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LAB EXPERIMENT 5

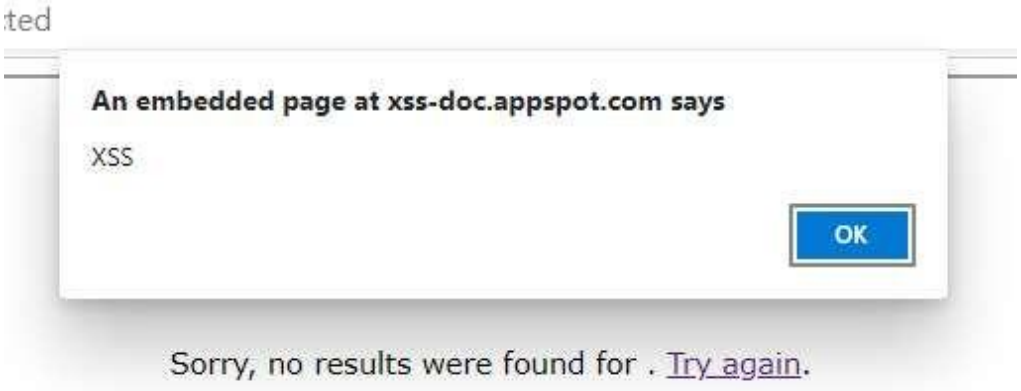
(Q) How Secure Coding is related to XSS?

With the help of XSS we are able to find out the vulnerabilities of a website or web application. Here we apply payloads to test the website if it is vulnerable. With the help of XSS the user can write a better code to cover these vulnerabilities. It is just like a reality check for the creator of the website.

(Q) Rxss on demo website?

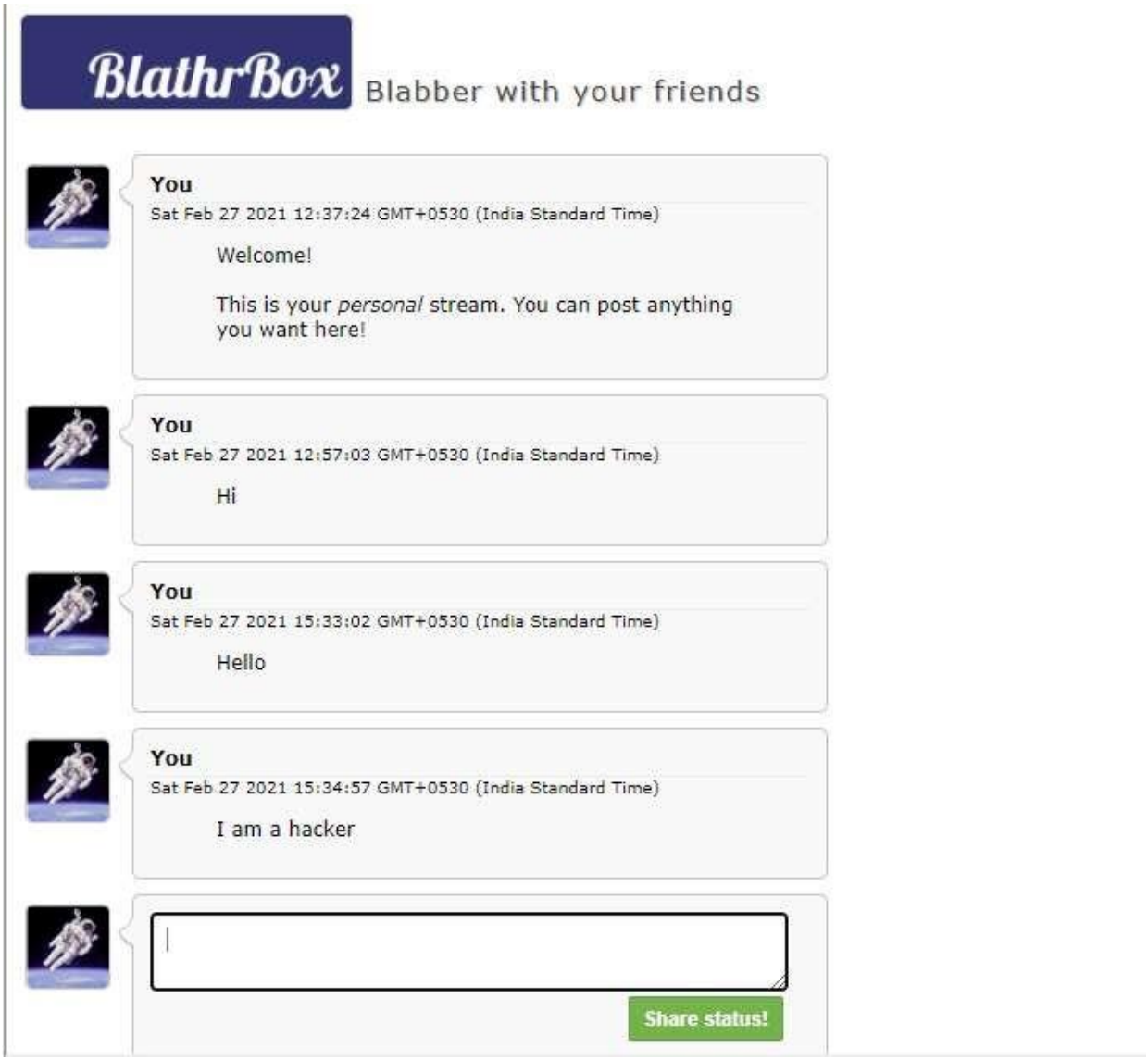
Payload used: **<IMG SRC=x onerror="alert(String.fromCharCode(88,83,83))">**

OUTPUT Generated:

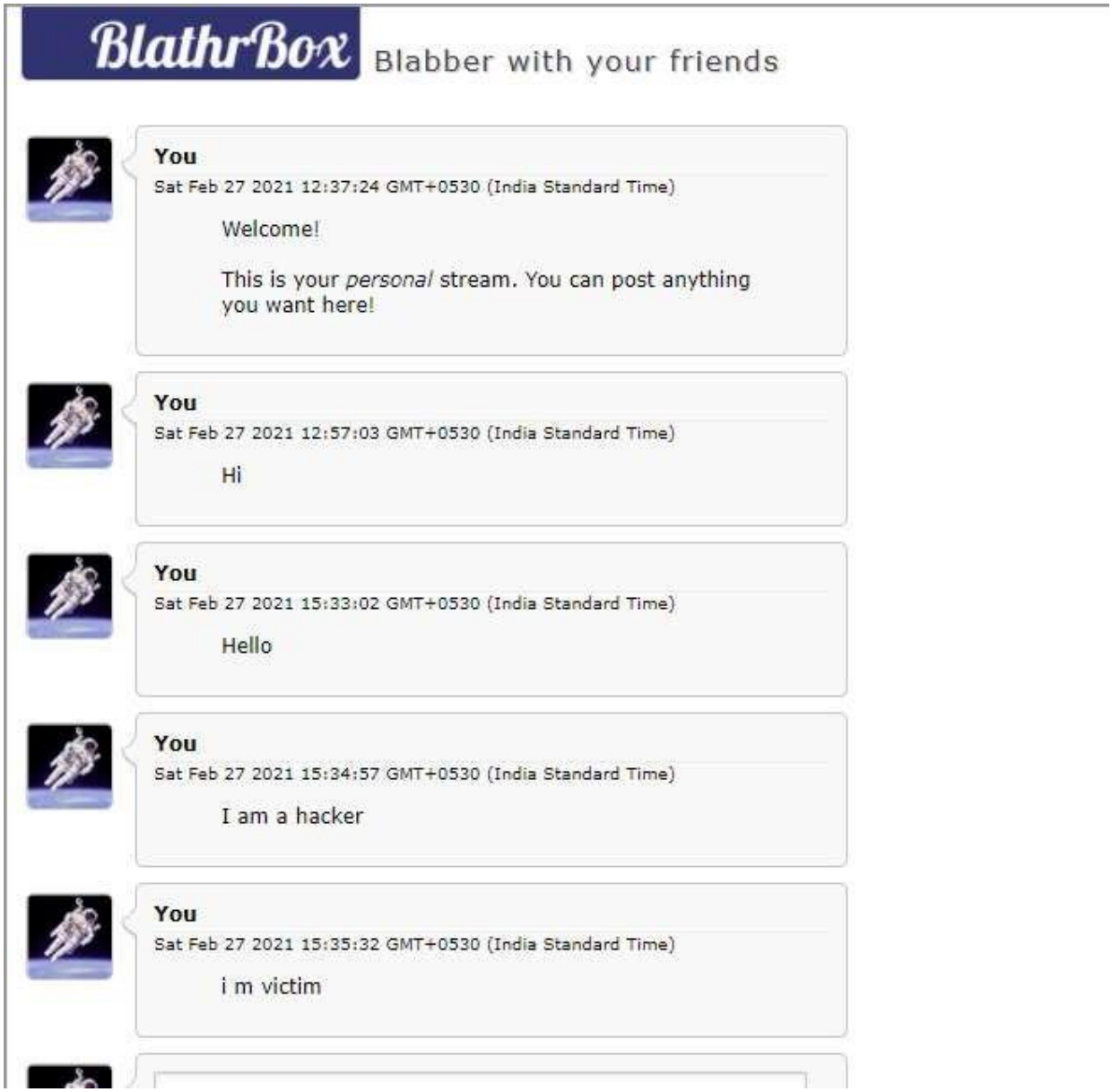


Q) Storedxss on demo website

Attacker console:

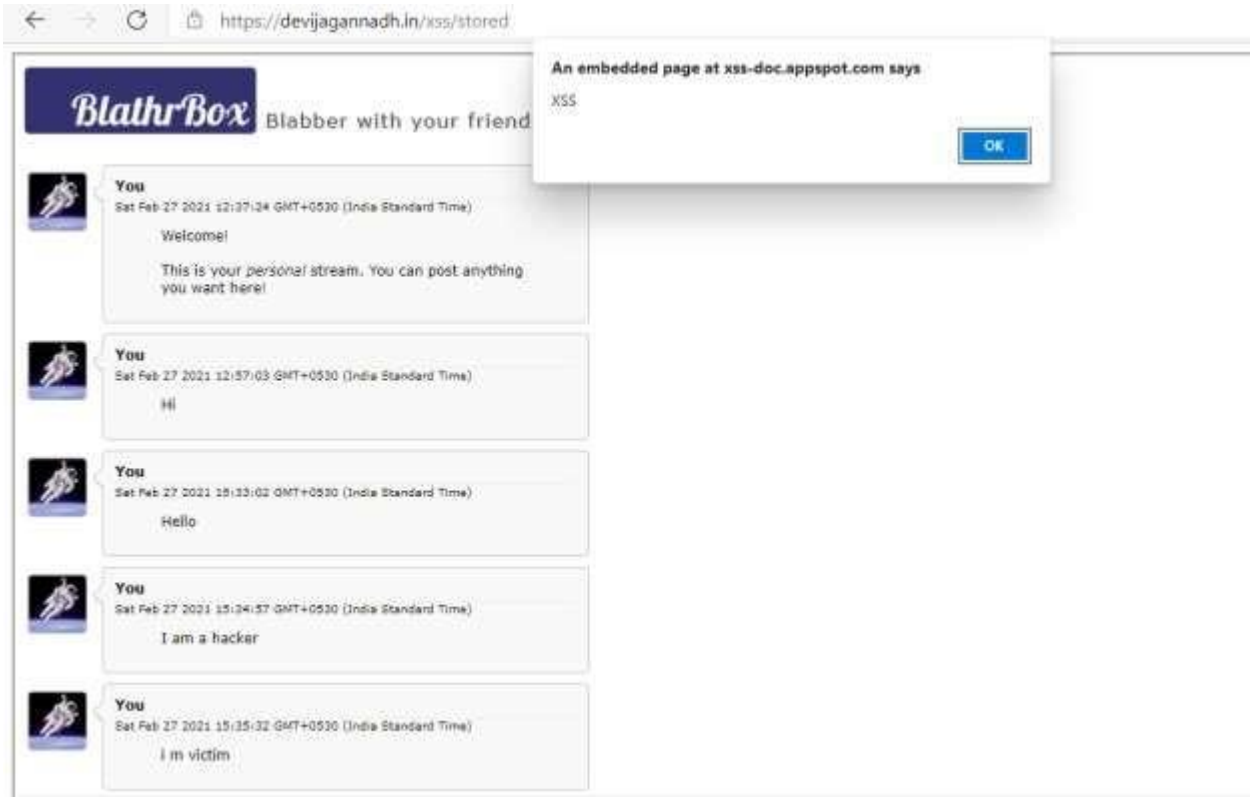


Victim console:



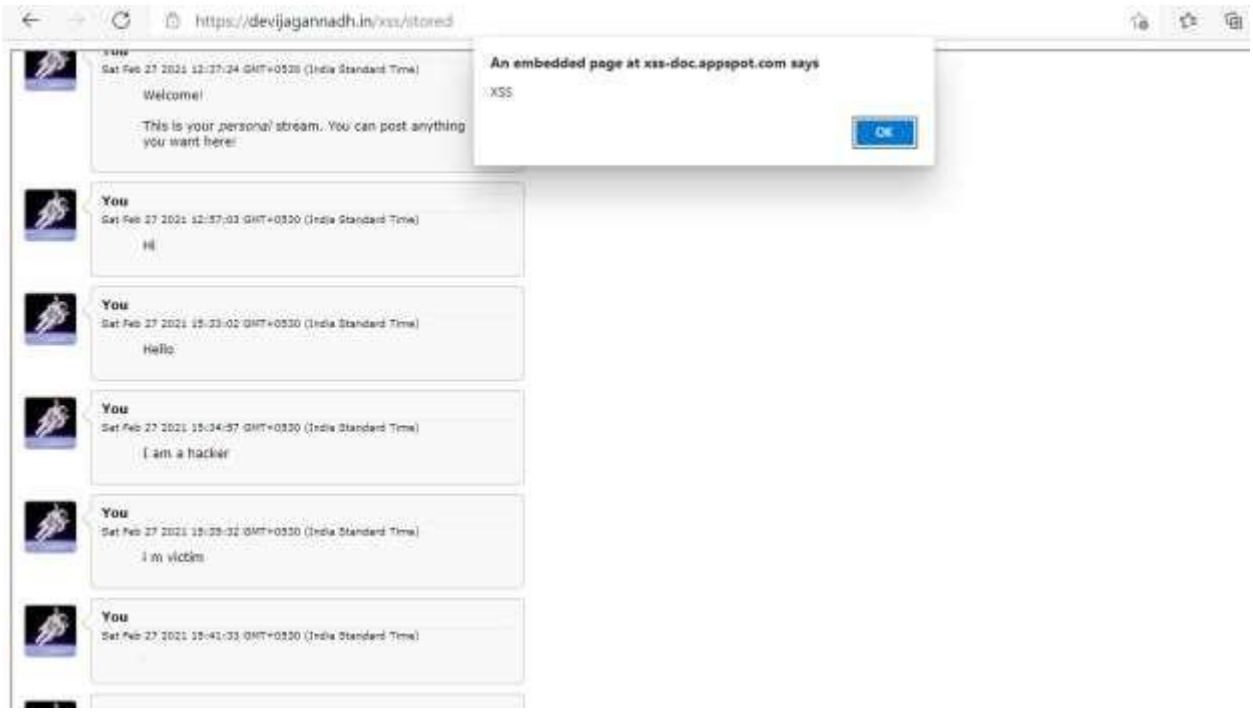
Injecting payload from attacker console:

Payload injected: `<IMG SRC=x`



`onerror="alert(String.fromCharCode(88,83,83))">`

Payload alert message reflected on victim’s window:



(Q) DOM xss on demo website

Checking ways to enter the website:

Page source:

```
<!DOCTYPE html>
<body>
<p id="p1">Hello, guest!</p>
<script>

    var currentSearch = document.location.search;
    var searchParams = new URLSearchParams(currentSearch);

    /*** Document Sink ***/

    var username = searchParams.get('name');

    if (username !== null) {
        document.getElementById('p1').innerHTML = 'Hello, ' + username + '!';
    }

    /*** Location Sink ***/

    var redir = searchParams.get('redir');

    if (redir !== null) {
        document.location = redir;
    }

    /*** Execution Sink ***/

    var nasdaq = 'AAAA';
    var dowjones = 'BBBB';
    var sp500 = 'CCCC';

    var market = [];
    var index = searchParams.get('index').toString();

    eval('market.index=' + index);

    document.getElementById('p1').innerHTML = 'Current market index is ' + market.index + '.';

</script>
</body>
</html>
```

From this we can alter the name and redir values

Previously it was hello guest!

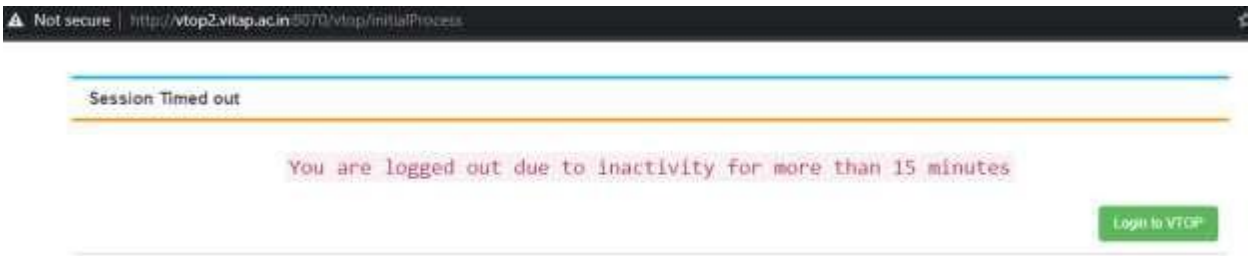
Let us add a payload into this and check what happens

Payload used: **<style><img src="</style><img src=x onerror=javascript:alert(1)//">**

Here redir in also a sink so let us redirect it by linking to some other website

Here I have given vtop link

Output:



(Q) Solution of alf.nu/alert1

3-Links :

devijagannadh.in/xss/reflected

devijagannadh.in/xss/stored

devijagannadh.in/xss/dom

Challenge : alf.nu/alert1