

12-Jan-24



Web Application Security Testing Report

of

<https://gazeteer.onlinesystems.link/>

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Disclaimer:

This report and any supplements are **HIGHLY CONFIDENTIAL** and may be protected by one or more legal privileges. It is intended solely for the use of the relevant IT personnel in the organization. This report is prepared based on the IT environment that prevailed in the period of assessment.

This report is not a guarantee or certification that all vulnerabilities have been discovered and reported in the findings. Subsequent reviews may report on previously unidentified findings or on new vulnerabilities. The samples screen shot should not be treated as the final vulnerabilities. Gaps which we have identified can also get replicated in any part of the infrastructure. Organization should ensure that Vulnerability Management Program should be adapted continuously rather than fixing just the issues identified within the areas which MQAS has highlighted.

Issues identified should be closed and resubmitted within one month of publication of the report. Any changes in the build post testing completion shall result in cancellation of “safe to host certificate”.

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1. Introduction

This document summarizes the results of Vulnerability and Penetration tests conducted on the complete web application.

2. Scope

The aim of this project was to conduct the following activities

- i. Gather Information
- ii. Vulnerabilities Detection
- iii. Analysis of Vulnerabilities
- iv. Reporting details based on the information gathered

S No.	Application URL
1	https://gazeteer.onlinesystems.link/

3. Methodology

Web Application Security Testing Methodolgy



OUR APPROACH FOR WEB APPLICATION VULNERABILITY ASSESSMENT AND PENETRATION TESTING

STAGE 1: PLANNING AND INFORMATION GATHERING

- Scope to decide potential impact of scanning activities.
- Get the contact details of stake holders that need to be kept posted of the testing activities.
- Share contact details of Team Leads and Project Manager from company.

STAGE 2: VULNERABILITY DETECTION

- WHITE BOX TESTING ☐
- BLACK BOX TESTING ☐
- GREY BOX TESTING ☒

STAGE 3: APPLICATION SECURITY ASSESSMENT

- Assess the security of the selected applications, focusing on remotely exploitable vulnerabilities, application security architecture, design and implementation.
- Assess the controls with respect to user access, privilege levels, development and delivery, and overall design of the applications

STAGE 4: REPORTING AND KNOWLEDGE TRANSFER

- Submit the final and detailed set of reports with in-depth information to fix the vulnerabilities and an efficient and effective follow-up plan
- Conduct a knowledge transfer exercise to the technical team
- Present the findings to the technical and management teams
- Hand over final set of deliverables to the client

4. Standards

OWASP: The OWASP web application security testing methodology and explains how to test for evidence of vulnerabilities within the application due to deficiencies with identified security controls.

The test is divided into 2 phases:

Phase 1 Passive mode:

In the passive mode the tester tries to understand the application's logic and plays with the application.

Phase 2 Active mode:

- Information Gathering
- Configuration and Deployment Management Testing
- Identity Management Testing
- Authentication Testing
- Authorization Testing
- Session Management Testing
- Input Validation Testing
- Error Handling
- Cryptography
- Business Logic Testing
- Client-Side Testing

OWASP TOP 10 Vulnerabilities



- **A01:2021-Broken Access Control:**
Access control enforces policy such that users cannot act outside of their intended permissions. Failures typically lead to unauthorized information disclosure, modification, or destruction of all data or performing a business function outside the user's limits.
- **A02:2021-Cryptographic Failures:**
The protection needs of data in transit and at rest. For example, passwords, credit card numbers, health records, personal information, and business secrets require extra protection, mainly if that data falls under privacy laws, e.g., EU's General Data Protection Regulation (GDPR), or regulations, e.g., financial data protection such as PCI Data Security Standard (PCI DSS)
- **A03:2021-Injection:**
Common injections are SQL, NoSQL, OS command, Object Relational Mapping (ORM), LDAP, and Expression Language (EL) or Object Graph Navigation Library (OGNL) injection. The concept is identical among all interpreters.

- **A04:2021-Insecure Design:**

A secure design can still have implementation defects leading to vulnerabilities that may be exploited. An insecure design cannot be fixed by a perfect implementation as by definition, needed security controls were never created to defend against specific attacks.

- **A05:2021-Security Misconfiguration:**

Missing appropriate security hardening across any part of the application stack or improperly configured permissions on cloud services. Unnecessary features are enabled or installed (e.g., unnecessary ports, services, pages, accounts, or privileges). Default accounts and their passwords are still enabled and unchanged. Server does not send security headers or directives, or they are not set to secure values. The software is out of date or vulnerable.

- **A06:2021-Vulnerable and Outdated Components:**

Versions of all components you use (both client-side and server-side). This includes components you directly use as well as nested dependencies. the software is vulnerable, unsupported, or out of date. This includes the OS, web/application server, database management system (DBMS), applications, APIs and all components, runtime environments, and libraries.

- **A07:2021-Identification and Authentication Failures:**

Confirmation of the user's identity, authentication, and session management is critical to protect against authentication-related attacks. Using weak or ineffective credential recovery and forgot-password processes, such as "knowledge-based answers". Permitting brute force or other automated attacks. Permitting default, weak, or well-known passwords, such as "Password1" or "admin/admin".

- **A08:2021-Software and Data Integrity Failures:**

Software and data integrity failures relate to code and infrastructure that does not protect against integrity violations. An example of this is where an application relies upon plugins, libraries, or modules from untrusted sources, repositories, and content delivery networks (CDNs). An insecure CI/CD pipeline can introduce the potential for unauthorized access, malicious code, or system compromise.

- **A09:2021-Security Logging and Monitoring Failures:**

This category is to help detect, escalate, and respond to active breaches. Without logging and monitoring, breaches cannot be detected. Insufficient logging, detection, monitoring, and active response occurs any time: Appropriate alerting thresholds and response escalation processes are not in place or effective, Auditable events, such as logins, failed logins, and high-value transactions, are not logged. Warnings and errors generate no, inadequate, or unclear log messages. Logs of applications and APIs are not monitored for suspicious activity.

- **A10:2021-Server-Side Request Forgery:**

SSRF flaws occur whenever a web application is fetching a remote resource without validating the user-supplied URL. It allows an attacker to coerce the application to send a crafted request to an unexpected destination, even when protected by a firewall, VPN, or another type of network access control list (ACL).

5. Ratings

The table below gives a key to the risk naming and colours used throughout this report to provide a clear and concise risk scoring system.

It should be noted that quantifying the overall business risk posed by any of the issues found in any test is outside our scope. This means that some risks may be reported as high from a technical perspective but may, as a result of other controls unknown to us, be considered acceptable by the business.

S No.	Risk Rating	Description
1	Critical	A vulnerability was discovered that has been rated as critical. This requires resolution as quickly as possible.
2	High	A vulnerability was discovered that has been rated as high. This requires resolution in a short term.
3	Medium	A vulnerability was discovered that has been rated as medium. This should be resolved throughout the ongoing maintenance process.
4	Low	A vulnerability was discovered that has been rated as low. This should be addressed as part of routine maintenance tasks.

6. Findings Summary

All the issues identified during the assessment are listed below with a brief description and risk rating for each issue. The risk ratings used in this report are defined in Risk Ratings Section.

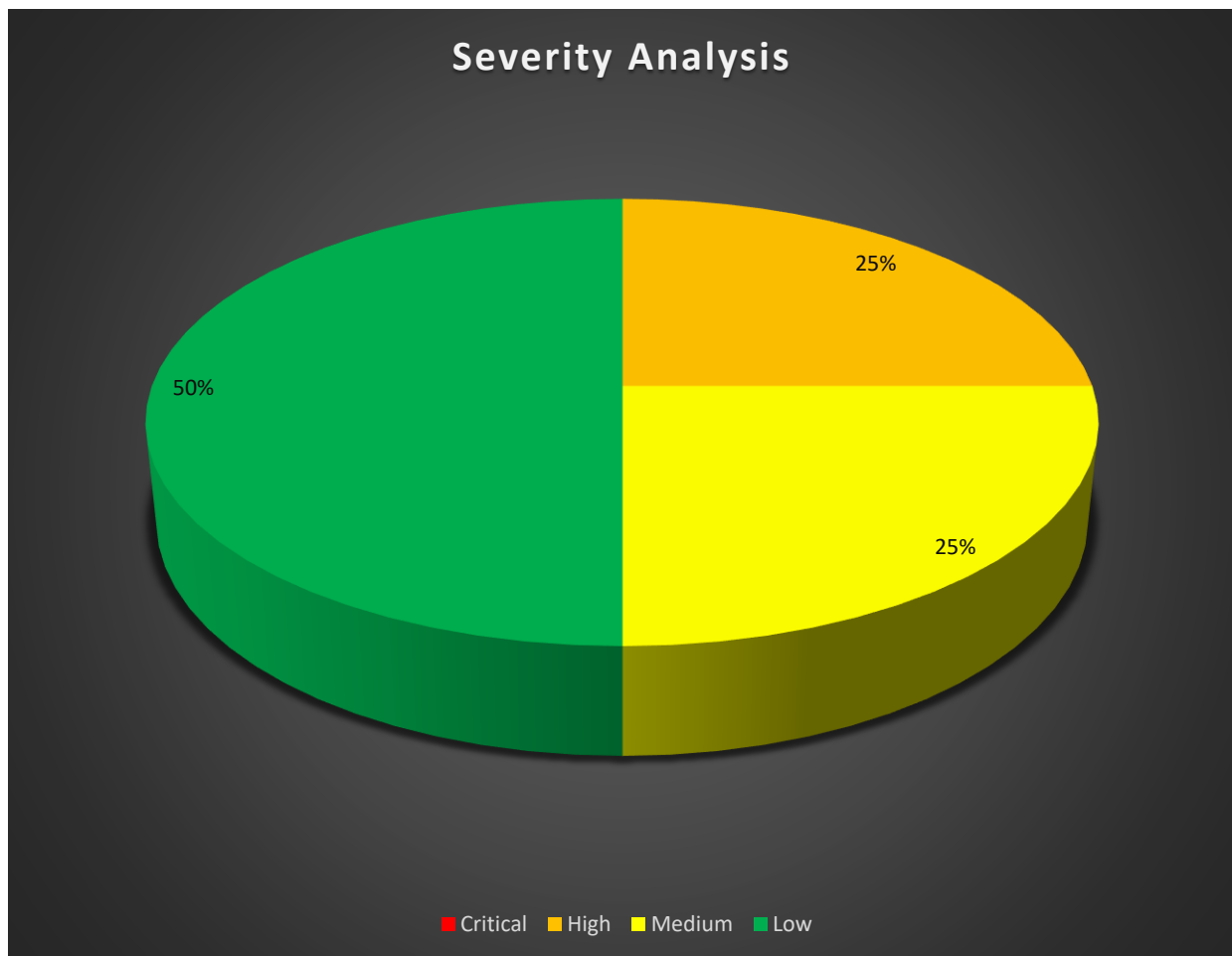
URL	Vulnerabilities	Severity	Status
https://gazeteer.onlinesystems.link/	Broken Access Control	High	Open
https://gazeteer.onlinesystems.link/	Anonymous/Weak Ciphers Supported	Medium	Closed*
https://gazeteer.onlinesystems.link/	Unsupported Version (Bootstrap)	Medium	Closed*
https://gazeteer.onlinesystems.link/	No Rate Limiting	Medium	Open
https://gazeteer.onlinesystems.link/	Out-of-date Version (jQuery)	Low	Closed*
https://gazeteer.onlinesystems.link/	Out-of-date Version (Bootstrap)	Low	Closed
https://gazeteer.onlinesystems.link/	Server Banner Grabbing	Low	Open
https://gazeteer.onlinesystems.link/	Server Leaks Information via "X-Powered-By"	Low	Open
https://gazeteer.onlinesystems.link/	Cookies Without SameSite Flag Detected	Low	Closed
https://gazeteer.onlinesystems.link/	Cookie Not Flagged 'Secure'	Low	Closed
https://gazeteer.onlinesystems.link/	Cookie Without HttpOnly Flag Set	Low	Closed

*As Per Client

6.1 Overall Finding Summary

Severity Level	Counts of Vulnerability
Critical Level	0
High Level	1
Medium Level	1
Low Level	2
Total	4

6.2 Overall Severity



7. Detailed Findings

7.1 Broken Access Control

Affected URL : https://gazeteer.onlinesystems.link/app/writereaddata/uploadedCirculars/C_202307101516458941.pdf
https://gazeteer.onlinesystems.link/app/writereaddata/UploadedPressRelease/pdf/C_202308031213264148.jpg
https://gazeteer.onlinesystems.link/app/writereaddata/uploadedCirculars/C_orrigendum/pdf/C_202308031221186107.pdf

Severity : **High**

CVE/CWE ID : CWE-284

Description : Application does not restrict or incorrectly restricts access to a resource from an unauthorized user.

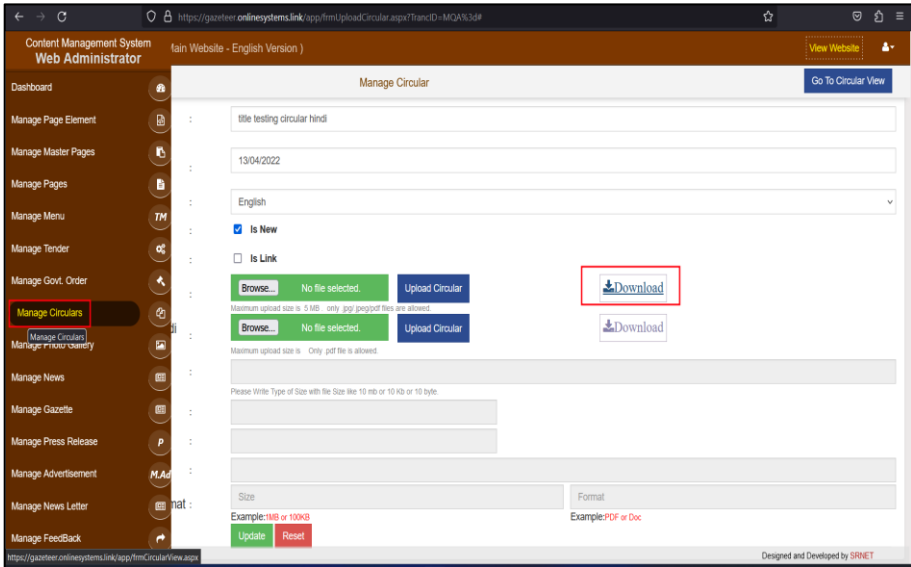
Impact : Anonymous user can access private functions that aren't protected by just copying the URL.

Recommendation :

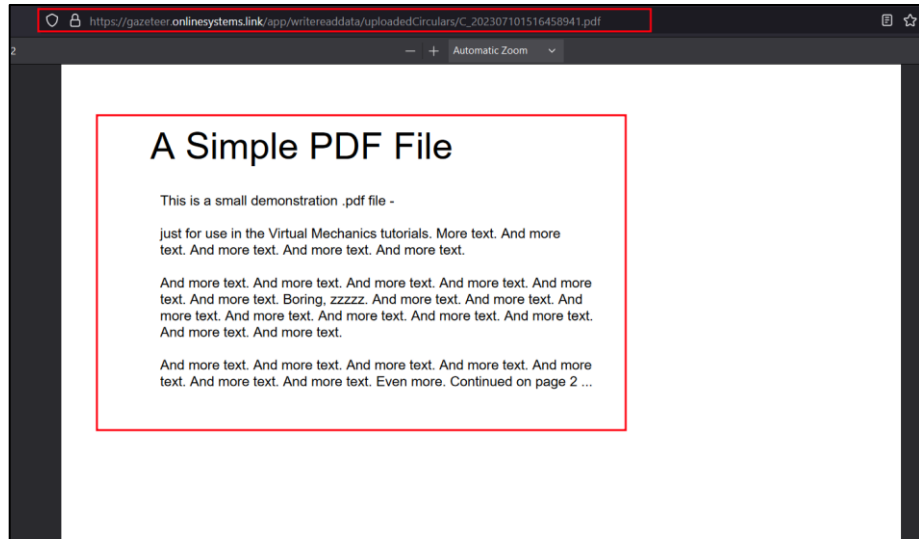
- The authentication mechanism should deny all access by default and provide access to specific roles for every function.
- In a workflow-based application, verify the users' state before allowing them to access any resources.

Note: Fix this issue throughout the application.

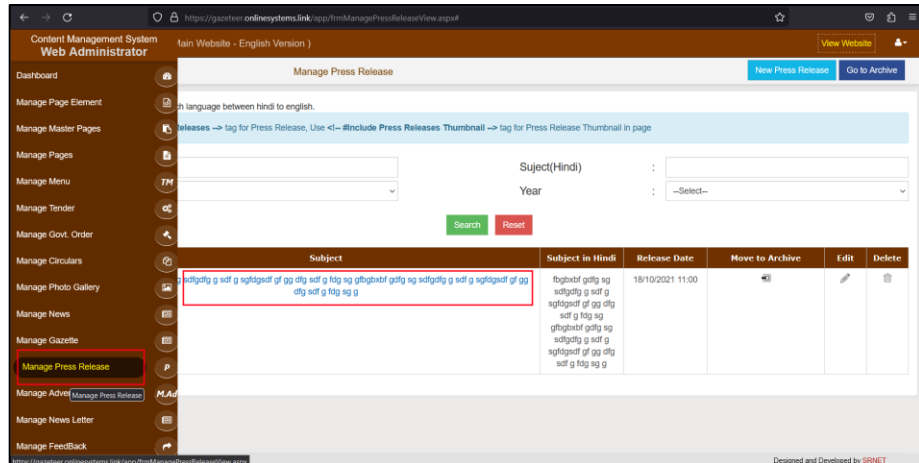
Reference :



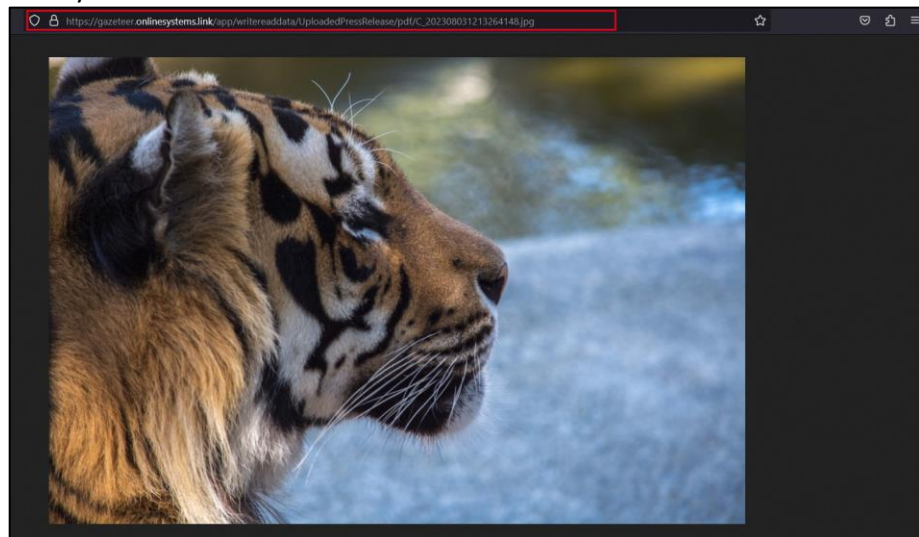
Click on download, the file will open in new tab. Copy Url and paste it on any browser.

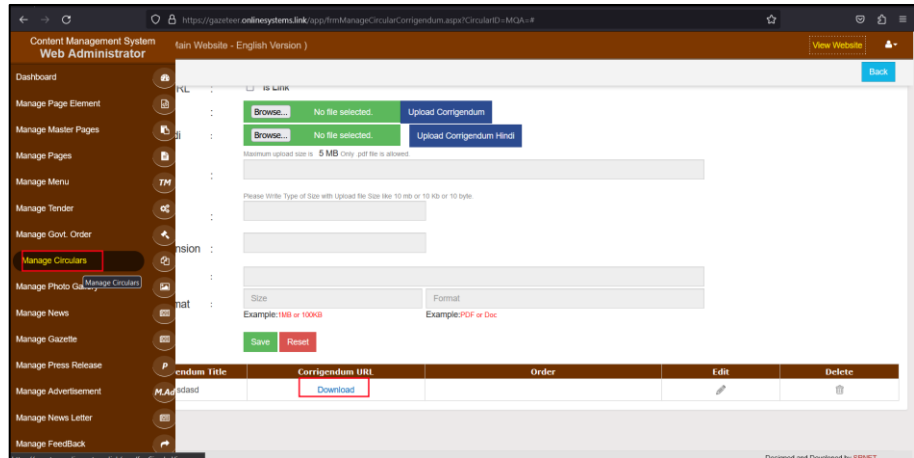


Reference (R2) :

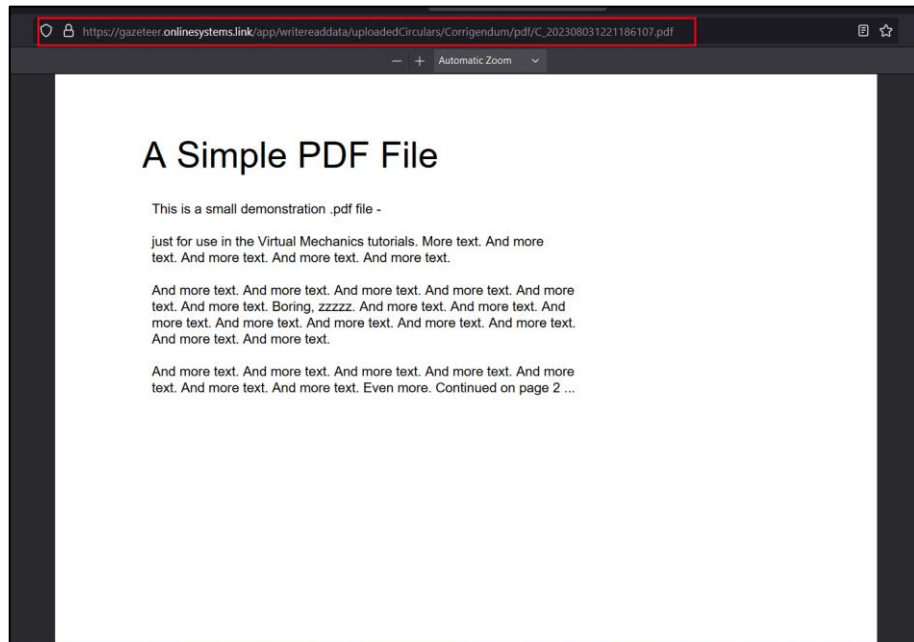


Click on highlighted url, the file will open in new tab. Copy Url and paste it on any browser.

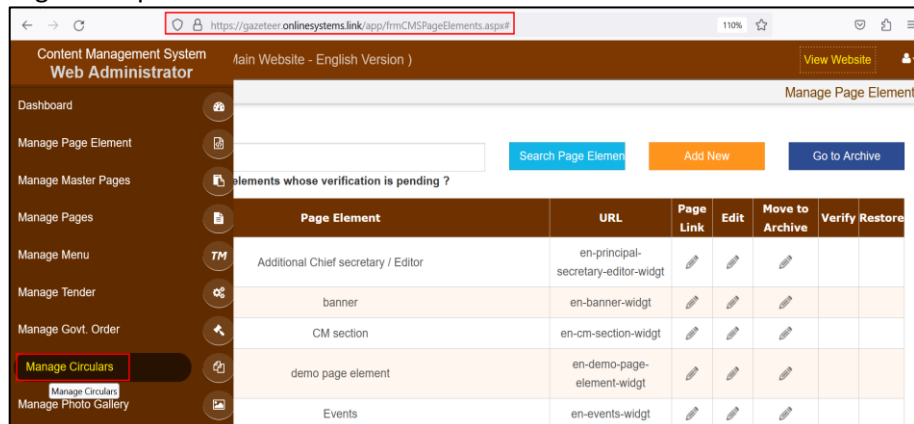




Click on Download, the file will open in new tab. Copy Url and paste it on any browser.



Reference(R3) : Login with provided credentials.



<https://gazeteer.onlinesystems.link/app/fmCircularView.aspx#>

Welcome webuser1 (Main Website - English Version)

View Circular Details

S.No	Circular Name	Circular Subject	Circular Date	Move to Archive	Edit	Delete	Manage Description
1	testing123456	testing circular english	13/4/2022 00:00				

First browse a pdf file then click on download.

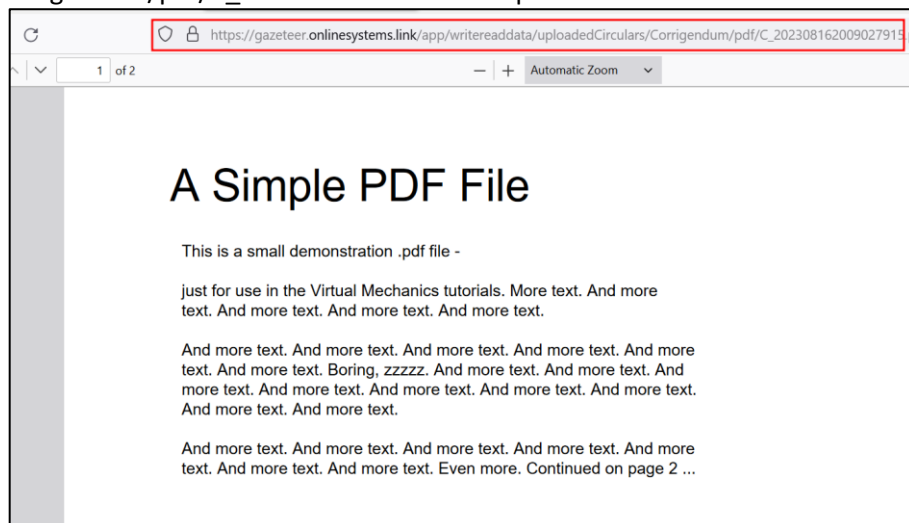
The screenshot shows the 'Manage Description' page in the CMS. The page has a dark blue header with the CMS logo and a welcome message. The main content area is white and contains a form for adding a new description. The form has the following fields and buttons:

- Corrigendum Title :** A text input field.
- Corrigendum Title(Hindi) :** A text input field.
- File Language :** A dropdown menu with '--Select--' as the selected option.
- Corrigendum Link or URL :** A checkbox labeled 'Is Link'.
- Corrigendum Upload :** A section containing a 'Browse...' button, the text 'No file selected.', an 'Upload Corrigendum' button, and a 'Download' button. A red arrow points to the 'Download' button.
- Upload Circular in Hindi :** A section containing a 'Browse...' button, the text 'No file selected.', and an 'Upload Corrigendum Hindi' button.

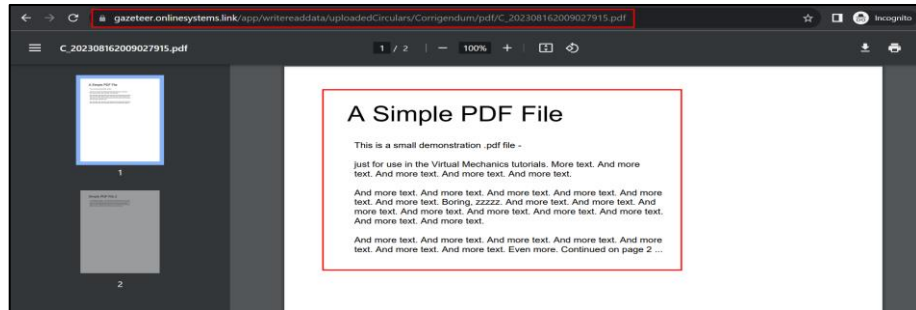
At the bottom of the page, there is a note: 'Maximum upload size is 5 MB Only .pdf file is allowed.'

It will open the uploaded pdf file in new tab.Copy this URL

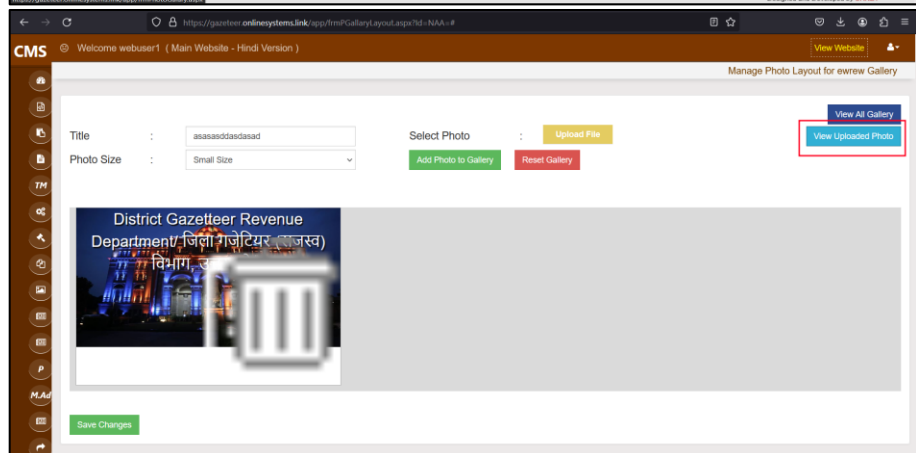
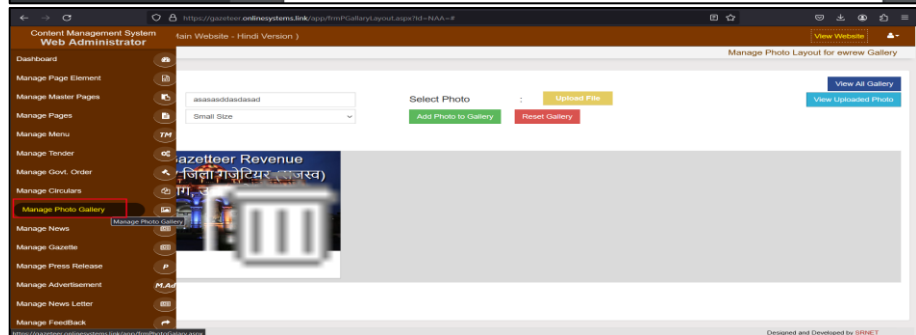
https://gazeteer.onlinesystems.link/app/writereaddata/uploadedCirculars/Corrigendum/pdf/C_202308162009027915.pdf



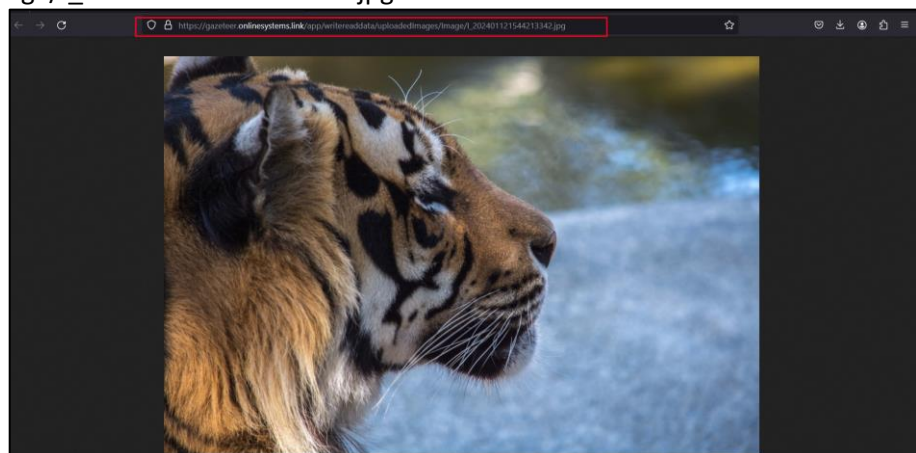
Now paste the copied URL in any browser and we can see the uploaded file directly without any authentication.



Reference(R4)



https://gazeteer.onlinesystems.link/app/writereaddata/uploadedImages/Image/I_202401121544213342.jpg



Copy URL and paste it on any browser. Able to access image without authentication.

7.2 Anonymous/Weak Ciphers Supported

Affected URL : <https://gazeteer.onlinesystems.link>

Severity : **Medium**

CVE/CWE ID : CVE-2007-1858

Description : Identified that anonymous ciphers is supported during secure communication (SSL). You should allow only strong ciphers on your web server to protect your secure communication with your visitors.

Impact : Attackers can perform man-in-the middle attacks and observe the encrypted traffic between your website and your visitors.

Recommendation : Configure your web server to disallow using anonymous ciphers. For Microsoft IIS, you should make some changes to the system registry. Incorrectly editing the registry may severely damage your system. Before making changes to the registry, you should back up any valued data on your computer.

a. Click Start, click Run, type regedt32 or type regedit, and then click OK.

b. In Registry Editor, locate the following registry key:

HKLM\SYSTEM\CurrentControlSet\Control\SecurityProviders

c. Set "Enabled" DWORD to "0x0" for the following registry keys:

SCHANNEL\Ciphers\DES 56/56

SCHANNEL\Ciphers\RC4 64/128

SCHANNEL\Ciphers\RC4 40/128

SCHANNEL\Ciphers\RC2 56/128

SCHANNEL\Ciphers\RC2 40/128

SCHANNEL\Ciphers\NULL

SCHANNEL\Hashes\MD5

https://cheatsheetseries.owasp.org/cheatsheets/Transport_Layer_Protection_Cheat_Sheet.html

Reference :

# TLS 1.2 (suites in server-preferred order)			
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030)	ECDH secp384r1 (eq. 7680 bits RSA)	FS	256
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)	ECDH x25519 (eq. 3072 bits RSA)	FS	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028)	ECDH secp384r1 (eq. 7680 bits RSA)	FS	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027)	ECDH x25519 (eq. 3072 bits RSA)	FS	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014)	ECDH secp384r1 (eq. 7680 bits RSA)	FS	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013)	ECDH x25519 (eq. 3072 bits RSA)	FS	128
TLS_RSA_WITH_AES_256_GCM_SHA384 (0xc030)		WEAK	256
TLS_RSA_WITH_AES_128_GCM_SHA256 (0xc03c)		WEAK	128
TLS_RSA_WITH_AES_256_CBC_SHA256 (0xc03d)		WEAK	256
TLS_RSA_WITH_AES_128_CBC_SHA256 (0xc03e)		WEAK	128
TLS_RSA_WITH_AES_256_CBC_SHA (0xc035)		WEAK	256
TLS_RSA_WITH_AES_128_CBC_SHA (0xc03f)		WEAK	128
TLS_RSA_WITH_3DES_EDE_CBC_SHA (0xc02a)		WEAK	112

Reference (R2)

ssllabs.com/ssltest/analyze.html?d=gazeteer.onlinesystems.link



Protocols

TLS 1.3	No
TLS 1.2	Yes
TLS 1.1	No
TLS 1.0	No
SSL 3	No
SSL 2	No

(*) Experimental: Server negotiated using No-SNI



Cipher Suites

TLS 1.2 (suites in server-preferred order)

TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030)	ECDH secp384r1 (eq. 7680 bits RSA)	FS	256
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)	ECDH x25519 (eq. 3072 bits RSA)	FS	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028)	ECDH secp384r1 (eq. 7680 bits RSA)	FS	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027)	ECDH x25519 (eq. 3072 bits RSA)	FS	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014)	ECDH secp384r1 (eq. 7680 bits RSA)	FS	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013)	ECDH x25519 (eq. 3072 bits RSA)	FS	128
TLS_RSA_WITH_AES_256_GCM_SHA384 (0x30d)		WEAK	256
TLS_RSA_WITH_AES_128_GCM_SHA256 (0x30c)		WEAK	128
TLS_RSA_WITH_AES_256_CBC_SHA256 (0x30d)		WEAK	256
TLS_RSA_WITH_AES_128_CBC_SHA256 (0x30c)		WEAK	128
TLS_RSA_WITH_AES_256_CBC_SHA (0x35)		WEAK	256
TLS_RSA_WITH_AES_128_CBC_SHA (0x2f)		WEAK	128
TLS_RSA_WITH_3DES_EDE_CBC_SHA (0x2a)		WEAK	112

Reference(R3)

ssllabs.com/ssltest/analyze.html?d=gazeteer.onlinesystems.link

Cipher Suites

TLS 1.2 (suites in server-preferred order)

TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030)	ECDH secp384r1 (eq. 7680 bits RSA)	FS	256
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)	ECDH x25519 (eq. 3072 bits RSA)	FS	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028)	ECDH secp384r1 (eq. 7680 bits RSA)	FS	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027)	ECDH x25519 (eq. 3072 bits RSA)	FS	128
TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014)	ECDH secp384r1 (eq. 7680 bits RSA)	FS	256
TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013)	ECDH x25519 (eq. 3072 bits RSA)	FS	128
TLS_RSA_WITH_AES_256_GCM_SHA384 (0x30d)	WEAK		256
TLS_RSA_WITH_AES_128_GCM_SHA256 (0x30c)	WEAK		128
TLS_RSA_WITH_AES_256_CBC_SHA256 (0x30d)	WEAK		256
TLS_RSA_WITH_AES_128_CBC_SHA256 (0x30c)	WEAK		128
TLS_RSA_WITH_AES_256_CBC_SHA (0x35)	WEAK		256
TLS_RSA_WITH_AES_128_CBC_SHA (0x2f)	WEAK		128
TLS_RSA_WITH_3DES_EDE_CBC_SHA (0x2a)	WEAK		112

Reference(R4)

Closed*

7.3 Unsupported Version (Bootstrap)

Affected URL : <https://gazeteer.onlinesystems.link/js/bootstrap.min.js>

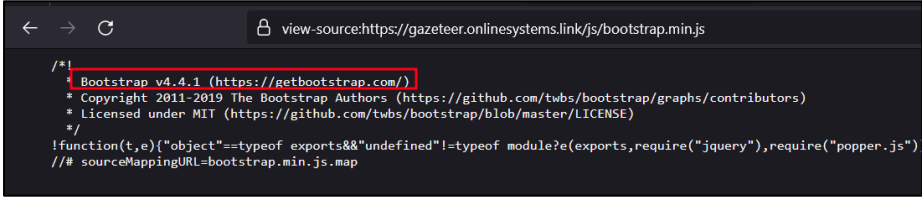
Severity : **Medium**

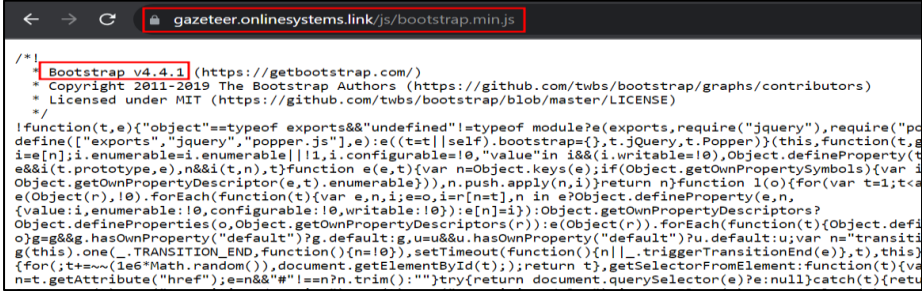
CVE/CWE ID : CVE-2021-23472

Description : Bootstrap is a free and open-source CSS framework directed at responsive, front-end web development. It contains CSS and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

Impact : Impact may be varying according to the vulnerability present on currently installed Bootstrap version.

Recommendation : Upgrade to the latest version of the Bootstrap.

Reference (R2) : 

Reference(R3) : 

Reference(R4) : Closed*

7.4 No Rate Limiting

Affected URL : <https://gazeteer.onlinesystems.link/en/feedback?cd=NgAZAA%3D%3D>
<https://gazeteer.onlinesystems.link/app/frmForgetPwd.aspx>

Severity : **Medium**

CVE/CWE ID : CWE-770

Description : Rate limiting is used to control the rate of traffic sent or received by a network interface controller and is used to prevent DoS attacks.

Impact : No rate limit means there is no mechanism to protect against the requests you made in a short frame of time.

Recommendation : Limit the rate for reset links/opt to avoid such kind of issues.

Note: Fix this issue throughout the application.

 <https://gazeteeer.onlinesystems.link/app/frmForgetPwd.aspx>



District Gazetteeer (Revenue) Department
Government of Uttar Pradesh

Forgot Password

OR



[Back to Login](#)

Attack Save Columns 3: Intruder attack of https://gazeteer.onlinesystems.link - temporary attack - Not saved to project file

Results Positions Payloads Resource pool Settings

Filter: Showing all items

Seq.	Method	URL	Status code	Error	Timeout	Length	Comment
14	GET	https://gazeteer.onlinesystems.link/feedback?cd=NqAzAA%3D%3D	200			12951	
15	GET	https://gazeteer.onlinesystems.link/feedback?cd=NqAzAA%3D%3D	200			12951	
16	GET	https://gazeteer.onlinesystems.link/feedback?cd=NqAzAA%3D%3D	200			12951	
17	GET	https://gazeteer.onlinesystems.link/feedback?cd=NqAzAA%3D%3D	200			12951	
18	GET	https://gazeteer.onlinesystems.link/feedback?cd=NqAzAA%3D%3D	200			12951	
19	GET	https://gazeteer.onlinesystems.link/feedback?cd=NqAzAA%3D%3D	200			12951	
20	GET	https://gazeteer.onlinesystems.link/feedback?cd=NqAzAA%3D%3D	200			12951	

Request Response

Pretty Raw Hex Render

```

214 ContentPlaceHolderBody_FooterMobileNumber.errorMessage = "Invalid Data";
215 ContentPlaceHolderBody_FooterMobileNumber.display = "Dynamic";
216 ContentPlaceHolderBody_FooterMobileNumber.validationExpression = "RegularExpressionValidatorEvaluateIsValid";
217 ContentPlaceHolderBody_FooterMobileNumber.validationExpression = "[0-9]*";
218 //]]>
219 </script>
220
221 <script type="text/javascript">
222 //
223 //]]&gt;
224 //]]&gt;
225 //]]&gt;
226 //]]&gt;
227 //]]&gt;
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<p>Request: GET https://gazeteer.onlinesystems.link/feedback?cd=NqAzAA%3D%3D</p>
<p>Response: 200 OK</p>
<p>4 matches</p>
</div>
<div data-bbox="121 319 234 337" data-label="Text">
<p>Reference(R3)</p>
</div>
<div data-bbox="308 317 865 512" data-label="Form">
<img alt="Screenshot of the feedback form on the website. The form contains fields for Email Id, Postal Address, Country, State, City, Mobile No., and Comments/Suggestion. A red arrow points to the Submit button."/>
<p>https://gazeteer.onlinesystems.link/en/feedback?cd=NqAzAA%3D%3D</p>
<p>Email Id: * rajat3@mqasglobal.com</p>
<p>Postal Address: * asdfgtgy</p>
<p>Country: * India</p>
<p>State: * Chandigarh</p>
<p>City: * Chandigarh</p>
<p>Mobile No.: * 9149003245</p>
<p>Comments/Suggestion: * Security testing</p>
<p>HSHQXL</p>
<p>Submit Reset</p>
</div>
<div data-bbox="308 512 865 708" data-label="Complex-Block">
<img alt="Screenshot of the feedback form submission success message. The message states: 'Your feedback has been successfully submitted and will be processed within 15 days.'"/>
<p>Request: GET https://gazeteer.onlinesystems.link/feedback?cd=NqAzAA%3D%3D</p>
<p>Response: 200 OK</p>
<p>Feedback</p>
<p>Home / Contact Us / Feedback</p>
<p>Your feedback has been successfully submitted and will be processed within 15 days.</p>
<p>Complete the below form to send us your comments and feedback on the website. Your opinion, suggestions and feedback will be very much appreciated. If you provide us with your contact information, we will be able to answer your questions.</p>
</div>
<div data-bbox="308 708 865 866" data-label="Form">
<img alt="Screenshot of the feedback form submission success message. The message states: 'Your feedback has been successfully submitted and will be processed within 15 days.'"/>
<p>https://gazeteer.onlinesystems.link/en/feedback?cd=NqAzAA%3D%3D</p>
<p>Feedback</p>
<p>Home / Contact Us / Feedback</p>
<p>Your feedback has been successfully submitted and will be processed within 15 days.</p>
<p>Complete the below form to send us your comments and feedback on the website. Your opinion, suggestions and feedback will be very much appreciated. If you provide us with your contact information, we will be able to answer your questions.</p>
<p>Name: * Enter your name</p>
</div>
<div data-bbox="121 869 234 887" data-label="Text">
<p>Reference(R4)</p>
</div>
<div data-bbox="308 869 817 906" data-label="Text">
<p>: Feedback form is not working properly. Not able to verify bugs. Open</p>
</div>
<div data-bbox="111 935 281 953" data-label="Page-Footer">
<p>www.mqasglobal.com</p>
</div>
<div data-bbox="448 935 546 952" data-label="Page-Footer">
<p>Confidential</p>
</div>
<div data-bbox="774 935 889 953" data-label="Page-Footer">
<p>Page 19 of 27</p>
</div>
```

7.5 Out-of-date Version (jQuery)

Affected URL : <https://gazeteer.onlinesystems.link/>

Severity : **Low**

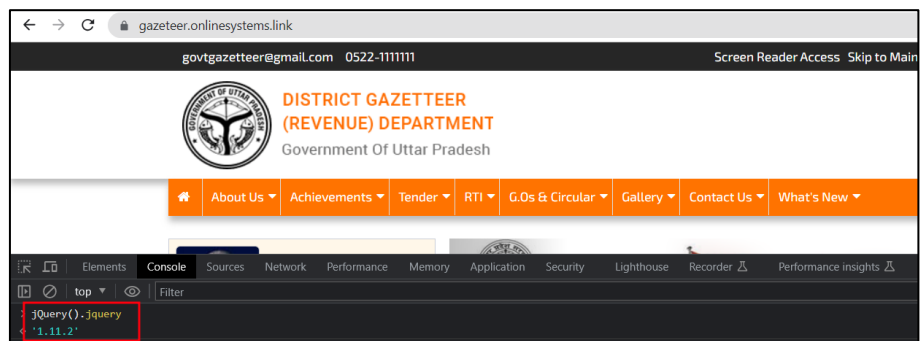
CVE/CWE ID : CWE-672

Description : jQuery is a package that makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers.

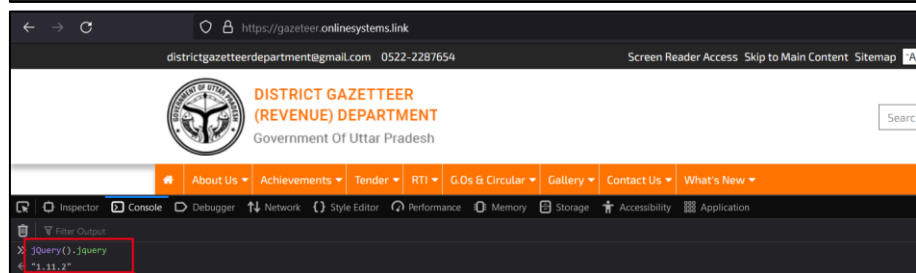
Impact : Affected version is vulnerable to Cross-site Scripting (XSS) attacks when a cross-domain Ajax request is performed without the datatype option, causing text/JavaScript responses to be executed.

Recommendation : Upgrade jQuery to latest stable version.

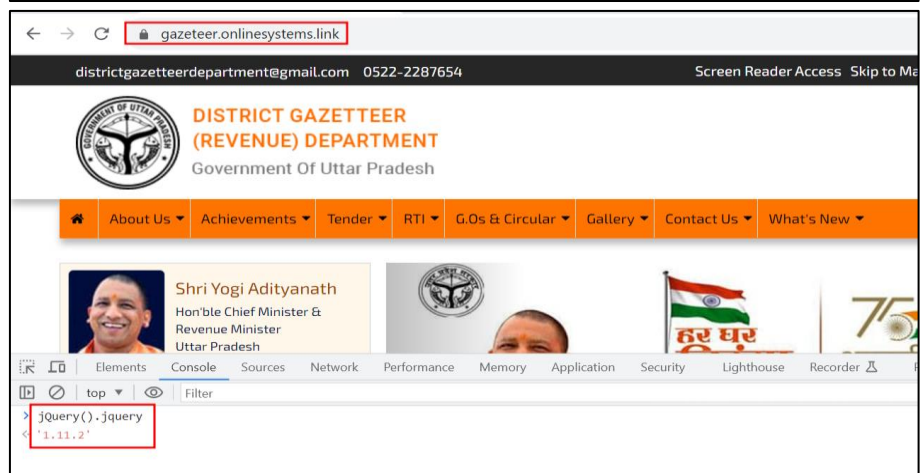
Reference :



Reference (R2) :



Reference(R3) :



Reference(R4) : Closed*

7.6 Out-of-date Version (Bootstrap)

Affected URL : <https://gazeteer.onlinesystems.link/js/bootstrap.min.js>

Severity : **Low**

CVE/CWE ID : CWE-672, CWE-937

Description : Bootstrap is a free and open-source CSS framework directed at responsive, front-end web development. It contains CSS and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

Impact : Impact may be varying according to the vulnerability present on currently installed Bootstrap version.

Recommendation : Upgrade to the latest version of the Bootstrap.

Reference :

7.7 Server Banner Grabbing

Affected URL : <https://gazeteer.onlinesystems.link>

Severity : **Low**

CVE/CWE ID : CWE-200

Description : Banner grabbing is a technique used to remotely glean information about the web server (version, underlying OS, vendor etc.).

Impact : By identifying the HTTP server, the attacker can determine known vulnerabilities related to the web server and the appropriate exploits for the same.

Recommendation : It is recommended to disable the banner and upgrade the latest version. The web server should be hardened according to industry best practices and configured appropriately

- Reference** :
1. Intercept the response from the server using intercepting proxy tool like Burp.
 2. Notice the Server name is observed in the Response.

<pre>DEBUG / HTTP/2 Host: gazeteer.onlinesystems.link Command: stop-debug Cookie: ASP.NET_SessionId=04tmapg0p40nkydcdwrt0y4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/114.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Upgrade-Insecure-Requests: 1 Sec-Fetch-Dest: document Sec-Fetch-Mode: navigate Sec-Fetch-Site: none Sec-Fetch-User: ?1 Te: trailers</pre>	<pre>1 HTTP/2 404 Not Found 2 Content-Type: text/html 3 Server: Microsoft-IIS/10.0 4 X-Powered-By: NA 5 Server: NA 6 X-Frame-Options: SAMEORIGIN 7 Strict-Transport-Security: max-age=31536000; includeSubDomains; preload 8 X-Xss-Protection: 1; mode=block 9 X-Content-Type-Options: nosniff 10 Date: Mon, 10 Jul 2023 04:47:39 GMT 11 Content-Length: 1886 12 13 <!DOCTYPE html> 14 <html> 15 <head> 16 <meta charset="utf-8" /> 17 <title>Error</title> 18 <style></pre>
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Reference (R2) :

<pre>DEBUG / HTTP/2 Host: gazeteer.onlinesystems.link Command: stop-debug Cookie: ASP.NET_SessionId=4qilfrighqjuig53wonj2rc User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/116.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Upgrade-Insecure-Requests: 1 Sec-Fetch-Dest: document Sec-Fetch-Mode: navigate Sec-Fetch-Site: none Sec-Fetch-User: ?1 Te: trailers</pre>	<pre>1 HTTP/2 404 Not Found 2 Content-Type: text/html 3 Server: Microsoft-IIS/10.0 4 X-Powered-By: NA 5 Server: NA 6 X-Frame-Options: SAMEORIGIN 7 Strict-Transport-Security: max-age=31536000; includeSubDomains; preload 8 X-Xss-Protection: 1; mode=block 9 X-Content-Type-Options: nosniff 10 Date: Thu, 03 Aug 2023 06:11:38 GMT 11 Content-Length: 1886 12 13 <!DOCTYPE html> 14 <html> 15 <head> 16 <meta charset="utf-8" /> 17 <title> 18 Error 19 </title></pre>
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Reference(R3) :

<pre>1 DEBUG / HTTP/2 2 Host: gazeteer.onlinesystems.link 3 Command: stop-debug 4 Cookie: AuthToken=f31a869f-5e4a-4e56-a76d-a8e166daabd5; ASP.NET_SessionId=uqset3q5f5c1d2pkv40lb43z 5 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/116.0 6 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/ avif,image/webp,*/*;q=0.8 7 Accept-Language: en-US,en;q=0.5 8 Accept-Encoding: gzip, deflate 9 Dnt: 1 10 Upgrade-Insecure-Requests: 1 11 Sec-Fetch-Dest: document 12 Sec-Fetch-Mode: navigate 13 Sec-Fetch-Site: none 14 Sec-Fetch-User: ?1 15 Te: trailers</pre>	<pre>1 HTTP/2 404 Not Found 2 Content-Type: text/html 3 Server: Microsoft-IIS/10.0 4 X-Powered-By: NA 5 Server: NA 6 X-Frame-Options: SAMEORIGIN 7 Strict-Transport-Security: max-age=31536000; includeSubDomains; preload 8 X-Xss-Protection: 1; mode=block 9 X-Content-Type-Options: nosniff 10 Date: Wed, 16 Aug 2023 13:09:20 GMT 11 Content-Length: 1886 12 13 <!DOCTYPE html> 14 <html> 15 <head> 16 <meta charset="utf-8" /> 17 <title> 18 Error 19 </title> 20 <style> 21 html{ 22 box-sizing:border-box;</pre>
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Reference(R4) :

<pre>DEBUG / HTTP/2 Host: gazeteer.onlinesystems.link Command: stop-debug Cookie: ASP.NET_SessionId=ukhtjwdf3nsqjzrzxmgfxcv User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:121.0) Gecko/20100101 Firefox/121.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif, image/webp,*/*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate, br Upgrade-Insecure-Requests: 1 Sec-Fetch-Dest: document Sec-Fetch-Mode: navigate Sec-Fetch-Site: none Sec-Fetch-User: ?1 Te: trailers</pre>	<pre>1 HTTP/2 404 Not Found 2 Content-Type: text/html 3 Server: Microsoft-IIS/10.0 4 X-Powered-By: NA 5 Server: NA 6 X-Frame-Options: SAMEORIGIN 7 Strict-Transport-Security: max-age=31536000; includeSubDomains; preload 8 X-Xss-Protection: 1; mode=block 9 X-Content-Type-Options: nosniff 10 Date: Fri, 12 Jan 2024 09:05:00 GMT 11 Content-Length: 1886 12 13 <!DOCTYPE html> 14 <html> 15 <head> 16 <meta charset="utf-8" /> 17 <title> 18 Error 19 </title> 20 <style> 21 html{ 22 box-sizing:border-box;</pre>
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7.8 Server Leaks Information via "X-Powered-By"

Affected URL : <https://gazeteer.onlinesystems.link>

Severity : **Low**

CVE/CWE ID : CWE-200

Description : The most basic form of identifying a web framework is to look at the X-Powered-By field in the HTTP response header. Many tools can be used to fingerprint a target.

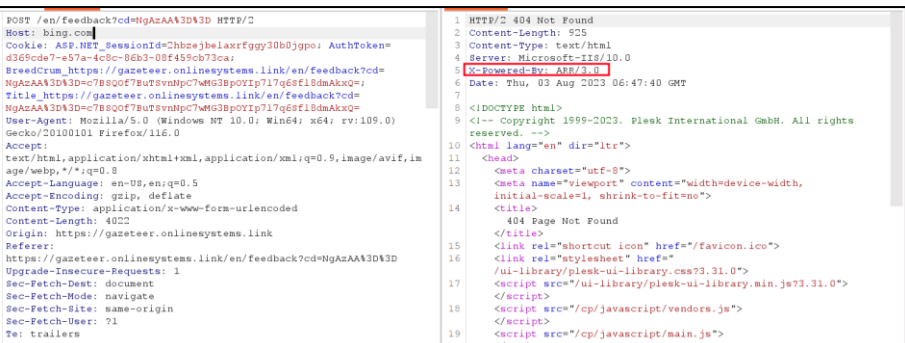
Impact : The web/application server is leaking information via one or more "X-Powered-By" HTTP response headers. Access to such information may facilitate attackers identifying other frameworks/components your web application is reliant upon and the vulnerabilities such components may be subject to.

Recommendation : Ensure that your web server, application server, load balancer, etc. is configured to suppress "X-Powered-By" headers.

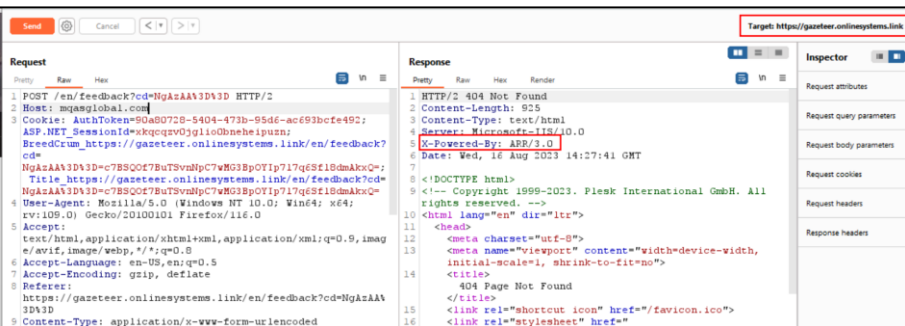
Reference :



Reference (R2) :

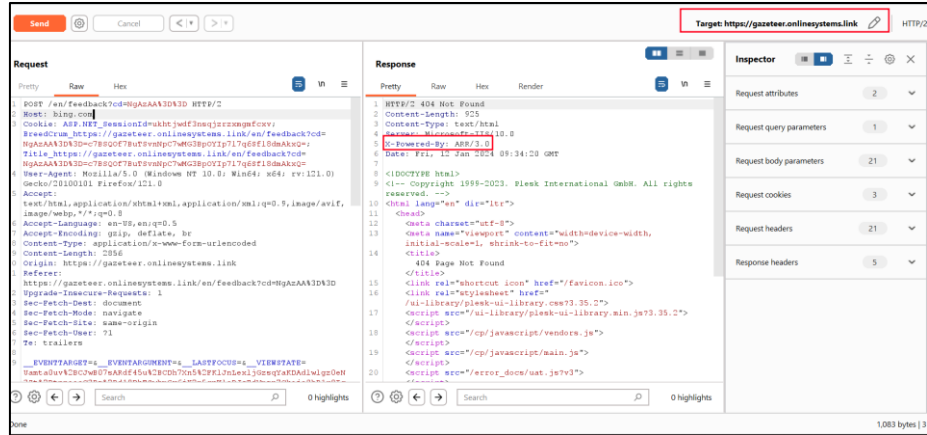


Reference(R3) :



Reference(R4)

:



7.9 Cookies Without SameSite Flag Detected

Affected URL : <https://gazeteer.onlinesystems.link/app/frmDashboardDetails.aspx#>

Severity : **Low**

CVE/CWE ID : CWE-614

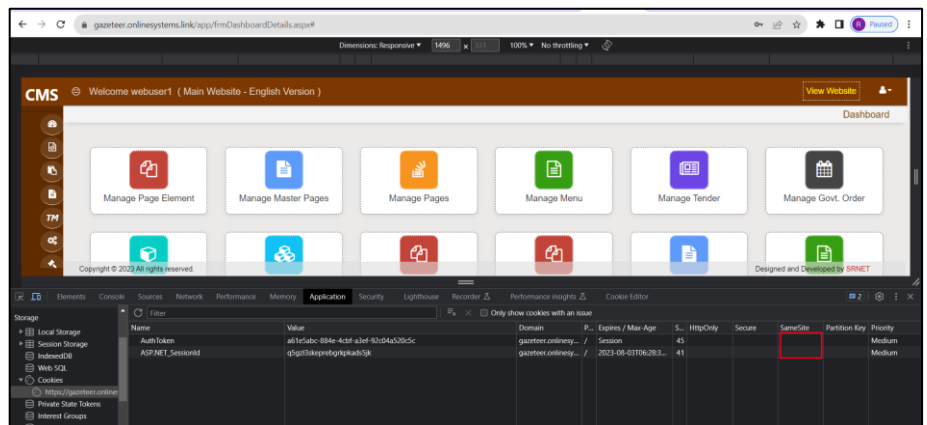
Description : The SameSite flag is not set on a cookie.

Impact : The browser will prevent it from being sent along with cross-site requests. This can help prevent Cross-Site Request Forgery (CSRF) attacks.

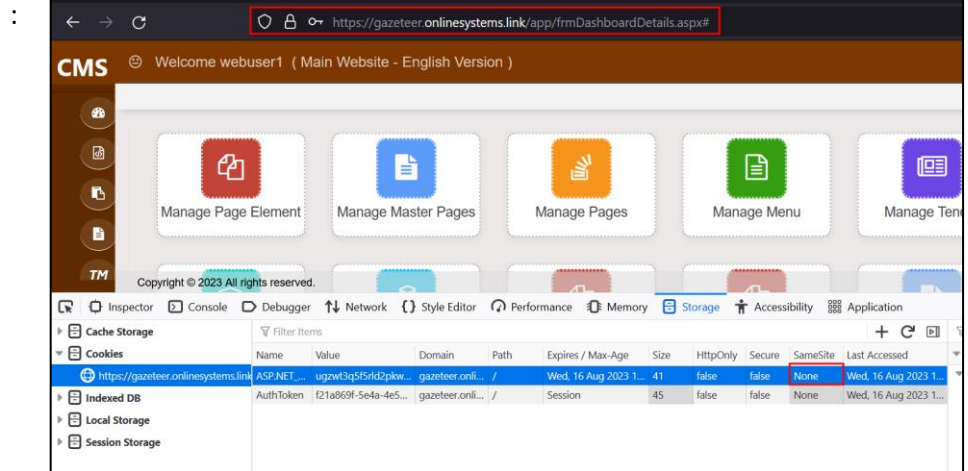
Recommendation : If the cookie contains sensitive information, then the server should ensure that the cookie has the SameSite flag set. This flag can have two values: strict or lax. With the strict value the cookie will only be sent if the request originates from the same website. With the lax value the cookie will only be sent for GET requests.

Reference (R2)

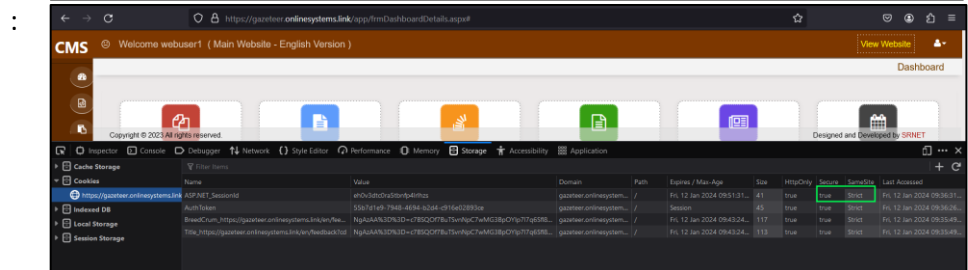
:



Reference(R3)



Reference(R4)



7.10 Cookie Not Flagged 'Secure'

Affected URL : <https://gazeteer.onlinesystems.link/app/frmDashboardDetails.aspx#>

Severity : **Low**

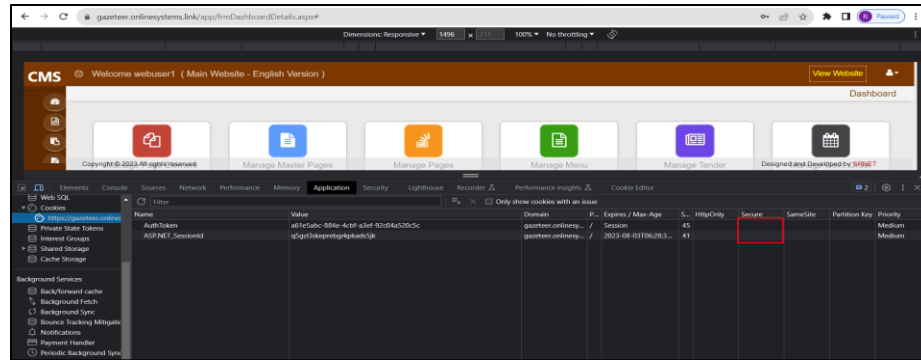
CVE/CWE ID : CWE-614

Description : It is found that cookie which passes sensitive information is not flagged as 'Secure'.
This cookie does not have the Secure flag set. When a cookie is set with the Secure flag, it instructs the browser that the cookie can only be accessed over secure SSL channels. This is an important security protection for session cookies.

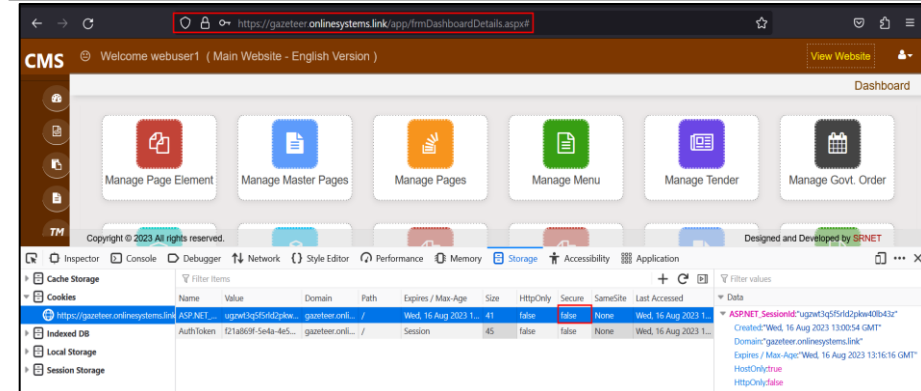
Impact : The hacker can observe the cookie if it is not set to 'Secure'.

Recommendation : It is strongly recommended to mark the cookie as 'Secure'.

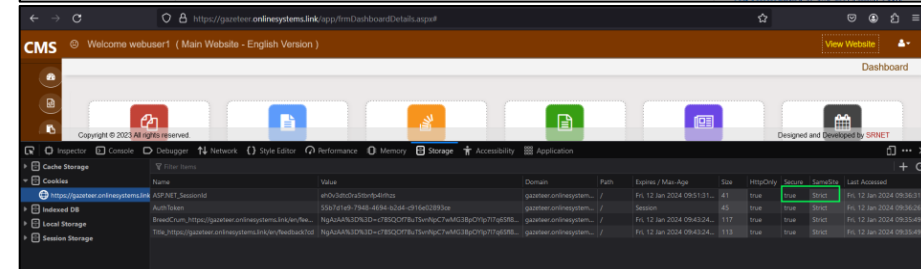
Reference (R2) : 1. Access the URL and capture the request via proxy or analyze cookie using browser tools.
2. Secure flag attribute is missing in cookie.



Reference(R3)



Reference(R4)



7.11 Cookie Without HttpOnly Flag Set

Affected URL : <https://gazeteer.onlinesystems.link/app/frmDashboardDetails.aspx#>

Severity : **Low**

CVE/CWE ID : CWE-614

Description : This cookie does not have the HTTPOnly flag set. The HttpOnly flag directs compatible browsers to prevent client-side script from accessing cookies. Including the HttpOnly flag in the Set-Cookie HTTP response header helps mitigate the risk associated with Cross-Site Scripting (XSS) where an attacker's script code might attempt to read the contents of a cookie and exfiltrate information obtained. When set, browsers that support the flag will not reveal the contents of the cookie to a third party via client-side script executed via XSS.

