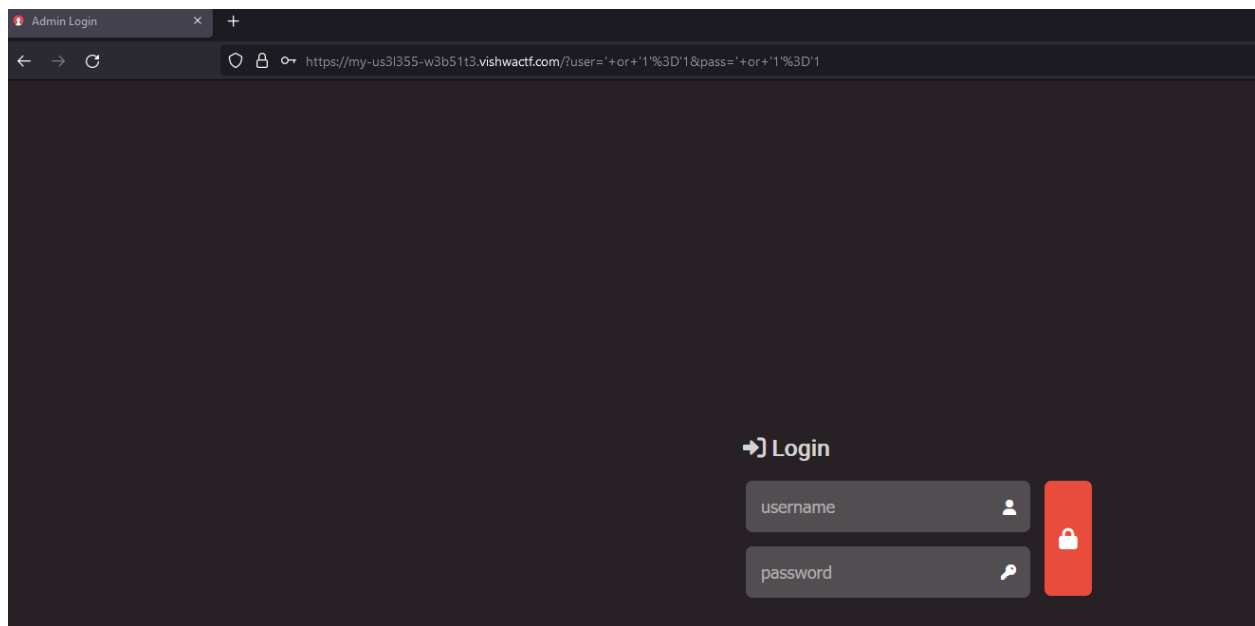


# Vishawa CTF Write Up

## Category: Web

### Challenge 1: “My Useless Webiste” For 250 Points

- Challenge gives a link to a simple login page that asks for a username and password. The page has javascript that prevents one from typing in spaces — presumably to prevent SQL injection attacks. This means that the attack is probably along those lines.
  - The javascript to prevent this is “*function AvoidSpace(event) { var k = event ? event.which : window.event.keyCode; if (k == 32) return false; }*”
  - Both username and password inputs call this function with onkeypress to send each keypress to the function. The function will prevent the ASCII character 32, which is a space, from being entered.
- **Solution: Two solutions...**
  - (1) Change return false to return true in the AvoidSpace function OR copy and paste SQL injection parameter into the input field: '**or '1'='1**'
  - (2) Enter the following URL get parameters for SQL injection:  
`https://my-us3l355-w3b51t3.vishwactf.com/?user=%27+or+%271%27%3D%271&pass=%27+or+%271%27%3D%271`



## Challenge 2: “Stock Bot” for 250

- **Challenge:**
- **Observations:** Looking at the source code, there is a script tag with the following code. It seems like “/Products/check.php?product=**argument**” is going to be very useful because the javascript checks don't apply here.

```
54 <script>
55 // Hint: Along with other products the Flag is also available in the Products directory
56 function sendMsg() {
57     var msg = document.querySelector('#input-msg').value;
58     document.querySelector('#input-msg').value = "";
59     div = document.querySelector('.chat-body');
60     div.innerHTML += "<div id='user-chat' class='user-div'><p class='user-msg msg'>" + msg + "</p></div>";
61     div.scrollTop = div.scrollHeight;
62     if(!msg.includes('Flag')){
63         async function fetchDataAsync(url) {
64             try {
65                 const response = await fetch(url);
66                 obj = (await response.json());
67                 div.innerHTML += "<div class='bot-div'><img src='bot.png' class='bot-avatar' /><p class='bot-msg msg'>"+obj['Quantity']+ "</p></div>"
68             } catch (error) {
69                 div.innerHTML += "<div class='bot-div'><img src='bot.png' class='bot-avatar' /><p class='bot-msg msg'>No such product</p></div>"
70             }
71             div.scrollTop = div.scrollHeight;
72         }
73         fetchDataAsync('/Products/check.php?product='+msg);
74     }
75     else{
76         div.innerHTML += "<div class='bot-div'><img src='bot.png' class='bot-avatar' /><p class='bot-msg msg'>No such product</p></div>"
77         div.scrollTop = div.scrollHeight;
78     }
79 }
80 </script>
```

- **Solution:** Going to the URL  
“<https://stock-bot.vishwactf.com/Products/check.php?product=Flag>” provides the JSON output of "VishwaCTF{b0T\_kn0w5\_7h3\_s3cr3t}"

