Ethical Hacking and Penetration Testing

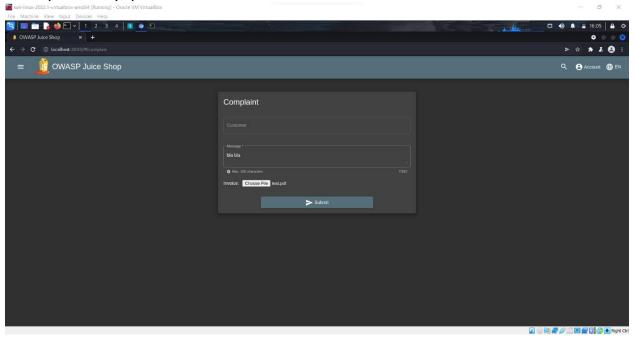
Assignment 4

Web Exploitation (Juice-Shop)

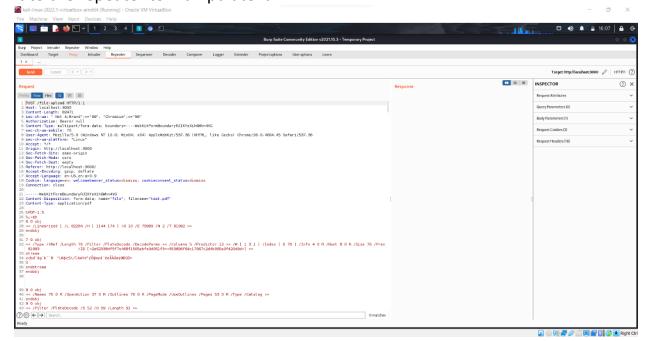
Name: John Ehab

ID: 100-2096

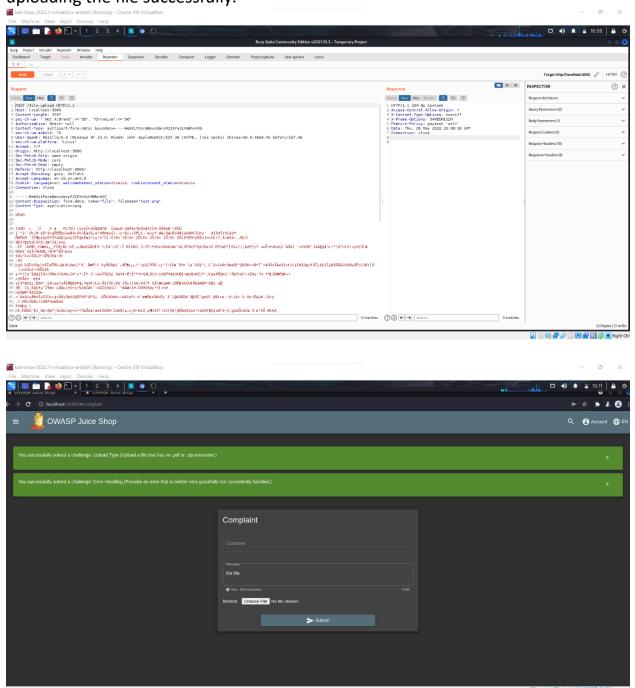
1- I'll open juiceshop and go to the complaint webpage, write any message and upload any .pdf file.



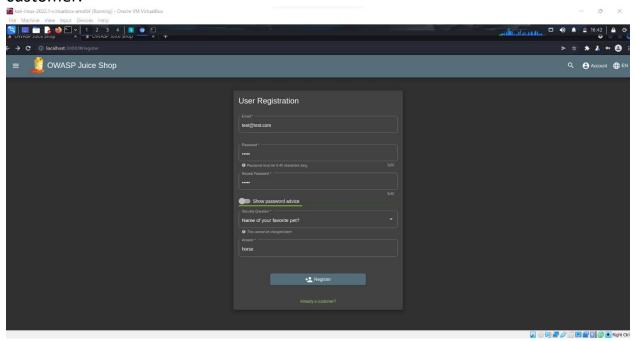
2- Then press submit and intercept the post request using burpsuite and send it to the repeater to manipulate it.



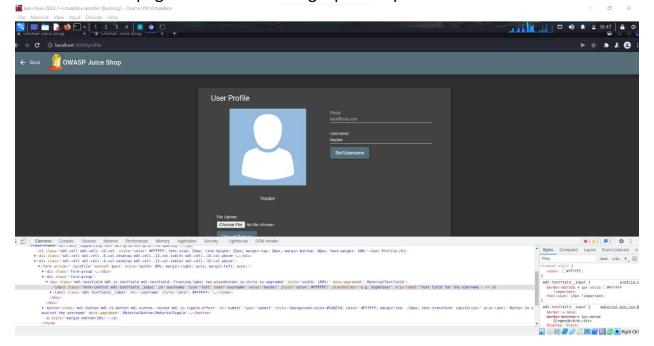
3- Then I opened the file I want to upload instead, in this case it's a photo with .png extension, with notepad. Then copy paste it to the data section in the post req instead of the data of the.pdf file. And changed the filename to test.png instead of test.pdf. And changed the content-type to application/png instead of application/pdf. Then I sent the request uploading the file successfully.



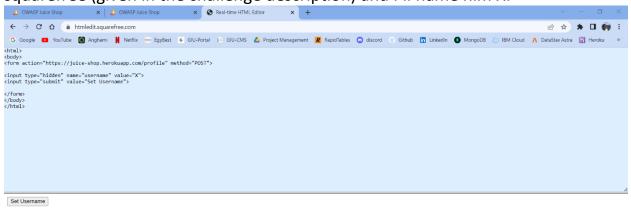
1- I'll go to the accounts login webpage in juiceshop, then I'll register as a new customer.

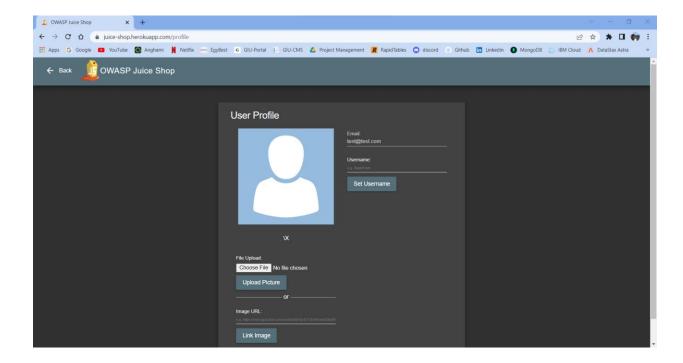


2- Then I'll login with this account to juiceshop, and I'll go to the user profile webpage. Then I'll write any value inside the username input box and I'll inspect the element to notice that the value of the input is changed in the html of the webpage and not sent using a post request.

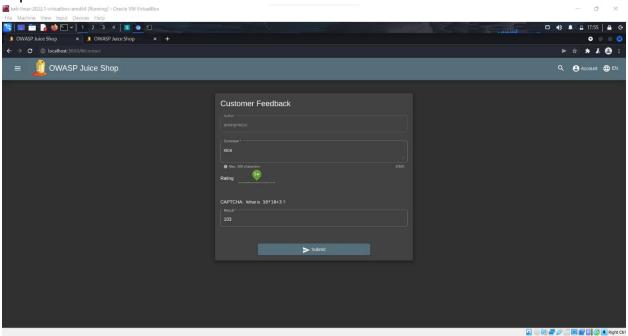


3- So I'll go to any online html editor (another origin) to perform my attack from there and change the username to any value, in my case I'll use squarefree (given in the challenge description) and I'll name him X.

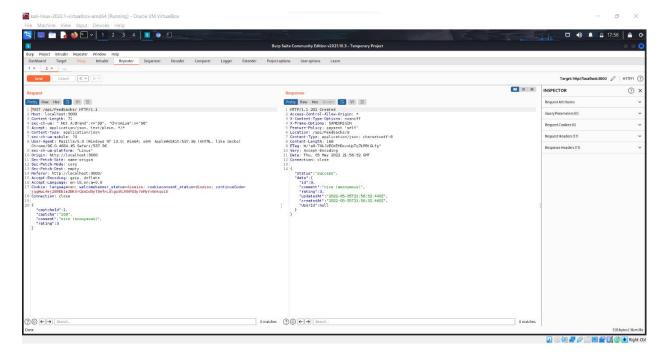


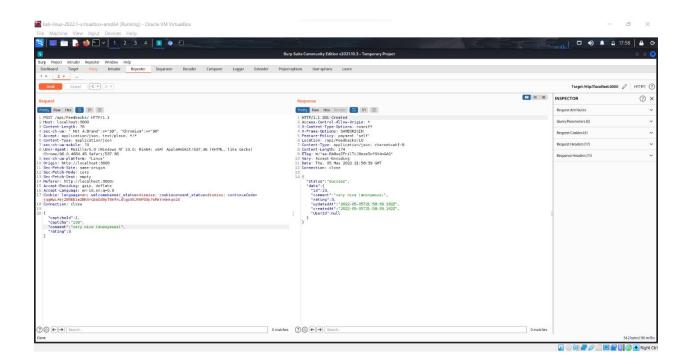


1- First I'll go to the customer feedback webpage in juiceshop and fill the comment section and the rating with any value I want and solve the given captcha.

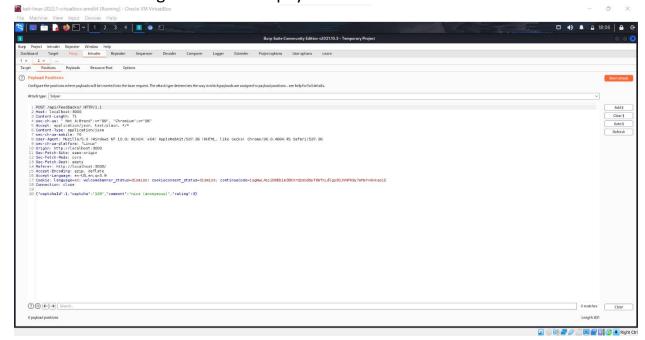


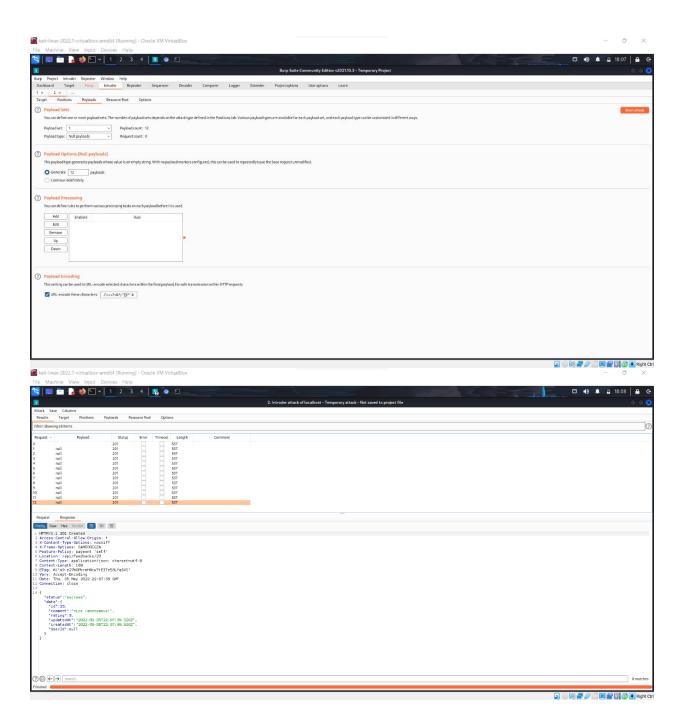
2- I'll intercept this post req and send it to the repeater and try to resend it many times with different comment values discovering that each time the response is still success, so the captchald doesn't have to be unique for each comment, the req just needs to match the captchald with the correct corresponding captcha value.

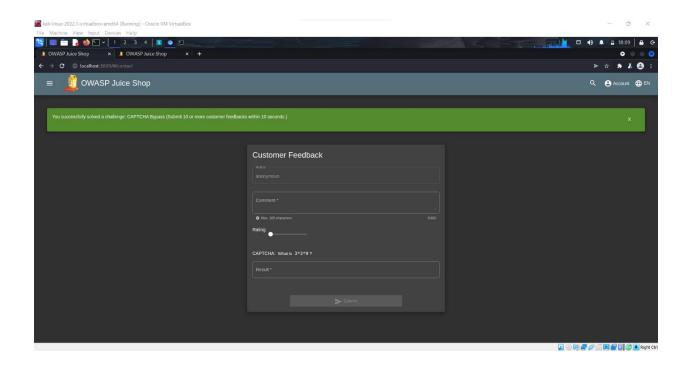




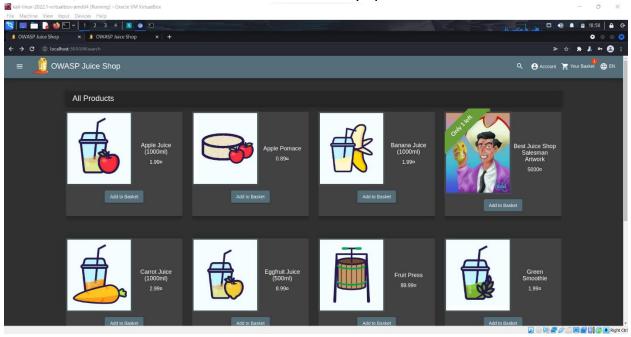
3- Then I'll send the req for the intruder to perform my attack using the sniper attack and choosing more than 10 payloads.

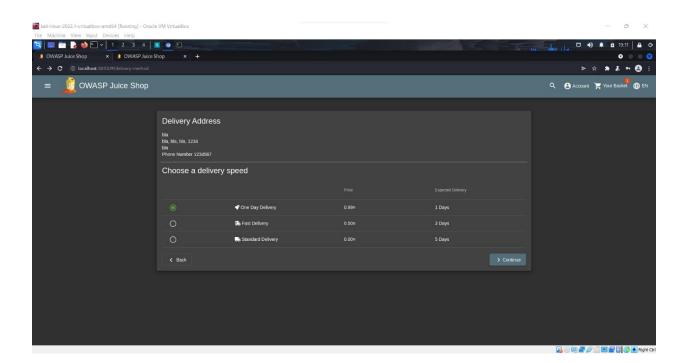




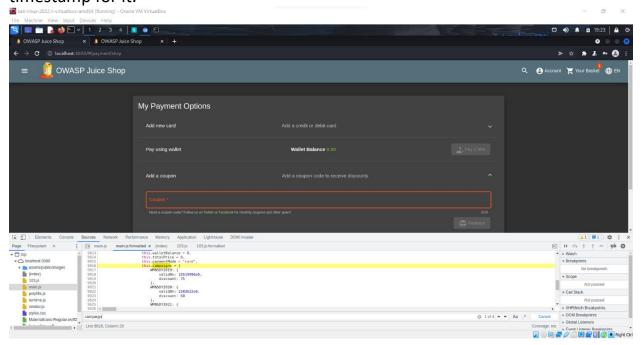


1- I'll use the account I registered in attack number 2 to log in, I'll choose any product and add it to the basket, then view my basket, then proceed to checkout, then select an address and a delivery speed.

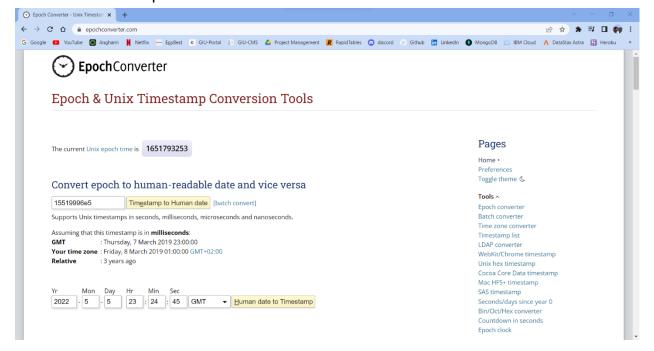




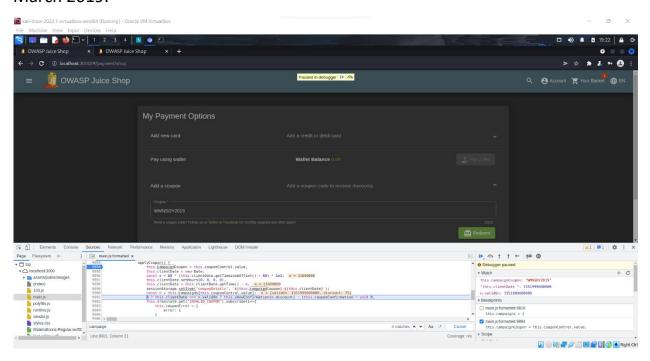
2- In the payment options I'll press on add a coupon, then to know the expired campaign coupon codes I'll open developer tools, then go to the sources tab, and open the "main.js" file, and press on the pretty print button, then search for the word campaign. I'll find each code with the corresponding timestamp for it.

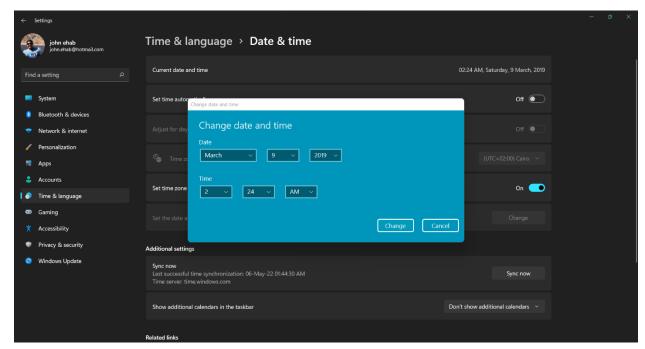


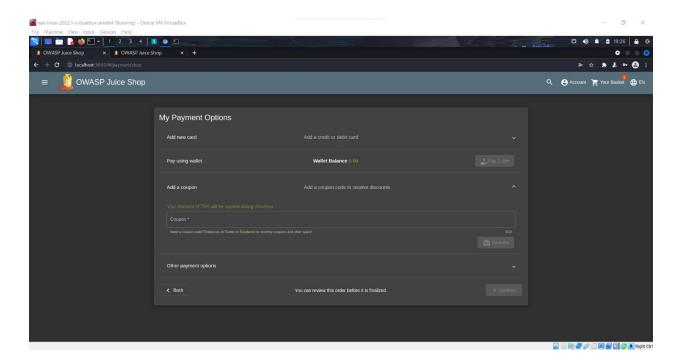
3- I'll select one coupon to work on, let's say the first one, its coupon code is "WMNSDY2019" and its validOn timestamp is "15519996e5". I'll use any online timestamp converter to see what date is it valid on.



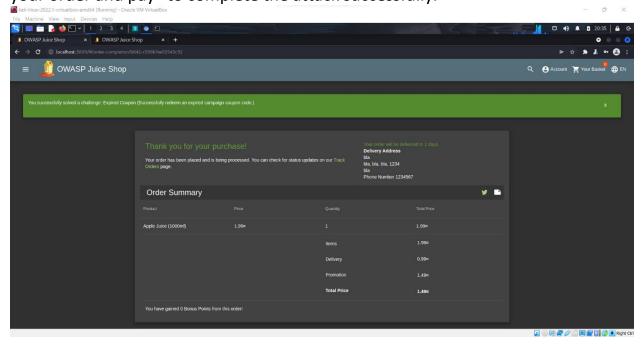
4- Then I'll write the coupon code on the payment options webpage, and I'll change my local machine date and time manually to different dates around 8/3/2019 or 7/3/2019 to see if any date matches with my time zone and then press redeem. The date that was successful with our time zone was 9 March 2019.





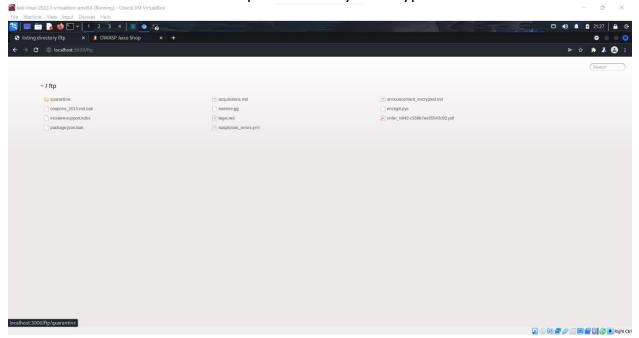


5- Then I'll add any values for a credit card and select it, then press on "place your order and pay" to complete the attack successfully.

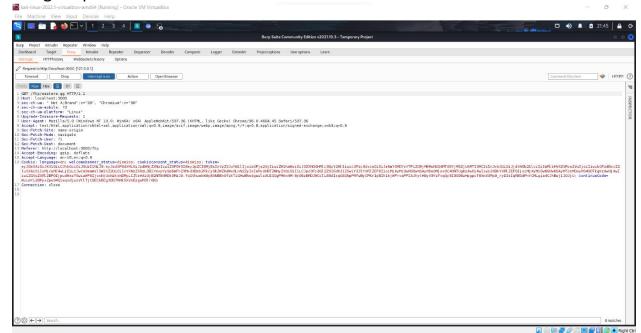


Attack number 5 & 6

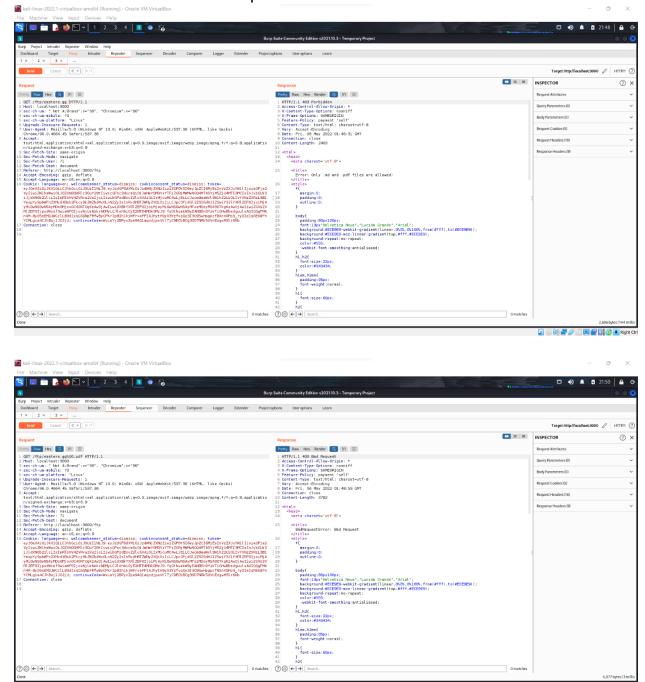
1- Firstly, open localhost:3000/ftp to show the files on the server, I want to transfer the eastere.gg file but the website doesn't allow the transfer of files of this extension so I'll use poison null byte to bypass it.



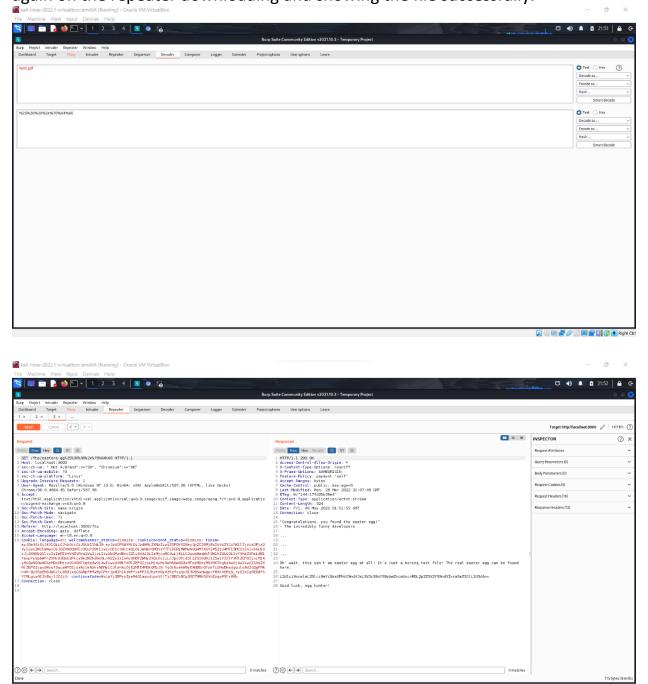
2- I'll press on eastere.gg to try to download it and intercept this get request using burpsuite.



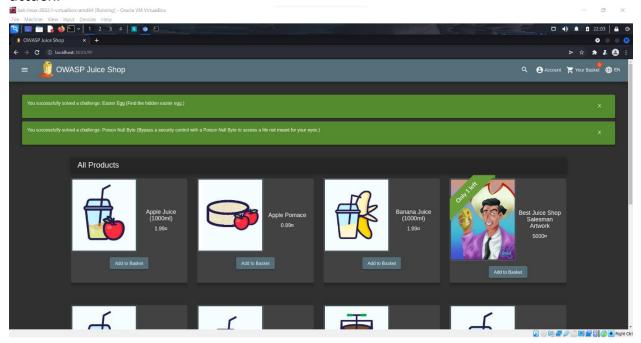
3- I'll send it without changing anything and will get an error 403 cause it's forbidden because of its extension, then I'll inject the null byte "%00" followed by an extension accepted by the server ".pdf" but also I'll get an error 400 because it's a bad req.



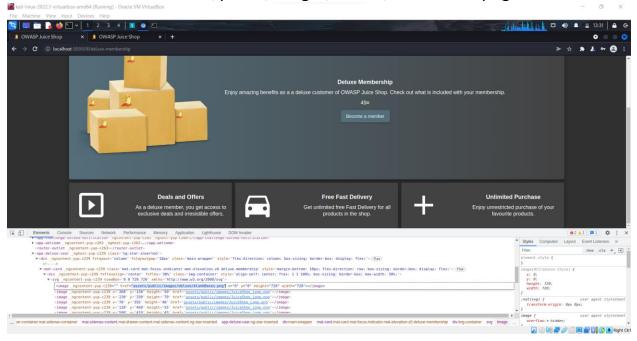
4- To inject it in a form of a request I'll use burpsuite decoder to encode %00.pdf as URL, then I'll concatenate the encoded text instead and send it again on the repeater downloading and showing the file successfully.



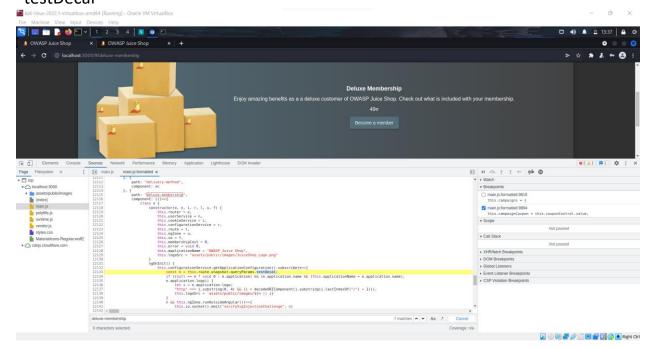
5- Then copy paste it back to the proxy and forward the req to complete the attack.



1- First I'll go to the deluxe-membership webpage to find an img for the delivery boxes on the website, then will inspect and search for the image till I find that its href is "assets/public/images/deluxe/blankBoxes.png"



2- Then I'll open the sources tab then the main.js formatted file then I'll search for "deluxe-membership" till I find the parameter's name which is "testDecal"



3- I'll get the url of the kittens that need to be placed from the challenge description. http://placekitten.com/g/200/300



4- Then I'll start trying to change the value of the testDecal parameter to try to embed or redirect to the placekitten url. I'll then notice the behaviours of the different parameter values and do my analysis till the challenge is successfully completed using the url:

http://localhost:3000/#/deluxe-membership?testDecal=../../../redirect?to=http://placekitten.com/g/400/500?x=

http://github.com/juice-shop/juice-shop/
ivide-a-2023 virtualizes and if Wirmsite

| Value |