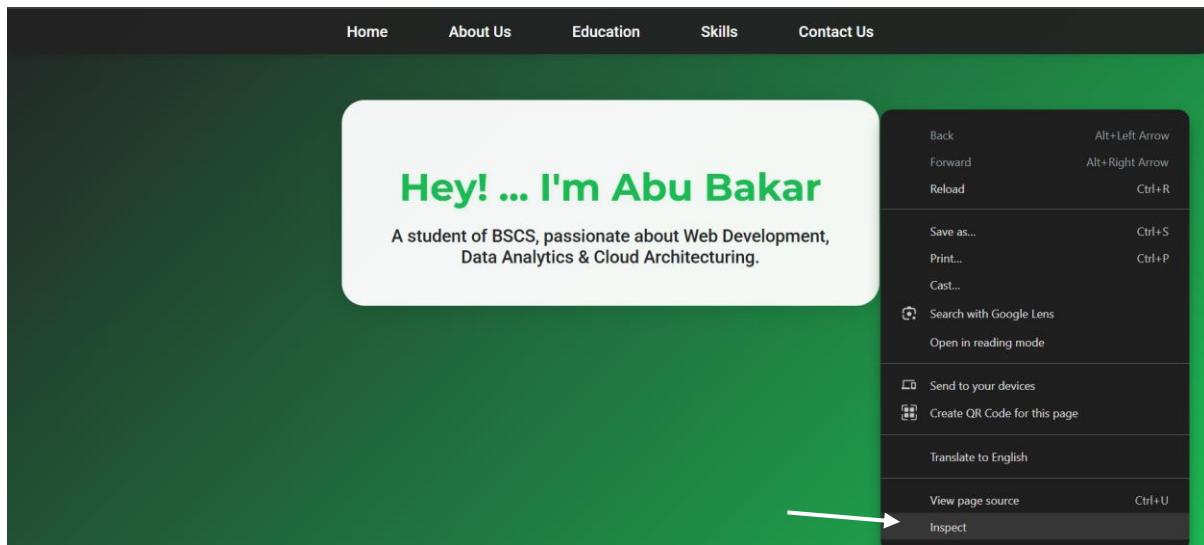
A screenshot of the DevTools context menu for the file 'index.html'. The menu includes options like 'Open Inline Chat', 'Explain', 'Generate Code', 'Rename Symbol', 'Change All Occurrences', 'Format Document', 'Refactor...', 'Open Changes', 'Cut', 'Copy', 'Copy As', 'Paste', 'Blackbox Explain Code', 'Blackbox Generate Code', 'Blackbox Improve Code', 'Blackbox Share Code Link', 'Open Blackbox Chat', 'Save as Blackbox Snippet', 'Gemini Code Assist', 'Open with Live Server' (highlighted with a blue border), and 'Stop Live Server'.

```
<Index.html>
<!DOCTYPE html>
<html>
<head>
<title>Welcome to Home Page</title>
<!-- ...existing code... -->
<head>
<title>Welcome to Home Page</title>
<link href="https://fonts.googleapis.com/css2?family=Montserrat:wght@700&display=swap" rel="stylesheet">
<style>
body {
    margin: 0;
    padding: 0;
    font-family: 'Roboto', Arial, sans-serif;
    background: linear-gradient(135deg, #232526 0%, #1DB954 100%);
    min-height: 100vh;
}

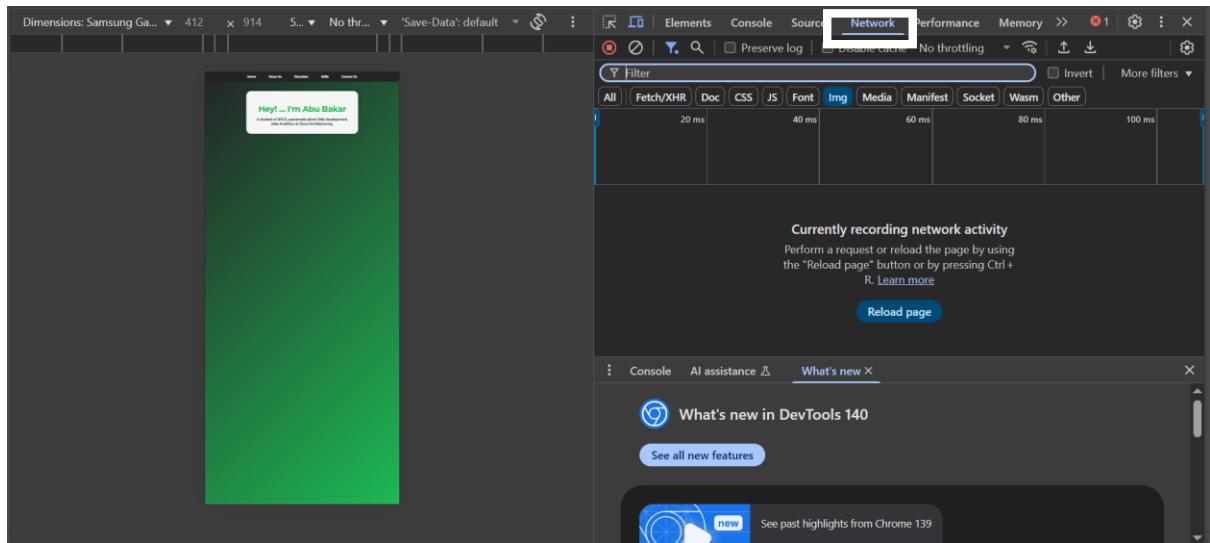
ul {
    list-style-type: none;
    margin: 0;
    padding: 0;
    display: flex;
    justify-content: center;
    background: rgba(34, 34, 34, 0.95);
    box-shadow: 0 2px 8px rgba(0,0,0,0.1);
    border-radius: 0 0 16px 16px;
}

```

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

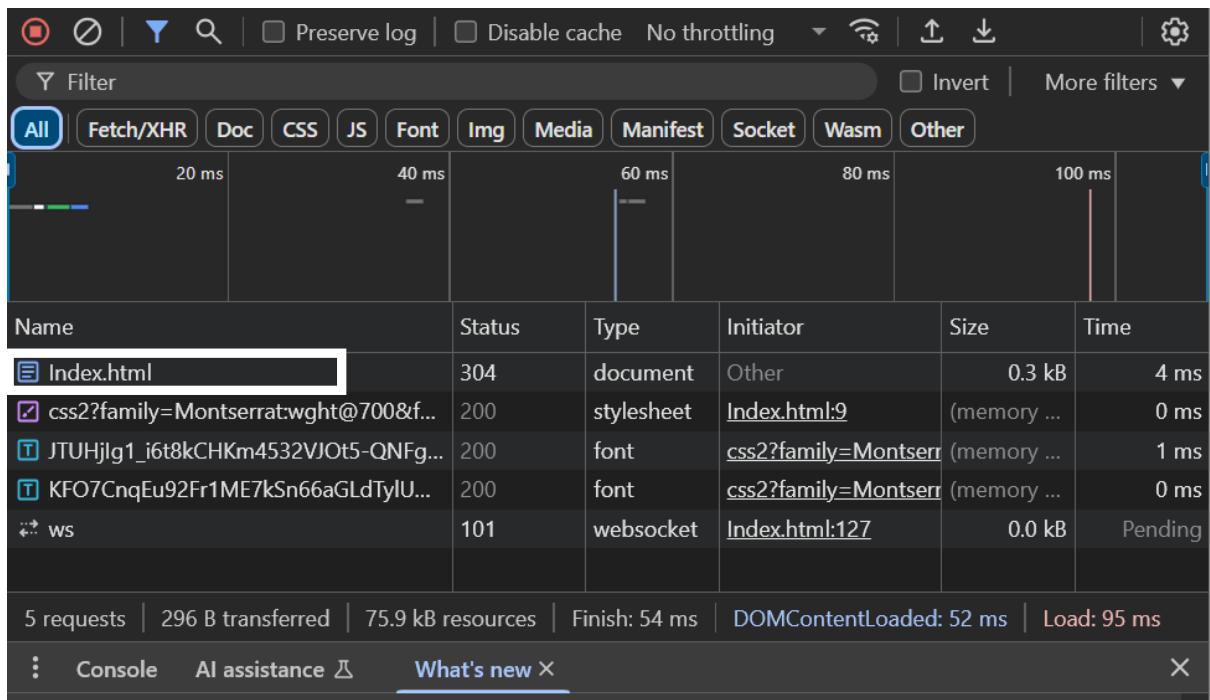


3. Reload the page (F5) to capture network activity.



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

- o Request Method (GET)
- o Status Code (e.g., 200 OK)
- o Request Headers (Host, User-Agent)



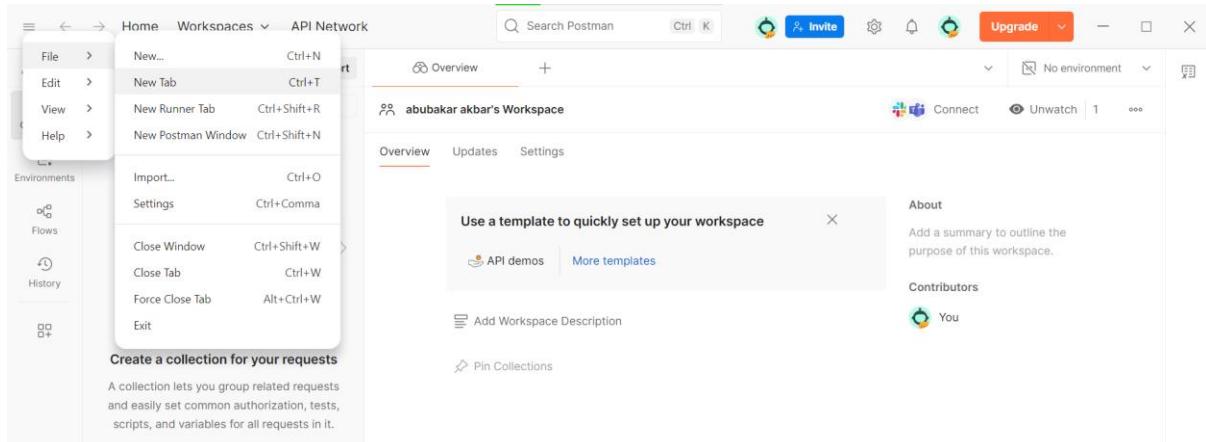
Headers	Preview	Response	Initiator	Timing	Cookies
Accept-Ranges	bytes				
Access-Control-Allow-Credentials	true				
Cache-Control	public, max-age=0				
Connection	keep-alive				
Content-Length	3849				

o **Response Headers** (Content-Type, Cache-Control) Screenshot Tip: Capture the headers and status code view.

Headers	Preview	Response	Initiator	Timing	Cookies
Accept-Encoding	gzip, deflate, br, zstd	text/html;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7			
Accept-Language	en-US,en;q=0.9				
Cache-Control	no-cache				
Connection	keep-alive				
Cookie	session=eyJfZnJlc2giOmZhbHNlfQ.aOXb9w.Lcay8eFJjqVZpzmf5xQ-JYSJOybA				

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

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.

The screenshot shows the Postman interface with a GET request to `http://127.0.0.1:5500/Index.html`. The response status is 200 OK. The response body contains the following HTML code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Welcome to Home Page</title>
5
6 <!-- ...existing code... -->
7 <head>
8 <title>Welcome to Home Page</title>
```

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

o Add a JSON body: {

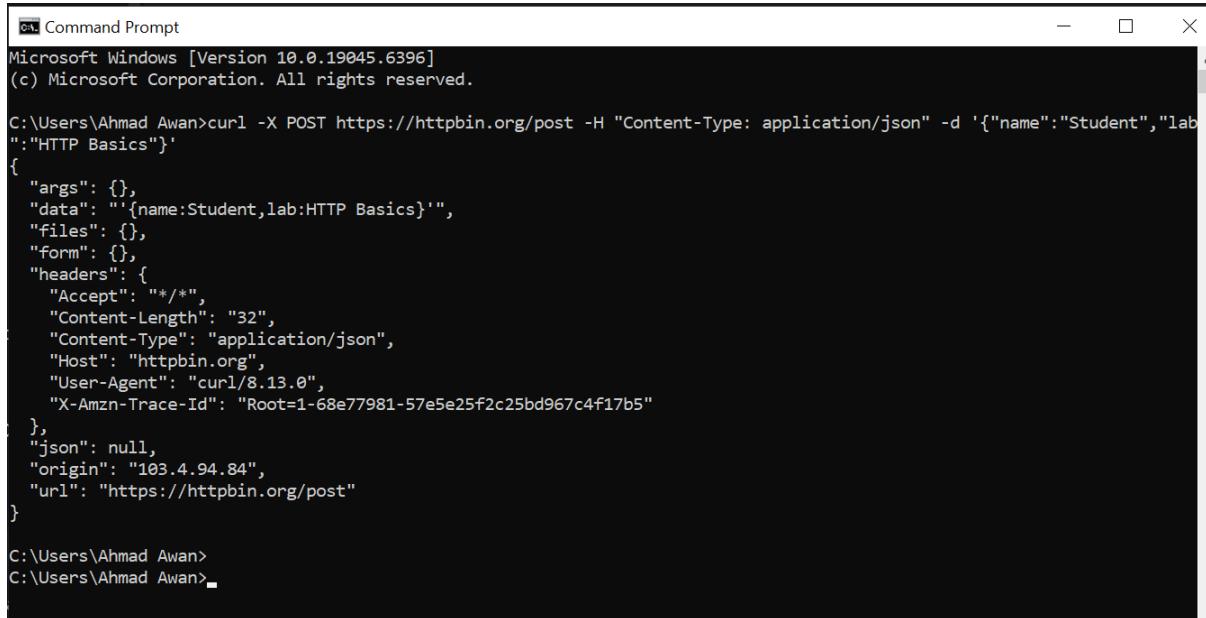
```
"name": "Student", "lab": "HTTP Basics" }
```

o Send the request and inspect the response.

The screenshot shows the Postman interface with a POST request to `https://httpbin.org/post`. The response status is 200 OK. The response body is a JSON object containing the posted data:

```
1 {
2   "args": {},
3   "data": "name=Student&lab=HTTP+Basics",
4   "files": {},
5   "form": {},
6   "headers": {
7     "Accept": "*/*",
8     "Accept-Encoding": "gzip, deflate, br",
9     "Content-Type": "application/x-www-form-urlencoded",
10    "Host": "httpbin.org",
11    "User-Agent": "PostmanRuntime/7.26.7"
12  },
13  "json": {
14    "name": "Student",
15    "lab": "HTTP Basics"
16  },
17  "method": "POST",
18  "url": "https://httpbin.org/post"
```

Using curl (optional) : curl -X POST https://httpbin.org/post -H "Content-Type: application/json" -d '{"name":"Student","lab":"HTTP Basics"}'

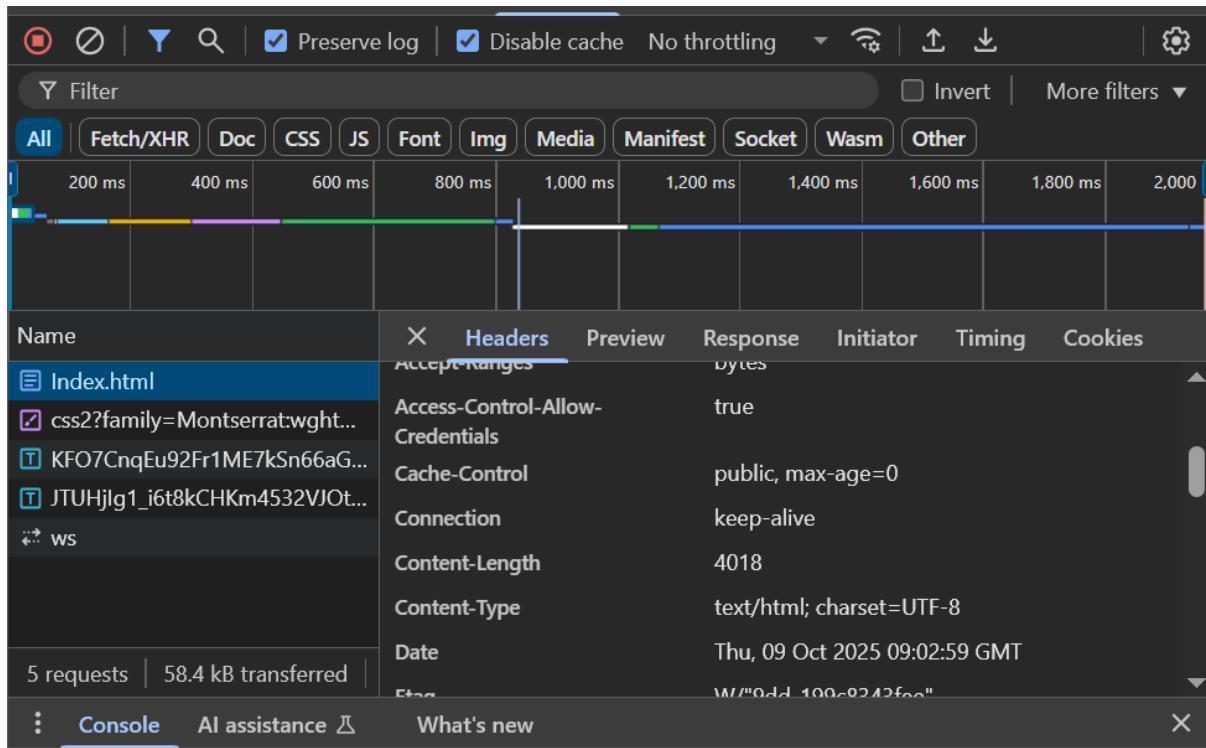


```
Command Prompt
Microsoft Windows [Version 10.0.19045.6396]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Ahmad Awan>curl -X POST https://httpbin.org/post -H "Content-Type: application/json" -d '{"name":"Student","lab":"HTTP Basics"}'
{
  "args": {},
  "data": "'{name:Student,lab:HTTP Basics}'",
  "files": {},
  "form": {},
  "headers": {
    "Accept": "*/*",
    "Content-Length": "32",
    "Content-Type": "application/json",
    "Host": "httpbin.org",
    "User-Agent": "curl/8.13.0",
    "X-Amzn-Trace-Id": "Root=1-68e77981-57e5e25f2c25bd967c4f17b5"
  },
  "json": null,
  "origin": "103.4.94.84",
  "url": "https://httpbin.org/post"
}

C:\Users\Ahmad Awan>
C:\Users\Ahmad Awan>
```

Step 3: Simulate Caching and Status Codes



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

The screenshot shows the Postman interface with the following details:

- Request URL:** https://httpbin.org/status/200
- Method:** GET
- Headers:** (6)
- Body:** (Raw JSON, Preview, Visualize)
- Test Results:** (7)
- Response Status:** 200 OK (7.81 s, 236 B)
- Body Content:** { "status": 200 }

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

The screenshot shows the Postman interface with the following details:

- Request URL:** https://httpbin.org/status/301
- Method:** GET
- Headers:** (6)
- Body:** (Raw JSON, Preview, Visualize)
- Test Results:** (7)
- Response Status:** 200 OK (627 ms, 652 B)
- Body Content:** { "status": 301, "url": "https://httpbin.org/redirect/1" }

404 Redirect: <https://httpbin.org/status/404>

The screenshot shows the Postman application interface. At the top, the URL `https://httpbin.org/status/404` is entered into the address bar. The method dropdown shows "GET". On the right, there are "Save", "Share", and "Send" buttons. Below the address bar, tabs for "Params", "Authorization", "Headers (6)", "Body", "Scripts", "Tests", and "Settings" are visible, with "Headers (6)" currently selected. A "Cookies" tab is also present. The main content area is titled "Query Params" and contains two rows of empty input fields for key and value. At the bottom, the "Body" tab is active, showing the response status as "404 NOT FOUND". Other tabs like "Cookies", "Headers (7)", and "Test Results" are also visible. The response body is empty, indicated by the number "1".

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 _____