Test URL https://164.100.140.203

Level-2

12<sup>th</sup> January 2024



# **AAA Technologies Ltd**

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The following key findings support our assessment of the weaknesses associated with the application:

S. No.	Vulnerability Description	Level-1	Level-2
1.	Session Hijacking Attack		Complied
2.	Dangerous Http Method Enabled		Complied
3.	Outdated version of jQuery		Complied
4.	Vulnerable version of Bootstrap		Complied
5.	SSL Certificate Date Expired		Complied
6.	Weak Ciphers Enabled		Not Complied
7.	Session Timeout Is Not Implemented		Complied
8.	Path Not Set in Cookie Attribute		Exception
9.	Web Server Information Disclosure		Not complied
10.	HSTS (HTTP Strict Transport Security) Misconfiguration		Complied
11.	Cross-Origin resource sharing Misconfiguration		Complied
12.	X-Frame Options Misconfiguration		Complied
13.	Audit Trail is not maintained		Complied
14.	Forbidden Resource		Complied
15. Insecure Transportation Security Protocol Supported (TLS 1.0)			Complied
16.	User Enumeration		Not Complied
17.	Multiple Browser Login		Complied
18.	E-Tag		Complied
19.	HTTP Security Header not implemented		Complied



S. No.	Vulnerability Description	Level-1	Level-2
20.	Improper input validation		Complied
21.	CAPTCHA not validate in server side		New
22.	Password reply attack is possible		New



# High



# 1. Session Hijacking Attack possible in the Application

/ulnerability Title: Session Hijacking Attack possible in the Application		
Risk	High	
Abstract	It was observed application is vulnerable to session hijacking attack.	
Ease of Exploitation	Easy	
Impact	An adversary can hijack the victim's session and steal sensitive information	
Recommendations	It is recommended to Introduce a token in the body of the request which is	
	random to every request (usually the Anti-CSRF token) and map the token	
	with the Session ID.	
Snapshot	Attached Below	
Affected Site	Throughout the application	
Status	Complied	



**Step#1**-Login into application using valid credentials and now intercept the internal page in burp suite. Now, copy the authenticated cookie and internal URL in notepad as shown below.

admin Contacts: 999999905 Email: test@gmail.com View Profile Recent Login Activity File Edit View https://cs.nev2.gov.in/Admin/Dashboard Cockie: ASP.NET_SessionId=1g31me2f13kms/malx3mBy/ Inttps://cs.nev2.gov.in/Admin/Dashboard Cockie: ASP.NET_SessionId=1g31me2f13kms/malx3mBy/ Inttps://cs.nev2.gov.in/Admin/Dashboard Cockie: ASP.NET_SessionId=1g31me2f13kms/malx3mBy/ Inttps://cs.nev2.gov.in/Admin/Dashboard Cockie: ASP.NET_SessionId=1g31me2f13kms/malx3mBy/ Inttps://cs.nev2.gov.in/Admin/Dashboard Inttps://cs.nev2.gov.in/Admin/Dashboard Cockie: ASP.NET_SessionId=1g31me2f13kms/malx3mBy/ Inttps://cs.nev2.gov.in/Admin/Dashboard Inttps://cs.nev2.gov.in/Admin/Dashboard Cockie: ASP.NET_SessionId=1g31me2f13kms/malx3mBy/ Inttps://cs.nev2.gov.in/Admin/Dashboard Inttps://cs.nev2.gov.in/Admin/Dashboard Cockie: ASP.NET_SessionId=1g31me2f13kms/malx3mBy/ Inttps://cs.nev2.gov.in/Admin/Dashboard Inttps://cs.nev2.gov.in/Admin/Dashboard Cockie: ASP.NET_SessionId=1g31me2f13kms/malx2mBy/ Inttps://cs.nev2.gov.in/Admin/Dashboard Inttps://cs.nev2.gov.in/Admin/Dashboard Cockie: ASP.NET_SessionId=1g31me2f13kms/malx2mBy/ Inttps://cs.nev2.gov.in/Admin/Dashboard Cockie: ASP.NET_SessionId=1g31me2f13kms/malx2mBy/ Inttps://cs.nev2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Inttps://cs.nev2.gov.in/Admin/Dashboard Inttps://cs.nev2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Inttps://cs.nev2.gov.in/Admin/Dashboard Inttps://cs.nev2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Inttps://cs.nev2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard Interv2.gov.in/Admin/Dashboard	→ X A Not secure   cn	is.neva.gov.in/Admin/Dashboard 🔠 🚖 🚺 🏚	🕒 : Repeater Sequencer Decoder Comparer Extender Project options User opt
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**Step#2**—Now, go to another browser and paste the internal URL and intercept the request in burp suite. Now, paste the authenticated cookie as shown below and forward the request in burp suite.

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**Step#3** -Now, you can clearly see attacker can login with session ID.

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Error Timeout in communication with remote server	
Timeout in communication with remote server	
13°C	



#### 2. Dangerous Http Method Enabled

lisk	High
Abstract	It was observed that Http methods are enabled on this web server.
CVE	CVE-2004-2320
Ease of Exploitation	Easy
Impact	It was observed that using the HTTP methods, it may expose sensitive information that may help an malicious user to prepare more advanced attacks
Recommendations	It is recommended to disable http dangerous methods on the web server
Snapshot	Attached Below
Affected URL	Throughout the application
Status	Complied

-	
Request	Response
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Request	Response
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Request	Response III = =
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2 HOSE: 12-100.140.203	2 Fragma: no-cache
3 User-Agent: Mosilla/5.0 (Windows NT 10.0; Win64; x64; rv:121.0) Gecko/20100101 Firefox/121.0	3 Content-Type: text/html
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8	4 Server: Microsoft-IIS/8.5
5 Accept-Language: en-US,en;q=0.5	5 X-Xss-Protection: 1; mode=block
6 Accept-Encoding: gmip, deflate	6 Content-Security-Policy: default-src 'self'; connect-src *; font-src *; frame-src *; img-src * data;; media-src *
7 Connection: close	7 Strict-Transport-Security: max-age=31536000; includeSubDomains
Cookie: ASP.NET_SessionId=zzqlfrrergh4fel4ismlskf5; lang=;RequestVerificationToken=	8 X-Content-Type-Options: mosniff
xrBqn5Nng7YA4Wyb1BbpFRdtEcUyxSdys45E8aXn61yygixWGy96Ac11k9yK7zLHF8uFBTgNK1pBmBf6vMF6_iPconJDx3M-jo1z21yKytJg1	9 X-Frame-Options: SAMEORIGIN
9 Upgrade-Insecure-Requests: 1	10 Referrer-Policy: strict-origin
0 Sec-Fetch-Dest: document	<pre>11 Access-Control-Allow-Origin: https://neva.gov.in/</pre>
11 Sec-Fetch-Mode: navigate 12 Sec-Fetch-Site: none	12 Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept 13 Access-Control-Allow-Methods: GET, PCST, PUT, DELETE
12 Sec-Fetch-Jate: home	
3 Sec-Petch-User: ?1	14 Access=Control-Max-Age: 3600 15 Feature-Policy: accelerometer 'none'; camera 'none'; geolocation 'none'; gyroscope 'none'; magnetometer 'none'; magnet
	is reature-rolldy: accelerometer 'nome'; camera 'nome'; geolocation 'nome'; gyroscope 'mome'; magnetometer 'nome'; m 16 Date: Thu, 04 Jan 2024 10:49:13 GMT
15	10 pate: Thu, 04 Jan 2024 10149103 GMT 17 Connections close
	1) Connector: close 18 Context-Length: 103
	10 concert-Dengen: 103
	20 The resource you are looking for has been removed, had its name changed, or is temporarily unavailable.
	the tradition pot and sconing for and scon concrete, and its name changed, or is componently university of

1       2       3       4       5       4       7       4       5       4       7       4       5       4       7       4       5       4       7       4       5       4       1
Request     Response       UMDATE / NUTF/L.1     PMUTY Raw Render W Actions V       UMDATE / NUTF/L.1     PMUTY Raw Render W Actions V       UMDATE / NUTF/L.1     PMUTY Raw Render W Actions V       UMDATE / NUTF/L.1     PMUTY Raw Render W Actions V       UMDATE / NUTF/L.1     PMUTY Raw Render W Actions V       UMDATE / NUTF/L.1     PMUTY Raw Render W Actions V       UMDATE / NUTF/L.1     PMUTY Raw Render W Actions V       UMDATE / NUTF/L.1     PMUTY Raw Render W Actions V       UMDATE / NUTF/L.1     PMUTY Raw Render W Actions V       UMDATE / NUTF/L.1     PMUTY Raw Render W Actions V       UMDATE / NUTF/L.1     PMUTY Raw Render W Actions V       UMDATE / NUTF/LINE     PMUTY Raw Render W Actions V       UMDATE / NUTF/LINE     PMUTY Raw Render W Actions V       UMDATE / NUTF/LINE     PMUTY Raw Render W Actions V       UMDATE / NUTF/LINE     PMUTY Raw Render W Actions V       UMDATE / NUTF/LINE     PMUTY Raw Render W Actions V       UMDATE / NUTF/LINE     PMUTY Raw Render W Actions V       UMDATE / NUTF/LINE     PMUTY Raw Render W Actions V       UMDATE / NUTF/LINE     PMUTY Raw Render W Actions V       UMDATE / NUTF/LINE     PMUTY Raw Render W       UMDATE / NUTF/LINE     PMUTY Raw Render W       UMDATE / NUTF/LINE     PMUTY Raw Render W       UMDATE / NUTF/LINE     PMUTY Raw Render W
Request         Response           upware / purp/l.i         ////////////////////////////////////



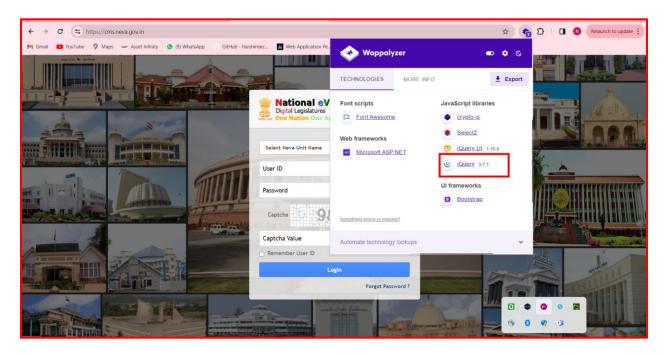
# 3.Multiple Browser Login

Vulnerability Title: Mu	Iltiple Browser Login of Admin at the same
Risk	High
Abstract	It is observed that the same user can login into via multiple browsers.
CWE	CWE_362
Ease of Exploitation	Medium
Impact	The attacker can use the same login ID for exploitation even if the ID is active.
Recommendations	It is recommended to restrict multiple browser login for admin at the same time.
Snapshot	
Affected Site	https://164.100.140.203
Status	Complied



#### 4.Outdated version of jQuery

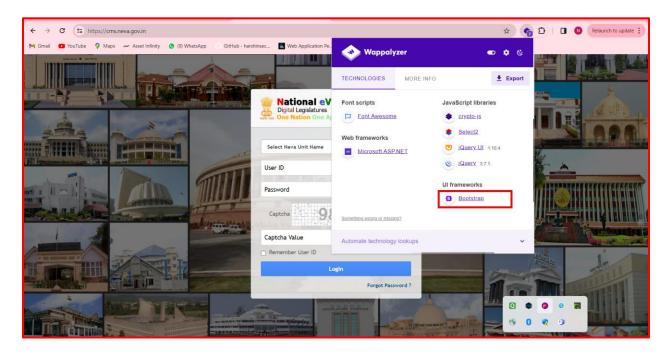
Vulnerability Title: Outdated/Vulnerable version of jQuery						
Risk	High					
Abstract	It was observed that an outdated version of jQuery (3.5.0) is used.					
Ease of Exploitation	Medium					
Impact	An attacker can launch various attacks on application through outdated/vulnerable Version.					
Recommendations	It is recommended to use latest and stable version of jQuery.					
Snapshots	Attached Below					
Affected URLs	Throughout the Application					
Status	Complied					





#### 5. Vulnerable version of Bootstrap

Vulnerability Title: Vulnerable version of Bootstrap						
Risk	High					
Abstract	It was observed that a vulnerable version of Bootstrap (3.1.1) is used.					
Ease of Exploitation	Medium					
Impact	An attacker can launch various attacks on application through vulnerable/outdated Version.					
Recommendations	It is recommended to use latest and stable version of Bootstrap.					
Snapshots	Attached Below					
Affected URLs	Throughout the Application					
Status	Complied					





#### 6. SSL Certificate Date Expired

Vulnerability Title: S	Vulnerability Title: SSL Certificate date expired							
Risk	High							
Abstract	It was observed that the SSL certificate is expired and not valid							
Ease of Exploitation	Medium							
Impact	Some browsers will continue connecting to the site after presenting the user with the warning, while others will prompt the user with a dialog box requesting their approval to proceed. These warnings are extremely confusing for the typical web user, and cause most users to question the authenticity of the site they are attempting to view.							
Recommendations	It is recommended to verify the Start Date and End Date of SSL Certificate							
Snapshot	Attached Below							
Affected Site	Throughout the Application							
Status	Complied							

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		Certif	icate #1: RSA 2048 bits	(SHA256withRSA)					
		Ē	Server Key and Certificate #1		<u>+</u>				
		<u>ه</u> لي	Subject	*.neva.gov.in Fingerprint SHA256: 06db7e1580x95cdxl814b0x034ab9x044065022x05d77492xl934cd23006487 Pin SHA256: zQSyEDC+SG5u22yl97zJ09hLL6dBIGIWsC2+pG6P9Y=					
			Common names	*.neva.gov.in					
			Alternative names	*.neva.gov.in neva.gov.in					
			Serial Number	05366H/240(51e70c72d251ef15effd5					
			Valid from	Wed, 04 Oct 2023 00:00:00 UTC					
			Valid until	Sun, 03 Nov 2024 23:59:59 UTC (expires in 10 months and 9 days)					
			Key	RSA 2048 bits (e 65537)					
			Weak key (Debian)	No					
			Issuer	RapidSSL TLS RSA CA G1 AIA: http://cacets.rapidssl.com/RapidSSLTLSRSACAG1.crt					
			Signature algorithm	SHA256withRSA					
			Extended Validation	No					
			Certificate Transparency	Yes (certificate)					
			OCSP Must Staple	No					
			Revocation information	CRL, OCSP CRL: http://cdp.rapidssl.com/RapidSSLITLSRSACAG1.crl OCSP: http://status.rapidssl.com					



# Medium



# 7. Weak Ciphers Enabled

Vulnerability Title: Ŵ	/eak Ciphers Enabled
Risk	Medium
Abstract	It was observed that that weak ciphers are enabled during secure communication (SSL).
Impact	Attackers might decrypt SSL traffic between your server and your visitors.
Recommendations	It is recommended to modify the SSL Cipher Suite directive in the httpd. conf. SSL Cipher Suite HIGH:MEDIUM:!MD5:!RC4
Snapshot	Attached Below
Affected Site	Throughout the application
Status	Not Compiled

$\leftarrow \rightarrow C$	08	https://ww	w. <b>ssllabs.com</b> /ssltest/analyze.html?d=cms.neva.gov.in		E \$	$\bigtriangledown$	¥	٢
		Config	guration					
		5	Protocols					
			TLS 1.3		No			
			TLS 1.2		Yes			
			TLS 1.1		No			
			TLS 1.0		No			
			SSL 3		No			
			SSL 2		No			
			Cipher Suites					
			# TLS 1.2 (suites in server-preferred order)		Ξ			
			TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f) ECDH x25519 (eq. 3072 bits RSA) FS		128			
			TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 (0x9e) DH 2048 bits FS		128			
			TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027) ECDH x25519 (eq. 3072 bits RSA) FS WEAK		128			
			TLS_RSA_WITH_AES_128_GCM_SHA256 (0x9c) WEAK		128			
			TLS_RSA_WITH_AES_256_CBC_SHA256 (0x3d) WEAK		256			
			TLS_RSA_WITH_AES_128_CBC_SHA256 (0x3c) WEAK		128			
				(				



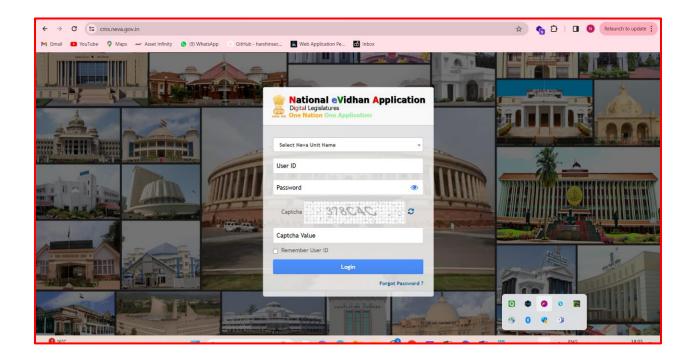
#### 8.HTTP Security Headers not implemented

Vulnerability Title: H	TTP Security Headers Not Implemen	ted								
Risk	Medium	Medium								
Abstract	It was observed that security heade	It was observed that security headers such as X-XSS protection,								
	Content Security Policy, Strict Trans	port security policy, X-Content-								
	Type-Options were not implemente	ed in remote application.								
Ease of Exploitation	Medium									
Impact	If security headers are not impleme	nted in application then it may help								
	an attacker to exploit existing vulne	rabilities in application logic and								
	results in lack of defense in depth a	pproach to prevent security attacks.								
Recommendations	It is recommended to implement se	curity headers to provide additional								
	layer of security in application such	as X-XSS protection, Content								
	Security Policy, Strict Transport secu	urity policy, X-Content-Type-Options								
Snapshot	1 x 2 x	Terget: https://161.309.149.203 🖉 🕥								
	Network           100         W LANK W           101         ALL (ALL (ALL (ALL (ALL (ALL (ALL (ALL	Segme         Image: Second Secon								
		de de (NACTER Emplo de SACTER Emplo								
Affected Site	Throughout the application									
Status	Complied									



#### 9. Session Timeout Is Not Implemented

Vulnerability Title: Session Timeout not implemented							
Risk	Medium						
Abstract	It was observed that even if the Browser is logged in and idle it does not logout the session automatically.						
Ease of Exploitation	Easy						
Impact	It is possible to access authenticated pages.						
Recommendations	Application should terminate a session if there is no activity from the user- side for a fixed period of time, e.g., 15 minutes.						
Snapshot	Attached Below						
Affected Site	Throughout the application						
Status	Complied						





# Low



#### **10.Path Not Set in Cookie Attribute**

Vulnerability Title: Path Not Set in Cookie Attribute					
Risk	Low				
Abstract	Path is not defined.				
Ease of Exploitation	Medium				
Impact	This may redirect to another application.				
Recommendations	It is recommended to define path.				
Snapshot	Attached Below				
Affected Site	Throughout the application				
Status	Compiled				

$\leftarrow \rightarrow G$	O A https:/	//cms.neva.gov.in/Account	t/Login/						ŕ	7		${igsidential}$	¥]	۵ گ	=
à dia			4	Digital Legislature One Nation One	5 Application							U	9	8 8	t
TARE THE FILE SECTOR			all in			22	0			201	N				
Planet and the second	PARTY DESCRIPTION OF	States of Contract		User ID							h_	-			
and the firm		A . M		Password		۲			MAL	Íhr	ÀP	"TH	fffff	TEFETE	M
W ALLAND		Summer and support	P	Captcha	082CE	C	N. AND			Щļ					
1 10				Captcha Value		_	-	No.		<u>ZL</u>			Contraction of the		
	-	and the second		] Remember User ID		_				H			1	1	
					Login Foreot Passa	word ?	-			15			HE STA		
C Console		letwork {} Style Editor	Performance	E Memory 🗄 Storage	Accessibility 🎆 Applicat	ion							0		
<ul> <li>Cache Storage</li> <li>Cookies</li> </ul>	Filter Items	Value				Domain	Path	Expires / Max-Age	Size	HttoOol	Conurs	SameSite	Last Acc		G
https://cms.neva.gov.in	RequestVerificatio		ImreB0Obf7suxCuDsd	VwlRaPW04ZxgPlYCVznfcqKv-	4XqRuH96sRA-xD0t3jRUwnf4kW7		/	Session	134	true	false	None		Dec 2023 07	:08:
	ASP.NET_SessionId	k5erpt2csxmfrcarivr2vnja				cms.neva.go	1	Session	41	true	true	Lax		Dec 2023 07	
🕨 🗄 Local Storage	lang					cms.neva.go	1	Session	4	true	true	None	Mon, 25	Dec 2023 07	:08:
Session Storage								10							
									Q	۰	•				
									9	0	<b>1</b>	1			
and the second					-						1.7.53	2	8		

**Note**:-Point no 8 is needed to be put in the exception case while making cookies attribute path it was creating issues in login.



#### **11.Web Server Information Disclosure**

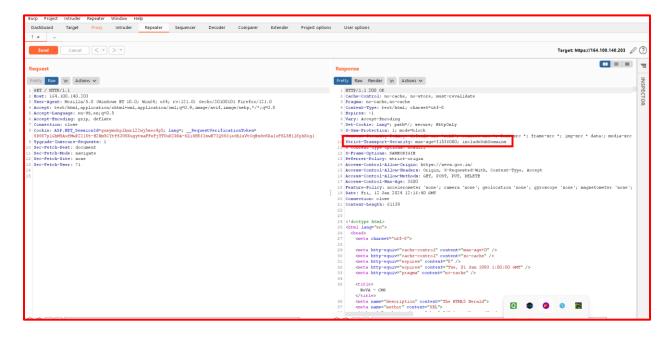
Vulnerability Title: Web Server Information Disclosure			
Risk	Low		
Abstract	Banner grabbing (application is displaying Server name and version which may help attacker to learn more about his target) is possible in the application.		
Ease of Exploitation	Easy		
Impact	Application is displaying Server name and version which may help attacker to learn more about his target.		
Recommendations	Server version should not be displayed to the end user.		
Snapshot	Attached below		
Affected Site	Throughout the application		
Status	Not Complied		

Request	Response		Ξ
Request Factor to Actions / NTTV/1.1 2 not: 164.100.140.030 (Nimidons PT 10.0; Nimid; s64; rv121.0) (secks/20100001 Firefor/121.0 4 Accept: Tanguage: est 05; en; en; 0.3 4 Accept: Tanguage: est 05; en; en; 0.3 4 Accept: Tanguage: est 05; en; en; 0.3 6 Accept: Tanguage: est 05; en; en; 0.3 8 Accept: Tanguage: est 05; en; en; 0.3 8 Accept: Tanguage: est 05; en; 0.4 9 Distribution: Tanguage: est 05; en; 0.4 1 Sector: Tanguage: est 04; en;	Preprint       Nations v         INTET/1.1.404 Not Found         Preprint       Nations v         INTET/1.1.404 Not Found         Context-recurrently-Nollay: default-wate 'self'; connect-wate '; font-wate '; frame-wate '; img-wate '         Context-recurrently-Nollay: default-wate 'self'; connect-wate '; font-wate '; frame-wate '; img-wate '         S'-Context-Transport-Recurrently: Nonlay (SIS000): includeSubJomains         N-Context-Transport-Recurrently: Nonlay (Nonlay (N	* data;; media-arc *; gnetometer 'none'; mic	
⑦ ⑧ ← → Search     0 matches       Done     0 37F	⑦ ⑧ ← → Search       ● ● ● ● ■	0 matches	millis



#### 12.HSTS (HTTP Strict Transport Security) Misconfiguration

Vulnerability Title: HSTS (HTTP Strict Transport Security) header is misconfigured. Risk Low Abstract HSTS (HTTP Strict Transport Security) security header is misconfigured. Ease of Exploitation Easy Impact If HSTS is not configured correctly, it may not be effective in enforcing a secure, encrypted connection. This could leave the website vulnerable to man-in-themiddle attacks, where an attacker could intercept and manipulate the communication between the user's browser and the server. Ensure that the HSTS header is correctly configured in the server's response **Recommendations** headers. The key directive is Strict-Transport-Security. Specify the max-age directive to indicate the duration for which the HSTS policy should be enforced. Snapshot Attached Below Affected Site **Throughout application** Complied Status

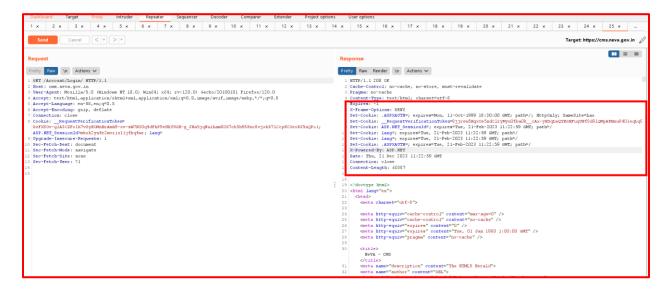




#### **13.Cross-Origin resource sharing Misconfiguration**

Vulnerability Title: Cross-Origin resource sharing misconfiguration

Risk	Low
Abstract	It was observed that the CORS (Cross Origin Resource Sharing_Misconfiguration) Lead to sensitive information.
Ease of Exploitation	Hard
Impact	If CORS is not properly configured, a web page from one domain may be able to make requests to a different domain, leading to potential unauthorized access to sensitive data.
Recommendations	Configure CORS Headers Properly: Set the appropriate CORS headers in your web server or application to define which domains are allowed to access your resources. Common headers include Access-Control-Allow-Origin, Access-Control-Allow-Methods, and Access-Control-Allow-Headers.
Snapshot	Attached Below
Affected URLs	Throughout the application
Status	Complied





# **14.X-Frame Options Misconfiguration**

Vulnerability Title: )	K-Frame Option Header	
Risk	Low	
Abstract	The X-Frame-Options header is used to control whether a browser should be	
	allowed to render a page in a frame or iframe. When this header is set	
	multiple times, it can cause conflicts and potential security issues.	
Ease of Exploitation	Easy	
Impact	The impact of setting X-Frame-Options multiple times can vary, but one	
	possible consequence is that it may lead to inconsistent or unexpected	
	behavior in different browsers. In some cases, it might result in the header	
	being ignored altogether, potentially allowing the page to be embedded in	
	frames when it shouldn't be.	
Recommendations	Ensure that the X-Frame-Options header is set only once in the HTTP	
	response. If it's set in multiple locations or at different stages of processing,	
	conflicts may arise.	
Snapshot	Attached Below	
Affected Site	Throughout the application	
Status	Complied	

Send Cancel < Y	Target: https://164.100.140.203 🖉
Request	Response III = II
Pretty Raw \n Actions 🗸	Pretty Raw Render \n Actions V
<pre>i off / NTTY/.1 i Bost: 14(0.0.400.30 i User-Agnet: No:111.0.5.0 (Mindows NT 10.0; Min64; x64; rv:121.0) Gecks/30100101 Firefox/13.0 i Accept: text/Nth.application/thtml*mal.application/unl.qf0.5, image/avid.image/webp.*/*;qr0.8 i Accept:TextOnd.application/thtml*mal.application/unl.qf0.5, image/avid.image/webp.*/*;qr0.8 i Scottation/Acception/application/thtml*mal.application/unl.qf0.5, image/avid.image/image/avid.image/image/avid.image/image/avid.image/image/avid.image/image/avid.image/image/image/image/image/avid.image/image/image/image/avid.image/</pre>	<pre>1 HTTP:/1.100 OK 1 Cache-Control in o-cache, no-store, must-revalidate 2 Cache-Control in o-cache, no-store, must-revalidate 3 Cache-Control in o-cache, no-store, must-revalidate 4 Control-Type: text/html charestwirf=0 5 War: Access-Control-Information (figure for the store for the sto</pre>



#### **15.Audit Trail is not maintained**

Vulnerability Title: Audit Trail is not implemented in properly					
Risk	Low				
Abstract	The application does not maintain the logout action and status of user activity where all user activities have to be logged.				
Ease of Exploitation					
Impact	In-case a malicious user tries to attack the application; the application will not be able to trace the attacker				
Recommendations	<ul> <li>where all user activities have to be logged.</li> <li>Easy</li> <li>In-case a malicious user tries to attack the application; the application will not be able to trace the attacker</li> <li>An Audit trail should be incorporated in the application admin module, where all user activities have to be logged. Following points should be considered: <ul> <li>Audits are to be generated at the time of resource access and by the saroutines accessing the resource</li> <li>Information to be logged including the following: IP of the originating clie Date, Time, username if any in addition to other details to be logged in tweb server.</li> <li>These IP, date, time, session details, user details (NO password), referr process id to be logged in application logs.</li> <li>To create audit</li> <li>logs, use auto numbering so that every logged entry has a log number, whi is not editable. Then if one audit entry is deleted a gap in the number sequence will appear.</li> <li>Log entries are to be hashed/ signed so that changes to audit log can detected.</li> <li>Audit trails to answer the following</li> <li>Logging of Authentication Process. Success and failed attempts.</li> <li>Logging Authentication details and changes.</li> <li>Software error and failures logged.</li> <li>Should not be possible to retrieve confidential authentication informat from these logs (including passwords)</li> <li>Is it possible to uniquely identify both client host and user from these log.</li> <li>What level of information is logged by the application (read/write accemodification data, and copy/paste data) Are log files time sequential accan they positively identify the time of action?</li> </ul> </li> </ul>				
Snapshot	Attached given				
Affected URLs	https://164.100.140.203/SuperAdmin/SuperAdmin				
Status	Complied				



	LogID	UserName	IPAddress	LoginDateTime	LoginStatus	LogoutDateTime	ModuleName	ActionName	ActionType	URL	ActionDate	FirstWrongAttemptTime	BlockUntil	Userld
969	1061	Kamal Dutt Verma	10.21.211.174	2019-06-28 17:24:49.410	Successful	1753-01-01 00:00:00.000	ListOfBusin	CreateLOB	GET	/ListOfBusiness/ListOfBusiness/CreateLOB	2019-06-28 17:24:49.583	NULL	NULL	NULL
970	1062	Kamal Dutt Verma	10.21.211.174	2019-06-28 17:24:49.410	Successful	1753-01-01 00:00:00.000	ListOfBusin	CreateLOB	GET	/ListOfBusiness/ListOfBusiness/CreateLOB	2019-06-28 17:24:53.220	NULL	NULL	NULL
971	1063	Kamal Dutt Verma	10.21.211.174	2019-06-28 17:24:49.410	Successful	2019-06-28 17:25:00.300	Account	LogOff	POST	/Account/LogOff	2019-06-28 17:25:00.300	NULL	NULL	NULL
972	1064	admin	10.21.211.200	2019-07-01 10:50:07.643	Successful	1753-01-01 00:00:00.000	Dashboard	Index	GET	/Admin/Dashboard	2019-07-01 10:50:09.457	NULL	NULL	NULL
973	1065	Kamal Dutt Verma	10.21.211.174	2019-07-01 11:00:38.057	Successful	1753-01-01 00:00:00.000	ListOfBusin	CreateLOB	GET	/ListOfBusiness/ListOfBusiness/CreateLOB	2019-07-01 11:00:38.230	NULL	NULL	NULL
974	1066	Kamal Dutt Verma	10.21.211.174	2019-07-01 11:00:38.057	Successful	2019-07-01 11:01:39.637	Account	LogOff	POST	/Account/LogOff	2019-07-01 11:01:39.637	NULL	NULL	NULL
975	1067	admin	10.21.211.200	2019-07-01 11:27:34.503	Successful	1753-01-01 00:00:00.000	Dashboard	Index	GET	/Admin/Dashboard	2019-07-01 11:27:34.690	NULL	NULL	NULL
976	1068	admin	10.21.211.224	2019-07-01 14:05:37.640	Unsuccessful	1753-01-01 00:00:00.000	User	WrongAttemptAdminLoginData	Get	/Account/Login	2019-07-01 14:05:37.720	NULL	NULL	NULL
977	1069	admin	10.21.211.200	2019-07-02 10:07:31.667	Unsuccessful	1753-01-01 00:00:00.000	User	WrongAttemptAdminLoginData	Get	/Account/Login	2019-07-02 10:07:33.260	NULL	NULL	NULL
978	1070	admin	10.21.211.200	2019-07-02 10:07:50.463	Successful	1753-01-01 00:00:00.000	Dashboard	Index	GET	/Admin/Dashboard	2019-07-02 10:07:50.637	NULL	NULL	NULL
979	1071	admin	10.21.211.200	2019-07-02 10:07:50.463	Successful	2019-07-02 10:23:51.047	Account	LogOff	POST	/Account/LogOff	2019-07-02 10:23:51.047	NULL	NULL	NULL
980	1072	admin	10.21.211.200	2019-07-02 10:35:35.953	Successful	1753-01-01 00:00:00.000	Dashboard	Index	GET	/Admin/Dashboard	2019-07-02 10:35:36.157	NULL	NULL	NULL
981	1073	Jitender Singh Kanwar	10.21.211.200	2019-07-02 14:18:35.350	Successful	1753-01-01 00:00:00.000	Legislation	PaperLaidSummary	GET	/Notices/LegislationFixation/PaperLaidSummary	2019-07-02 14:18:35.553	NULL	NULL	NULL
982	1074	Jitender Singh Kanwar	10.21.211.200	2019-07-02 14:18:35.350	Successful	2019-07-02 14:41:53.337	Account	LogOff	POST	/Account/LogOff	2019-07-02 14:41:53.337	NULL	NULL	NULL
983	1075	Jitender Singh Kanwar	10.21.211.200	2019-07-02 14:50:17.657	Successful	1753-01-01 00:00:00.000	Legislation	PaperLaidSummary	GET	/Notices/LegislationFixation/PaperLaidSummary	2019-07-02 14:50:17.830		NULL	NULL
984	1076	Jitender Singh Kanwar	10.21.211.200	2019-07-02 14:50:17.657	Successful	1753-01-01 00:00:00.000	Legislation	PaperLaidSummary	GET	/Notices/LegislationFixation/PaperLaidSummary	2019-07-02 15:23:22.953		NULL	NULL
985	1077	admin	10.21.211.174	2019-07-02 15:29:19.560	Successful	1753-01-01 00:00:00.000	Dashboard	Index	GET	/Admin/Dashboard	2019-07-02 15:29:19.730	NULL	NULL	NULL
986	1078	admin	10.21.211.174	2019-07-02 15:29:19.560	Successful	2019-07-02 15:29:28.000	Account	LogOff	POST	/Account/LogOff	2019-07-02 15:29:28.000	NULL	NULL	NULL
987	1079	Sanjeev Kumar	10.21.211.174	2019-07-02 15:30:03.023	Successful	1753-01-01 00:00:00.000	Diaries	DiariesDashboard	GET	/Notices/Diaries/DiariesDashboard	2019-07-02 15:30:03.163		NULL	NULL
988	1080	Sanjeev Kumar	10.21.211.174	2019-07-02 15:30:03.023	Successful	1753-01-01 00:00:00.000	Diaries	SavePaperEntry	POST	/Notices/Diaries/SavePaperEntry	2019-07-02 15:30:29.477		NULL	NULL
989	1081	Sanjeev Kumar	10.21.211.174	2019-07-02 15:30:03.023	Successful	1753-01-01 00:00:00.000	Diaries	DiariesDashboard	GET	/Notices/Diaries/DiariesDashboard	2019-07-02 15:30:29.557	NULL	NULL	NULL
990	1082	Sanjeev Kumar	10.21.211.174	2019-07-02 15:30:03.023	Successful	1753-01-01 00:00:00.000	Diaries	SaveFile	POST	/Notices/Diaries/SaveFile	2019-07-02 15:31:46.507		NULL	NULL
991	1083	Sanjeev Kumar	10.21.211.174	2019-07-02 15:30:03.023	Successful	2019-07-02 15:31:54.963	Account	LogOff	POST	/Account/LogOff	2019-07-02 15:31:54.963		NULL	NULL
992	1084	Jitender Singh Kanwar	10.21.211.174	2019-07-02 15:33:02.540	Successful	1753-01-01 00:00:00.000	Legislation	PaperLaidSummary	GET	/Notices/LegislationFixation/PaperLaidSummary	2019-07-02 15:33:02.663	NULL	NULL	NULL
993	1085	Jitender Singh Kanwar	10.21.211.174	2019-07-02 15:33:02.540	Successful	2019-07-02 15:34:49.657	Account	LogOff	POST	/Account/LogOff		NULL	NULL	NULL
994	1086	Puran Chand Thakur	10.21.211.174	2019-07-02 15:35:12.327	Successful	1753-01-01 00:00:00.000	Notice Details	Index	GET	/Notices/NoticeDetails/Index	2019-07-02 15:35:12.470		NULL	NULL
995	1087	Puran Chand Thakur	10.21.211.174	2019-07-02 15:35:12.327	Successful	2019-07-02 15:36:51.800	Account	LogOff	POST	/Account/LogOff	2019-07-02 15:36:51.800	NULL	NULL	NULL
996	1088	Sanjeev Kumar	10.21.211.174	2019-07-02 15:37:11.390	Successful	1753-01-01 00:00:00.000	Diarles	DiariesDashboard	GET	/Notices/Diaries/DiariesDashboard	2019-07-02 15:37:11.560		NULL	NULL
997	1089	Sanjeev Kumar	10.21.211.174	2019-07-02 15:37:11.390	Successful	2019-07-02 15:39:08.497	Account	LogOff	POST	/Account/LogOff	2019-07-02 15:39:08.497	NULL	NULL	NULL
998	1090	admin	10.21.211.200	2019-07-03 10:22:02.313	Successful	1753-01-01 00:00:00.000	Dashboard	Index	GET	/Admin/Dashboard	2019-07-03 10:22:04.077	NULL	NULL	NULL
999	1091	admin	10.21.211.200	2019-07-03 10:22:02.313	Successful	1753-01-01 00:00:00.000	Account	LoginUP	GET	1	2019-07-03 10:53:05.517	NULL	NULL	NULL
1	1092	admin	10.21.211.200	2019-07-03 10:53:25.543	Successful	1753-01-01 00:00:00.000	Dashboard	Index	GET	/Admin/Dashboard	2019-07-03 10:53:25.730	NULL	NULL	NULL



#### **16.Forbidden Resource**

Vulnerability Title: Forbidden Resource				
Risk	Low			
Abstract	A forbidden resource, in the context of web security, typically refers to a resource or action that a user is not authorized to access or perform. It's often associated with HTTP status code 403, which means "Forbidden".			
Ease of Exploitation	Medium			
Impact	Attacker can gain unauthorized access to resources or functionality that should be off-limits to them. The impact of forbidden resource vulnerabilities can be significant, potentially leading to unauthorized data access, privilege escalation, and other security breaches.			
Recommendations	Implement appropriate error handling to ensure that error messages do not leak sensitive information about the system's structure or access controls.			
Snapshot	Attached Below			
Affected URL	Throughout the Application			
Status	Complied			

Request	Response
<pre>request prot: tet.co.tex.</pre>	<pre>Pretry Taw Forder 'n 'Actions &gt;     Try:/11.40% Hot Found     Content-Try::tex/J14     Cont</pre>



#### **17.Insecure Transportation Security Protocol Supported (TLS 1.0)**

Vulnerability Title: Insecure Transportation Security Protocol Supported (TLS 1.0)

Risk	Low
Abstract	It was observed that this application is using an outdated and insecure version of the TLS protocol
Impact	<ul> <li>TLS 1.0 uses weak encryption algorithms compared to the newer versions, making it susceptible to attacks such as brute force and cryptographic attacks.</li> <li>TLS 1.0 has known security vulnerabilities, including BEAST (Browser Exploit Against SSL/TLS) and POODLE (Padding Oracle On Downgraded Legacy Encryption), which can be exploited to intercept or manipulate encrypted data.</li> </ul>
Recommendations	Upgrade your systems to use TLS 1.2 or preferably TLS 1.3, which offer better security and performance. TLS 1.3 includes improvements such as stronger cipher suites, enhanced handshakemechanisms, and improved resilience against attacks.
Snapshot	Attached Below
Affected Site	Throughout the application
Status	Complied

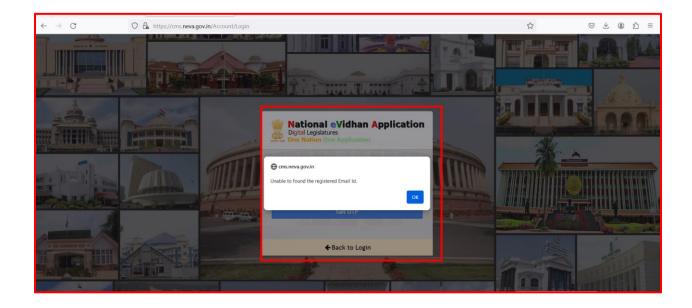
Protocols	
TLS 1.3	No
TLS 1.2	Yes
TLS 1.1	No
TLS 1.0	No
SSL 3	No
SSL 2	No
Cipher Suites	



#### **18.User Enumeration**

Vulnerability Title: User Enumeration is possible in application				
Risk	Low			
Abstract	User enumeration is a security vulnerability that occurs when an attacker car determine whether a specific username or email address is valid or not within a system, application, or service.			
Ease of Exploitation	Easy			
ImpactHaving a list of valid usernames makes it easier for attackers to lau force attacks. They can focus their efforts on trying to crack the pa for these known accounts, potentially gaining unauthorized access				
Recommendations	<ul> <li>The application should display only one error message when the login credentials are invalid. An attacker can gain knowledge of valid usernames/ids if the application displays different error message for incorrect username and another error message when the username is correct but password is wrong. It is recommended to display a generic message for all the cases where either password or username or both are wrong like:</li> <li>1. User-ID or password is Invalid. Or</li> <li>2.Please enter valid credentials. Or</li> <li>3.Wrong Username or Password.</li> </ul> And it is recommended to display a generic message at forget password module for all cases whether user exists or not i.e., "If the email address is known to us, we'll send a password recovery link in a few minutes."			
Snapshot	Attached Below			
Affected URLs	https://164.100.140.203			
Status	Not Complied			







#### 19.E-tag

Vulnerability Title:	E-tag Information Disclosure						
Risk	Low		 				
Abstract	It was observed that the Server Responds with E-tag Information Disclosure Vulner						
CVE							
Ease of Exploitation	Medium						
Impact	An attacker can make use of the Sensitive Inform advanced attacks.	nation Provided and could proceed	wit				
Recommendations	It is recommended to Modify the HTTP ETag hea in the ETag header calculation	ader of the web server to not includ	e fi				
Snapshot	1 x 2 x Send Canat < > > >						
	Request	Response	1				
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			i i				
Affected Site	https://164.100.140.203						



# 20. Improper Input Validation

Vulnerability Title : Input Validation						
Risk	Low					
Abstract	It was observed that there was vital information leakage on website.					
Ease of Exploitation	Easy					
Impact	It is possible to gather sensitive debugging information.					
Recommendations	It is recommended to implement proper validations on all input fields of the web application.					
Snapshot						
Affected Site	throughout the application					
Status	Complied					



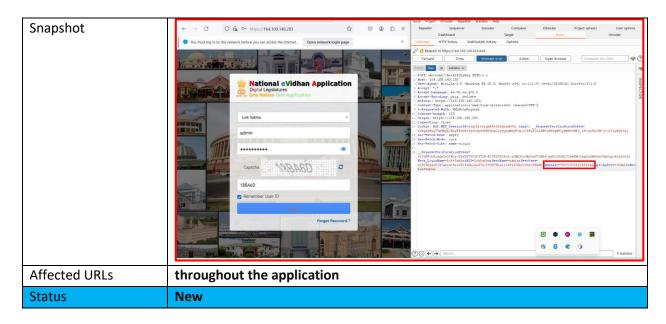
# New Vulnerabilities



#### 21.Password Replay attack is possible.

Vulnerability Title: Password replay attack is possible.							
Risk	High						
Abstract	It was observed that Password replay attack is possible in the application.						
Ease of Exploitation	Easy						
Impact	A Malicious user can reuse the encrypted value of password .						
Recommendations	It is recommended that SHA-256 with Salted Hashing technique in authentication or login module should be implemented. The pre-requisite to this is that the backend database stores a SHA-256 or hash of the password. (SHA-256 hash is a cryptographic technique in which the actual value can never be recovered). Here is how the salted hash technique works: When a client requests for the login page, the server generates a random number, the salt, and sends it to the client along with the page. A JavaScript code on the client computes the (SHA-256) hash of the password entered by the user. It then concatenates the salt to the hash and re-computes the (SHA- 256) hash. This result is then sent to the server. The server picks the hash of the password from its database, concatenates the salt and computes the (SHA-256) hash. If the user entered the correct password these two hashes should match. The server compares the two and if they match, the user is authenticated. Please note that every time a new salt value must be generated at the call of login page at the server end. As this "salt? is used it should be expired & deleted at the server end. If it is not used for login for more than a standard time (say 5 minutes), the "salt? value again should be expired & deleted. The SALT value should be properly implemented such that it meets the following conditions: • SALT value should not be visible in the POST request. • SALT value should not be visible in the POST request. • SALT value should not be generated on the client side but always on the server side.						



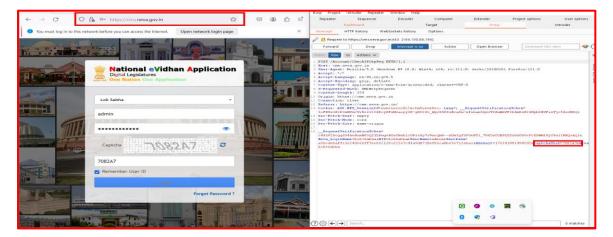




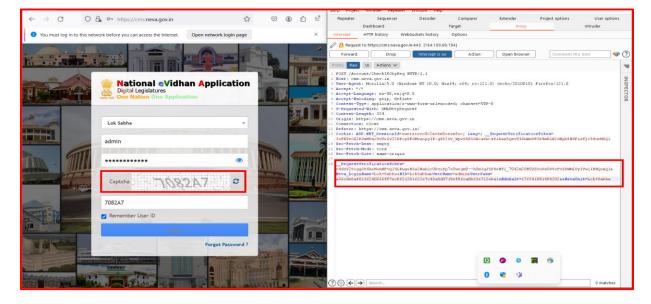
#### 22.CAPTCHA is not validating at server side

Vulnerability Title: CAPTCHA is not validated at server side					
Risk	Medium				
Abstract	It was observed that the CAPTCHA is not validate at server side use in				
	login page, as impact could be read by an automated tool.				
Ease of Exploitation	Easy				
Impact	It is Easily possible to Flood the attack.				
Recommendations	CAPTCHA should follow the following condition:				
	a) The combination of alphanumeric value.				
	b) Combination of Upper case and lower-case letters.				
	c) Case-Sensitive				
	d) Its length should be minimum 6 characters.				
	e) Should not be a third-party CAPTCHA:				
	f) Should be Random and not follow a pattern.				
	g) Example: Ab73jy, PT34h8, Hos3t3, nic23n etc.				
Snapshot	Attached below				
Affected URLs	throughout the application				
Status	New				

**Step#1:** Enter the valid CAPTCHA at login page and submit the request while submitting capture the request as shown below:







**Step#2:** Now delete the complete field of captcha in the burp and forward the request as shown below.

**Step#3:** As we can see that we are still login in the application .Therefore, CAPTCHA is not validating at server side:

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