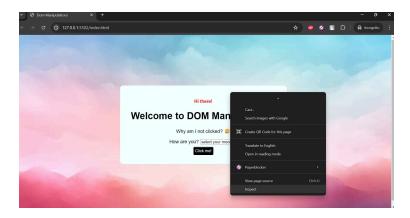
# **Using Chrome Dev Tools - POC**

Using Chrome DevTools for JavaScript development can significantly enhance your **debugging** and **development workflow** 

# **Opening Chrome DevTools**

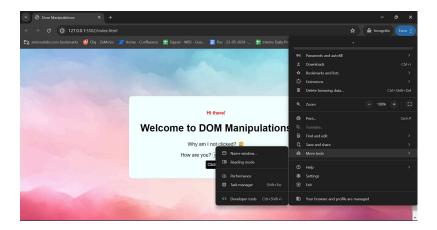
#### Method-1

-Left mouse click on page you want to inspect and go to inspect



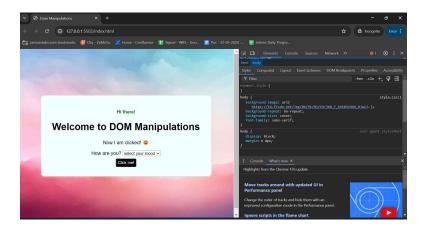
#### Method-2

-Click on 3 dots on chrome tab there go to more tools where you can go to developer tools

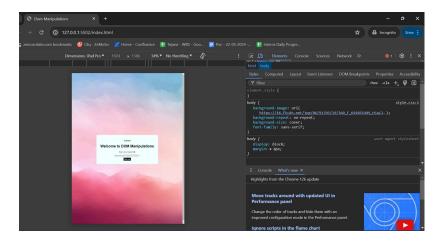


#### Method-3

-Or shortcut ctrl+shift+j

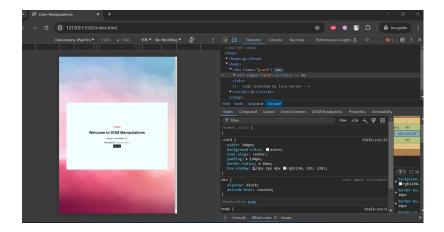


We can check the responsiveness by inspecting the page , we can inspect dimensions with predefined device dimensions or we can make adjustments with our custom dimensions

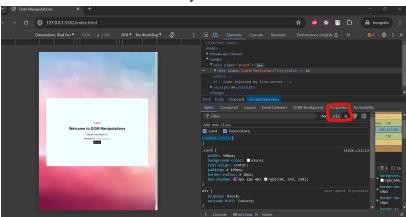


## **Elements Tab**

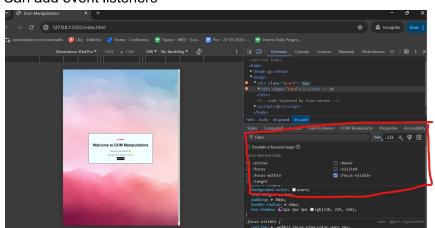
- → The Elements tab allows you to inspect and modify the DOM and CSS.
- → Live Editing: Directly edit HTML and CSS, and see changes reflected in real-time.
- → Event Listeners: View and manage event listeners attached to DOM elements.



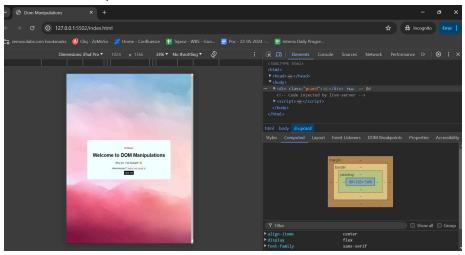
We can add a new class in styles.



#### Can add event listeners



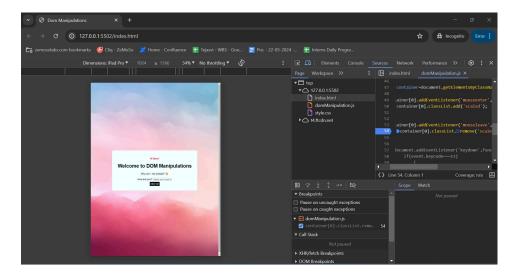
We can also inspect css box model



#### **Sources Tab**

## The Sources tab allows you to view and debug JavaScript code

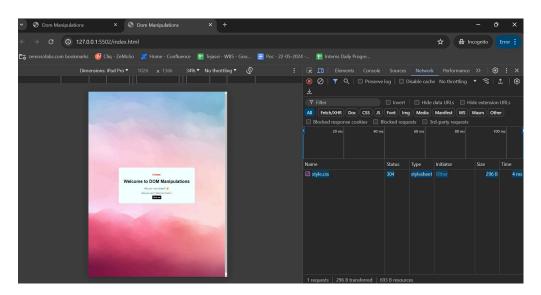
- → **Breakpoints**: Click on the line number in the code to set a breakpoint. The code execution will pause at this line.
- → **Step Through Code**: Use the controls to step over, step into, or step out of functions while debugging.
- → **Watch Expressions**: Add variables or expressions to the "Watch" section to monitor their values during code execution.



## **Network Tab:**

The Network tab helps you monitor and debug network requests.

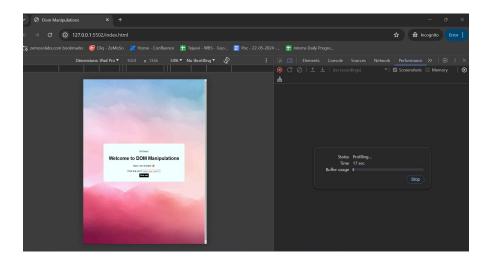
- → Inspect Requests: View details of network requests such as headers, payload, response, and timing.
- → Filter Requests: Use filters to focus on specific types of requests (e.g., XHR, JS, CSS).



#### **Performance Tab:**

The Performance tab is used to record and analyze runtime performance.

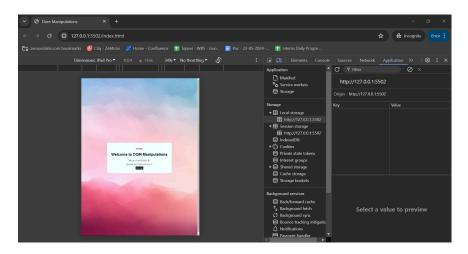
**Profile Your Code**: Record a session to see where your application might be running slowly and optimize accordingly.



## **Application Tab**

The Application tab gives access to storage, service workers, and other application-related resources.

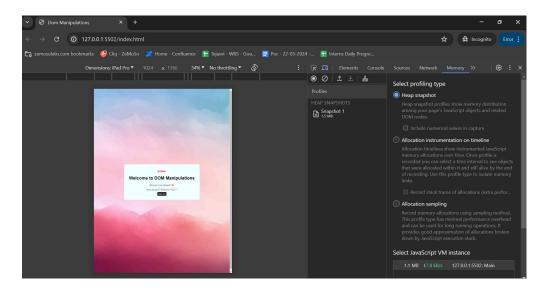
Local Storage and Cookies: View, edit, and delete local storage, session storage, and cookies.



# **Memory Tab:**

The Memory tab helps you diagnose memory leaks and optimize memory usage.

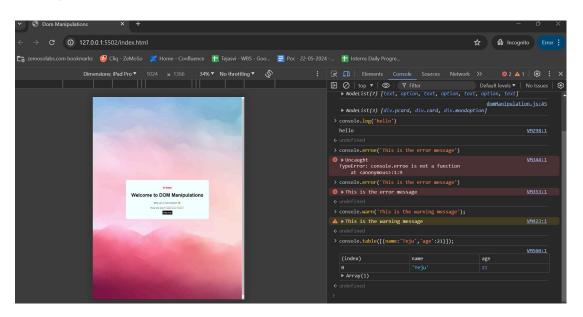
- → **Heap Snapshot**: Take snapshots to inspect the memory heap and track memory usage over time.
- → **Allocation Timeline**: Record memory allocations to identify and troubleshoot memory leaks.



#### **Console Tab:**

The Console tab allows you to run JavaScript code, log output, and interact with the webpage's JavaScript context.

Logging: Use **console.log()**, **console.error()**, **console.warn()**, **console.table()**, etc., to output messages.



```
cundefined
> console.group('User Details');
  console.log('Name: Alice');
  console.log('Age: 25');
  console.log('Occupation: Engineer');
  console.groupEnd();

vuser Details

Name: Alice

Name: Alice

YM504:2

Age: 25

Occupation: Engineer

vm504:4

cundefined

console.time('myTimer');

// Code block to measure
for (let i = 0; i < 1000000; i++) {
    // Some time-consuming operations
    Math.sqrt(i);
}

console.timeEnd('myTimer');

myTimer: 3.699951171875 ms

vm508:9</pre>
```