Experiment 1.2

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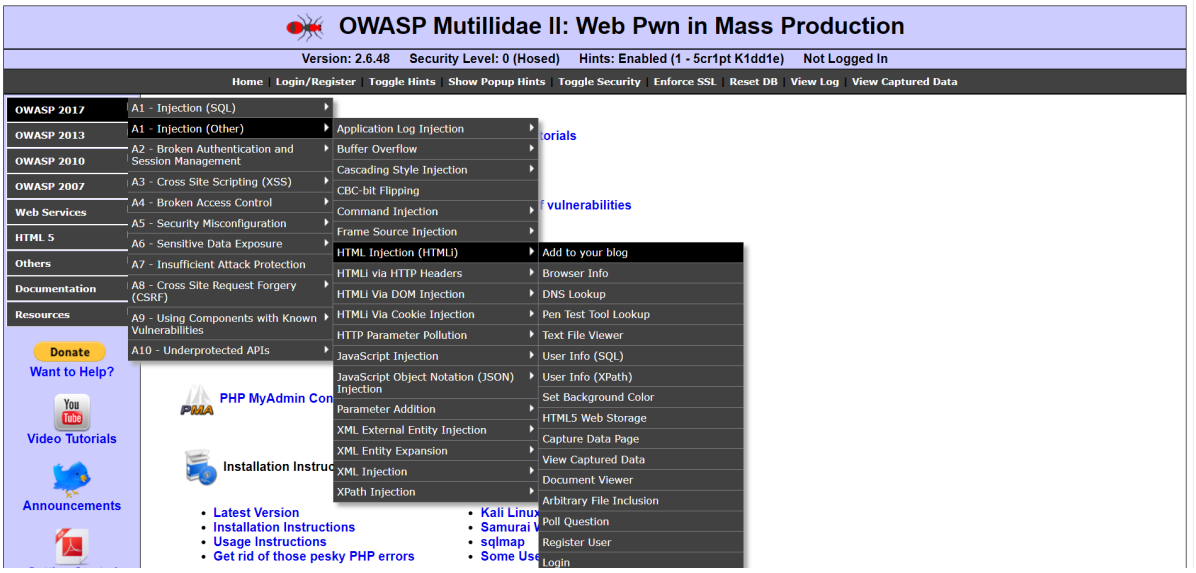
Subject Name : Web and Mobile Security Lab

Aim: Design a method to simulate the HTML injection and cross-site scripting to exploit the attacker.

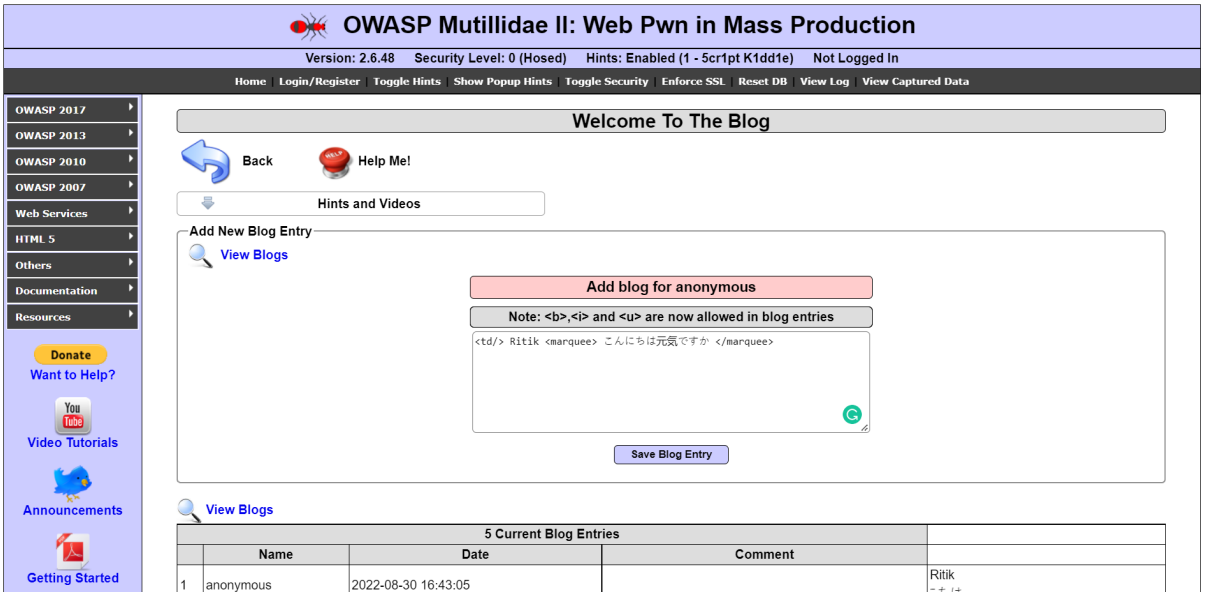
Requirements: PC with Windows 7 or above.

Steps for the experiment: HTML injection

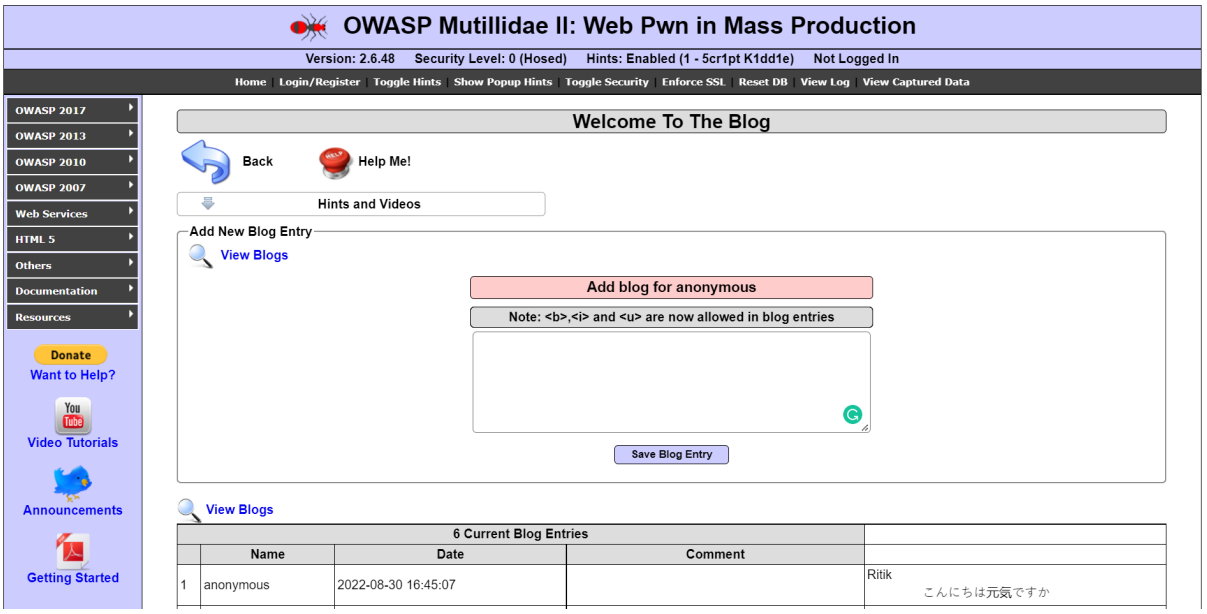
1. **Open the website:**
   [OWASP Mutillidae II: Web Pwn in Mass Production]
   Now, we'll be redirected to the web page which is suffering from an **HTML Injection vulnerability** which allows the user to submit his entry in the blog as shown in the screenshot.



2. Now, let's try to inject malicious code Enter the HTML code inside the given text area to set up the HTML attack.



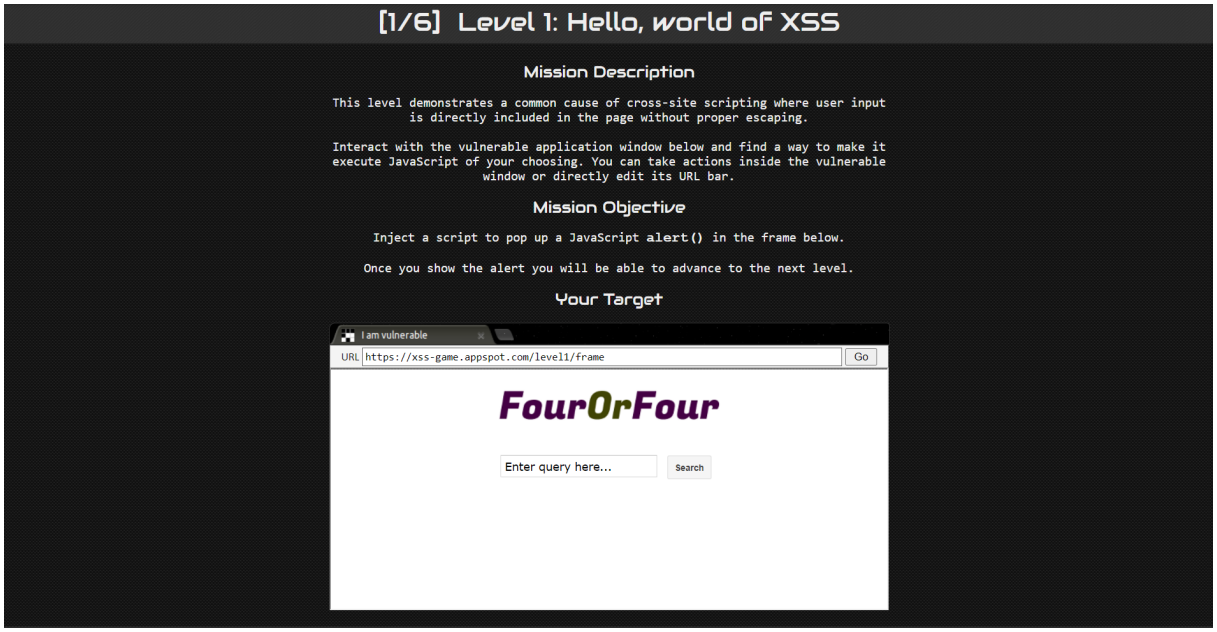
3. That HTML code is thus now in the application's web server, which gets rendered every time the victim visits this malicious page, he'll always have this code which looks official to him.



Steps for the experiment: XMS injection

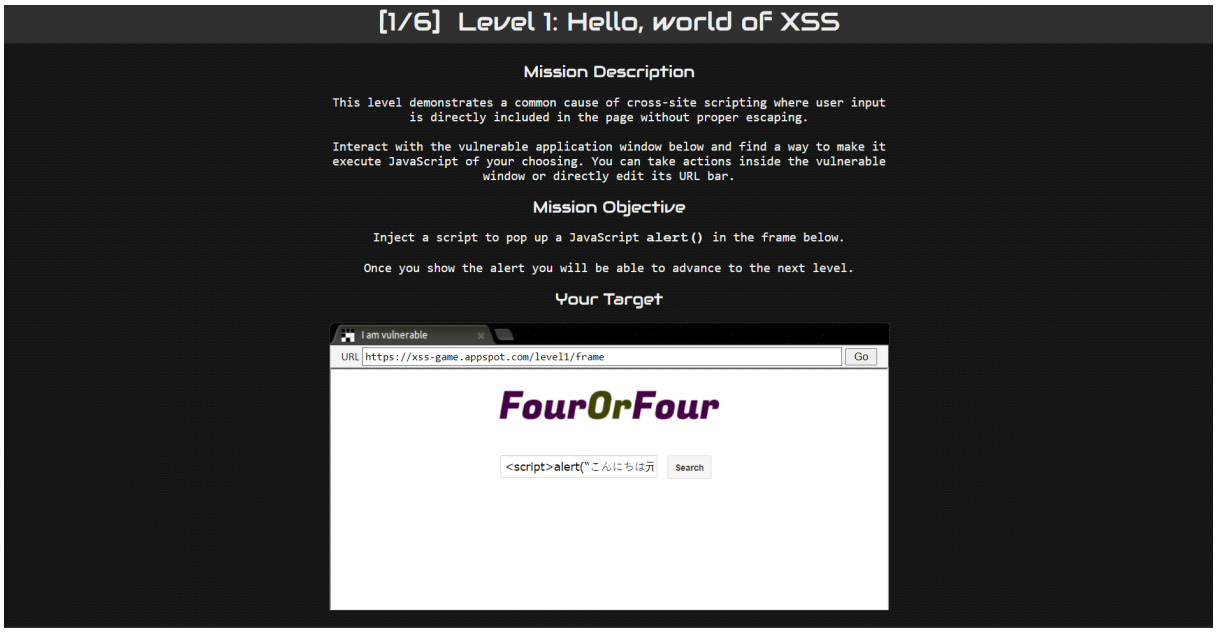
1. **Open the website:**
   [Google XSS Game Website]

   Now, we'll be redirected to the web page which is suffering from an **HTML Injection vulnerability** which allows the user to submit his entry in the blog as shown in the screenshot.



2. If the search field is vulnerable when the user enters any script, then it will be executed. Consider, a user entering a very simple script as shown below:

<script>alert("こんにちは元気ですか")</script>



3. Then after clicking on the "Search" button, the entered script will be executed. The script typed into the search field gets executed. This just shows the vulnerability of the XSS attack.

Learning outcomes (What I have learnt):

We learn what is HTML injection and XSS injection. An overview of how these attacks are constructed and applied to real systems. If the app or website lacks proper data sanitization, the malicious link executes the attacker's chosen code on the user's system. As a result, **the attacker can steal the user's active session cookie** which can be harmful to the website.

Evaluation Grid (To be created per the SOP and Assessment guidelines):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day).		
2.	Post-Lab Quiz Result.		
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		
	Signature of Faculty (with Date):	Total Marks Obtained:	