

# PSP0201

## Week 3

## Writeup

Group Name: Undecided

Members

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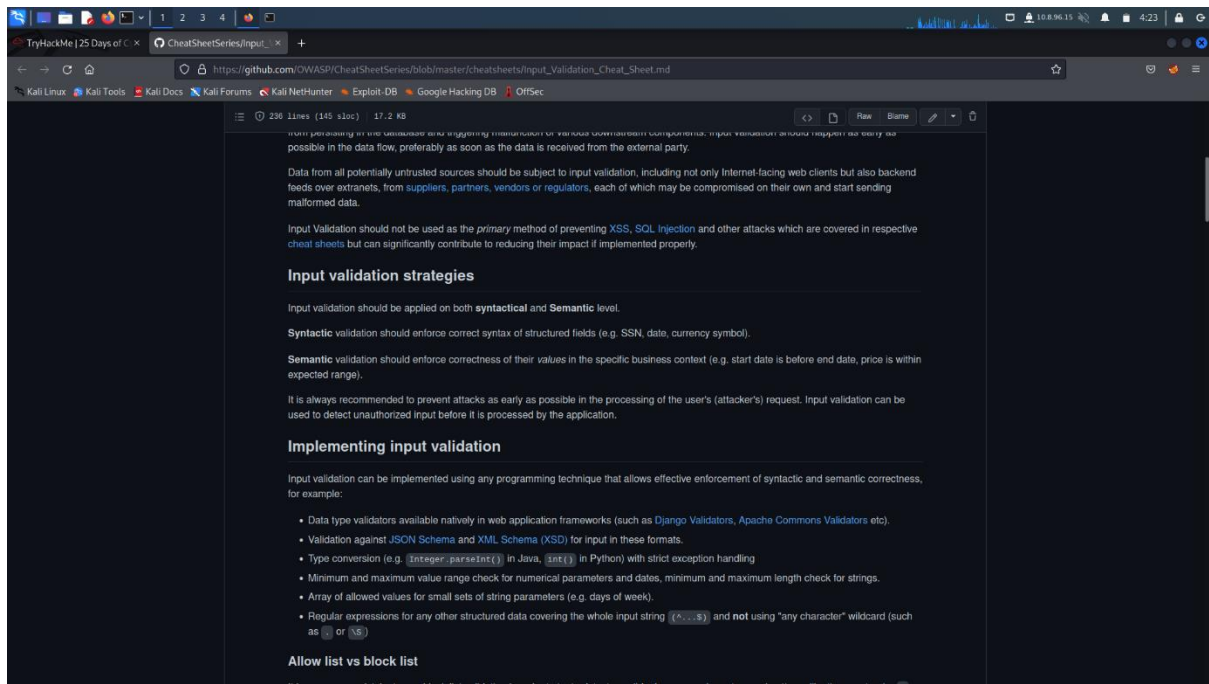
## Day 6: Web Exploitation – Be careful with what you wish on a Christmas night

**Tools used:** Kali Linux, Firefox, OWASP ZAP

**Solution/walkthrough:**

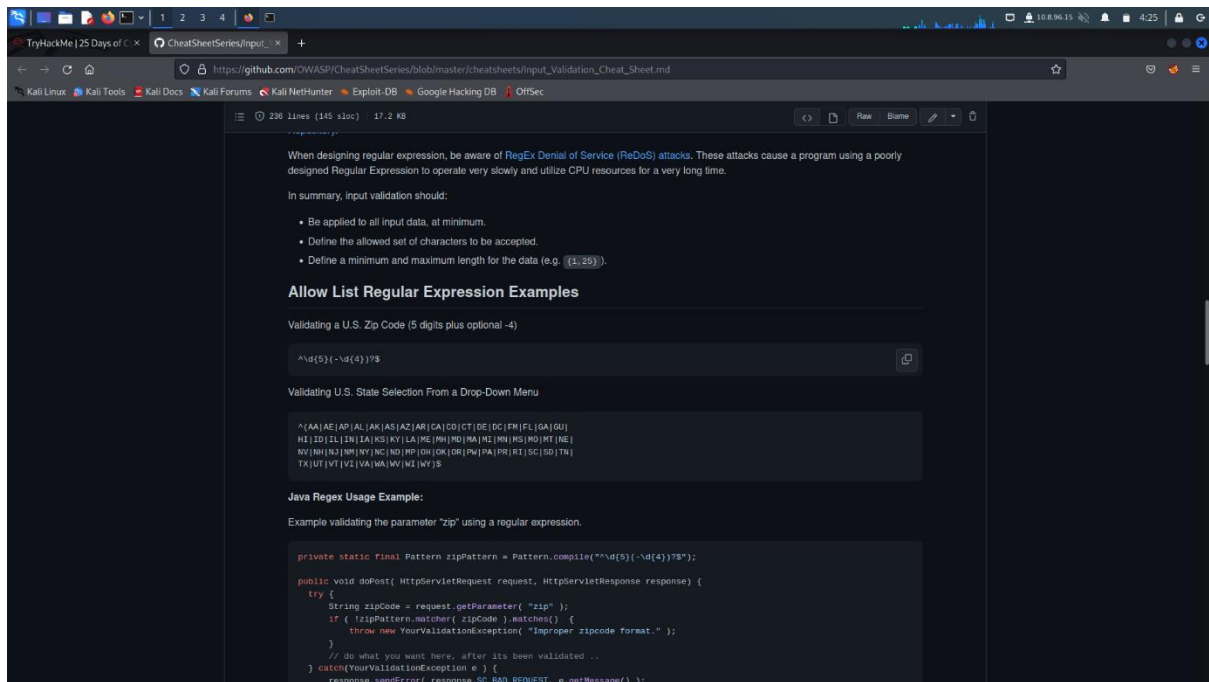
### Question 1

Open the link provided in the room that leads to the OWASP cheat sheet. Examine the content.



### Question 2

Open the link provided in the room that leads to the OWASP cheat sheet. Examine the content.

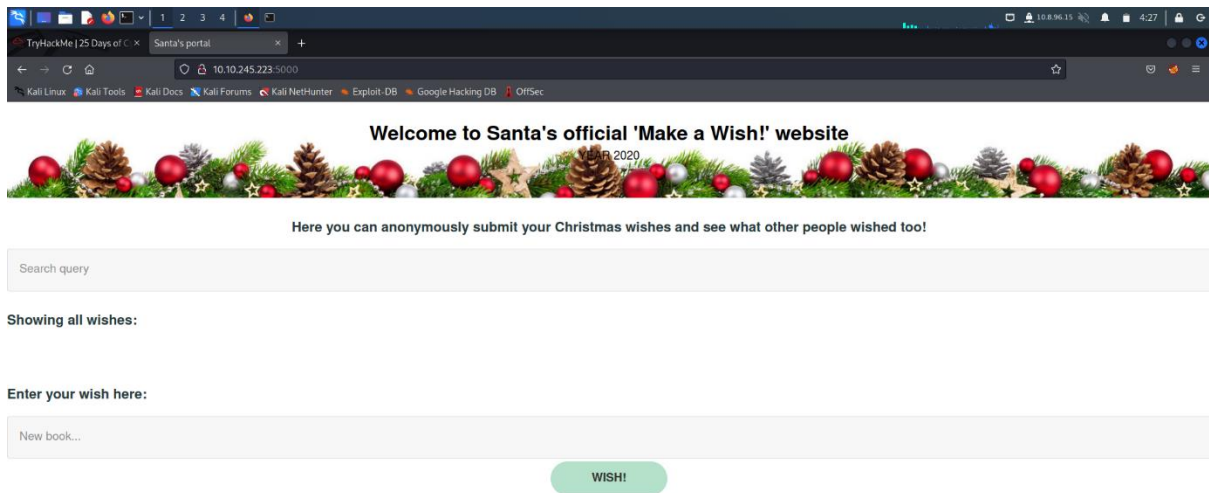


### Question 3

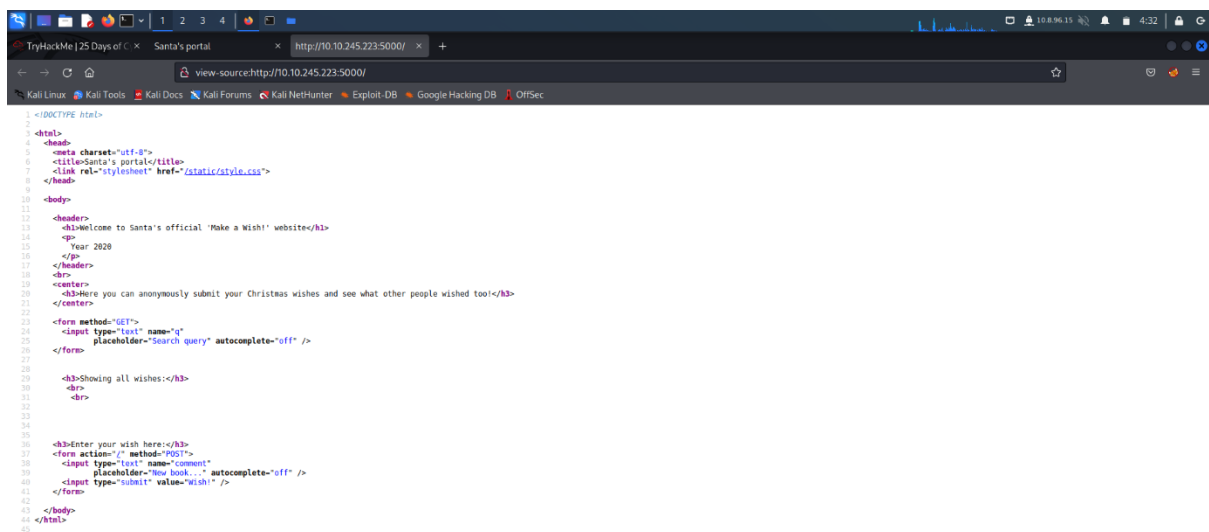
Stored XSS was used to exploit the application since it works when a certain malicious Javascript is submitted and stored directly on the website. In this case, we submitted the malicious Javascript in the wish text box.

### Question 4 (What query string can be abused to craft a reflected XSS?)

Enter the IP address provided by the machine in tryhackme.com into a browser with the port 8000. The URL will lead to a 'Make a Wish' website.

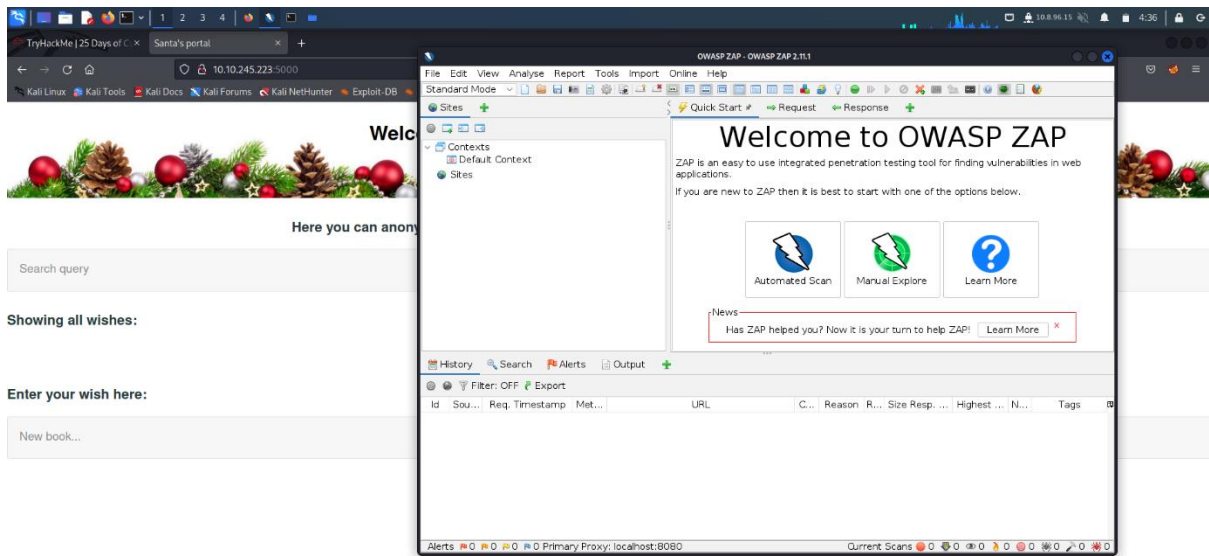


Right click on the mouse and click 'View Page Source'. This option directs us to the page source where it display the query string that can be abused which is 'q'.

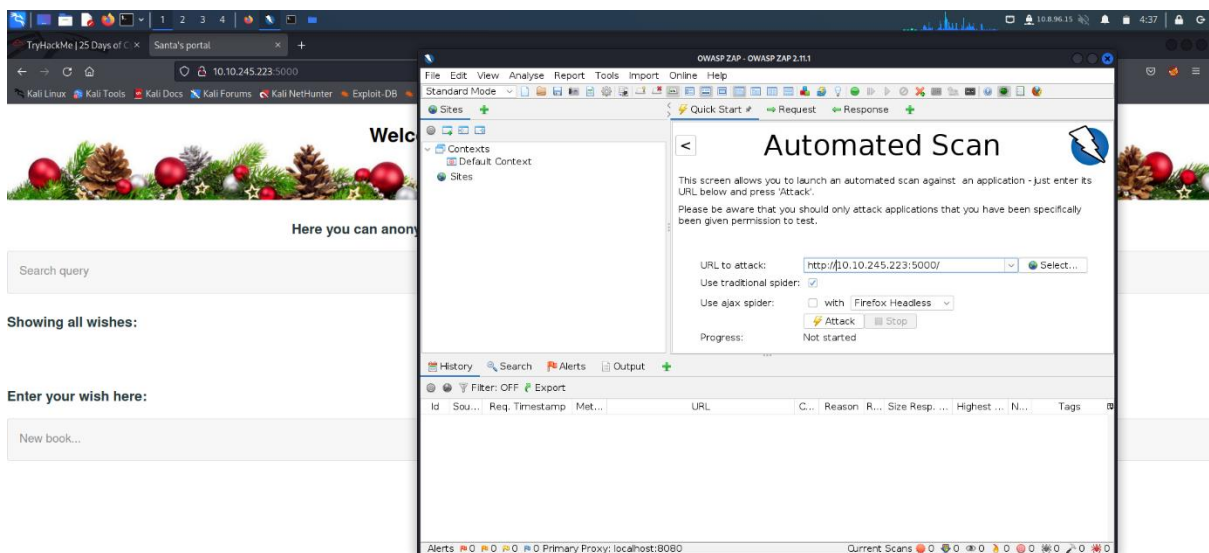


## Question 5

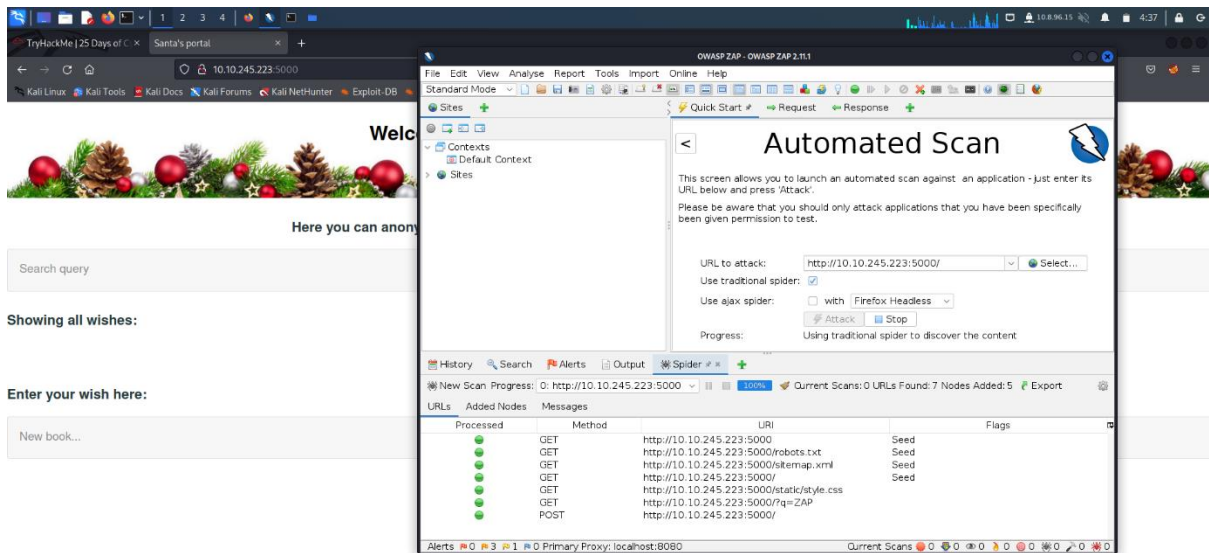
Open application and run the OWASP ZAP. If it is not available in your machine (which happen in my case), download the application by simply searching it in the browser. Once the application is available, click 'Automated Scan' to detect any XSS vulnerabilities.



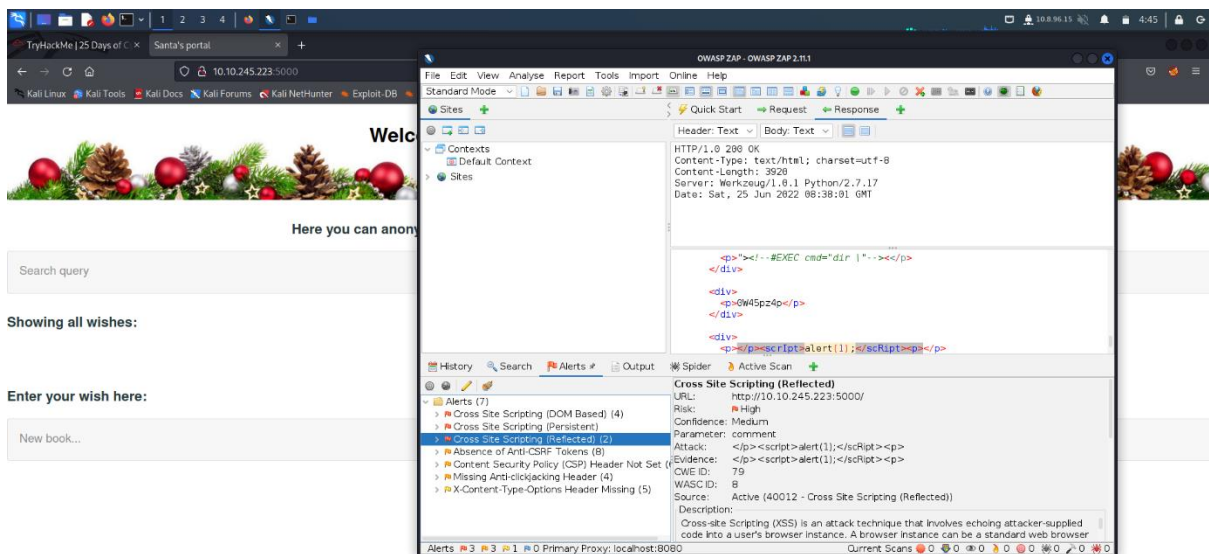
Make sure to enter the URL of the website that we want to exploit and click 'Attack'.

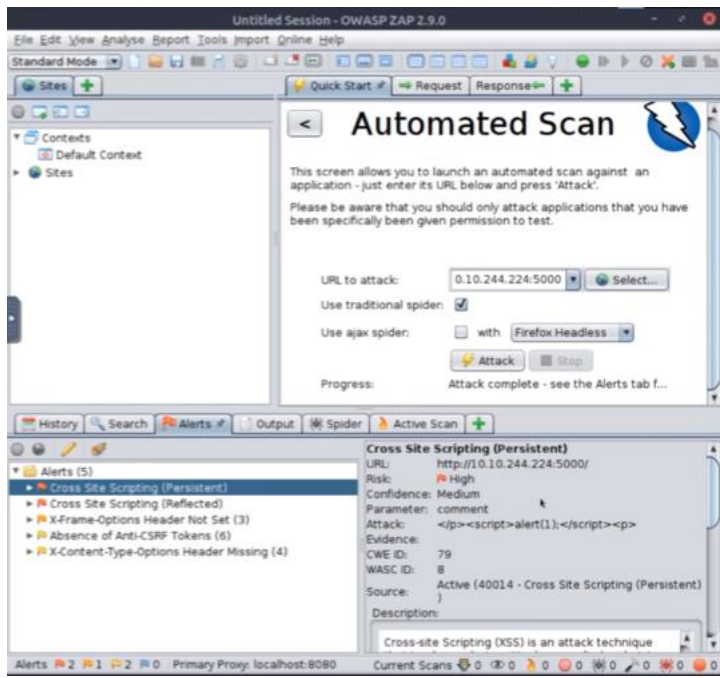


It will take some time for the application to completely scan the website for vulnerabilities.



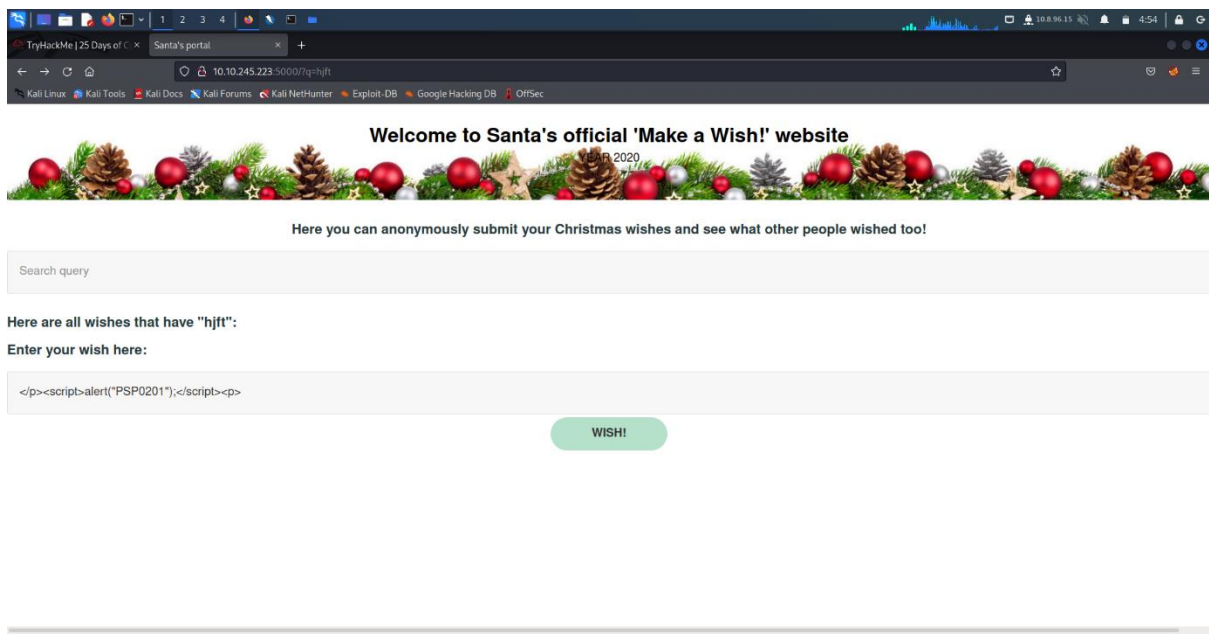
Once the scan is complete, the application showed us the vulnerabilities that the website has but due to our Kali's different version, our answer is different than the actual answer. Hence why we included another photo with what AttackBox's Zap 2.0.0 or Kali's 2.11.1 version answer would be.





## Question 6

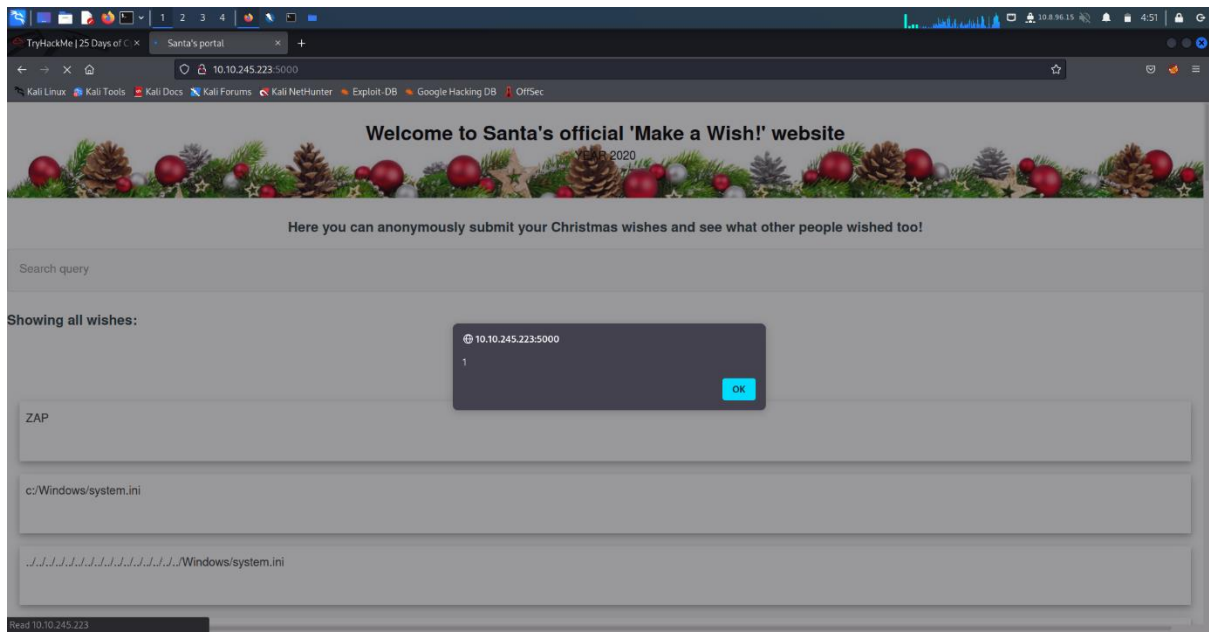
Using the vulnerabilities that we have found using OWASP Zap, we can now exploit the XSS vulnerabilities. Under the '<p></p>' tags, we enter a '<script></script>' tags to execute the 'alert('PSP0201')'. This created an alert when the website is accessed.











### Thought Process/Methodology:

We open the link provided in the room that led us to the OWASP cheat sheet where there are many details explaining how OWASP works. We examine the content and find the input validation strategies. We continued examining the content and came across the regular expression of validating a U.S Zip Code. After reading and understanding the content explaining XSS exploit in tryhackme.com, we realized that the vulnerabilities that we will exploit is stored XSS. We enter the IP address provided by the machine with the port 8000. The URL then led us to a 'Make a Wish' website. To find the query string that we can abuse, we find the page source and discover the query string which is 'q'. After downloading the OWASP Zap application, we run it and click 'Automated Scan' to detect any XSS vulnerabilities. We enter the URL of the website that we want to exploit and click 'Attack'. Once it finished scanning for vulnerabilities, we discover the website XSS vulnerabilities. With that knowledge, we enter a '<script></script>' tags under the '<p></p>' tags and execute the 'alert('PSP0201')'. This created an alert when the website is accessed. Lastly, we tried closing the browser and re-enter the URL. Upon accessing the web page, we found that the XSS attack persisted.