

SCOPE

http://

DATE

start: 25/3/23 end: 28/3/23

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Security Assessment-

1. Business logic error

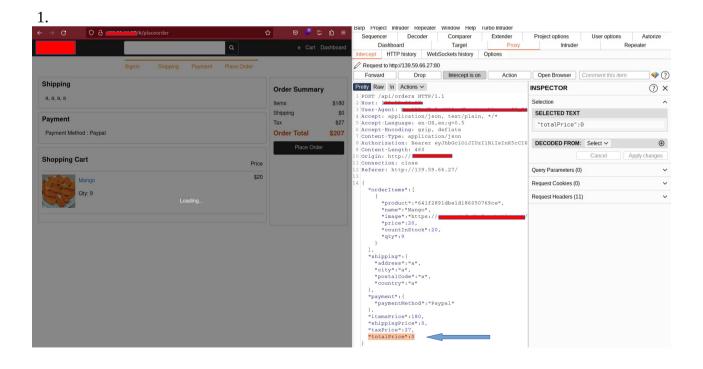
#Summary

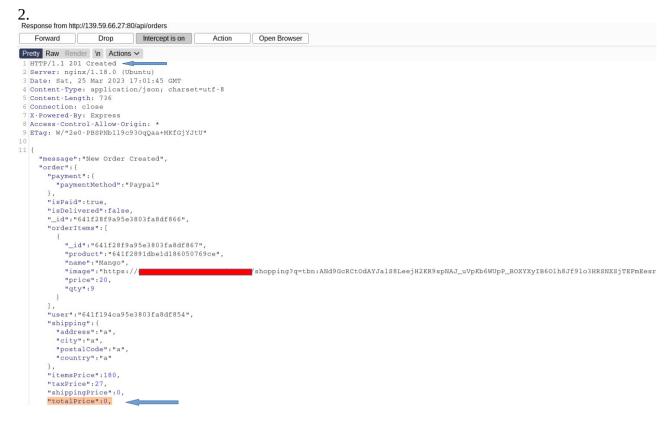
I found a business logic error where attacker can temper the price of the product which is also known as price temparing or parameter temparing attack where attacker can manipulate the price of the product

Steps to reproduce

- 1. go to cart and select the producet to buy
- 2. give quantity of the product as example 10 or as much you want
- 3. capture the place order request in burp suite
- 4. total price is "totalPrice":230
- 5. make it zero "totalPrice":0
- 6 successfully tempared the price

#POC ss





3.



#Impact

Attacker can reduce the price of the Product to zero or negative as well

2. Unencrypted communication

#Issue description

The application allows users to connect to it over unencrypted connections. An attacker suitably positioned to view a legitimate user's network traffic could record and monitor their interactions with the application and obtain any information the user supplies. Furthermore, an attacker able to modify traffic could use the application as a platform for attacks against its users and third-party websites. Unencrypted connections have been exploited by ISPs and governments to track users, and to inject adverts and malicious JavaScript. Due to these concerns, web browser vendors are planning to visually flag unencrypted connections as hazardous.

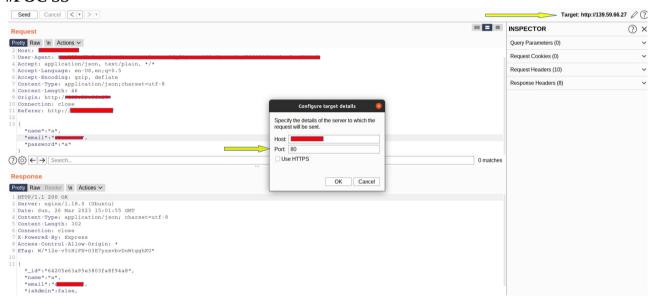
To exploit this vulnerability, an attacker must be suitably positioned to eavesdrop on the victim's network traffic. This scenario typically occurs when a client communicates with the server over an insecure connection such as public Wi-Fi, or a corporate or home network that is shared with a compromised computer. Common defenses such as switched networks are not sufficient to prevent this. An attacker situated in the user's ISP or the application's hosting infrastructure could also perform this attack. Note that an advanced adversary could potentially target any connection made over the Internet's core infrastructure.

Please note that using a mixture of encrypted and unencrypted communications is an ineffective defense against active attackers, because they can easily remove references to encrypted resources when these references are transmitted over an unencrypted connection.

##step to reproduce

1. Register an account or login to a account you will see data is transmitted over http which is a unencrypted protocol

#POC SS



#Impact

Attacker can read victims credentials while victim going to use public wifi over http protocol to the vulnerable website.

3. X-frame attack leads to account takeover

#Description

If a page fails to set an appropriate X-Frame-Options or Content-Security-Policy HTTP header, it might be possible for a page controlled by an attacker to load it within an iframe. This may enable a clickjacking attack,

in which the attacker's page overlays the target application's interface with a different interface provided by the attacker. By inducing victim users to perform actions such as

mouse clicks and keystrokes, the attacker can cause them to unwittingly carry out actions within the application that is being targeted. This technique allows the attacker to circumvent defenses against cross-site request forgery, and may result in unauthorized actions.

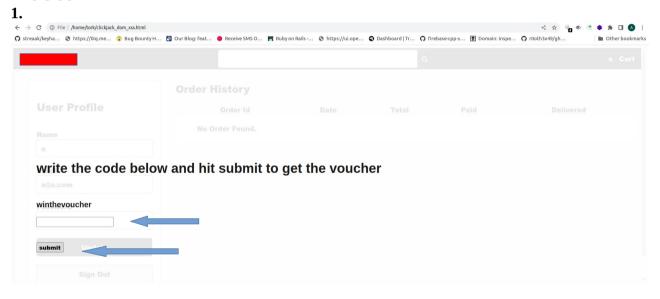
Note that some applications attempt to prevent these attacks from within the HTML page itself, using "framebusting" code. However, this type of defense is normally ineffective and can usually be circumvented by a skilled attacker.

You should determine whether any functions accessible within frameable pages can be used by application users to perform any sensitive actions within the application

#Steps to Reproduce

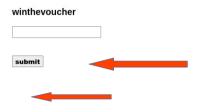
- 1. create a html page containg frame html tag with this url http:// /#/profile
- 2. I will add the code here

#POC SS



2.

write the code below and hit submit to get the voucher



```
#CODE
<!DOCTYPE html>
<html>
<head>
      <meta charset="utf-8">
      <meta name="viewport" content="width=device-width, initial-scale=1">
      <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
      <title></title>
</head>
<body>
 <style>
 iframe {
   position:relative;
   width:1900px;
   height: 700px;
   opacity: 0.0;
   z-index: 2;
 }
  div {
   position:absolute;
   top:320px;
   left:79px;
   z-index: 1;
 }
</style>
<div><h1>write the code below and hit submit to get the voucher</h1><br>
 <h3>winthevoucher</h3>
 <input type="text" name=""><br>
 <br>>
```

```
<br/>
<br/>
<button>submit</button>
</div>
</style>
<iframe src="http:// #/profile"></iframe>
</body>
</html>
```

using this x-frame attack attacker can change the user's password which is a account takeover.

4. Long Password DoS Attack

#Description

As the value of password is hashed and then stored in Databases. If there is no limit on the length of the Password, it can lead to consumption of resources for Hashing the Long Password

#Steps to reproduce

- 1. go to register page
- 2. give long password like 2000 length you will notice there is character limit for password setup

#impact

it can lead to consumption of resources for Hashing the Long Password

5.Stored Cross site Scripting - Comment parameter

#Description

I found a stored xss in following endpoint

http:// #/product/64214d0126d5b1006ef35de6 where customer can add comment to give review about the product, the comment parameter is vulnerable for stored xss.

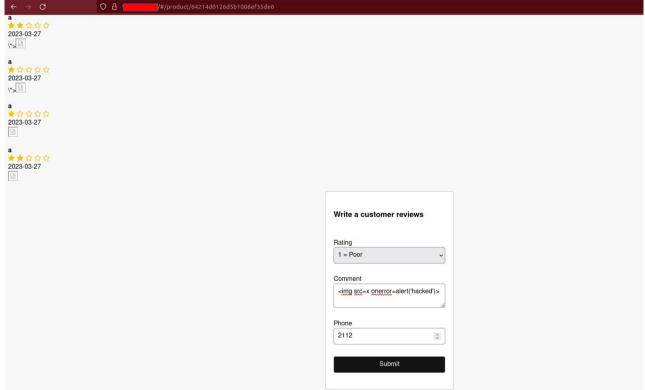
#Vulnerable parameter: comment

#payload:

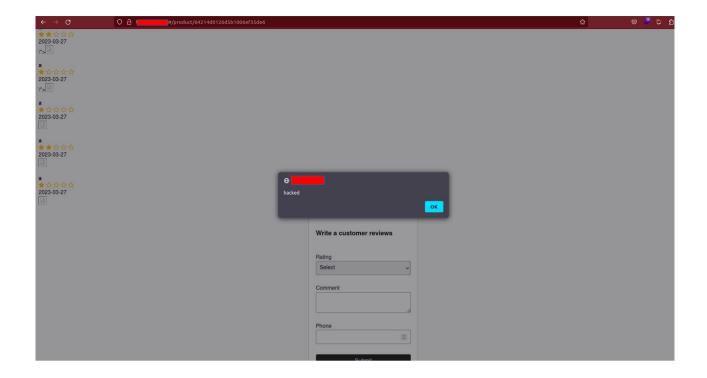
#Steps to reproduce

- 1. go to this endpoint <a href="http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.h
- 2. add a comment with this payload:
- 3. xss will pop up because comment parameter is vulnerable for xss.

#POC SS



2. xss pop



Executing arbitrary javascript, Admin account takeover, stealing other users' cookies.

6. Users PII info disclosure

#Description

Api misconfiguration leads to users pII information disclosure in product review endpoint

uri: /api/products/64214d0126d5b1006ef35de6

#Steps to reproduce

- 1. go to this endpoint <a href="http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.h
- 2. add a comment
- 3. capture the request in burpsuite
- 4. see the response in burpsuite you will observe users id, phone number

#POC SS

```
Request
Pretty Raw \n Actions >
1 GET /api/products/64214d0126d5b1006ef35de6 HTTP/1.1
3 User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:109.0) Gecko/20100101
  Firefox/111.0
4 Accept: application/json, text/plain, */*
5 Accept-Language: en-US, en; q=0.5
6 Accept-Encoding: gzip, deflate
7 DNT: 1
8 Connection: close
9 Referer: http://
10
11
(?){©} ← → Search...
Response
Pretty Raw Render \n Actions ∨
        "_id": "64215237a95e3803fa8f9a1a",
        "rating":1,
        "comment":"\\\"><img src=x onerror=alert('fofo')>",
         "user": "642150c1a95e3803fa8f99f4",
        "mobileNumber":"33",
        "name":"a",
        "createdAt": "2023-03-27T08:22:15.032Z",
        "updatedAt": "2023-03-27T08:22:15.032Z"
         "_id": "6421527ba95e3803fa8f9a1e",
        "rating":1,
        "comment": "<img src=x onerror=alert('ee')>",
         "user": "642150c1a95e3803fa8f99f4",
        "mobileNumber":"31",
1.
```

Attacker can sell these users information to third party or can misuse to harm users confidentiality

7. Authoritative related Misconfiguration (Business Logic Error) #Description

The misconfiguration is where a user who didn't buy the product he is not authorize to give review about the product, only the user who brought the product can give review about the product after purchasing the product. But here the user who did not buy the product can give review about the product.

#Steps to reproduce

- 1. go to product id page
- 2. give a review about the product before purchasing the product
- 3. you can observe that you have successfully given a review without purchasing the product

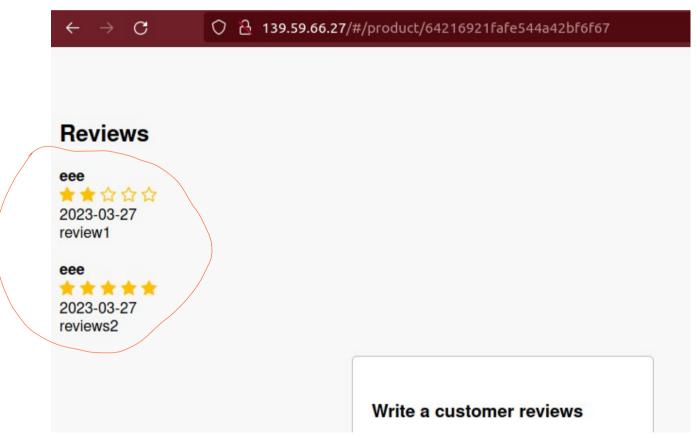
Misinformation for valid users, scamming.

8. A user can give multiple reviews In same product (Business Logic Error) #Description

The misconfiguration is where a user can give as many reviews In same product at a time he can, there is no restriction for user to not to give more than one review at a time for a product from an account

##Steps to reproduce

1. go to product review page and give multiple reviews **#POC SS**



#Impact

Attacker can comment thousand of reviews where valid customer won't find legitimate reviews from legitimate customers.

9.Stored Cross site Scripting – Name parameter

#Description

Name is vulnerable for stored xss which is pop up everywhere

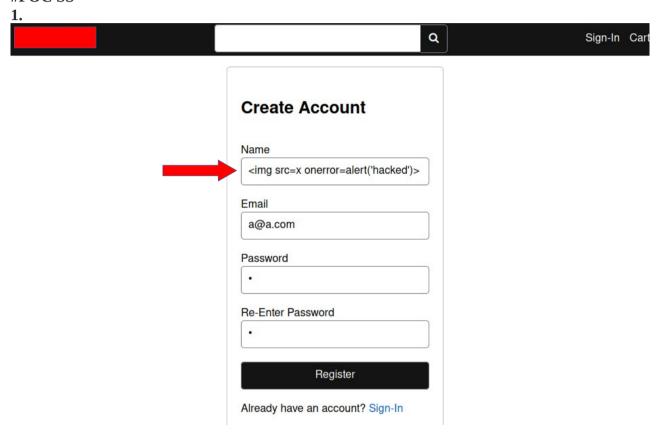
#Vulnerable parameter: Name

#payload:

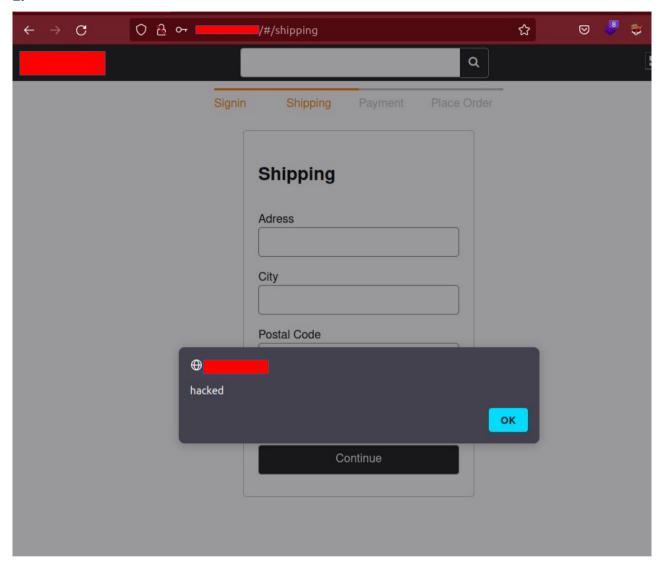
#Steps to reproduce

- 2. set name with this xss payload:
- 3. xss will pop up because name parameter is vulnerable for xss.

#POC SS



2.



#Impact

Executing arbitrary javascript, Admin account takeover, stealing other users' cookies.

10.Stored Cross site Scripting – Adress parameter

#Description

Adress parameter from <a href="http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.ht

#Vulnerable parameter: Adress

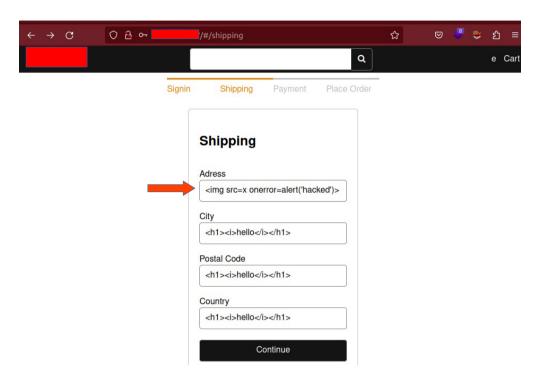
#payload:

#Steps to reproduce

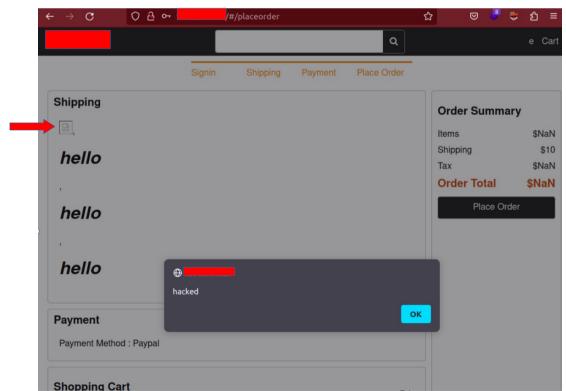
- 1. go to this endpoint http://www.http://whipping
- 2. set adress with this xss payload:
- 3. xss will pop up because name parameter is vulnerable for xss.

#POC SS

1.



2



Executing arbitrary javascript, Admin account takeover, stealing other users' cookies.

11.Stored Cross site Scripting – City parameter

#Description

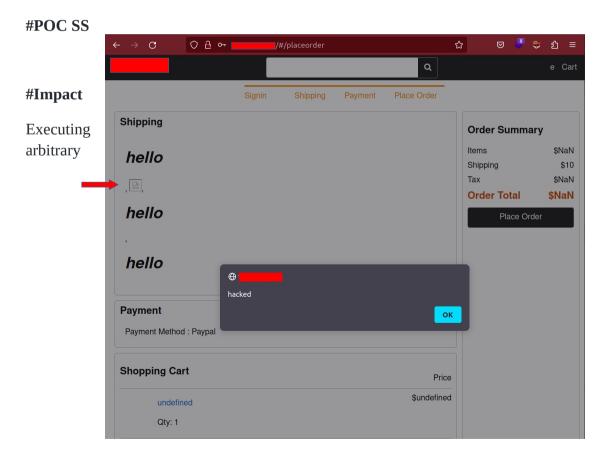
City parameter from http://"#/shipping url is vulnerable for stored xss which will pop up on admin dashboard to takeover admin account

#Vulnerable parameter: Adress

#payload:

#Steps to reproduce

- 1. go to this endpoint http://www.http://www.html.
- 2. set city with this xss payload:
- 3. xss will pop up because name parameter is vulnerable for xss.



javascript, admin account takeover stealing other users' cookies.

Executing arbitrary javascript, Admin account takeover, stealing other users' cookies.

12.Stored Cross site Scripting -Postal code

#Description

Postal code parameter from <a href="http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://w

#Vulnerable parameter: Adress

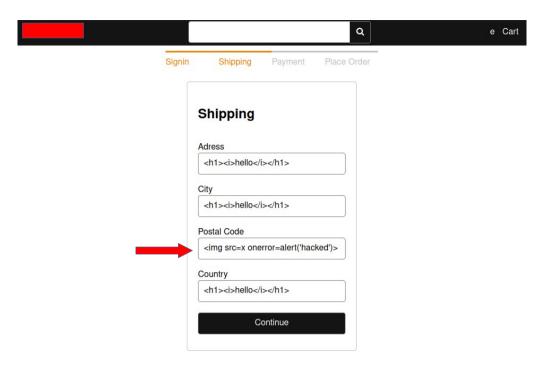
#payload:

#Steps to reproduce

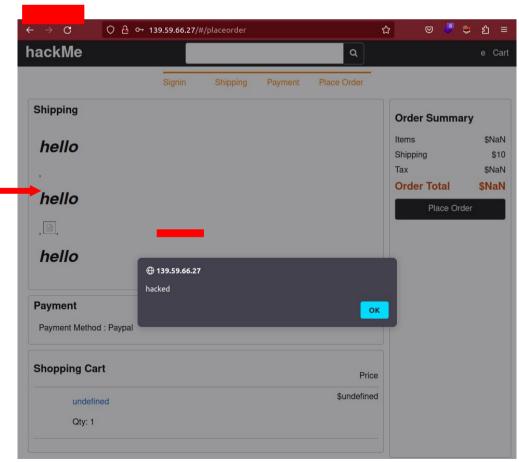
- 1. go to this endpoint http://www.http://www.html.
- 2. set Postal code with this xss payload:
- 3. xss will pop up because name parameter is vulnerable for xss.

#POC SS

1.



2.



Executing arbitrary javascript, admin account takeover stealing other users' cookies.

13.Stored Cross site scripting – Country parameter

#Description

Country parameter from <a href="http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.http://www.h

#Vulnerable parameter: Adress

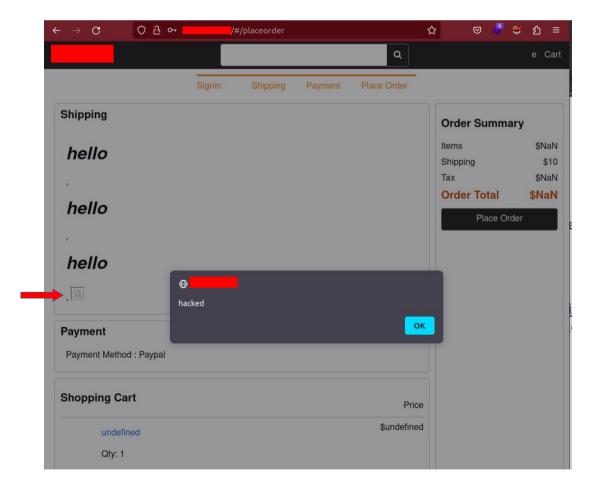
#payload:

#Steps to reproduce

- 1. go to this endpoint http://www.http://www.html.
- 2. set Country with this xss payload:
- 3. xss will pop up because name parameter is vulnerable for xss.

#POC SS

1.



Executing arbitrary javascript, Admin account takeover, stealing other users' cookies.

14. Index of /src information disclosures

#Description

This directory discloses backend api structure and admin is functionality

#Step to reproduce

1. please visit this url http://139.59.66.27/src/



#impact

attacker may break through the api by reading backend api scripts

15. Bruteforce attack leads to account takeover

#Description

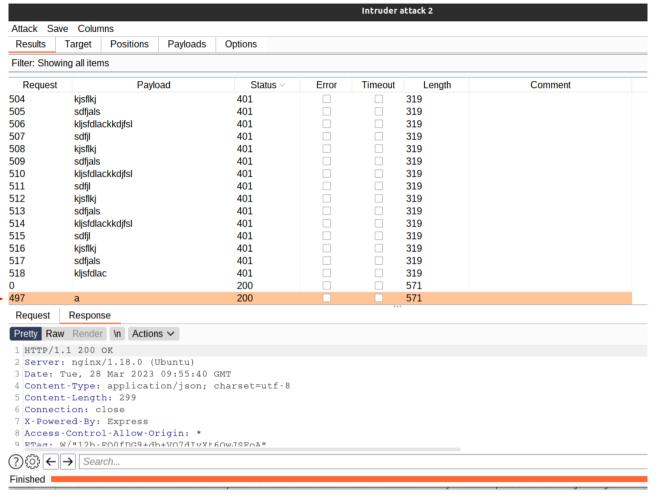
Login form is vulnerable for brute force attack where attacker is launching the password to guesss the victims password to get into the victims account there no bruteforce protection enabled in login form

#Steps to reproduce

- 1. intercept the signin request in burpsuite
- 2. send the sign in request to intruder
- 3. give list of password to guess the victims password
- 4. you will see wrong password reponds with 401 and right password responds in 200 response

#POC

1.



#Impact

account takeover

16. Weak Password Policy

#Description

A weak password is short, common, a system default, or something that could be rapidly guessed by executing a brute force attack using a subset of all possible passwords, such as words in the dictionary, proper names, words based on the user name or common variations on these themes. There is no length of password also enabled which means a user can set a single character as passwords

#Steps to reproduce

- 1. register an account with a single character as password as example 'a'
- 2. you will server does not pretending to set as single character as password
- 3. there is no length enforcement like 8 character or 12 character long password policy

attacker simple guess the password to launch bruteforce attack with common password list to takeover the account

17. HTML inject In multiple Parameters

#Description

Html injection is an attack where attacker attacker can inject html tag to create malicious content to deceive companies legitimate customers, there are many fields like username, adress, city, country, postal code, reviews comment parameter are vulerable for this attack

#Steps to reproduce

- 1. inject his payload in the following parameter to check the html injection
- 2. parameters: username, adress, city, country, postal code payload: <h1><s>html injection</s></h1>

#POC SS

