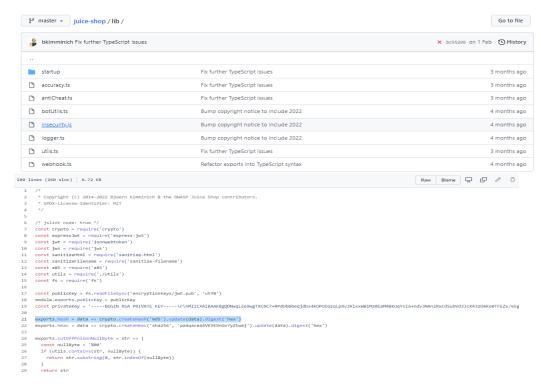
# Assignment 5

Made By: Karim Salem 1001619

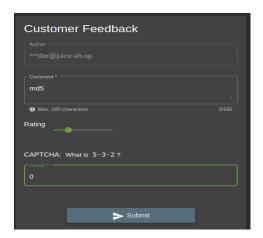
# 1st Attack:

Checked through source code till I reached the path below:

#### Juice-shop/lib/insecurity.js



#### Trying commenting md5



#### Attack succeeded

You successfully solved a challenge: Weird Crypto (Inform the shop about an algorithm or library it should definitely not use the way it does.)

# 2<sup>nd</sup> Attack:

Searching till I found file package.json.bak



```
OWASP Juice Shop (Express ^4.17.1)

403 Error: Only .md and .pdf files are allowed!

at verity //home/kail/Downloads/juice-shop/build/routes/fileServer.js:15:13

at Layer.handle [as handle_request] //home/kail/Downloads/juice-shop/hode_modules/express/lib/router/layer.js:95:5)

at trim_prefx //home/kail/Downloads/juice-shop/hode_modules/express/lib/router/layer.js:95:5)

at trim_prefx //home/kail/Downloads/juice-shop/hode_modules/express/lib/router/index_js:328:13)

at param (home/kail/Downloads/juice-shop/hode_modules/express/lib/router/index_js:38:14)

at param (home/kail/Downloads/juice-shop/hode_modules/express/lib/router/index_js:38:14)

at param (home/kail/Downloads/juice-shop/hode_modules/express/lib/router/index_js:38:14)

at Function process_params //home/kail/Downloads/juice-shop/hode_modules/express/lib/router/index_js:328:10)

at next (home/kail/Downloads/juice-shop/hode modules/express/lib/router/index_js:328:10)

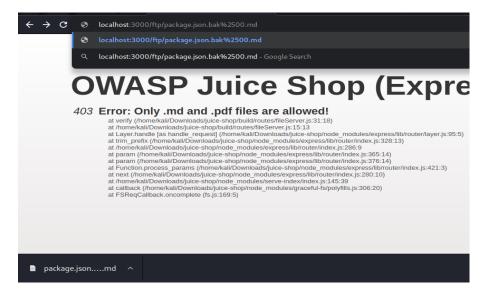
at callback //home/kail/Downloads/juice-shop/hode modules/express/lib/router/index_js:328:10

at callback //home/kail/Downloads/juice-shop/hode modules/express/lib/router/index_js:328:10

at callback //home/kail/Downloads/juice-shop/hode modules/graceful-fs/polyfilis_js:306:20)

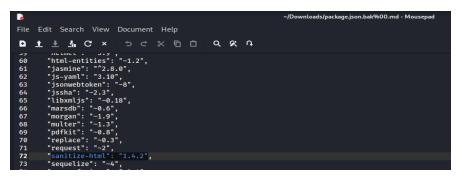
at FSReqCallback.oncomplete (fs.js:169:5)
```

Accessed the file by downloading .md version.

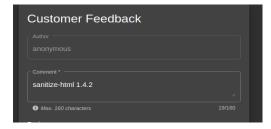


#### The file contents:

#### Found librariy's version



# Tried adding library with its version



Attack succeed.

You successfully solved a challenge: Vulnerable Library (Inform the shop about a vulnerable library it is using. (Mention the exact library name and version in your comment))

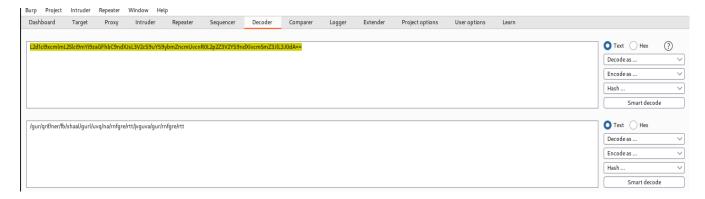
# 3<sup>rd</sup> Attack:

You can use easter egg which I got in assignment 4 or you can download as md.

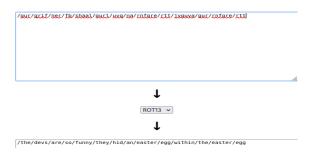


then decoded line 12 as base-64.

```
1 | "Congratulations, you found the easter egg!"
2 - The incredibly funny developers
3
4 ...
5
6 ...
7
8 ...
9
10 Oh' wait, this isn't an easter egg at all! It's just a boring text file! The real easter egg can be found here:
11
12 L2d1ci9xcmlmL25lci9mYi9zaGFhbC9ndXJsL3V2cS9uYS9ybmZncmUvcnR0L2p2Z3V2YS9ndXIvcm5mZ3JlL3J0dA=
13
14 Good luck, egg hunter!
```



then decode as rot-13.



copy the url after juice-shop url.



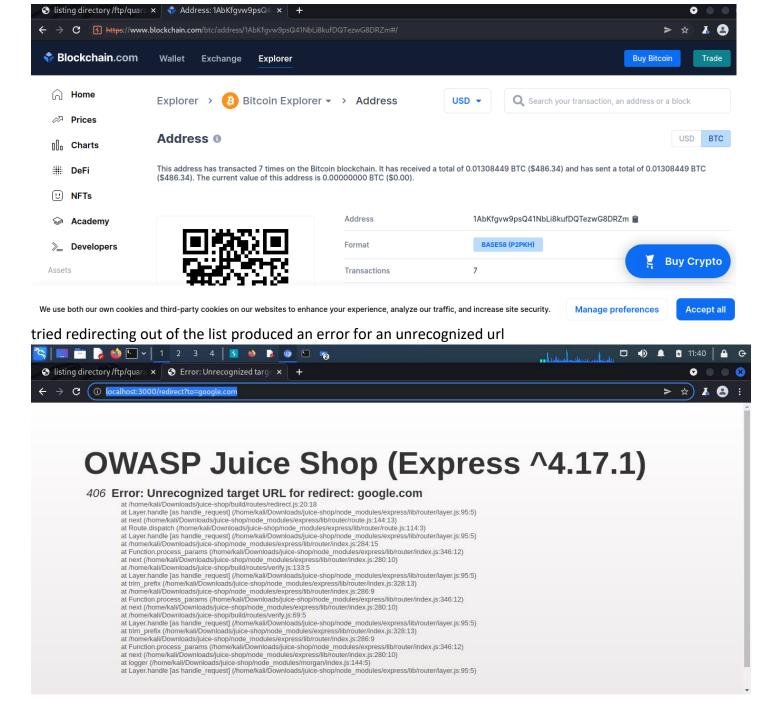
# 4<sup>th</sup> Attack:

Getting the allowed redirect list from source code.

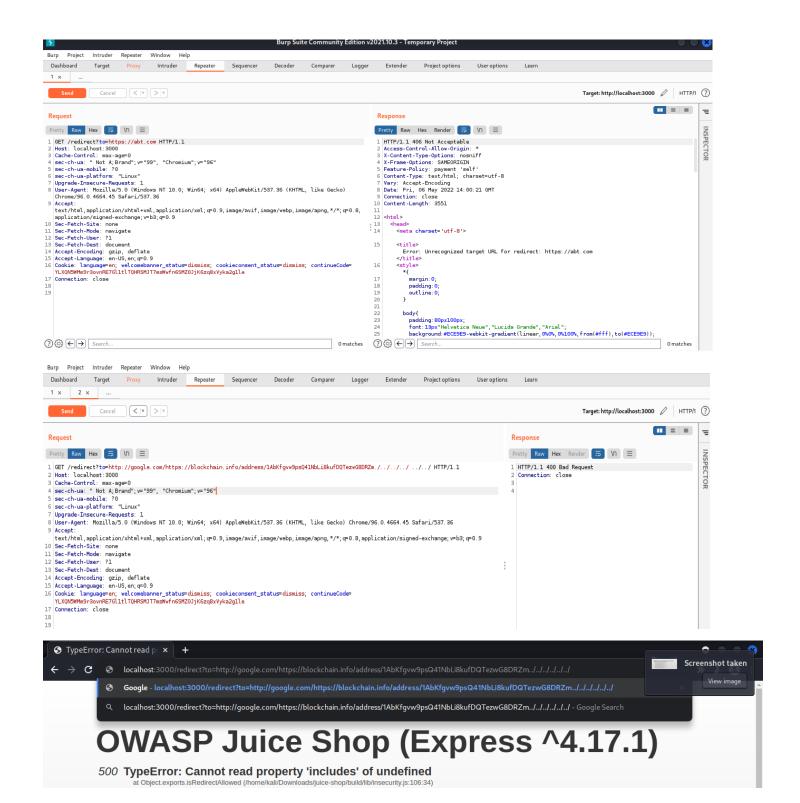
```
feature duber and
feature coupon.match(/(JAN|FEB|MAR|APR|MAY|JUN|JUL|AUS|SEP|OCT|MOV|DEC)[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}-[0-9]{2}
```

ightarrow C (  $\odot$  localhost:3000/redirectto? https://blockchain.info/address/1AbKfgvw9psQ41NbLi8kufDQTezwG8DRZm#

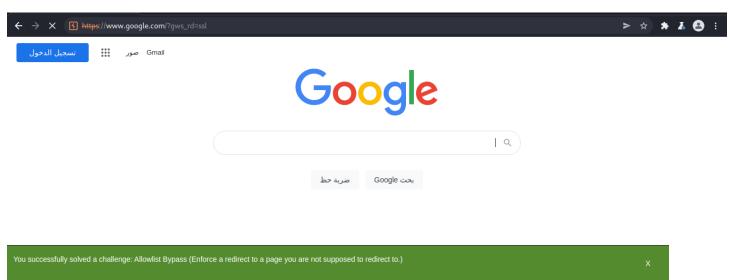
#### trying redirecting.



tried to redirect to several urls to do the attack.



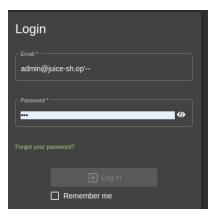
Attack succeeded as it's redirected me to google page



#### 5<sup>th</sup> Attack:

Checked github repo.

logged in as admin by sql injection.





To perform the attack add this code by sql injection.

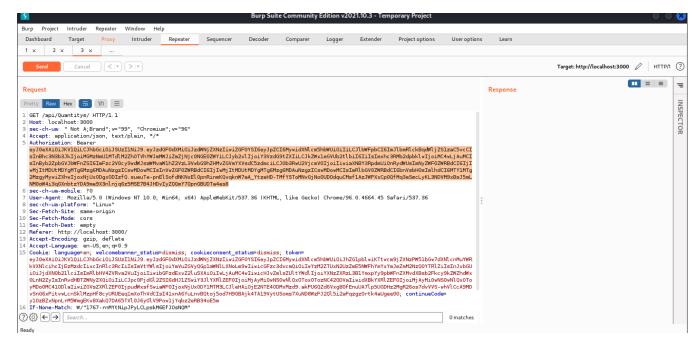


Attack succeeded.

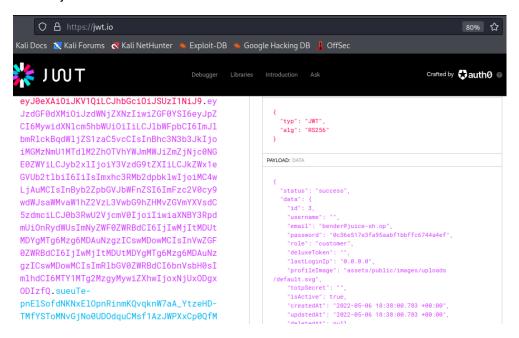


# 7<sup>th</sup> Attack:

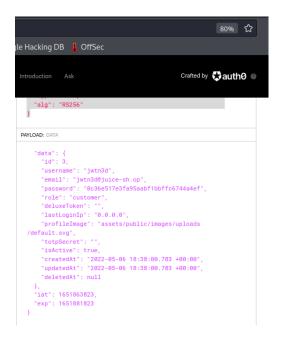
Get request of juice-shop home in burp by a logged in user to get his bearer.



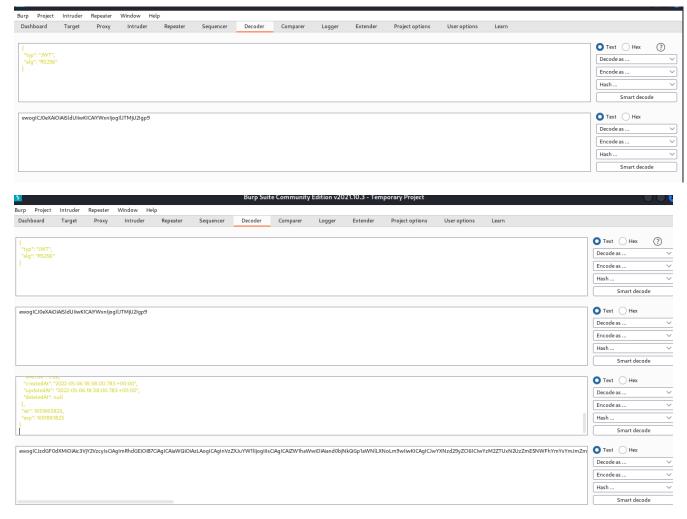
send to jwt decoder.



change the user name and email with jwtn3d.



start encoding the new code to base-64 to get the new bearer.



copy new bearer and replace the old in the request.

#### Attack succeeded

