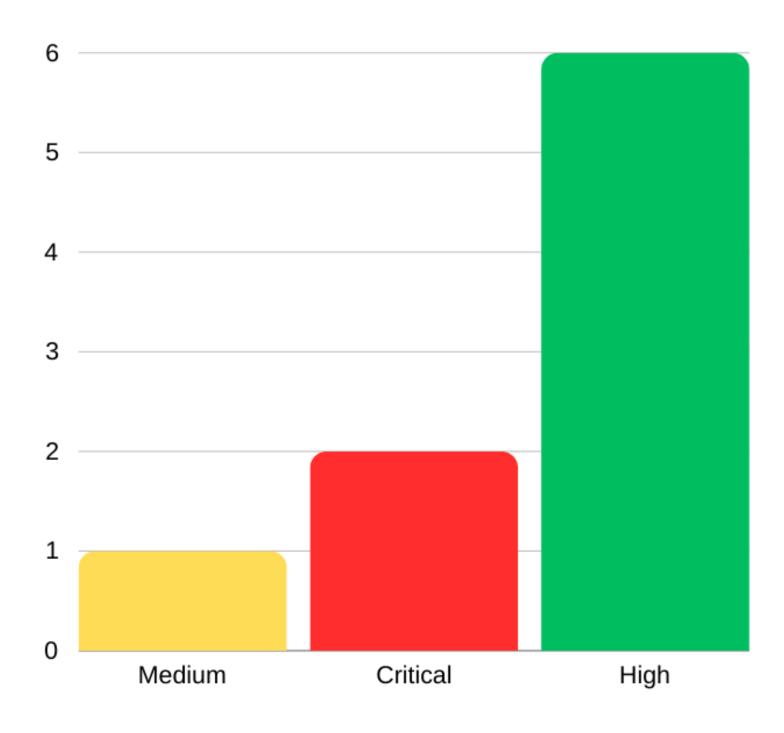


VULNERABILITY	SEVERITY
1. SQL INJECTION (LOGIN ADMIN).	CRITICAL
2.UNAUTHORIZED PRIVILEGE ESCALATION.	CRITICAL
3.API-ONLY CROSS-SITE SCRIPTING (XSS)	HIGH
4.BROKEN ACCESS CONTROL.	HIGH
5.UNAUTHORIZED MODIFICATION OF DATA.	HIGH
6.UNAUTHORIZED VIEWING OF ANOTHER USER'S BASKET.	HIGH
7.UNAUTHORIZED DELETION OF ITEMS IN ANOTHER USER'S BASKET.	HIGH
8.SENSITIVE INFORMATION EXPOSURE	HIGH
9.DOM-BASED CROSS-SITE SCRIPTING (XSS) VIA SEARCH BAR.	MEDIUM

Overall Risk Rating



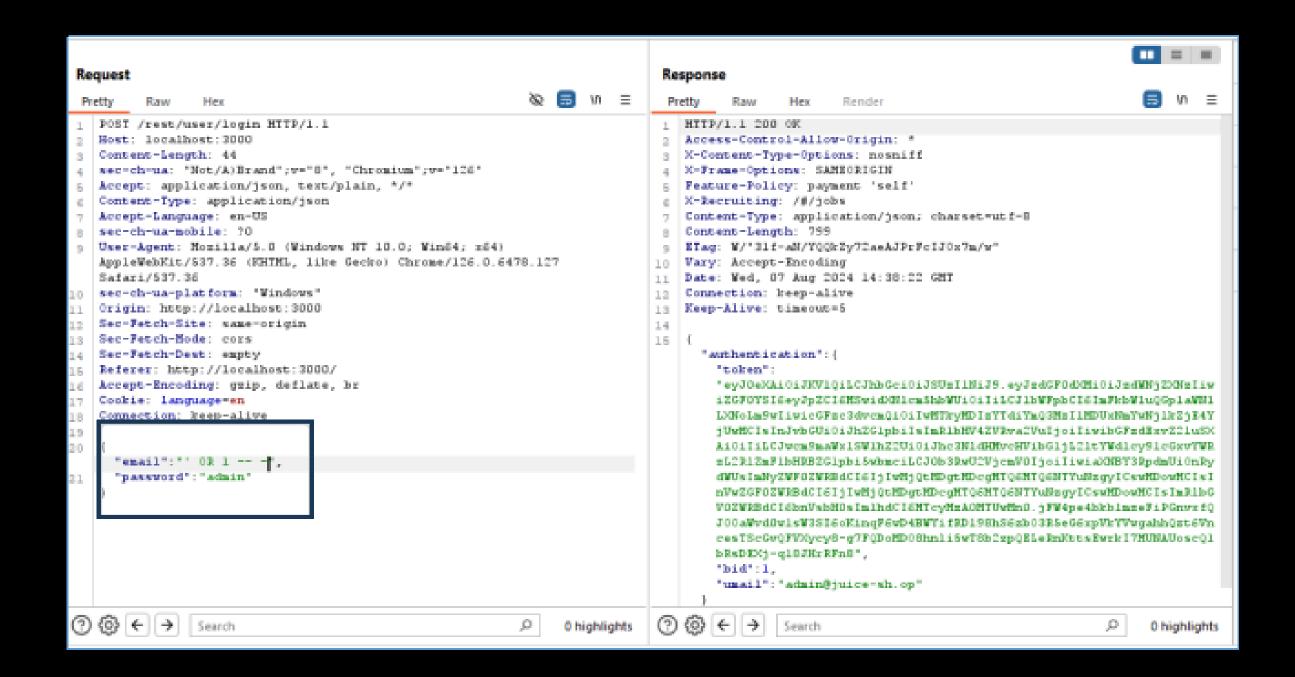
1. SQL INJECTION (LOGIN ADMIN). CRITICAL

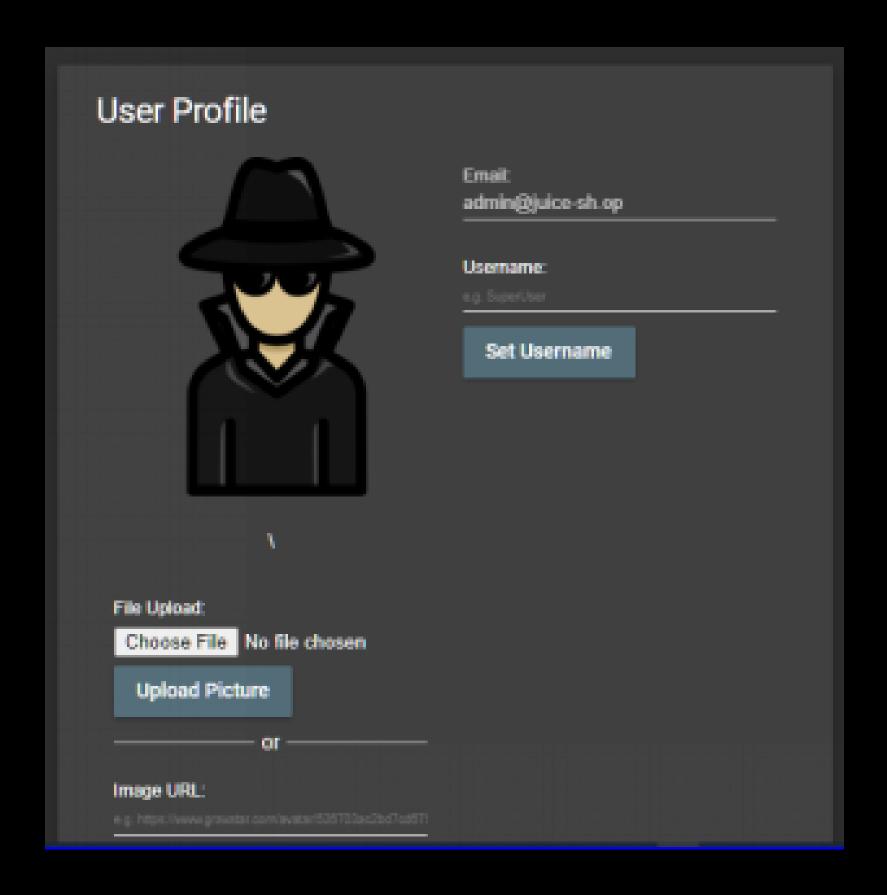
DESCRIPTION:

A CRITICAL SQL INJECTION VULNERABILITY WAS IDENTIFIED IN THE LOGIN FUNCTIONALITY OF THE WEB APPLICATION AT HTTP://LOCALHOST:3000. THE VULNERABILITY EXISTS BECAUSE USER INPUTS ARE NOT PROPERLY SANITIZED BEFORE BEING USED IN SQL QUERIES. AN ATTACKER CAN THIS FLAW TO BYPASS AUTHENTICATION **EXPLOIT** MECHANISMS AND GAIN UNAUTHORIZED ACCESS TO THE ADMIN PANEL.

NJECT THE SQL PAYLOAD: IN THE USERNAME FIELD OF THE LOGIN FORM, INPUT THE FOLLOWING PAYLOAD:

'OR 1 -- -





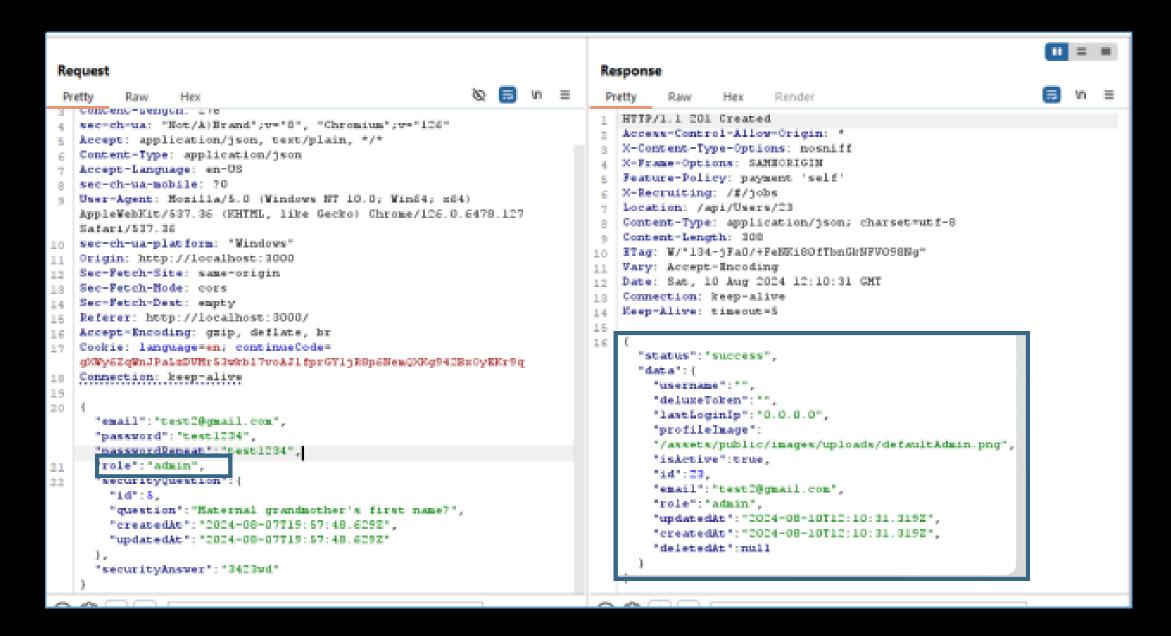
EXPLOITING THIS VULNERABILITY ALLOWS ATTACKER AN TO **BYPASS** AUTHENTICATION AND GAIN **ADMINISTRATIVE** ACCESS TO THE APPLICATION. THIS COULD LEAD **TO** COMPLETE COMPROMISE **OF** APPLICATION, INCLUDING THE ABILITY TO VIEW, MODIFY, OR DELETE SENSITIVE DATA, POTENTIALLY EXECUTE AND ARBITRARY COMMANDS ON THE SERVER.

2.UNAUTHORIZED PRIVILEGE ESCALATION. CRITICAL DESCRIPTION:

A CRITICAL VULNERABILITY IN THE ADMIN REGISTRATION PROCESS OF THE WEB APPLICATION AT HTTP://LOCALHOST:3000 ALLOWS UNAUTHORIZED USERS TO ESCALATE THEIR PRIVILEGES EXPLOITING IMPROPER INPUT VALIDATION. THE VULNERABILITY EXISTS BECAUSE THE APPLICATION DOES NOT ADEQUATELY VALIDATE USER INPUTS WHEN ASSIGNING ROLES DURING THE REGISTRATION PROCESS, ALLOWING ATTACKERS TO ASSIGN THEMSELVES AN ADMIN ROLE.

MODIFY THE ROLE PARAMETER:

- · IN THE INTERCEPTED REQUEST, FIND THE SECTION WHERE THE USER'S ROLE IS DEFINED.
- · MODIFY THE ROLE PARAMETER TO "ROLE":"ADMIN".



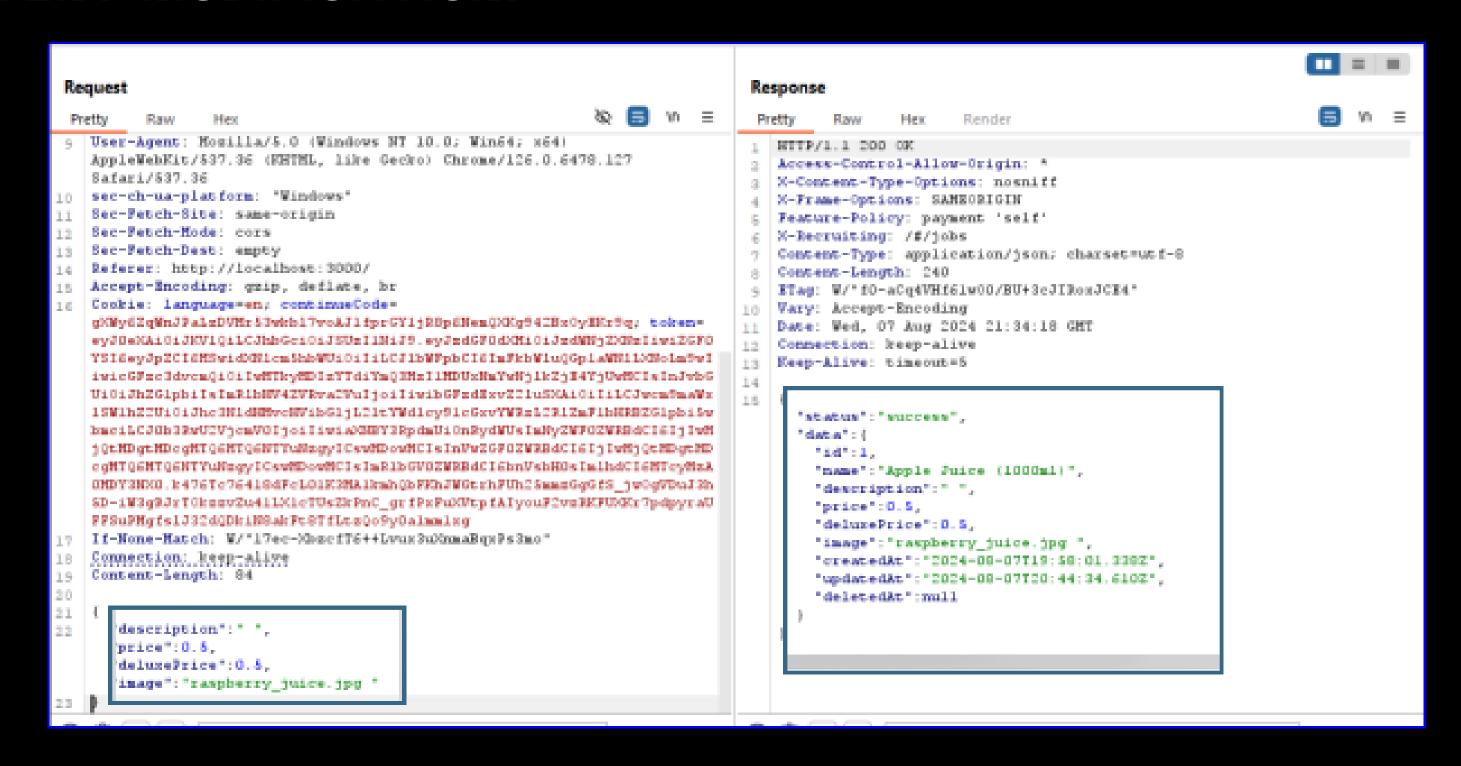
EXPLOITING THIS VULNERABILITY ENABLES AN ATTACKER TO GAIN ADMINISTRATIVE PRIVILEGES WITHOUT PROPER AUTHORIZATION. THIS COULD LEAD TO A COMPLETE COMPROMISE OF THE APPLICATION, INCLUDING UNAUTHORIZED ACCESS TO SENSITIVE DATA, MODIFICATION OF CRITICAL SETTINGS, AND POTENTIAL DISRUPTION OF SERVICES.

3.API-ONLY CROSS-SITE SCRIPTING (XSS).HIGH

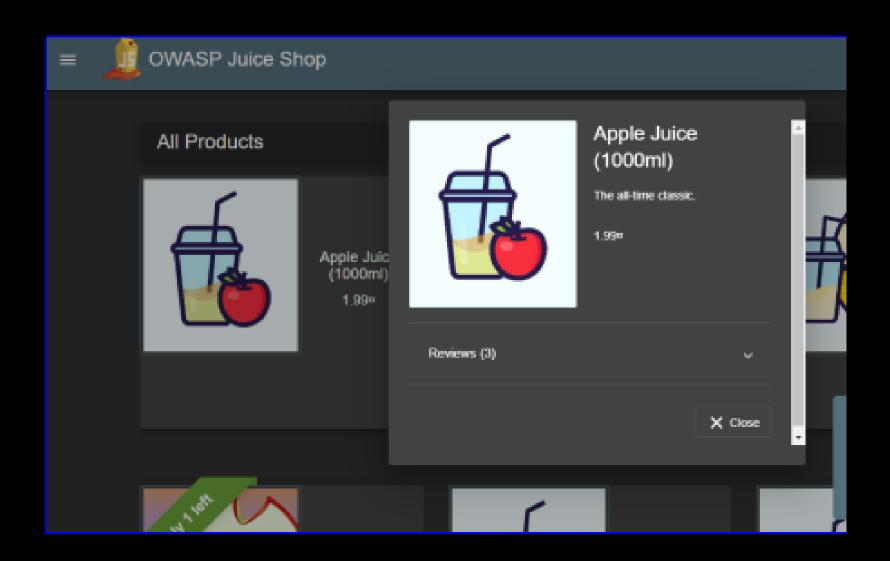
DESCRIPTION:

IN THIS SPECIFIC CASE, THE VULNERABILITY IS EXPLOITABLE BY AN AUTHENTICATED ADMIN USER AND CAN BE TRIGGERED BY MODIFYING CERTAIN CONTENT VIA THE API. ALTHOUGH THE XSS IS CONFINED TO API RESPONSES, IT POSES A SIGNIFICANT RISK AS IT CAN BE LEVERAGED TO COMPROMISE ADMIN ACCOUNTS OR PERFORM UNAUTHORIZED ACTIONS ON BEHALF OF THE ADMIN USER.

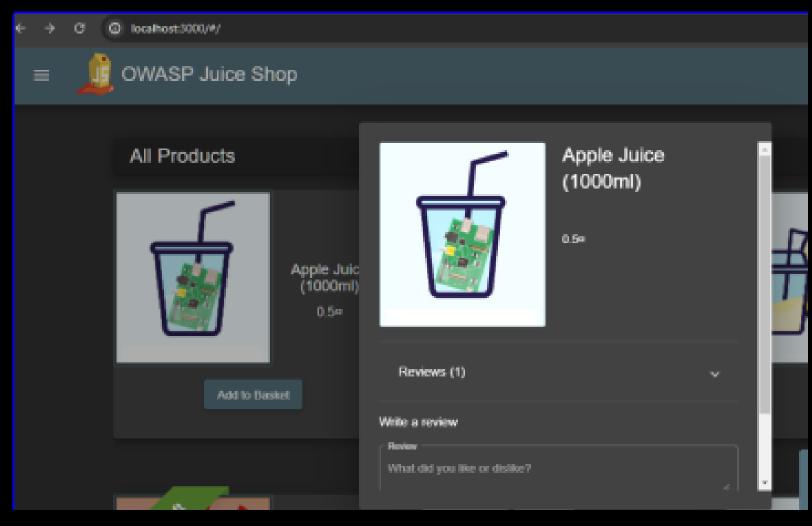
SEND A PUT REQUEST TO THE API ENDPOINT THAT ALLOWS CONTENT MODIFICATION.



BEFORE



AFTER



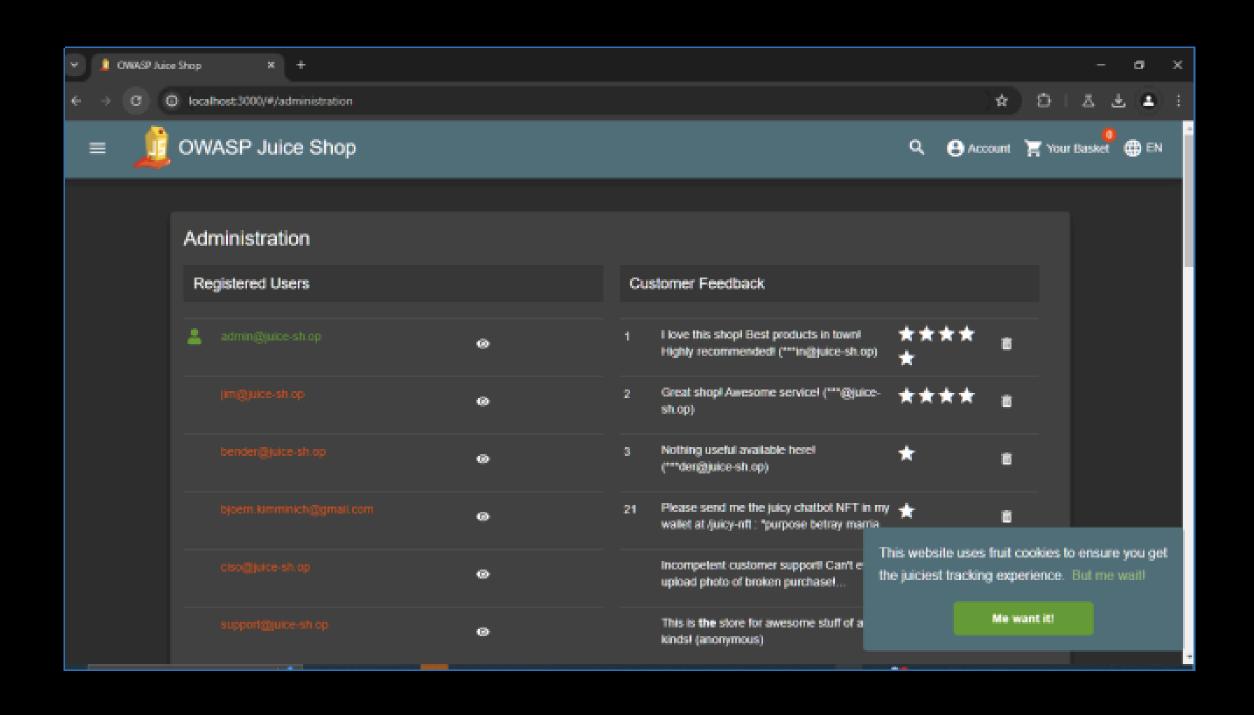
PERFORM UNAUTHORIZED ACTIONS ON BEHALF OF THE ADMIN, SUCH AS MODIFYING OR DELETING CRITICAL APPLICATION DATA.

4.BROKEN ACCESS CONTROL. HIGH

DESCRIPTION:

CRITICAL BROKEN ACCESS CONTROL VULNERABILITY WAS IDENTIFIED AT THE WEB APPLICATION HTTP://LOCALHOST:3000. THE ISSUE LIES THE /ADMINSTRATION ENDPOINT, WHICH ALLOWS UNAUTHORIZED USERS TO ACCESS THE ADMINISTRATION PANEL WITHOUT PROPER AUTHENTICATION OR AUTHORIZATION CHECKS. THIS VULNERABILITY OCCURS DUE TO THE APPLICATION FAILING TO ENFORCE ACCESS CONTROL MEASURES ON SENSITIVE RESOURCES.

OPEN YOUR WEB BROWSER AND GO TO THE FOLLOWING URL: HTTP://LOCALHOST:3000/ADMINSTRATION



EXPLOITING THIS VULNERABILITY ALLOWS AN ATTACKER TO ACCESS THE ADMINISTRATION PANEL WITHOUT VALID CREDENTIALS. THIS CAN LEAD TO UNAUTHORIZED ACCESS TO SENSITIVE DATA, THE ABILITY TO MODIFY APPLICATION SETTINGS, AND POTENTIAL CONTROL OVER CRITICAL FUNCTIONS OF THE APPLICATION.

5.UNAUTHORIZED MODIFICATION OF DATA. HIGH

DESCRIPTION:

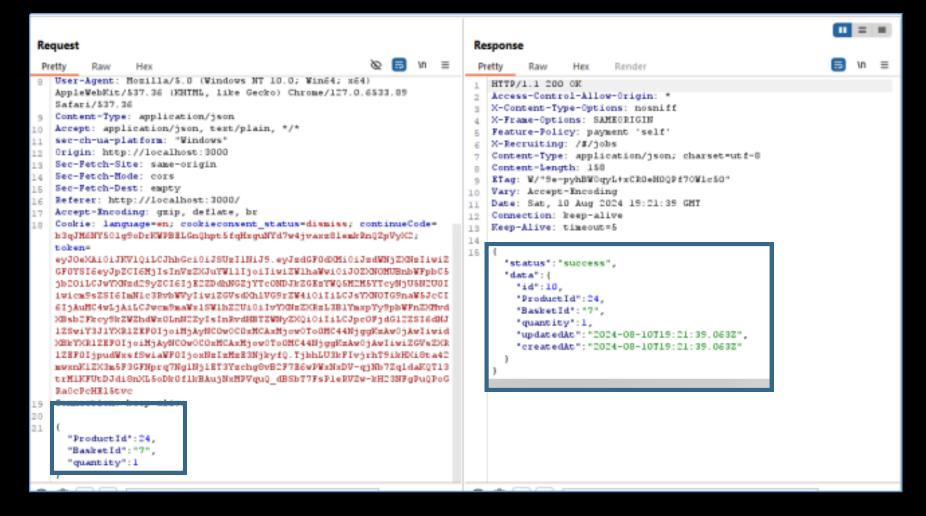
A CRITICAL ACCESS CONTROL VULNERABILITY WAS IDENTIFIED IN THE WEB APPLICATION AT http://localhost:3000. The Issue allows an authenticated user to add items to another user's basket by directly interacting with the /api/basketitems/ endpoint. This vulnerability exists because the application does not properly validate or enforce ownership of basket items, enabling unauthorized modification of another user's data.

ADD AN ITEM TO YOUR BASKET AND INTERCEPT THE REQUEST TO /API/BASKETITEMS/USING A WEB PROXY TOOL LIKE BURP SUITE.

IN THE INTERCEPTED REQUEST, CHANGE THE USERID OR ANY PARAMETER THAT IDENTIFIES THE BASKET TO ANOTHER USER'S ID.

BEFORE

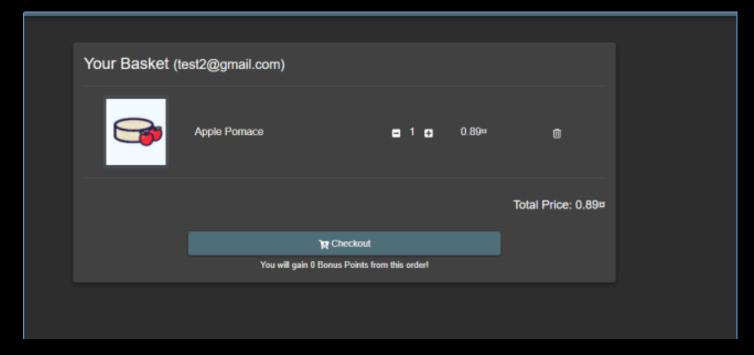
AFTER



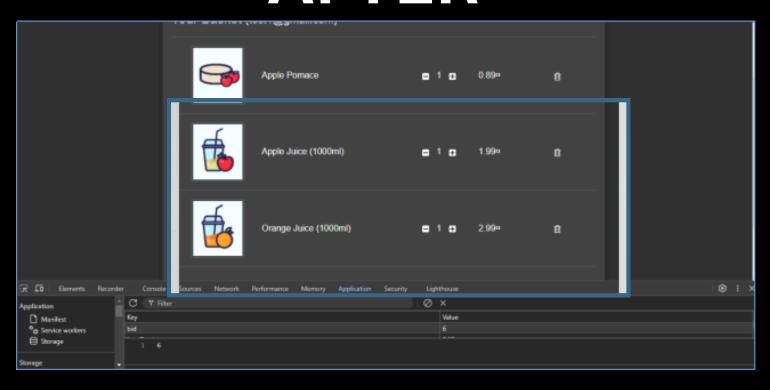
```
USEL-Agenc. NUBILIA/8.0 (WINDOWS NI 10.0, WINCY, ACT)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/127.0.6533.89
                                                                              Access-Control-Allow-Origin: *
                                                                              X-Content-Type-Options: nosniff
Content-Type: application/json
                                                                             X-Frame-Options: SAMEORIGIN
Accept: application/json, text/plain, */*
                                                                              Feature-Policy: payment 'self'
sec-ch-ua-platform: "Windows"
                                                                              X-Recruiting: /#/jobs
Origin: http://localhost:3000
                                                                              Content-Type: application/json; charset=utf-8
Sec-Fetch-Site: same-origin
                                                                              Content-Length: 157
Sec-Fetch-Mode: cors
                                                                              ETag: W/"9d-luAx6vZarQV/CiBREExjC2sg8CY"
Sec-Fetch-Dest: empty
                                                                             Vary: Accept-Encoding
Referer: http://localhost:3000/
                                                                             Date: Sat, 10 Aug 2024 19:58:11 GMT
Accept-Encoding: gmip, deflate, br
                                                                              Connection: keep-alive
Cookie: language=en; cookieconsent_status=dismiss; continueCode=
                                                                             Keep-Alive: timeout=5
b3qJM6NY501q9oDrKWFBBLGnQhpt5fqHxquNYd7w4jvaxz8lenkRnQZpVyXZ; token-
                                                                          14
eyJoeXAiOiJKVlQiLCJhbGciOiJSUzIlNiJ9.eyJzdGFOdOMiOiJzdWWjZOUzIiwiZGFOY
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                                                                                   "created&t": "2024-08-10719:58:11.6742"
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bT7FaP1eRVZw-kH23NFgPuQPoGRa0cPcHE15tvc
Connection: keep-alive
  "ProductId": 2
  "BasketId": "7",
   BasketId": "6"
```

VULNERABILITY THIS **EXPLOITING** AN ATTACKER TO MODIFY ITEMS IN ANOTHER BASKET, LEADING TO UNAUTHORIZED ACCESS AND POTENTIAL MANIPULATION OF USER ORDERS. THIS CAN RESULT IN FINANCIAL LOSSES, TRUST ISSUES, AND POTENTIAL LEGAL CONSEQUENCES FOR AFFECTED **USERS** THE AND APPLICATION.

BEFORE



AFTER



6.UNAUTHORIZED VIEWING OF ANOTHER USER'S BASKET. HIGH

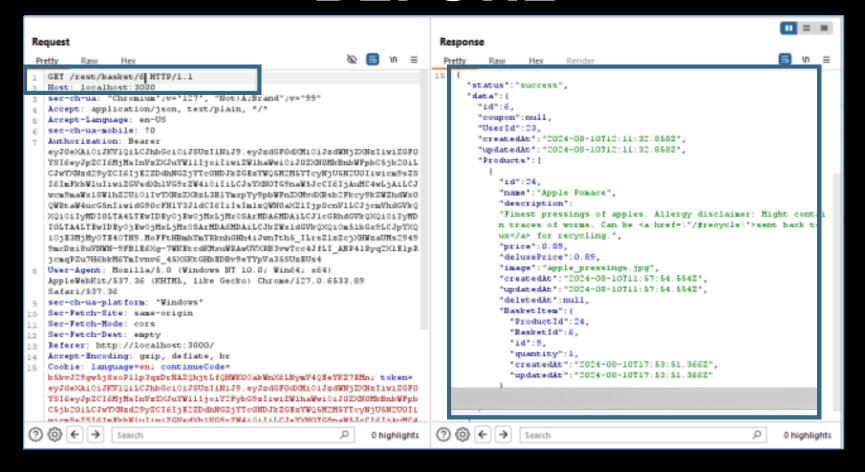
DESCRIPTION:

A CRITICAL INSECURE DIRECT OBJECT REFERENCE (IDOR) VULNERABILITY WAS IDENTIFIED IN THE WEB APPLICATION AT HTTP://Localhost:3000. The Issue allows authenticated users to view the contents of another user's basket by modifying the basketid parameter in the request to the /rest/basket/ endpoint. The vulnerability exists because the application fails to validate that the user making the request owns the specified basket, leading to unauthorized access to other users' data.

- ADD AN ITEM TO YOUR BASKET AND INTERCEPT THE REQUEST TO /REST/BASKET/{BASKETID} USING A WEB PROXY TOOL LIKE BURP SUITE.
- CHANGE THE BASKETID IN THE REQUEST URL FROM YOUR CURRENT BASKET ID (E.G., 6) TO ANOTHER ID (E.G., 2).

BEFORE

AFTER



```
"status": "success".
                                                                                  "data": {
Accept: application/json, text/plain, */*
                                                                                    "Ad":2,
Accept-Language: en-US
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                                                                                    "UserId": 2,
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                                                                                        'Made from blended Raspberry Pi, water and sugar.
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                                                                                        'deluxePrice': 4.99,
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User-Agent: Hozilla/5.0 (Windows NT 10.0; Win64; x64)
                                                                                         "updatedAt": "2024-08-10T11: 57: 54.4762",
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/127.0.6533.89
                                                                                        'deletedAt": mull,
Safari/537.36
                                                                                        "Backet Item": {
sec-ch-ua-platform: "Windows"
                                                                                          "ProductId": 4,
Sec-Fetch-Site: same-origin
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Sec-Fetch-Mode: cors
                                                                                          "ad":4...
Sec-Fetch-Dest: empty
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Referer: http://localhost:3000/
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Cookie: language=en; continueCode=
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eyJ0eXA101JEV1Q1LCJhbGc101JSUzIlN1J9.eyJzdGF0dDH101JzdWNjZDUzIlw1ZGF0
YSI6eyJpZCI6HjHaInWzZXJuYW11IjoiY2FybG9zIiwiZW1haWwi0iJ0ZXW0HkBnbWFpb
C5jbC01LCJwYXGFed29yZC161jE22DdbNGZjYTeONDJkZGEeYWQSMZH5YTeyNjUSNZU011
este and a 7 GTG Tac Web With Three 17 GM a dWs 1 MGS + 7 W4 + 0 + T + 1.0 Jac WMD TGS 51 a WS Jac CTG T + 4 + 9 C4
```

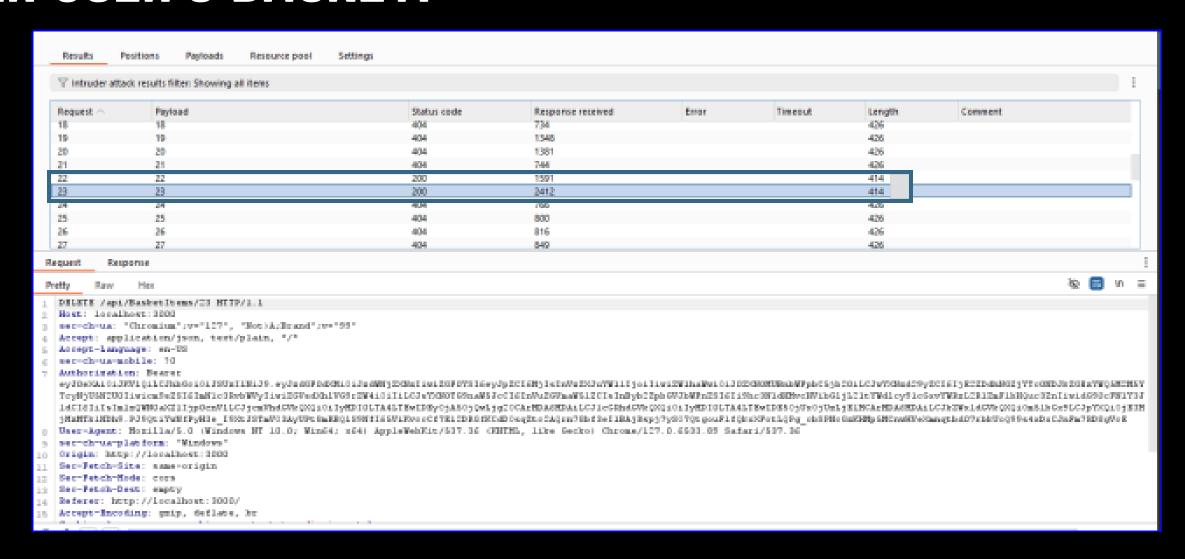
EXPLOITING THIS VULNERABILITY ALLOWS AN ATTACKER TO VIEW THE CONTENTS OF ANOTHER USER'S BASKET, POTENTIALLY EXPOSING SENSITIVE INFORMATION SUCH AS PRODUCT SELECTIONS, QUANTITIES, AND PRICES. THIS CAN LEAD TO PRIVACY VIOLATIONS, UNAUTHORIZED DATA ACCESS, AND A BREACH OF USER TRUST.

7.UNAUTHORIZED DELETION OF ITEMS IN ANOTHER USER'S BASKET.HIGH

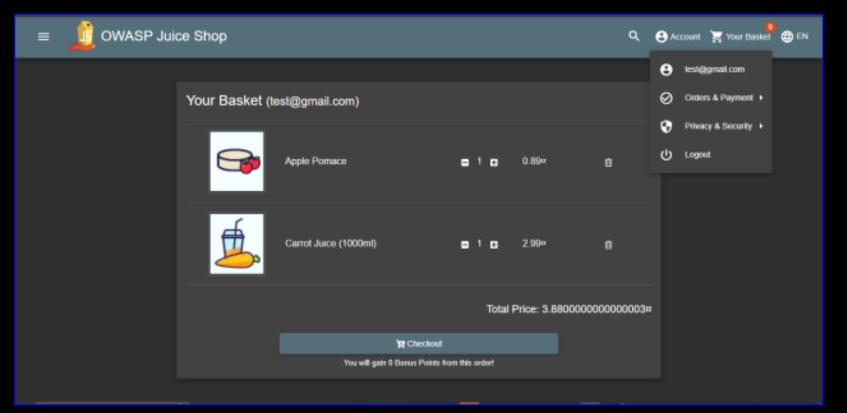
DESCRIPTION:

A CRITICAL INSECURE DIRECT OBJECT REFERENCE (IDOR) VULNERABILITY WAS IDENTIFIED IN THE WEB APPLICATION AT HTTP://Localhost:3000. THE ISSUE ALLOWS AN AUTHENTICATED USER TO DELETE ALL ITEMS FROM ANOTHER USER'S BASKET BY SENDING A SPECIALLY CRAFTED DELETE REQUEST TO THE /API/BASKETITEMS/ ENDPOINT. THE APPLICATION FAILS TO PROPERLY VALIDATE THAT THE USER MAKING THE REQUEST OWNS THE ITEMS IN THE SPECIFIED BASKET, ALLOWING UNAUTHORIZED DELETION OF ITEMS FROM OTHER USERS' PROFILES.

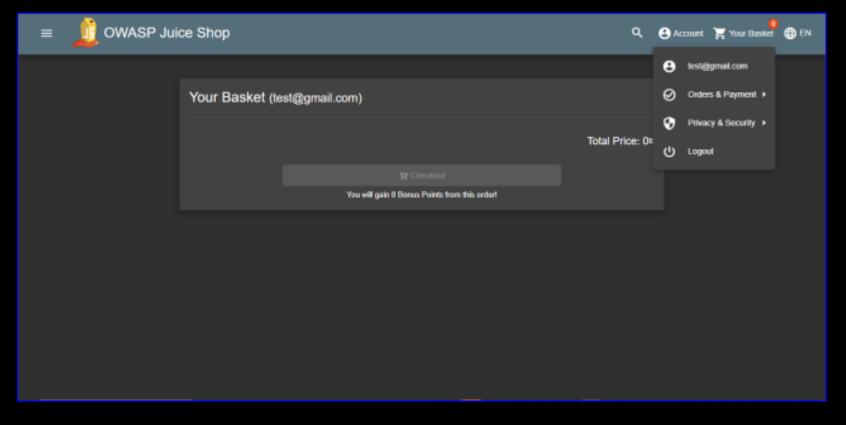
- ATTEMPT TO DELETE AN ITEM FROM YOUR OWN BASKET AND INTERCEPT THE DELETE REQUEST SENT TO /API/BASKETITEMS/ USING A WEB PROXY TOOL LIKE BURP SUITE.
- CHANGE THE IDENTIFIER FOR THE BASKET OR ITEM TO TARGET ANOTHER USER'S BASKET.



BEFORE



AFTER



Impact:

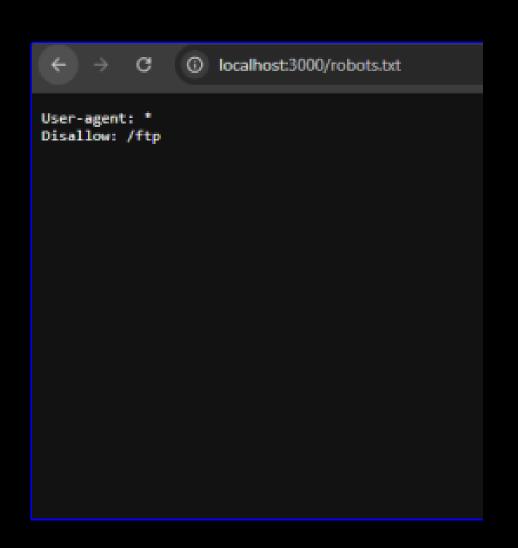
Exploiting this vulnerability enables an attacker to delete all items from another user's basket, leading to unauthorized manipulation, potential financial loss, and a negative impact on user experience. This could also result legal consequences for the application if users' data compromised.

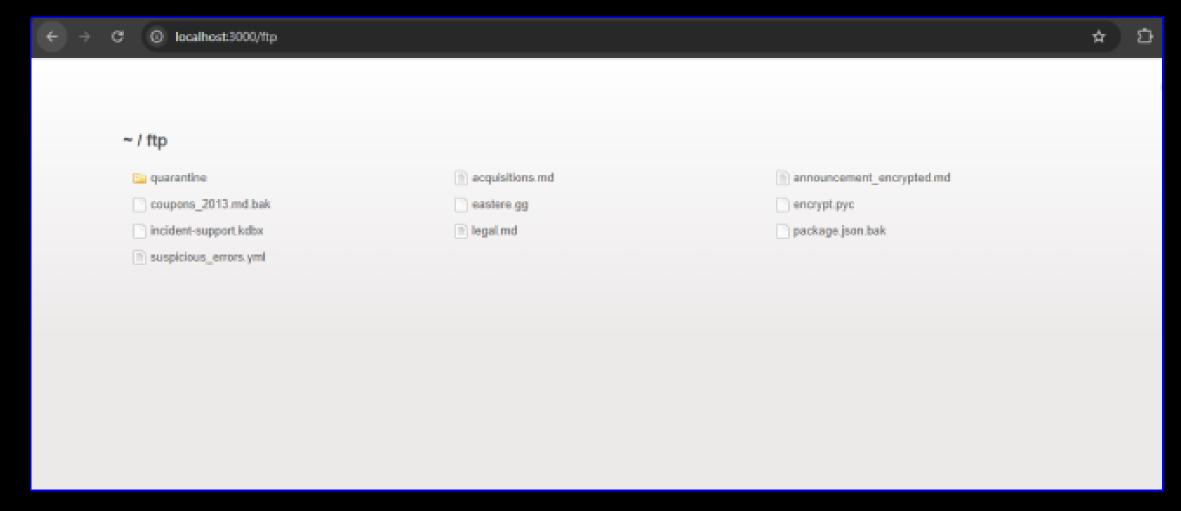
8. Sensitive Information Exposure. HIGH

Description:

The /robots.txt file on the target application was found to be publicly accessible and contains a disallowed entry for the /ftp directory. This directory can potentially house sensitive files or data that were intended to be restricted. The exposure of this information allows an attacker to directly access the /ftp directory, which may contain sensitive or exploitable content.

The browser will display the contents of the /robots.txt file, which includes a disallow directive pointing to the /ftp directory.





Impact:

The disclosed /ftp directory could contain sensitive information such as configuration files, data backups, or other critical resources. Access to this directory can lead to unauthorized information gathering, which might pave the way for further attacks such as data theft, privilege escalation, or even full system compromise if exploitable files are discovered within.

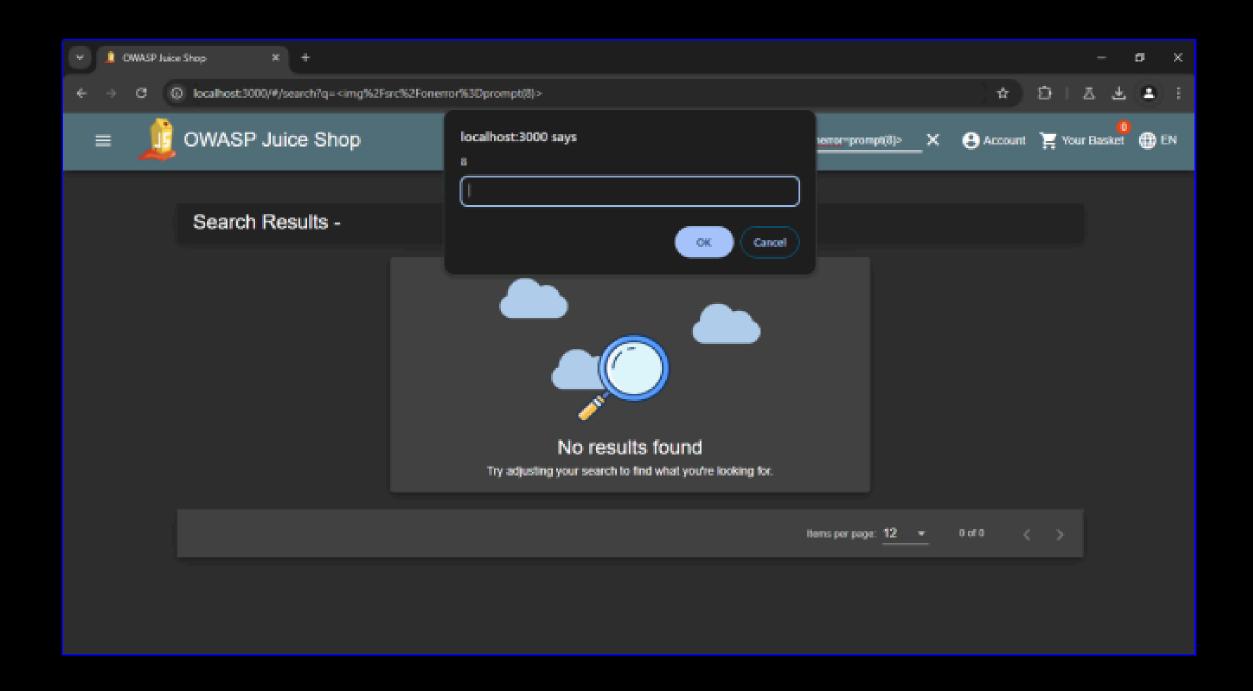
9.DOM-Based Cross-Site Scripting (XSS) via Search Bar.MEDIUM

Description:

The application at http://localhost:3000/#/ is vulnerable to DOM-Based Cross-Site Scripting (XSS). The vulnerability occurs when user-controlled input is directly manipulated in the DOM without proper sanitization, allowing attackers to inject and execute malicious scripts within the context of the user's browser. This specific vulnerability was identified in the search bar of the application, where an attacker can inject a malicious payload that executes JavaScript code.

In the search bar of the application, enter the following payload and press enter:

<img/src/onerror=prompt(8)>



Impact:

Successful exploitation of this vulnerability allows an attacker to execute arbitrary JavaScript code in the context of the user's session. This could lead to unauthorized actions such as stealing session cookies, performing actions on behalf of the user, or displaying fraudulent content. The impact is elevated if sensitive user data or high-privileged user accounts are affected.

THANKYOU