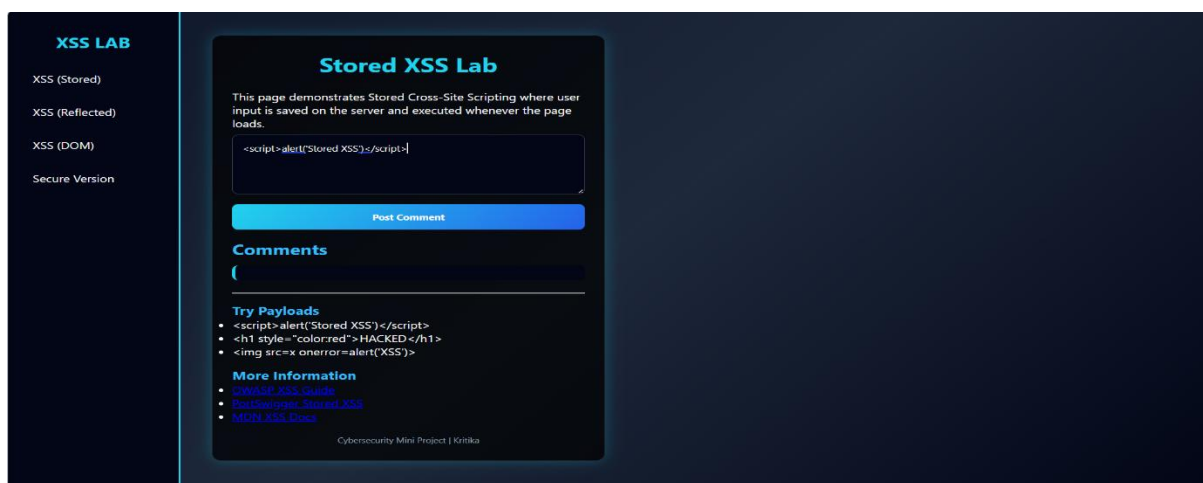
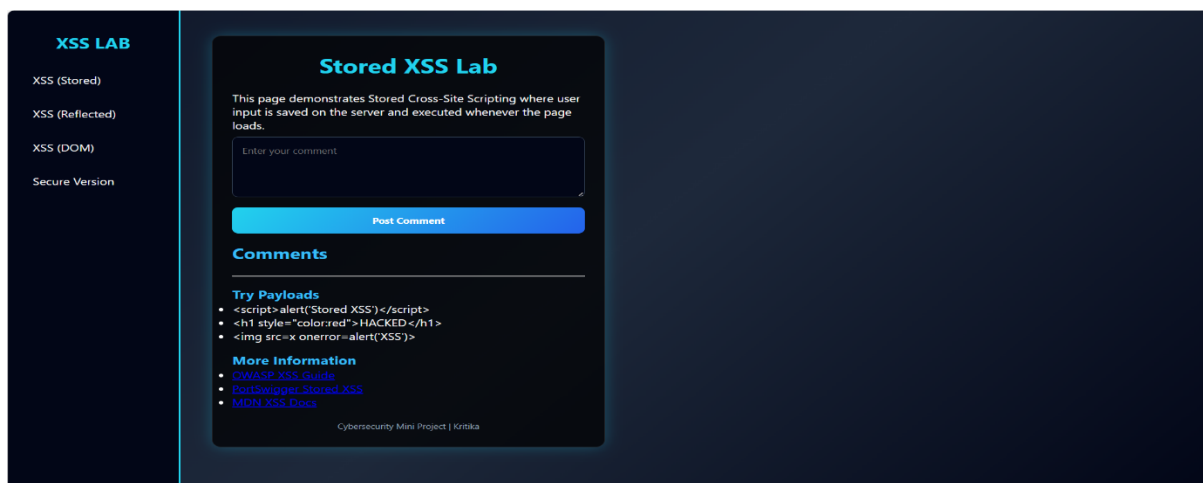


# XSS Attack Lab

This document explains the implementation and demonstration of CrossSite Scripting (XSS) vulnerabilities using a Node.js and Express based lab environment. The project shows Stored XSS, Reflected XSS, DOM Based XSS and a Secure version to demonstrate prevention techniques.

## Stored XSS Demonstration

Stored XSS occurs when user input is stored on the server and executed whenever the page loads. In this lab, comments are saved and rendered without sanitization, allowing scripts to execute.



localhost:3000 says

Stored XSS

OK

## XSS LAB

XSS (Stored)  
XSS (Reflected)  
XSS (DOM)  
Secure Version

### Stored XSS Lab

This page demonstrates Stored Cross-Site Scripting where user input is saved on the server and executed whenever the page loads.

Enter your comment

Post Comment

#### Comments

(

(

hello

#### Try Payloads

- `<script>alert('Stored XSS')</script>`
- `<h1 style='color:red'>HACKED</h1>`
- `<img src=x onerror=alert('XSS')>`

#### More Information

- [OWASP XSS Guide](#)
- [PortSwigger Stored XSS](#)
- [MDN XSS Docs](#)

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XSS (Reflected)  
XSS (DOM)  
Secure Version

This page demonstrates Stored Cross-Site Scripting where user input is saved on the server and executed whenever the page loads.

Enter your comment

Post Comment

#### Comments

(

(

hello

HACKED

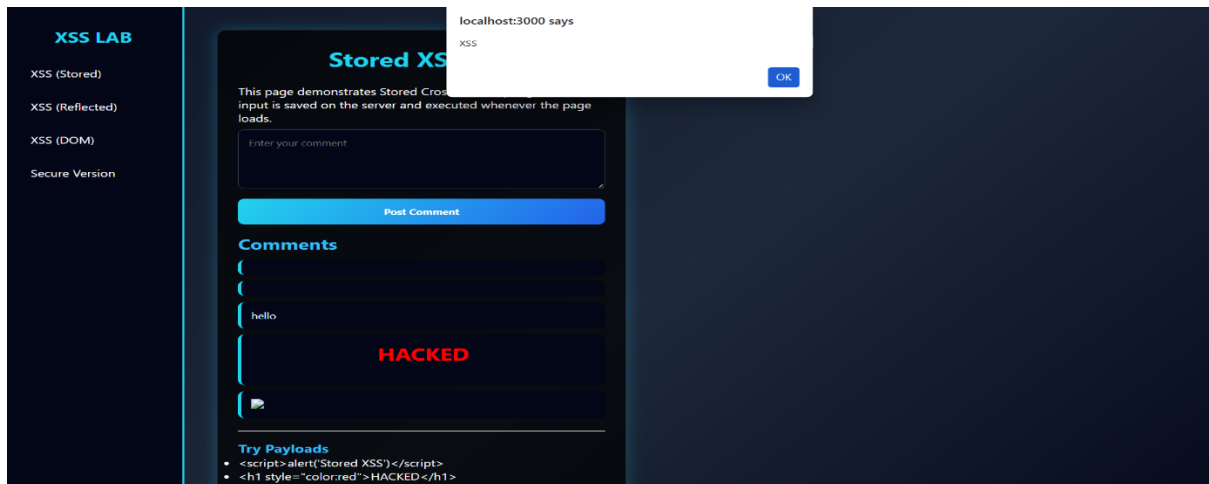
#### Try Payloads

- `<script>alert('Stored XSS')</script>`
- `<h1 style='color:red'>HACKED</h1>`
- `<img src=x onerror=alert('XSS')>`

#### More Information

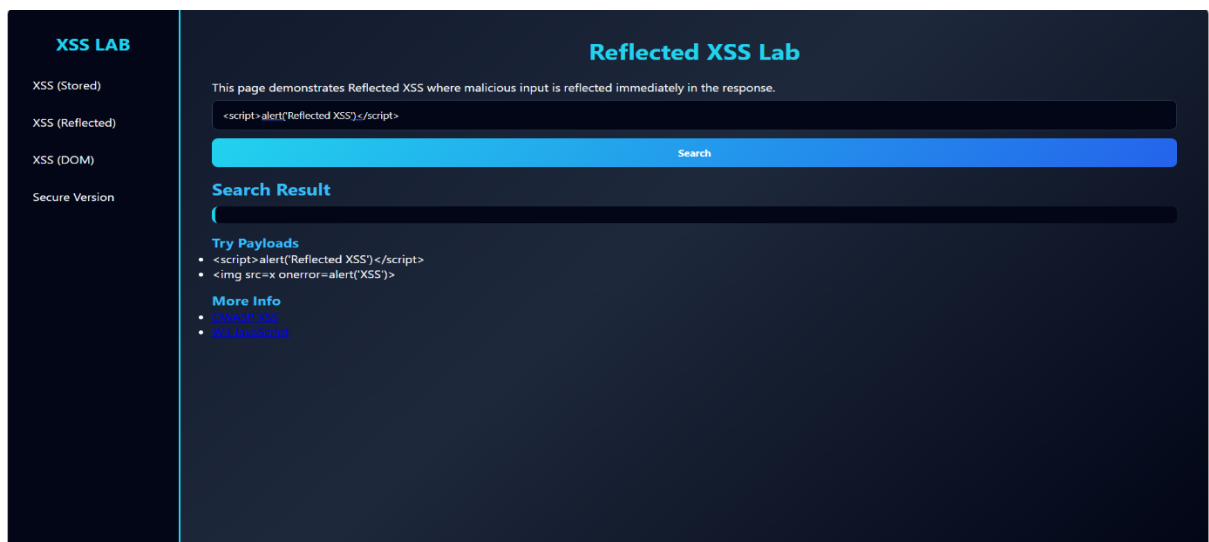
- [OWASP XSS Guide](#)
- [PortSwigger Stored XSS](#)
- [MDN XSS Docs](#)

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## Reflected XSS Demonstration

Reflected XSS happens when user input is immediately returned in the response. The attack runs instantly when a crafted input is submitted



localhost:3000 says

Reflected XSS

OK

## XSS LAB

XSS (Stored)  
XSS (Reflected)  
XSS (DOM)  
Secure Version

## Reflected XSS Lab

This page demonstrates Reflected XSS where malicious input is reflected immediately in the response.

<img src=x onerror=alert('XSS')>

Search

### Search Result

#### Try Payloads

- <script>alert('Reflected XSS')</script>
- <img src=x onerror=alert('XSS')>

#### More Info

- [OWASP XSS](#)
- [W3.Jsexploit.js](#)

## XSS LAB

XSS (Stored)  
XSS (Reflected)  
XSS (DOM)  
Secure Version

This page demonstrates Reflected XSS v

Search here

Search

### Search Result

#### Try Payloads

- <script>alert('Reflected XSS')</script>
- <img src=x onerror=alert('XSS')>

#### More Info

- [OWASP XSS](#)
- [W3.Jsexploit.js](#)

# DOM XSS Demonstration

DOM Based XSS occurs entirely on the client side when JavaScript dynamically modifies page content using unsafe user input

XSS LAB

XSS (Stored)

XSS (Reflected)

XSS (DOM)

Secure Version

DOM Based XSS Lab

This page demonstrates DOM-Based XSS using client-side JavaScript.

<img src=x onerror=alert('DOM XSS')>

Submit

Output:

(

Try Payloads

- <img src=x onerror=alert('DOM XSS')>
- <script>alert('DOM')</script>

XSS LAB

XSS (Stored)

XSS (Reflected)

XSS (DOM)

Secure Version

DOM Based XSS Lab

This page demonstrates DOM-Based XSS using client-side JavaScript.

Enter message here

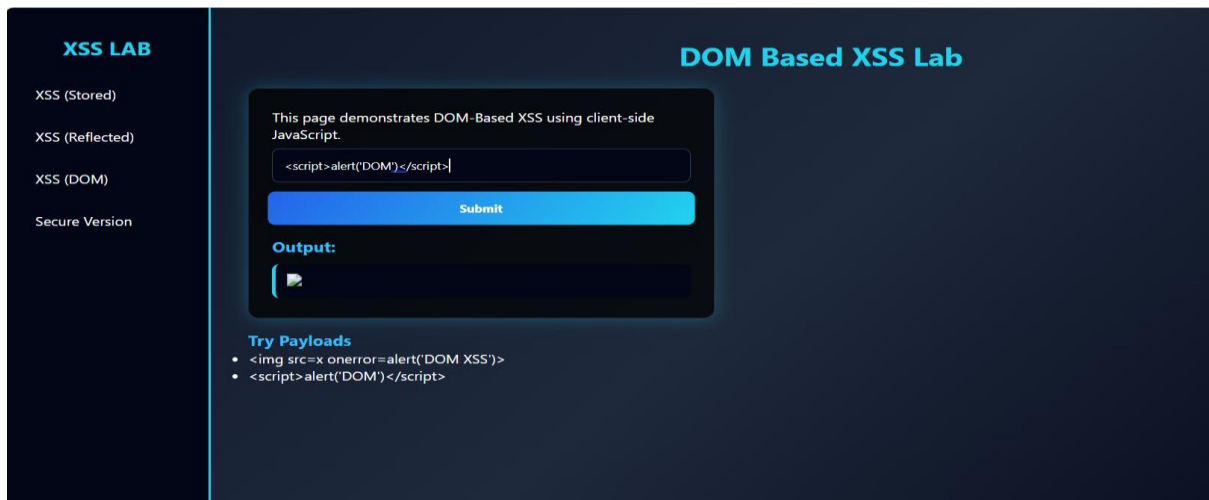
Submit

Output:

(

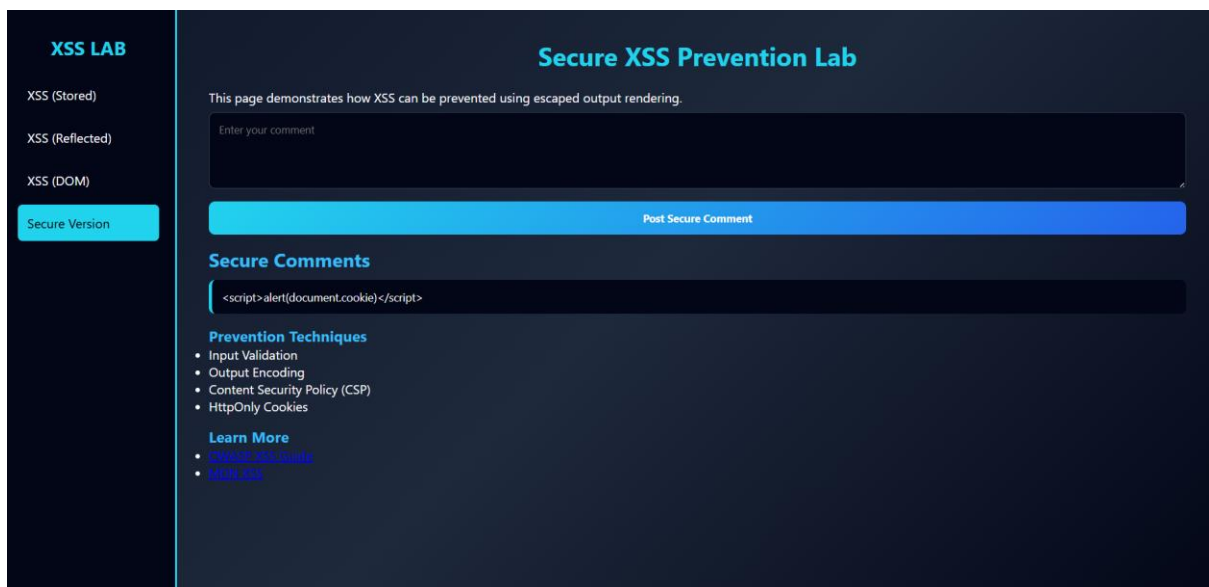
Try Payloads

- <img src=x onerror=alert('DOM XSS')>
- <script>alert('DOM')</script>



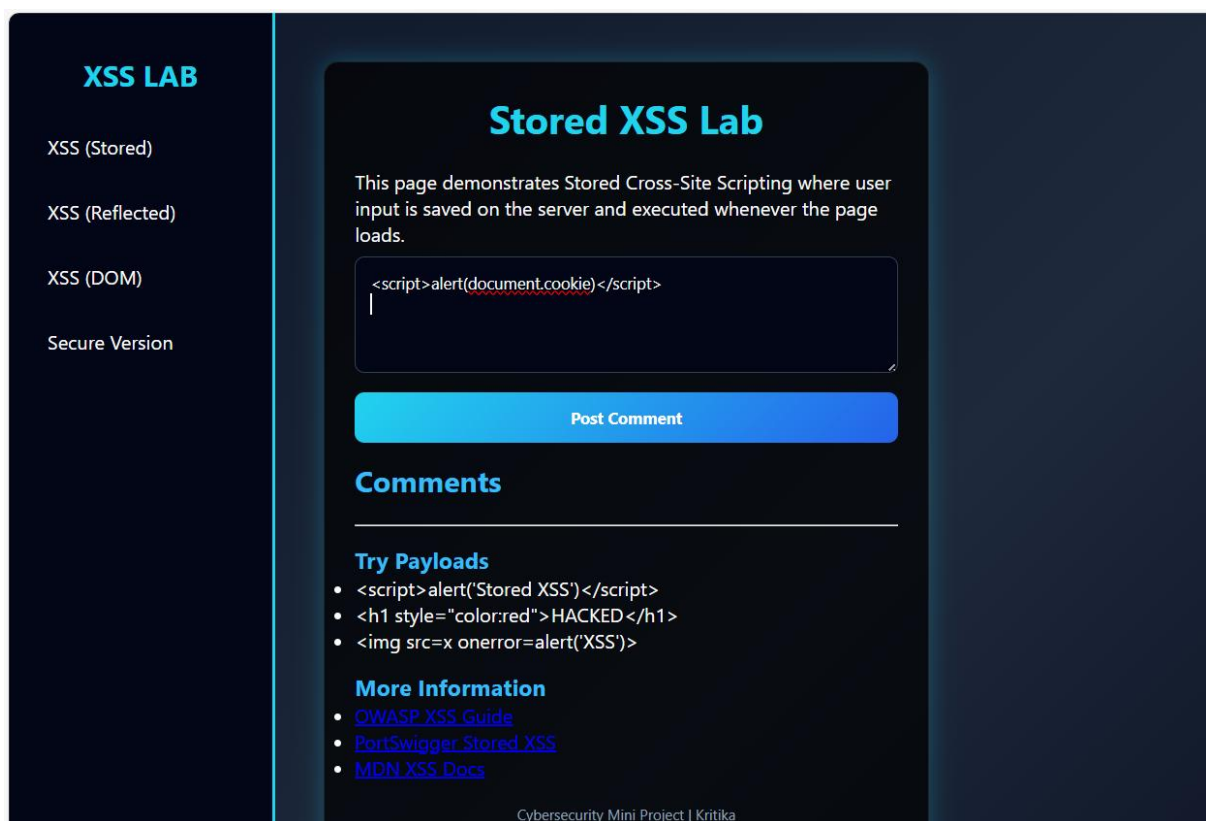
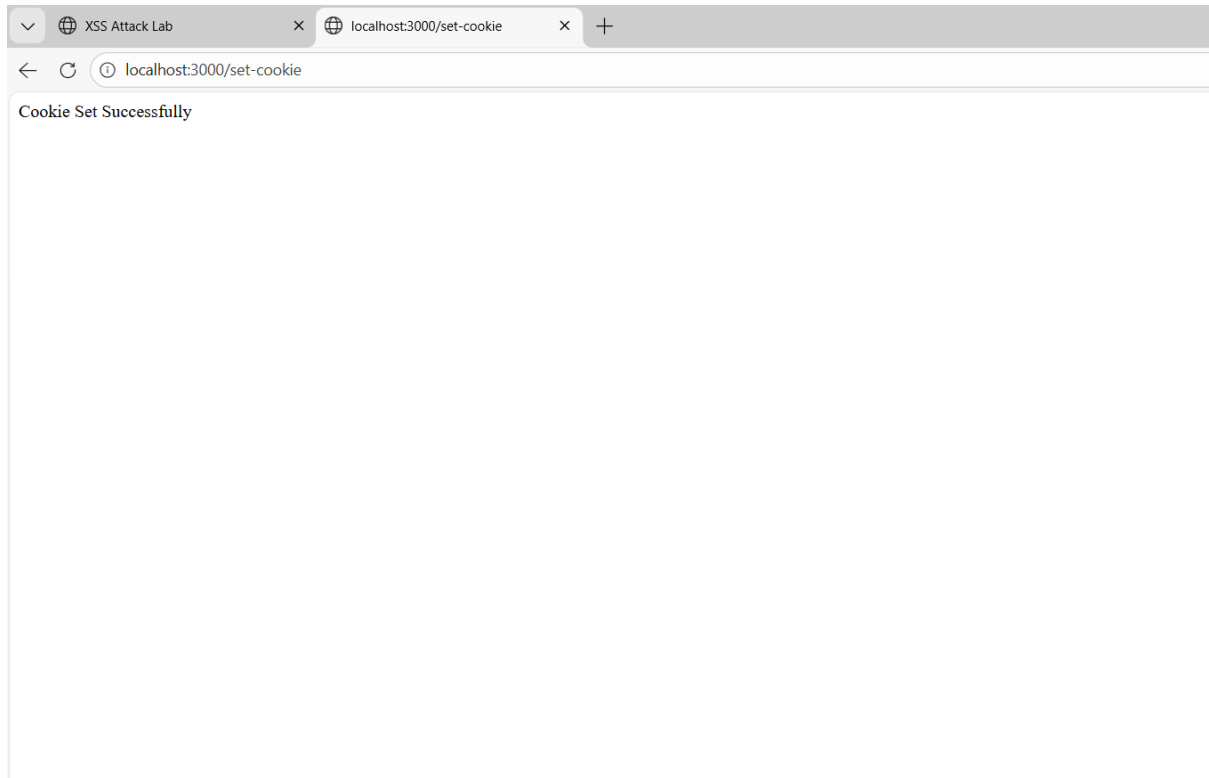
## Secure Version Demonstration

The secure page shows how output encoding and safe rendering prevent script execution



## Cookie / Session Exposure Demonstration

This section demonstrates how XSS can expose cookies using document.cookie. A demo cookie is set and then accessed via JavaScript payload.



**localhost:3000 says**

sessionId=KRITIKA123

OK