Sri Lanka Institute of Information Technology

Web Security – IE2062

Topic: Bug Bounty Report 7

Y2S2.WE.CS

Name: S.D.W.Gunaratne

(IT23241978)

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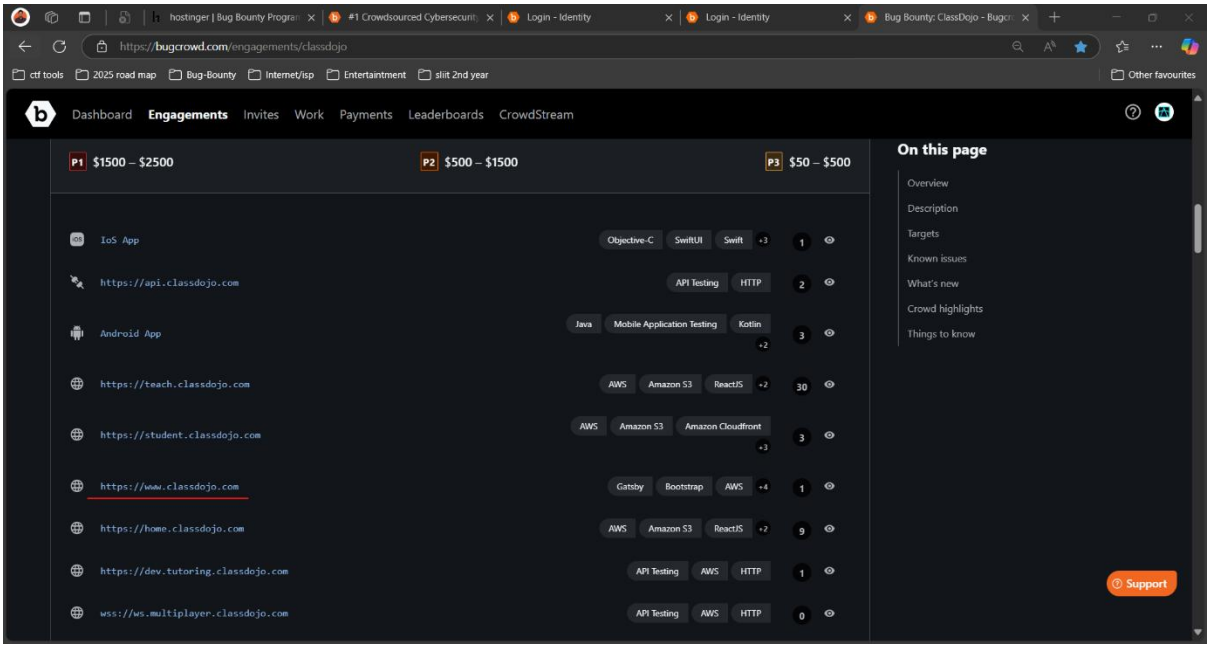
How I started?

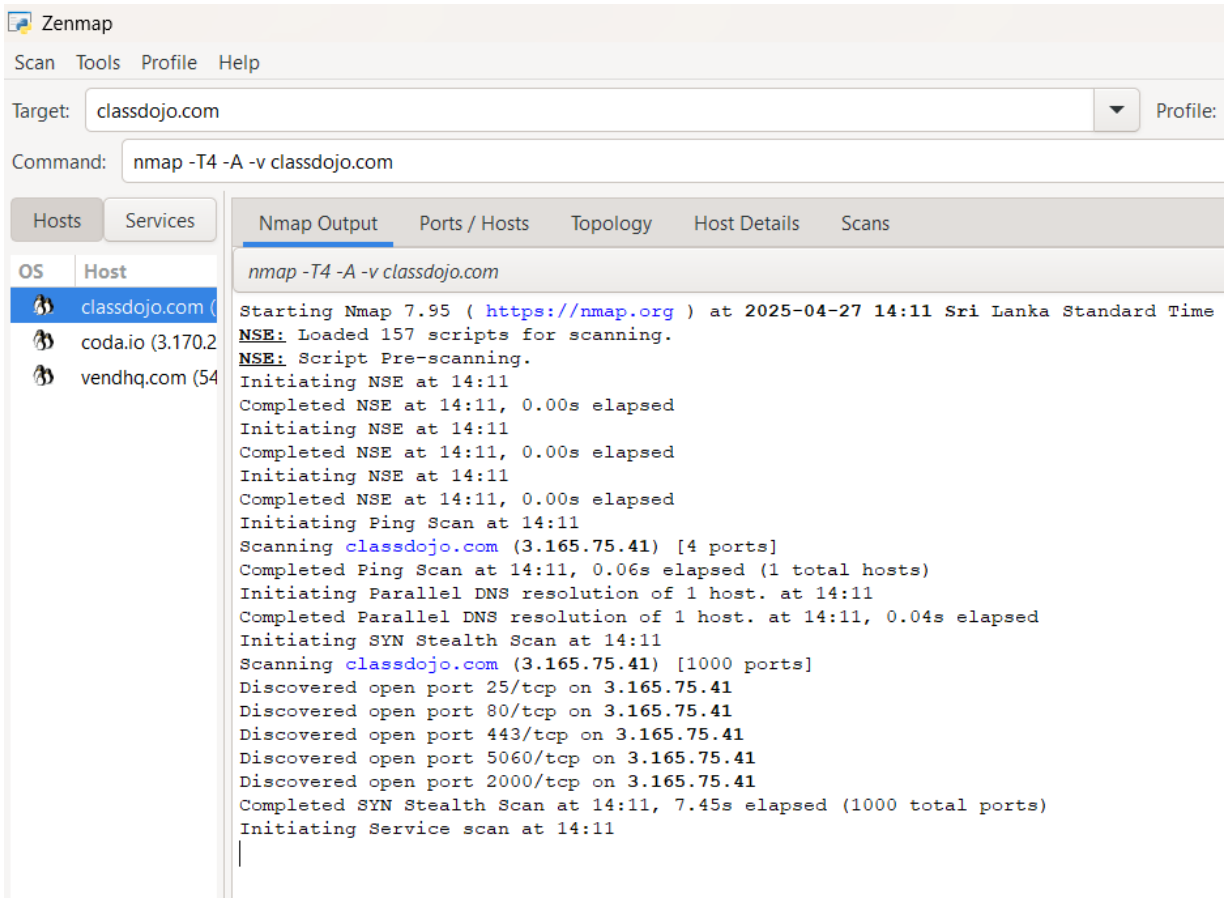
1. Once I search from Bug crowd, I saw the classdojo bug bounty program.

2. Then, I discovered full main domain allowed for scope, so that I choose https://www.classdojo.com .

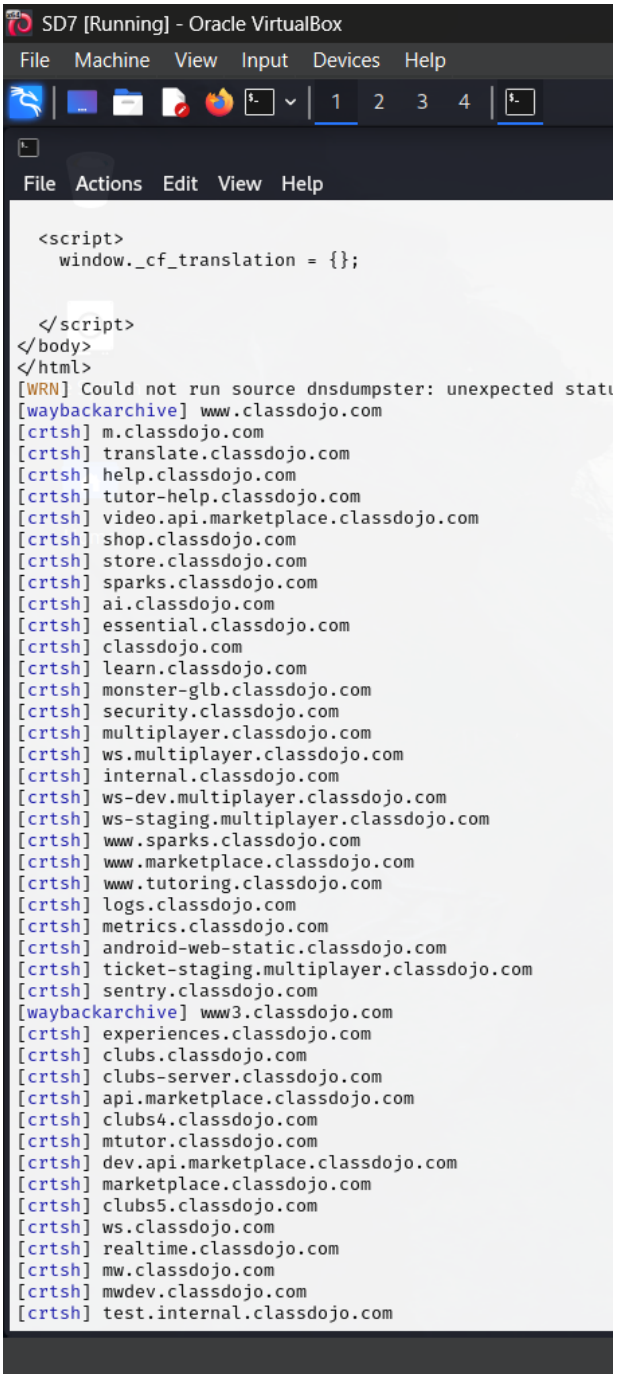


3. I use several methods/tools to do penetration testing.

4. First, I used Nmap. It helps me to find what are the open ports, Identify the web technologies such as webservers.



5. Secondly, I used Subfider tool to find hidden or forgotten web asserts. Because hidden web assert can have poor security, unpatched vulnerabilities.



6. Thirdly, I used Wafwoof tool to find website is protected by a WAF (web application firewall). Because if WAF is active, so pen tester do their test without blocked, and they can do their testing with bypass WAF.

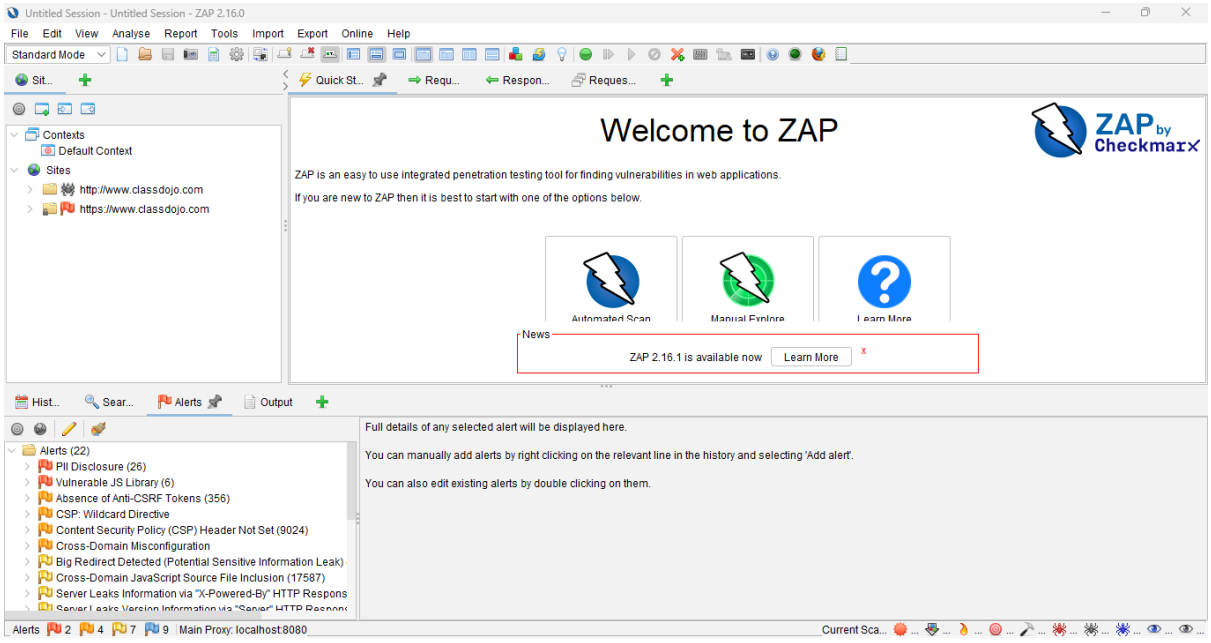
```
┌──(root㉿kali2025)-[~]
└─# wafw00f https://www.classdojo.com/

                                      )
                                     ) (_
                                    (  |__|
                                   .) |__|
                                  (   |__|
                                   .  |__|
                                      |__|
                    ~ WAFW00F : v2.3.1 ~

[*] Checking https://www.classdojo.com/
[+] The site https://www.classdojo.com/ is behind Cloudfront (Amazon) WAF.
[~] Number of requests: 2

┌──(root㉿kali2025)-[~]
└─#
```

7.Finaly, I use OWASP zap to automatically find the vulnerabilities.

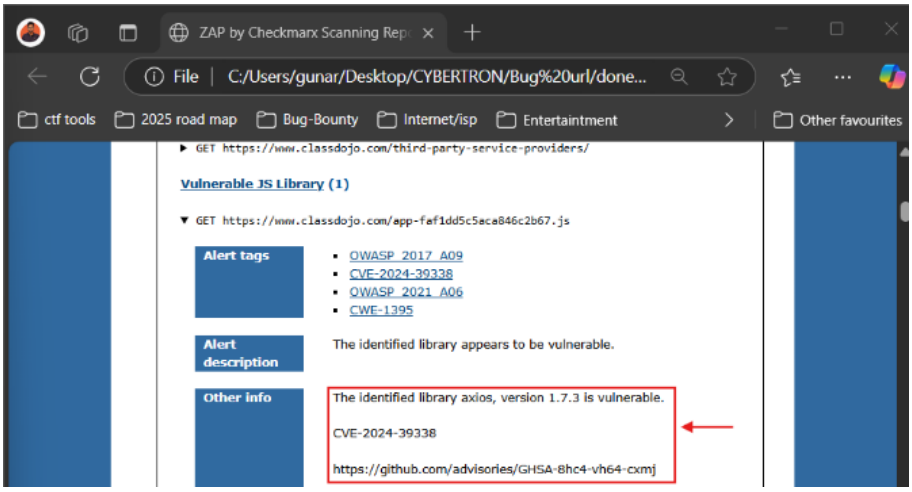


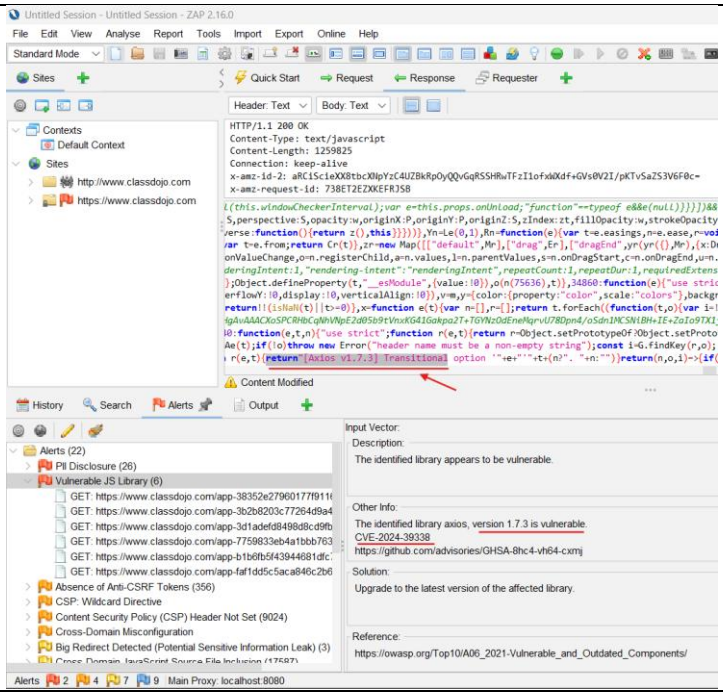
With getting these tool's support, I found below details about vulnerability.

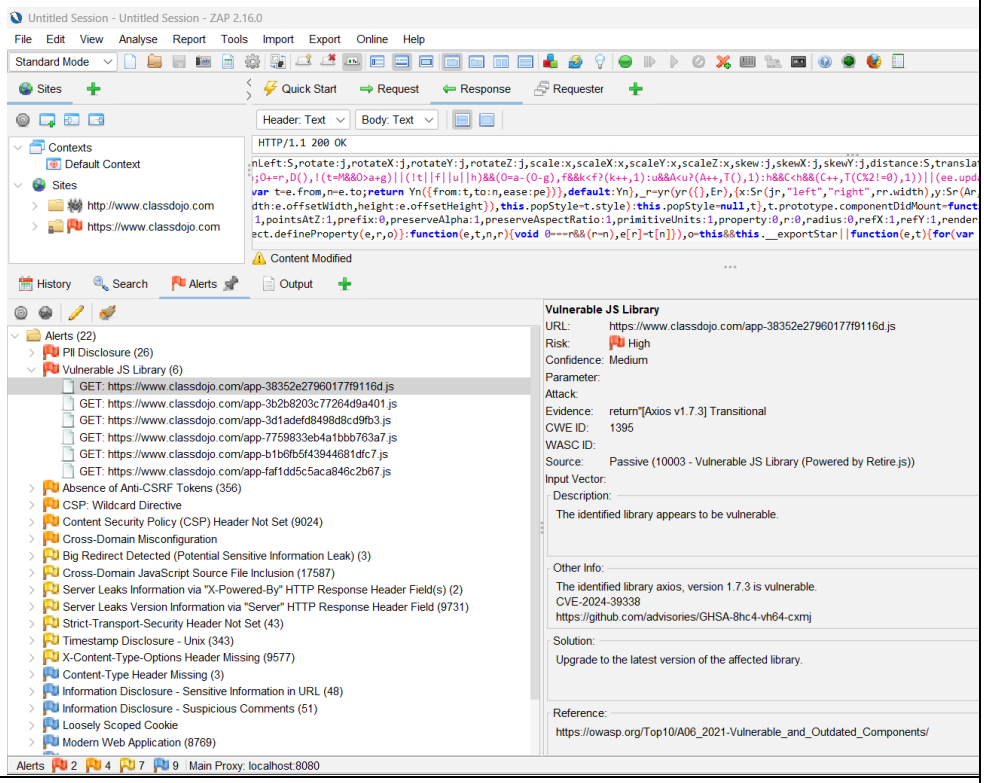
2) Introduction

1.1 Domain	**https://www.classdojo.com** https://www.classdojo.com/third-party-service-providers/
1.2 Severity	• **High**

3) Vulnerability

3.1 Vulnerability title	Vulnerable JS Library OWASP_2021_A06 CWE-1395
3.2 Vulnerability description	The response contains Personally Identifiable Information, such as CC number, SSN and similar sensitive data.
3.3 Affected components	Library: Axios Version: 1.7.3 Vulnerability: CVE-2024-39338  (Based on generated report)

	
2.4 Impact assessment	It using a vulnerable version of Axios occur: * may be able to bypass expected timeout behaviour *Create logic flaws in the request/response lifecycle of the app *May even make the application susceptible to other request-based attacks.
2.5 Steps to reproduce	1. Scan the target application using OWASP ZAP. 2. Locate the JavaScript file or header referencing Axios v1.7.3. 3. Cross-reference the version with the known CVE.

2.6 Proof of concept	
2.7 Proposed mitigation or fix	Upgrade to the latest version of the affected library. So, the current version is version 1.7.3, so we must update it. To mitigate this type of issues, we can do audits regularly. (inter audits or third-party audits)