

# Penetration Testing Report

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**Program: HCPT**

**Date: 11/02/2025**

## Introduction

This report describes the proceedings and results of a Black Box security assessment conducted against the **Week 1 Labs**. The report hereby lists the findings and corresponding best practice mitigation actions and recommendations.

## 1. Objective

The objective of the assessment was to uncover vulnerabilities in the **Week 1 Labs** and provide a final security assessment report comprising vulnerabilities, remediation strategy and recommendation guidelines to help mitigate the identified vulnerabilities and risks during the activity.

## 2. Scope

This section defines the scope and boundaries of the project.

<b>Application Name</b>	<b>HTML and Cross site scripting Injections</b>
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## 3. Summary

Outlined is a Black Box Application Security assessment for **Week 1 Labs**.

Total number of Sub-labs: 17 Sub-labs

<b>High</b>	<b>Medium</b>	<b>Low</b>
Two(2)	Twelve(12)	Three(3)

- High** - Number of Sub-labs with hard difficulty level
- Medium** - Number of Sub-labs with Medium difficulty level
- Low** - Number of Sub-labs with Easy difficulty level

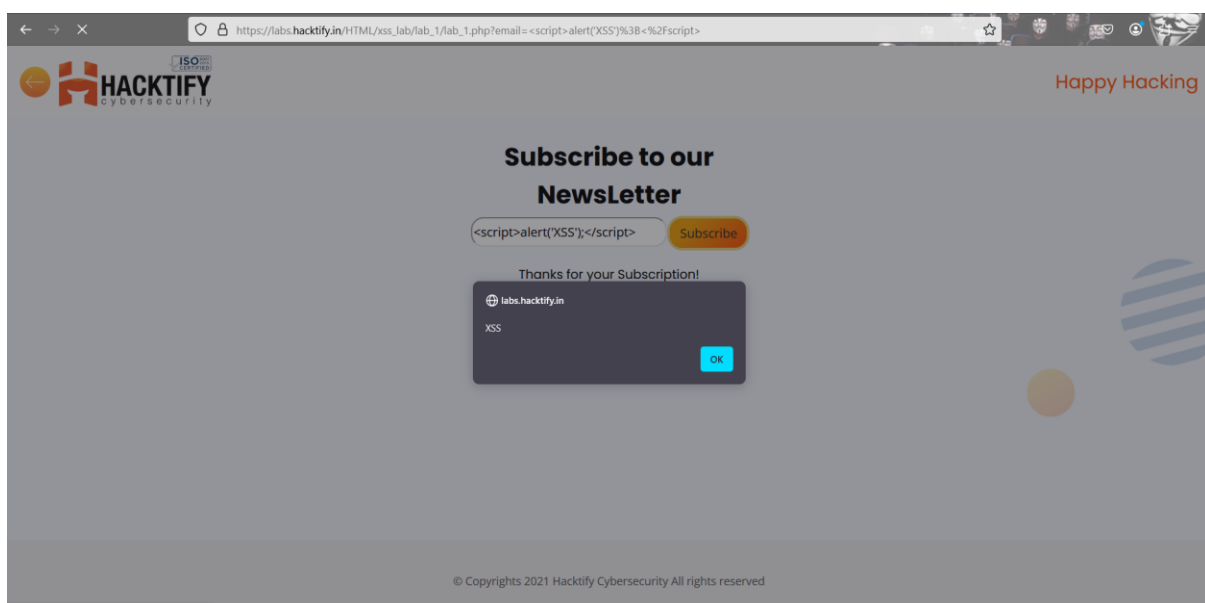
# 1. Cross site Scripting

## 1.1. Let's do it!

Reference	Risk Rating
Let's do it!	Low
<b>Tools Used</b>	
XSS payloads using javascript	
<b>Vulnerability Description</b>	
Cross-Site Scripting (XSS) is a type of security vulnerability that allows attackers to inject malicious scripts (usually JavaScript) into web pages viewed by other users	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/xss_lab/lab_1/lab_1.php?email=%3Cscript%3Ealert%28%27XSS%27%29%3B%3C%2Fscript%3E">https://labs.hacktify.in/HTML/xss_lab/lab_1/lab_1.php?email=%3Cscript%3Ealert%28%27XSS%27%29%3B%3C%2Fscript%3E</a>	
<b>Consequences of not Fixing the Issue</b>	
Validate and sanitize all user inputs.	
<b>Suggested Countermeasures</b>	
XSS vulnerabilities can allow the manipulation of content on a web page, compromising the integrity of the application.	
<b>References</b>	
<a href="https://owasp.org/www-community/attacks/xss/">https://owasp.org/www-community/attacks/xss/</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab

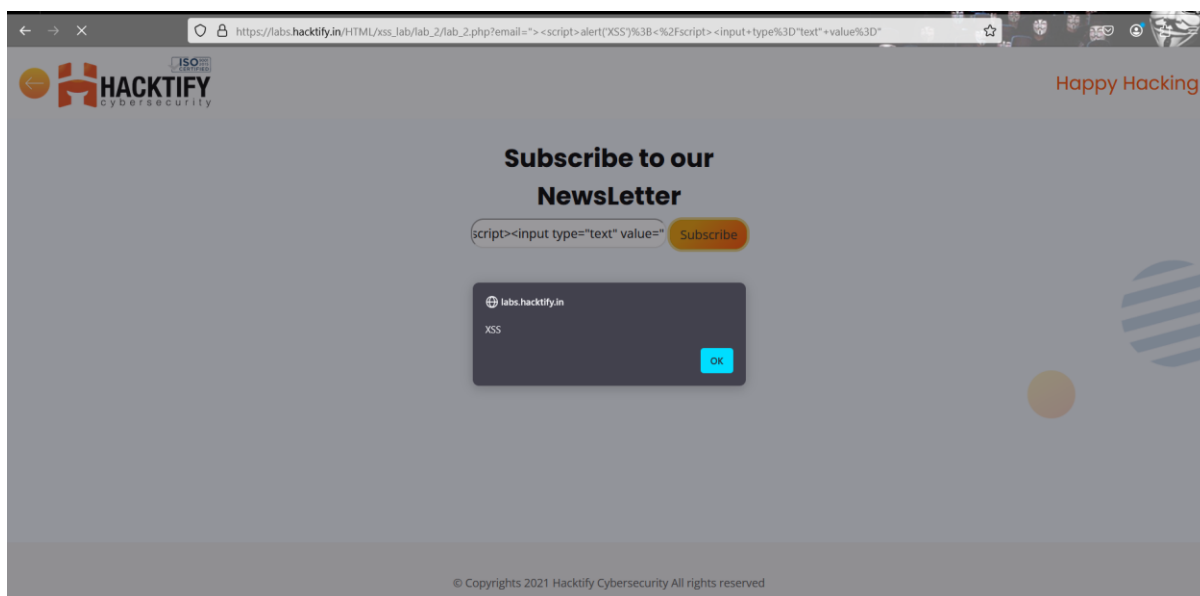


## 1.2. Balancing is important in life

Reference	Risk Rating
Balancing is important in life	Medium
<b>Tools Used</b>	
XSS payloads using javascript	
<b>Vulnerability Description</b>	
Balancing a payload for an XSS injection attack refers to crafting the payload in such a way that it escapes the existing JavaScript context in the application, allowing the injected code to execute correctly.	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/xss_lab/lab_2/lab_2.php?email=%22%3E%3Cscript%3Ealert%28%27XSS%27%29%3B%3C%2Fscript%3E%3Cinput+type%3D%22text%22+value%3D%22">https://labs.hacktify.in/HTML/xss_lab/lab_2/lab_2.php?email=%22%3E%3Cscript%3Ealert%28%27XSS%27%29%3B%3C%2Fscript%3E%3Cinput+type%3D%22text%22+value%3D%22</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can inject malicious scripts that download malware onto users' devices.	
<b>Suggested Countermeasures</b>	
Always escape dynamic content inserted into JavaScript to prevent interpretation as code.	
<b>References</b>	
<a href="https://owasp.org/www-community/attacks/xss/">https://owasp.org/www-community/attacks/xss/</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab

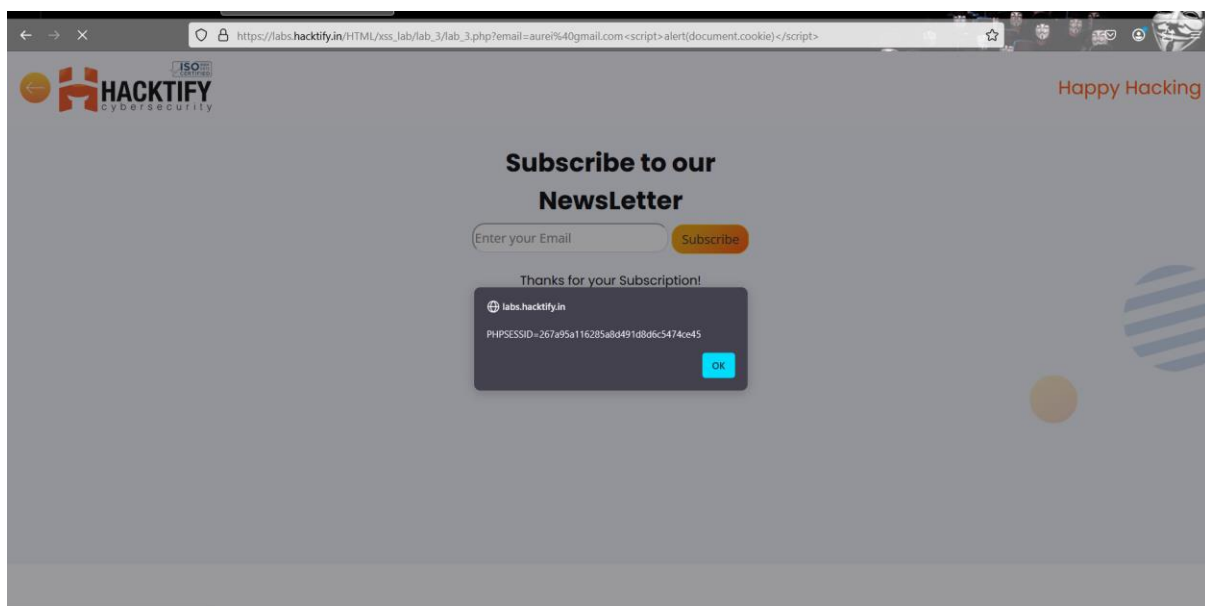


## 1.3. XSS is everywhere

Reference	Risk Rating
XSS is everywhere	Medium
<b>Tools Used</b>	
XSS payloads using javascript	
<b>Vulnerability Description</b>	
Reflected XSS attacks are those where the injected script is reflected off the web server, such as in an error message, search result, or any other response that includes some or all of the input sent to the server as part of the request.	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/xss_lab/lab_3/lab_3.php?email=aurei%40gmail.com%3Cscript%3Ealert(document.cookie)%3C/script%3E">https://labs.hacktify.in/HTML/xss_lab/lab_3/lab_3.php?email=aurei%40gmail.com%3Cscript%3Ealert(document.cookie)%3C/script%3E</a>	
<b>Consequences of not Fixing the Issue</b>	
By stealing session cookies, attackers can impersonate users and gain unauthorized access to their accounts.	
<b>Suggested Countermeasures</b>	
Deploy a Web Application Firewall to detect and block XSS payloads in real-time.	
<b>References</b>	
<a href="https://owasp.org/www-community/attacks/xss/">https://owasp.org/www-community/attacks/xss/</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab

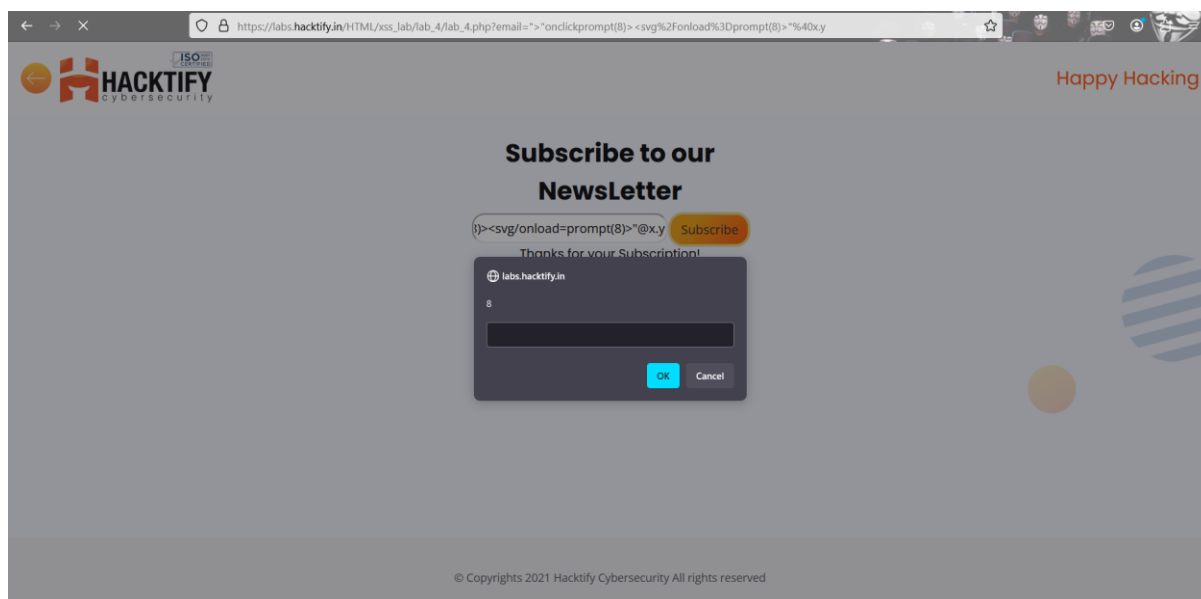


## 1.4. Alternatives are a must!

Reference	Risk Rating
Alternatives are a must!	Medium
<b>Tools Used</b>	
XSS payloads using javascript	
<b>Vulnerability Description</b>	
Reflected XSS attacks are those where the injected script is reflected off the web server, such as in an error message, search result, or any other response that includes some or all of the input sent to the server as part of the request.	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/xss_lab/lab_4/lab_4.php?email=%22%3E%22onclickprompt%28%29%3E%3Csvg%2Fonload%3Dprompt%28%29%3E%22%40x.y">https://labs.hacktify.in/HTML/xss_lab/lab_4/lab_4.php?email=%22%3E%22onclickprompt%28%29%3E%3Csvg%2Fonload%3Dprompt%28%29%3E%22%40x.y</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can modify the content of the website, leading to reputational damage.	
<b>Suggested Countermeasures</b>	
Use allowlists to accept only expected and safe input patterns.	
<b>References</b>	
<a href="https://owasp.org/www-community/attacks/xss/">https://owasp.org/www-community/attacks/xss/</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab

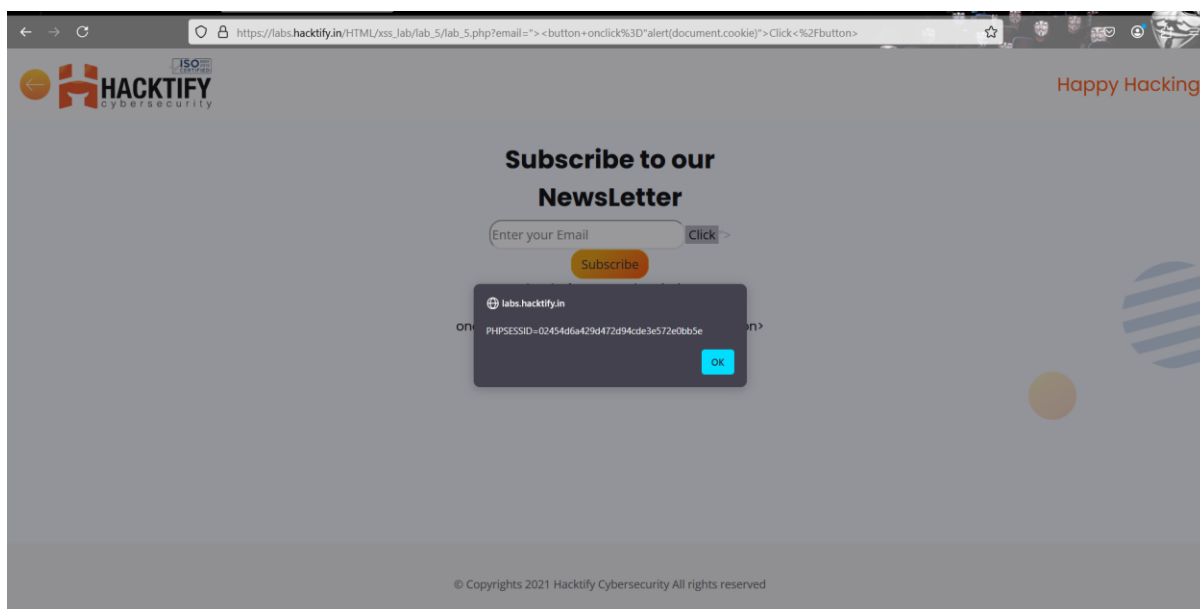


## 1.5. Developer hates scripts!

Reference	Risk Rating
Developer hates scripts!	Medium
<b>Tools Used</b>	
XSS payloads using javascript and burp suite for encoding	
<b>Vulnerability Description</b>	
Reflected attacks are those where the injected script is reflected off the web server, such as in an error message, search result, or any other response that includes some or all of the input sent to the server as part of the request.	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/xss_lab/lab_5/lab_5.php?email=%22%3E%3Cbutton+onclick%3D%22alert%28document.cookie%29%22%3EClick%3C%2Fbutton%3E">https://labs.hacktify.in/HTML/xss_lab/lab_5/lab_5.php?email=%22%3E%3Cbutton+onclick%3D%22alert%28document.cookie%29%22%3EClick%3C%2Fbutton%3E</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can modify the content of the website, leading to reputational damage.	
<b>Suggested Countermeasures</b>	
Use context-specific encoding (e.g. JavaScript, URL) depending on where the data is being inserted.	
<b>References</b>	
<a href="https://owasp.org/www-community/attacks/xss/">https://owasp.org/www-community/attacks/xss/</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab

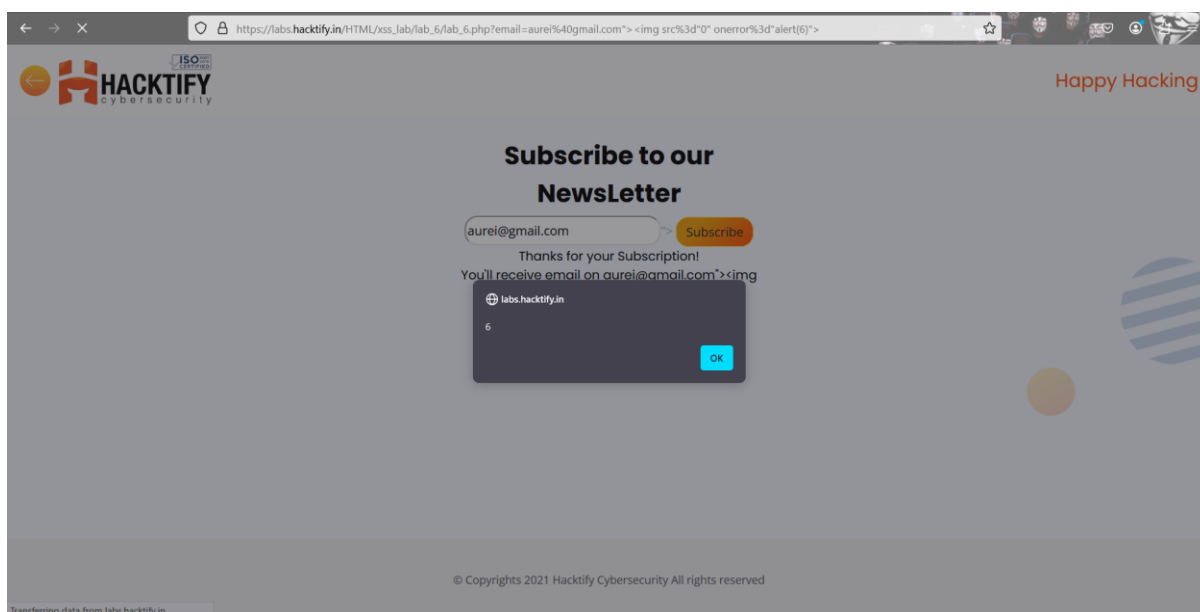


## 1.6. Change the variation!

Reference	Risk Rating
Change the variation!	Medium
<b>Tools Used</b>	
XSS payloads using javascript and burp suite for encoding	
<b>Vulnerability Description</b>	
Reflected XSS occurs when an attacker injects malicious scripts into a web application, which are then reflected back to the victim's browser and executed. This typically happens when user input is included in the server's response without proper validation or encoding.	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/xss_lab/lab_6/lab_6.php?email=aurei%40gmail.com%22%3E%3Cimg%20src%3d%22%20%22%20onerror%3d%22alert(6)%22%3E">https://labs.hacktify.in/HTML/xss_lab/lab_6/lab_6.php?email=aurei%40gmail.com%22%3E%3Cimg%20src%3d%22%20%22%20onerror%3d%22alert(6)%22%3E</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can inject scripts that redirect users to malicious websites or download malware onto their devices.	
<b>Suggested Countermeasures</b>	
Validate all user inputs on the server side to ensure they conform to expected formats (e.g., alphanumeric characters, email format, etc.).	
<b>References</b>	
<a href="https://cheatsheetseries.owasp.org/cheatsheets/Cross_Site_Scripting_Prevention_Cheat_Sheet.html">https://cheatsheetseries.owasp.org/cheatsheets/Cross_Site_Scripting_Prevention_Cheat_Sheet.html</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability

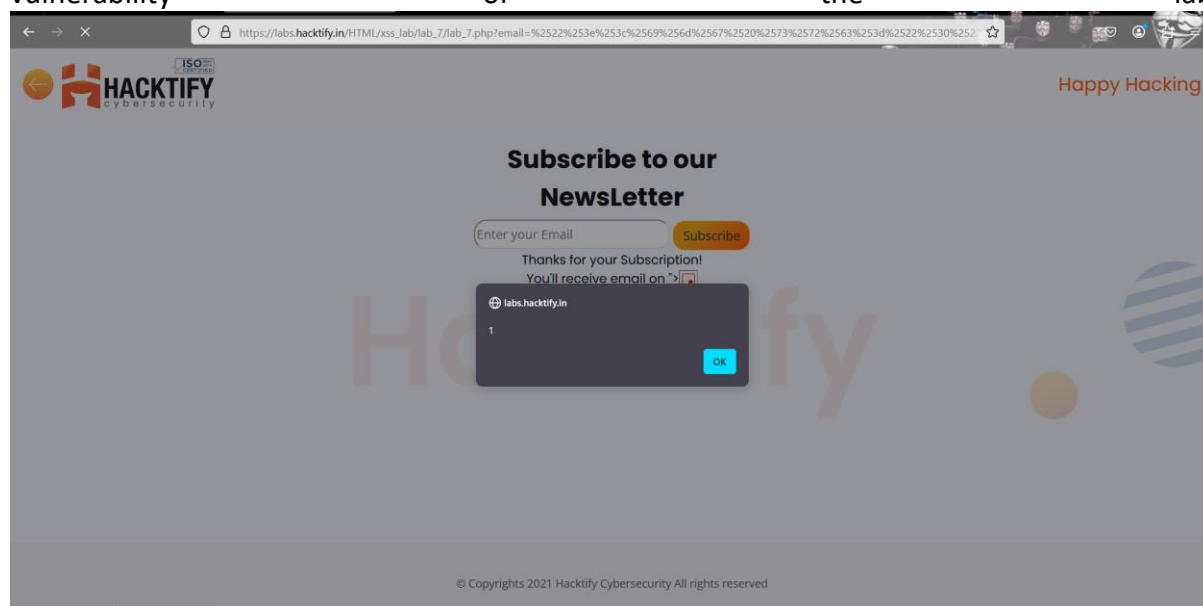


## 1.7. Encoding is the key?

Reference	Risk Rating
Encoding is the key?	Medium
<b>Tools Used</b>	
Xss encoded payload	
<b>Vulnerability Description</b>	
Reflected XSS occurs when an attacker injects malicious scripts into a web application, which are then reflected back to the victim's browser and executed. This typically happens when user input is included in the server's response without proper validation or encoding.	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/xss_lab/lab_7/lab_7.php?email=%2522%253e%253c%2569%256d%2567%2520%2573%2572%2563%253d%2522%2530%2522%2520%256f%256e%2565%2572%2572%256f%2572%253d%2522%2561%256c%2565%2572%2574%2528%2531%2529%2522%253e">https://labs.hacktify.in/HTML/xss_lab/lab_7/lab_7.php?email=%2522%253e%253c%2569%256d%2567%2520%2573%2572%2563%253d%2522%2530%2522%2520%256f%256e%2565%2572%2572%256f%2572%253d%2522%2561%256c%2565%2572%2574%2528%2531%2529%2522%253e</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can inject scripts that redirect users to malicious websites or download malware onto their devices.	
<b>Suggested Countermeasures</b>	
Leverage frameworks and libraries that automatically handle XSS protection, such as React, Angular, or Django.	
<b>References</b>	
<a href="https://cheatsheetseries.owasp.org/cheatsheets/Cross_Site_Scripting_Prevention_Cheat_Sheet.html#xss-prevention-rules-summary">https://cheatsheetseries.owasp.org/cheatsheets/Cross_Site_Scripting_Prevention_Cheat_Sheet.html#xss-prevention-rules-summary</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab



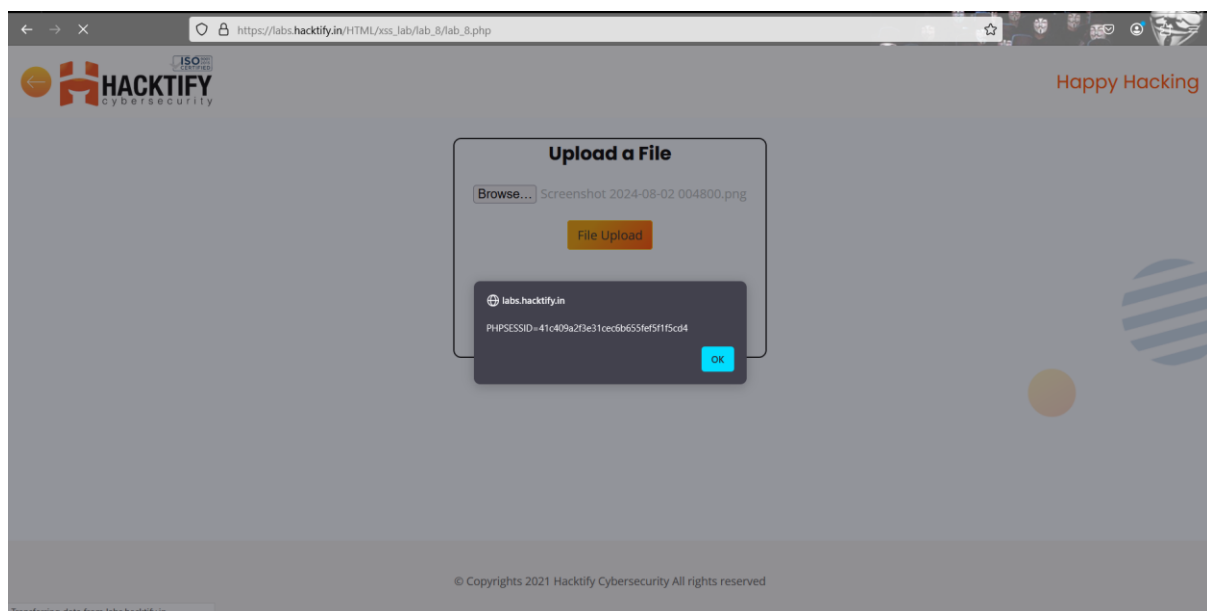


## 1.8. XSS with file upload (file name)

Reference	Risk Rating
XSS with file upload (file name)	Medium
<b>Tools Used</b>	
Xss encoded payload and burp suite	
<b>Vulnerability Description</b>	
Reflected XSS occurs when an attacker injects malicious scripts into a web application, which are then reflected back to the victim's browser and executed. This typically happens when user input is included in the server's response without proper validation or encoding.	
<b>How It Was Discovered</b>	
Automatic Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/xss_lab/lab_8/lab_8.php">https://labs.hacktify.in/HTML/xss_lab/lab_8/lab_8.php</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can modify the content of the website, leading to reputational damage.	
<b>Suggested Countermeasures</b>	
Deploy a Web Application Firewall to detect and block XSS payloads in real-time.	
<b>References</b>	
URLs to the sources used to know more about this vulnerability	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability

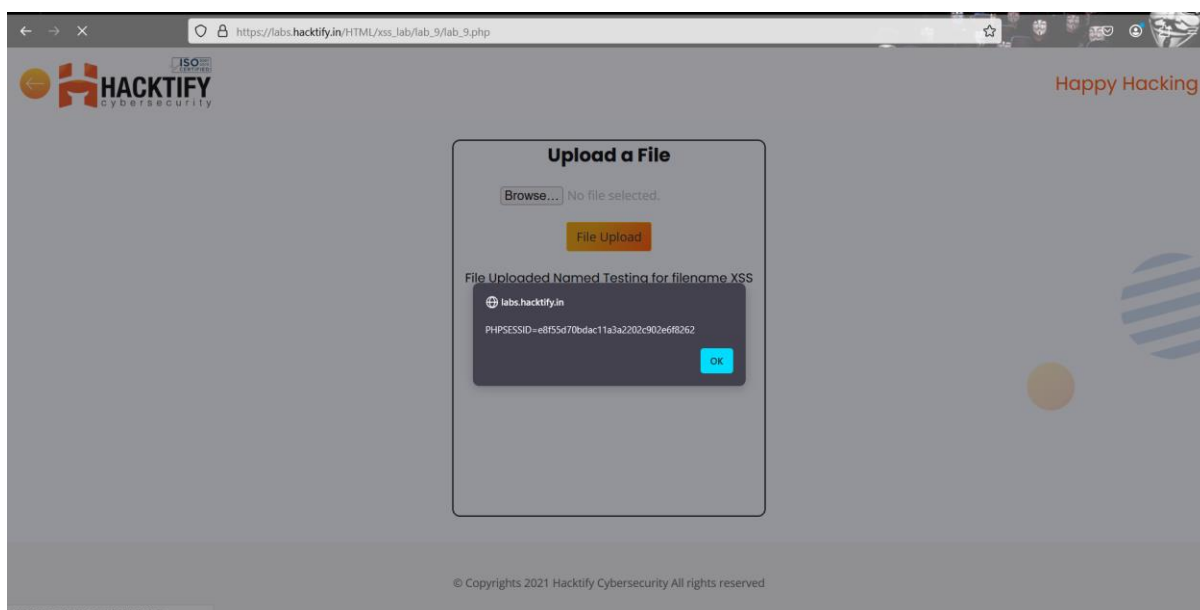


## 1.9. XSS with file upload (file content)

Reference	Risk Rating
XSS with file upload (file content)	Medium
<b>Tools Used</b>	
Xss encoded payload	
<b>Vulnerability Description</b>	
Reflected XSS occurs when an attacker injects malicious scripts into a web application, which are then reflected back to the victim's browser and executed. This typically happens when user input is included in the server's response without proper validation or encoding.	
<b>How It Was Discovered</b>	
Automatic Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/xss_lab/lab_9/lab_9.php">https://labs.hacktify.in/HTML/xss_lab/lab_9/lab_9.php</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can inject scripts that redirect users to malicious websites or download malware onto their devices.	
<b>Suggested Countermeasures</b>	
Use a strong Content Security Policy to restrict the sources from which scripts can be loaded and executed.	
<b>References</b>	
<a href="https://cheatsheetseries.owasp.org/cheatsheets/Cross_Site_Scripting_Prevention_Cheat_Sheet.html">https://cheatsheetseries.owasp.org/cheatsheets/Cross_Site_Scripting_Prevention_Cheat_Sheet.html</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability

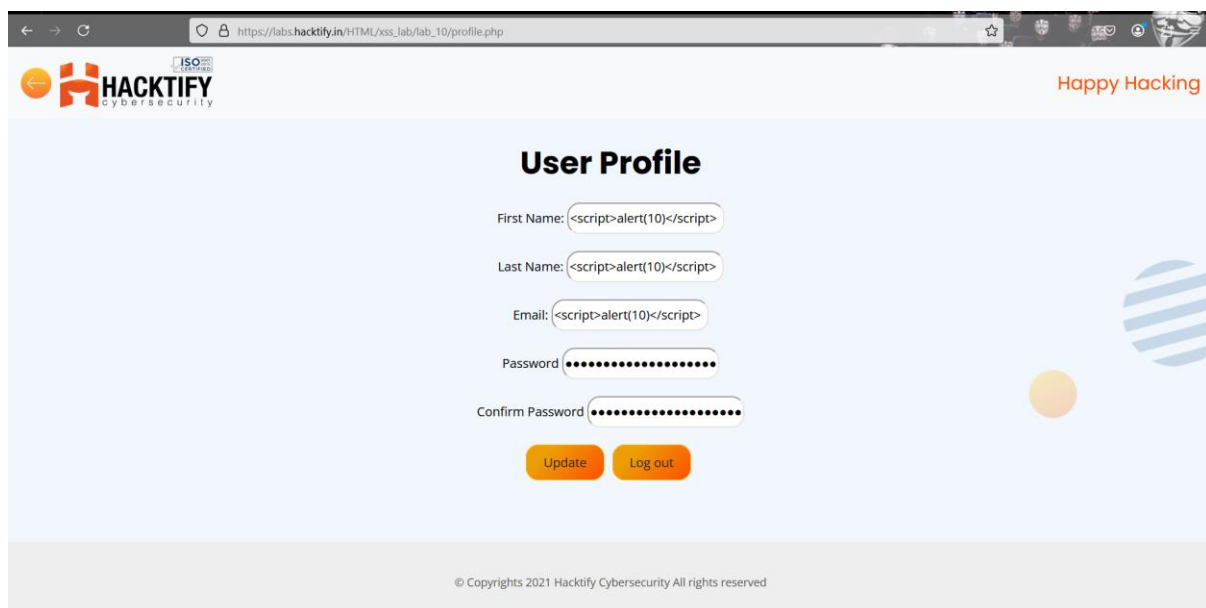


## 1.10. Stored Everywhere!

Reference	Risk Rating
Stored Everywhere!	Medium
<b>Tools Used</b>	
Xss payload	
<b>Vulnerability Description</b>	
Occurs when an attacker injects malicious scripts into a web application, which are then stored on the server (e.g., in a database, comment section, or user profile).	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/xss_lab/lab_10/profile.php">https://labs.hacktify.in/HTML/xss_lab/lab_10/profile.php</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can create fake login forms or other deceptive content to trick users into revealing sensitive information.	
<b>Suggested Countermeasures</b>	
Validate and sanitize all user inputs on both the client and server sides.	
<b>References</b>	
<a href="https://cwe.mitre.org/data/definitions/79.html">https://cwe.mitre.org/data/definitions/79.html</a>	

## Proof of Concept

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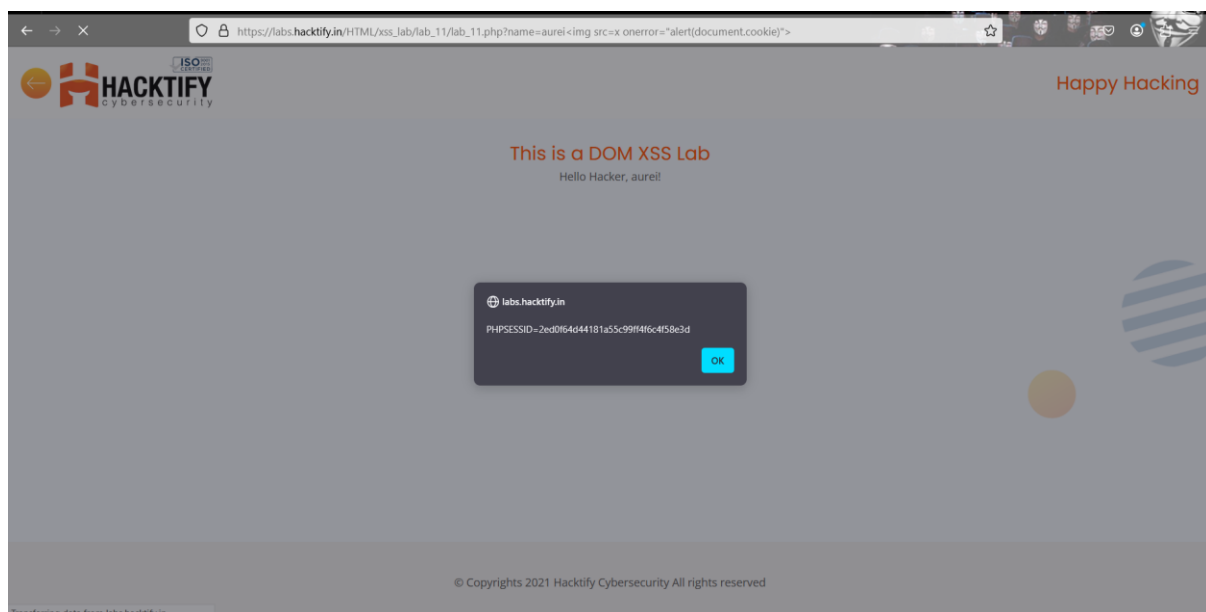


## 1.11. DOM's are love!

Reference	Risk Rating
DOM's are love!	High
<b>Tools Used</b>	
Xss payload	
<b>Vulnerability Description</b>	
DOM-based XSS is a type of XSS vulnerability where the attack payload is executed as a result of modifying the Document Object Model (DOM) in the victim's browser.	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/xss_lab/lab_11/lab_11.php?name=aurei%3Cimg%20src=x%20onerror=%22alert(document.cookie)%22%3E">https://labs.hacktify.in/HTML/xss_lab/lab_11/lab_11.php?name=aurei%3Cimg%20src=x%20onerror=%22alert(document.cookie)%22%3E</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can steal sensitive information such as session cookies, login credentials, or personal data.	
<b>Suggested Countermeasures</b>	
Use the Secure flag to ensure cookies are only sent over HTTPS.	
<b>References</b>	
<a href="https://cheatsheetseries.owasp.org/cheatsheets/DOM_based_XSS_Prevention_Cheat_Sheet.html">https://cheatsheetseries.owasp.org/cheatsheets/DOM_based_XSS_Prevention_Cheat_Sheet.html</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab



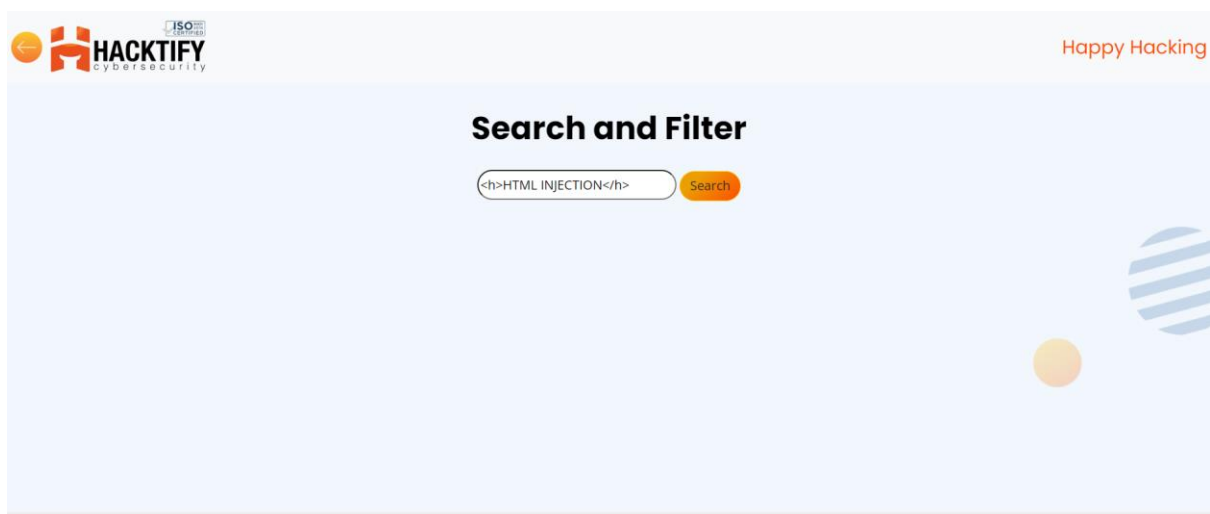
## 2. HTML INJECTION

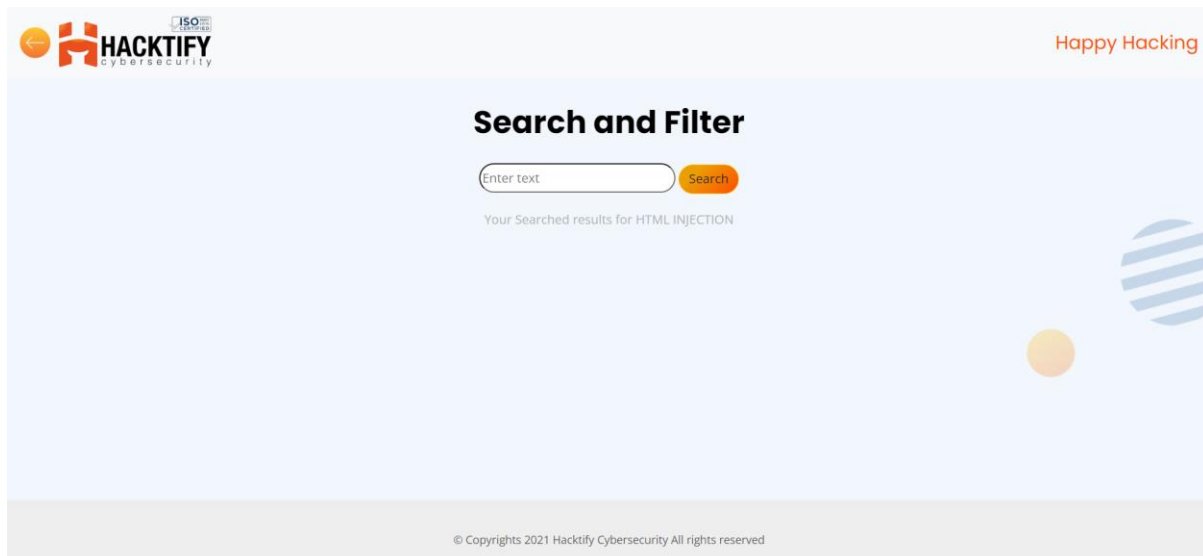
### 2.1. HTML's are easy!

Reference	Risk Rating
HTML's are easy!	Low
<b>Tools Used</b>	
HTML code tags	
<b>Vulnerability Description</b>	
HTML Injection is a vulnerability where an attacker injects malicious HTML code into a web page by exploiting improper handling of user input.	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/html_lab/lab_1/html_injection_1.php">https://labs.hacktify.in/HTML/html_lab/lab_1/html_injection_1.php</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can inject spammy content or links, negatively impacting the website's search engine ranking.	
<b>Suggested Countermeasures</b>	
Validate and sanitize all user inputs on both the client and server sides. Ensure that inputs conform to expected formats (e.g., alphanumeric, no special characters).	
<b>References</b>	
<a href="https://www.imperva.com/learn/application-security/html-injection/">https://www.imperva.com/learn/application-security/html-injection/</a>	

### Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab



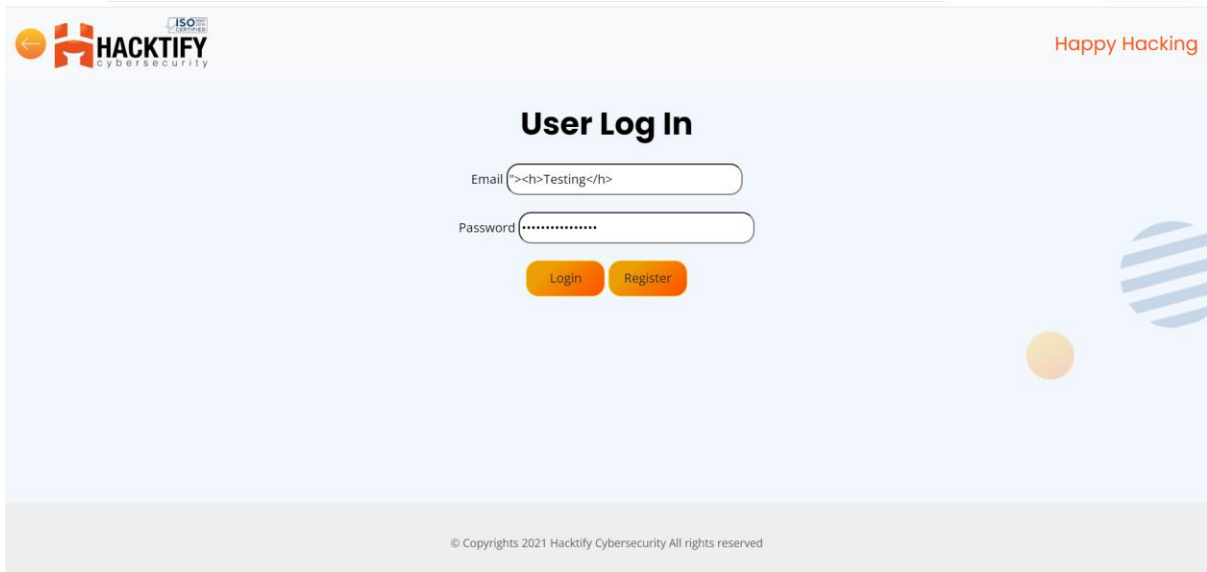


## 2.2. Let me store them

Reference	Risk Rating
Let me store them	Low
<b>Tools Used</b>	
HTML code tags	
<b>Vulnerability Description</b>	
HTML Injection is a vulnerability where an attacker injects malicious HTML code into a web page by exploiting improper handling of user input.	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/html_lab/lab_2/profile.php">https://labs.hacktify.in/HTML/html_lab/lab_2/profile.php</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can inject fake forms or content to steal sensitive information like login credentials, credit card details, or personal data.	
<b>Suggested Countermeasures</b>	
Validate and sanitize all user inputs on both the client and server sides. Ensure that inputs conform to expected formats (e.g., alphanumeric, no special characters).	
<b>References</b>	
<a href="https://www.imperva.com/learn/application-security/html-injection/">https://www.imperva.com/learn/application-security/html-injection/</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab



**HACKTIFY** cybersecurity ISO 27001 CERTIFIED Happy Hacking

### User Log In

Email:

Password:

[Login](#) [Register](#)

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**HACKTIFY** cybersecurity ISO 27001 CERTIFIED Happy Hacking

### User Profile

First Name:

Last Name:

Email:

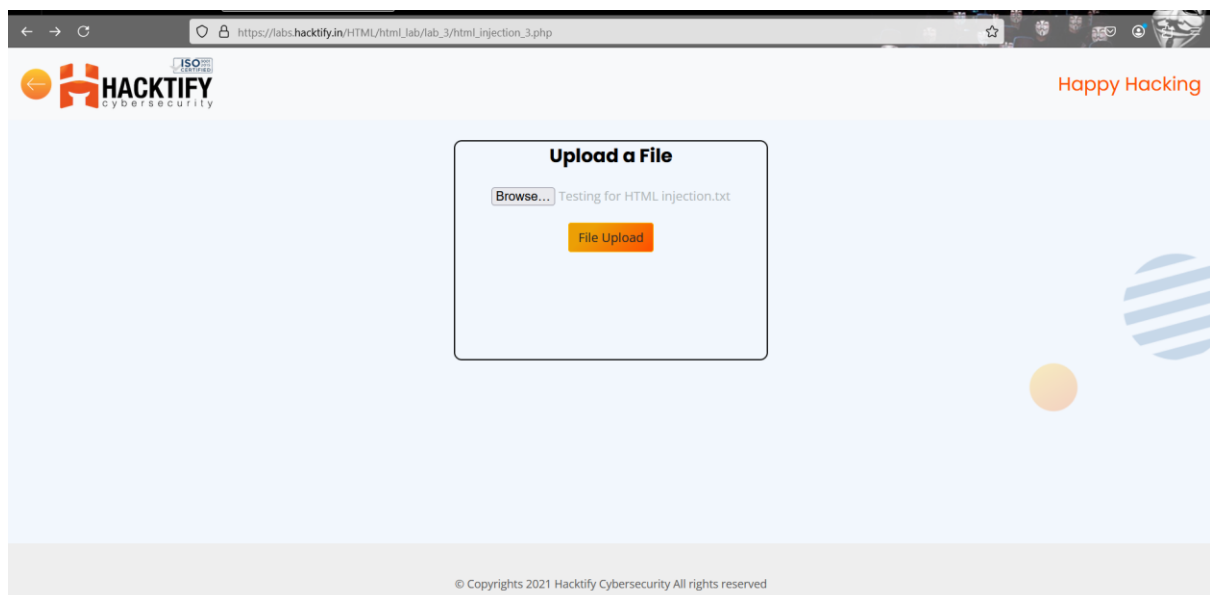
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## 2.3. Filenames are also vulnerable

Reference	Risk Rating
Filenames are also vulnerable	Medium
<b>Tools Used</b>	
HTML payload and Burp suite	
<b>Vulnerability Description</b>	
Malicious code is permanently stored on the target server. This code is then served to users every time they access a particular page. Once the malicious code is in place, it can affect a large number of users without the attacker having to do anything further.	
<b>How It Was Discovered</b>	
Automated Tools	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/html_lab/lab_3/html_injection_3.php">https://labs.hacktify.in/HTML/html_lab/lab_3/html_injection_3.php</a>	
<b>Consequences of not Fixing the Issue</b>	
By injecting malicious scripts into web pages, attackers can force users' browsers to download and execute malware without their knowledge.	
<b>Suggested Countermeasures</b>	
Give some Suggestions to stand against this vulnerability	
<b>References</b>	
<a href="https://cheatsheetseries.owasp.org/cheatsheets/File_Upload_Cheat_Sheet.html">https://cheatsheetseries.owasp.org/cheatsheets/File_Upload_Cheat_Sheet.html</a> <a href="https://www.imperva.com/learn/application-security/html-injection/">https://www.imperva.com/learn/application-security/html-injection/</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab





1 Burp Project Intruder Repeater View Help Burp Suite Community Edition v2024.12.1 - Temporary Project

Dashboard Target Proxy Intruder Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn

Intercept HTTP history WebSockets history Match and replace Proxy settings

Intercept on Forward Drop Request to https://labs.hacktify.in:44

Time	Type	Direction	Method	URL
01:21:00 17 Fe...	HTTP	→ Request	POST	https://labs.hacktify.in/HTML/html_lab/lab_3/html_injection_3.php


Request

Pretty Raw Hex

```
14 Sec-Fetch-Mode: navigate
15 Sec-Fetch-Site: same-origin
16 Sec-Fetch-User: ?1
17 Priority: u=0, i
18 Te: trailers
19
20 -----geckoformboundary640daacad38b086f5575b0f69ff2f160
21 Content-Disposition: form-data; name="image"; filename=<hl>Testing for HTML injection.txt</hl>
22 Content-Type: text/plain
23
24 Testing for filename XSS injection attack
25
26 -----geckoformboundary640daacad38b086f5575b0f69ff2f160
27 Content-Disposition: form-data; name="upload"
28
29 -----geckoformboundary640daacad38b086f5575b0f69ff2f160-----
```

Event log (97) All issues

← → ↺ https://labs.hacktify.in/HTML/html\_lab/lab\_3/html\_injection\_3.php

 **HACKTIFY**  
cybersecurity

Happy Hacking

**Upload a File**

No file selected.

File Uploaded

**Testing**

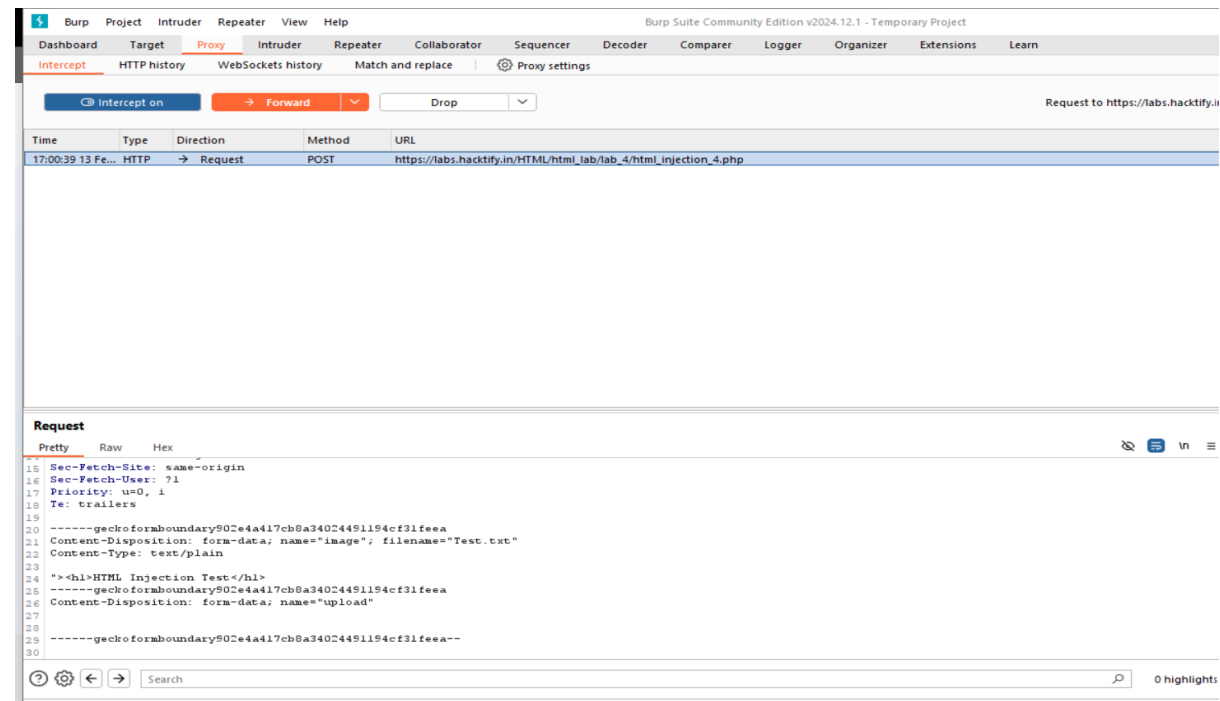
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## 2.4. File content and HTML injection a perfect pair

Reference	Risk Rating
File content and HTML injection a prefect pair	Medium
<b>Tools Used</b>	
HTML payload and Burp suite	
<b>Vulnerability Description</b>	
HTML injection via file content occurs when the application processes or displays the content of an uploaded file without proper sanitization.	
<b>How It Was Discovered</b>	
Automated Tools	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/html_lab/lab_4/html_injection_4.php">https://labs.hacktify.in/HTML/html_lab/lab_4/html_injection_4.php</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can modify the content of the website, leading to reputational damage and loss of user trust.	
<b>Suggested Countermeasures</b>	
Conduct regular code reviews and security audits to identify and fix vulnerabilities.	
<b>References</b>	
<a href="https://www.imperva.com/learn/application-security/html-injection/">https://www.imperva.com/learn/application-security/html-injection/</a>	

### Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab



### Upload a File

No file selected.

### HTML Injection Test

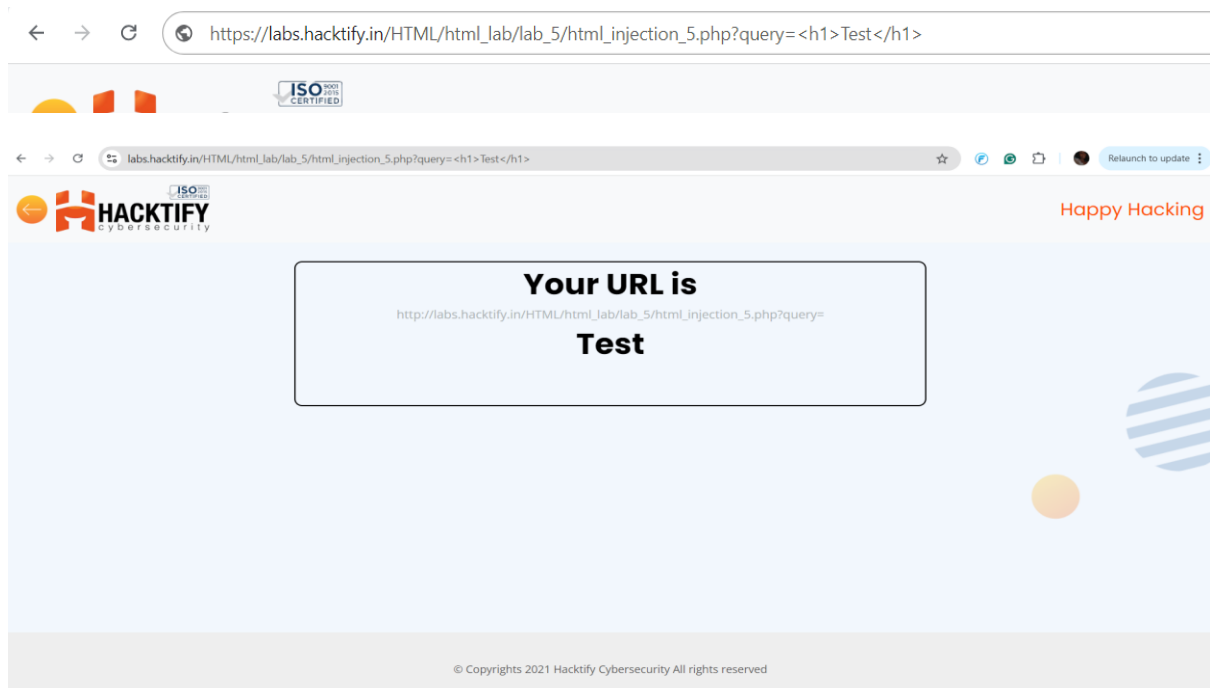
File Uploaded Named Test.txt

## 2.5. Injecting HTML using URL

Reference	Risk Rating
Injecting HTML using URL	Medium
<b>Tools Used</b>	
HTML payloads	
<b>Vulnerability Description</b>	
Injecting HTML using a URL involves manipulating URL parameters to include HTML	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/html_lab/lab_5/html_injection_5.php?query=%3Ch1%3ETest%3C/h1%3E">https://labs.hacktify.in/HTML/html_lab/lab_5/html_injection_5.php?query=%3Ch1%3ETest%3C/h1%3E</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can inject malicious scripts to redirect users to phishing sites or download malware onto their devices.	
<b>Suggested Countermeasures</b>	
Perform regular penetration testing and code reviews to identify and fix vulnerabilities.	
<b>References</b>	
<a href="https://www.imperva.com/learn/application-security/html-injection/">https://www.imperva.com/learn/application-security/html-injection/</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab

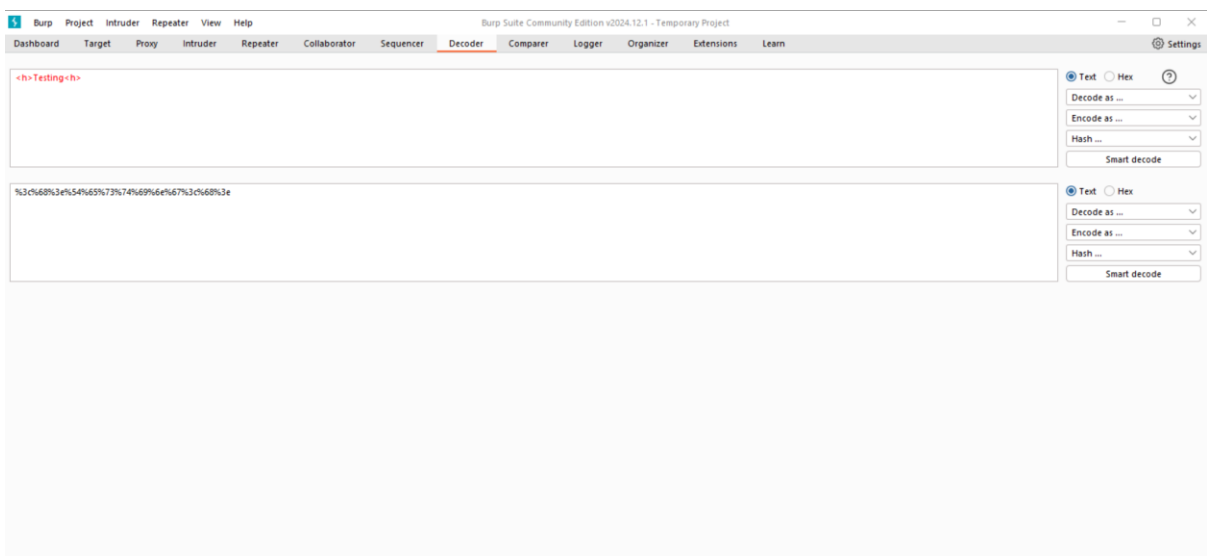


## 2.6. Encode IT!

Reference	Risk Rating
Encode IT!	High
<b>Tools Used</b>	
HTML encoded payloads	
<b>Vulnerability Description</b>	
HTML injection encoding payloads can help bypass basic input filters or sanitization mechanisms. Different encoding techniques, such as hex encoding, double hex encoding, and Base64 encoding, can be used to obfuscate the payload.	
<b>How It Was Discovered</b>	
Manual Analysis	
<b>Vulnerable URLs</b>	
<a href="https://labs.hacktify.in/HTML/html_lab/lab_5/html_injection_5.php?query=%3Ch1%3ETest%3C/h1%3E">https://labs.hacktify.in/HTML/html_lab/lab_5/html_injection_5.php?query=%3Ch1%3ETest%3C/h1%3E</a>	
<b>Consequences of not Fixing the Issue</b>	
Attackers can inject malicious scripts to redirect users to phishing sites or download malware onto their devices.	
<b>Suggested Countermeasures</b>	
Perform regular penetration testing and code reviews to identify and fix vulnerabilities.	
<b>References</b>	
<a href="https://cheatsheetseries.owasp.org/cheatsheets/Cross_Site_Scripting_Prevention_Cheat_Sheet.html">https://cheatsheetseries.owasp.org/cheatsheets/Cross_Site_Scripting_Prevention_Cheat_Sheet.html</a>	

## Proof of Concept

This section contains the proof of the above vulnerabilities as the screenshot of the vulnerability of the lab



## Search and Filter

Search

Your Searched results for Testing