Date: 7/31/2024

CYBERQ CONSULTING PVT LTD

Application Security Testing Report

(Final Audit)

Call Center Solution

Web Application Security Test Report of Call Center Solution

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Approved by	Mr. Hemant Tiwari
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Contents

Introduction

Purpose

CyberQ was asked to conduct a Web Application Security Test on the application provided by **SAN Softwares Pvt Ltd.** Details were provided to the extent mentioned in “Scope of Work”. The testing was carried out from **CyberQ Consulting Pvt. Ltd. J-1917, Chittaranjan Park, New Delhi-110019.** The objective of this testing was to ensure the security of the network and web server from external threats through the web application.

Scope

Call Center Solution Web site was hosted on **https://vaptcrm.sansoftwares.com/crm/caller/** was tested. This was a Level-2 testing. Vulnerabilities reported by us throughout the web application have been closed by the client during the Level-1 audit. The Website will be hosted on this URL **https://vaptcrm.sansoftwares.com/crm/caller/.**

Engagement Scope

S. No	Asset Description	Criticality of Asset	Internal IP Address	URL	Public IP Address	Location	Hash Value (in case of applications)	Version (in case of applications)	Other details such as make and model in case of network devices or security devices.
1.	Call Center Solution Web Application	NA	NA	https://vaptcrm.sansoftwares.com/crm/caller/	NA	NA	E0E4E16C1EA3A6B0394D47DC5172CBB7A2322A5DAF3919A9BCB42C125F5C2BE8E21D734E4F9EA5D0798FAFF4CA385446E6780A1FFD9471B0598ADF7E1080545B	-	NA

Date up to which the list has been updated: 28/03/2024

Details of the Auditing team

S. No	Name	Designation	Email Id	Professional Qualifications/ Certifications	Whether the resource has been listed in the Snapshot information published on CERT-In's website (Yes/No)
1.	Mr. Nikhil Rastogi	Information Security Consultant	nikhil.rastogi@cyberqindia.com	B. Tech, CEH	No
2.	Mr. Sushil Tomar	Information Security Consultant	sushil.tomar@cyberqindia.com	B. Tech, CEH	No

Audit Activities and Timelines

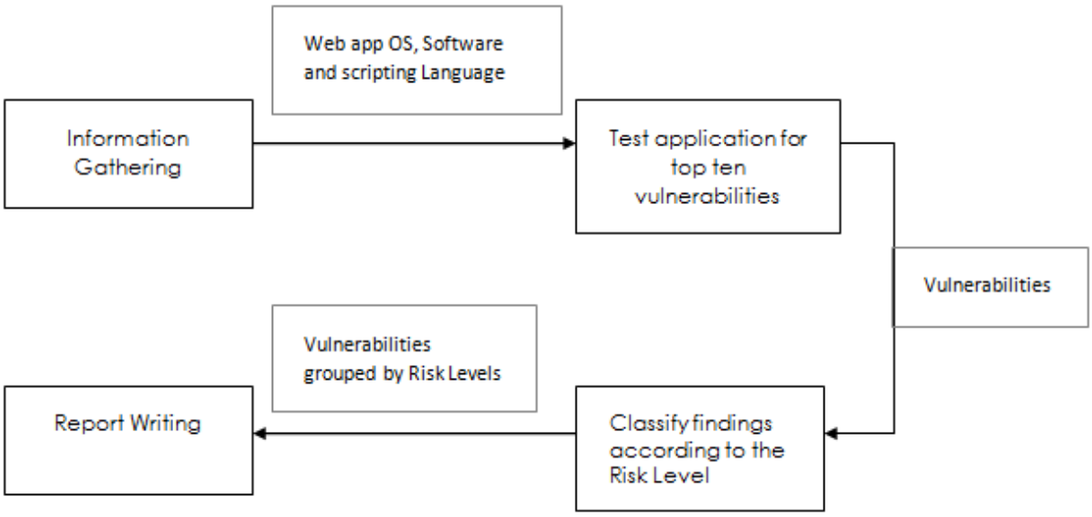
Application Testing Conducted On (Final Audit):

01-04-2024 to 31-07-2024

Audit Methodology and Criteria / Standard referred for audit

Methodology

The methodology applied in Web Application Security Testing is explained in the diagram below:



Information Gathering: One of the first steps of this test is to identify the Web application environment, including the scripting language and Web server software in use, and the operating system of the target server. However, this step is generally omitted if the testing is limited to just the web application and not the host.

Test Application: While testing the application, we follow but are not limited to the OWASP standards. The OWASP framework vulnerabilities are tested for static and dynamic websites. Our testing is done manually as well as using tools. An indicative list of tools is given in the section below.

After an exhaustive testing, the findings are compiled and classified according to a Risk Level of High, Medium or Low depending on the harm they may cause to the Web Application, server or to the network.

Application Security Observations based on OWASP framework for "Call Center Solution".

Open Web Applications Security Project (OWASP) has included the different vulnerabilities in its OWASP, list found in web applications worldwide. The table shows how the application stacks up with respect to the OWASP framework.

S. No.	OWASP 2021 Vulnerabilities
1.	Broken Access Control
2.	Cryptographic Failures
3.	Injection
4.	Insecure Design
5.	Security Misconfiguration
6.	Vulnerable and Outdated Components
7.	Identification and Authentication Failures
8.	Software and Data Integrity Failures
9.	Security Logging and Monitoring Failures
10.	Server-Side Request Forgery
OWASP 2013 Vulnerabilities	
11.	Cross-Site Request Forgery (CSRF)
OWASP 2010 Vulnerabilities	
12.	Malicious File Execution
13.	Denial Of Service

Tools/ Software used

S. No	Name of Tool/Software used	Version of the tool /Software used	Open Source/Licensed
1.	Burp Suite	11.1.2	Licensed
2.	SQLmap	3.0.1	Open Source
3.	NMAP	7.90	Open Source

Executive Summary

S. No	Affected Asset i.e. IP/URL/Application etc.	Observation/ Vulnerability title (Detailed observation)	CVE/CWE	Control Objective #	Control Name #	Audit Requirement #	Severity	Recommendation	Reference	New or Repeat observation	Current Status
1.	Call Center Solution Web Application	It is possible to upload malicious files in the application.	CWE-434	NA	NA	NA	**Critical**	Following things should be implemented in file upload module: • Inspect the content of uploaded files, and enforce a white list of accepted, non-executable content types. Additionally, enforce a blacklist of common executable formats, to hinder hybrid file attacks. • Enforce a white list of accepted, non-executable file extensions. • If uploaded files are downloaded by users, supply an accurate non-generic Content-type header, and also a Content-disposition header which specifies that browsers should handle the file as an attachment. • Enforce a size limit on uploaded files (max 8-10 MB); this can be implemented both within application code and in the web server's configuration. • Reject attempts to upload archive formats such as ZIP. • Multiple file extension like test.pdf.txt.php.jif.jpg should not be allowed for upload. • Proper checks to be put on Content type and MIME type as well. Validation at the server end must be	https://cwe.mitre.org/data/definitions/434.html, https://owasp.org/www-community/vulnerabilities/Unrestricted_File_Upload	-	Closed

								mandatory			
2.	Call Center Solution Web Application	Cross Site scripting attack (XSS) is possible in the application.	CWE-79	NA	NA	NA	**High**	Implement whitelisting and html encoding for every input field present in the application. Also, output encoding should be implemented. The input data should be validated for special characters both in value fields and in URL. Application should not save scripts in the database. Validation at the server end is mandatory. been configured as tight as possible, if the path is set to the root directory "/" then it can be vulnerable to less secure applications on the same server.	https://cwe.mitre.org/data/definitions/79.html, https://www.acunetix.com/websitesecurity/cross-site-scripting/	-	Closed
3.	Call Center Solution Web Application	HTML injection attack is possible in the application.	CWE-80	NA	NA	NA	**High**	Implement whitelisting and html encoding for every input field present in the application. Also, output encoding should be implemented. The input data should be validated for special characters both in value fields and in URL. Application should not save scripts in the database. Validation at the server end is mandatory.	https://cwe.mitre.org/data/definitions/80.html, https://www.invicti.com/learn/html-injection/	-	Closed
4.	Call Center Solution Web Application	I-Frame injection attack is possible in the application.	CWE-1021	NA	NA	NA	**High**	Implement whitelisting and html encoding for every input field present in the application. Also, output encoding should be implemented. The input data should be validated for special characters both in value fields and in URL. Application should not save scripts in the database. Validation at the server end is mandatory.	https://cwe.mitre.org/data/definitions/1021.html, https://www.invicti.com/web-vulnerability-scanner/vulnerabilities/frame-injection/	-	Closed
5.	Call Center Solution Web Application	Pass the hash (Password Replay) attack is possible in the application.	CWE-836	NA	NA	NA	**High**	SHA-256 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	https://cwe.mitre.org/data/definitions/836.html, https://www.bleepingcomput	New	Closed

								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 be alphanumeric and minimum of 16 characters. • SALT value should not be generated on the client side but always on the	er.com/news/security/pass-the-hash-attacks-and-how-to-prevent-them-in-windows-domains/		

								server side.			
6.	Call Center Solution Web Application	Session Hijacking is possible in the application due to the cookie settings being misconfigured in the application.	CAPEC-593, CWE-384	NA	NA	NA	**High**	1. Add a new cookie that randomly changes for each login attempt. Generate different session id before and after authentication. Also, every request after the successful authentication should be associated with an extra auth cookie: It is possible to view the sensitive information by fetching the page from the cache option of the browser. session identifier cookie which also randomly changes and expires when user logs out from the application or closes the browser. For example, Cookie: AUTHCookie=69BK7F0D8KL; ASP.NET_SessionId=JNHG7H0LKJ57CF4; Cookie: AUTHCookie=5A0KN5F9ER5; ASP.NET_SessionId=JNHG7H0LKJ57CF4; Cookie: AUTHCookie=CG4K8L3T5H; ASP.NET_SessionId=JNHG7H0LKJ57CF4; Cookie: AUTHCookie=L6D3G0JA3S; ASP.NET_SessionId=JNHG7H0LKJ57CF4. 2. SSL should be implemented.	https://capec.mitre.org/data/definitions/593.html,https://owasp.org/www-community/attacks/Session_hijacking_attack,https://www.malcare.com/blog/session-hijacking/	New	Closed
7.	Call Center Solution Web Application	Cross Site Request Forgery (CSRF) attack is po ssible which forces a logged-on victim's browser to send a request to a vulnerable web application, which then performs the chosen action on behalf of the victim.	CWE-352	NA	NA	NA	**High**	Here the problem is - sharing of Cookie values across different instances of the same browser for the same host page. The application should implement the following techniques to prevent the CSRF attack: Insert custom random tokens into every form (page) – • Such that to validate each request a random token is generated for that request on the server side with the server response to the previous request.	https://cwe.mitre.org/data/definitions/352.html, https://cheatsheetseries.owasp.org/cheatsheets/Cross-Site_Request_Forgery_Prevention_Cheat_Sheet.html	New	Closed

								• These tokens will not be shared across different instances of the same browser accessing the same host page. Thus, these tokens will not be automatically submitted by the browser. • Validate the submitted token at the server end. • If the request doesn't contain the token or if the submitted token is incorrect then don't address the request. • Token value should change on each and every request. • Token value should be implemented on Page body. • Token value should be alphanumeric and minimum 32 characters. • Token should also be implemented on logout button. For example: It is recommended the token value should change at each page load event and should be validated on the server side before addressing the request. Also, make sure that server does not address the request if the CSRF token contains previously used values.			
8.	Call Center Solution Web Application	SQL injection (SQLi) refers to an injection attack wherein an attacker can execute malicious SQL statements that control a web application's database server.	CWE-89	NA	NA	NA	**High**	Use parameterized queries when dealing with SQL queries that contain user input. Parameterized queries allow the database to understand which parts of the SQL query should be considered as user input, therefore solving SQL injection.	https://cwe.mitre.org/data/definitions/89.html	New	Closed
9.	Call Center Solution Web Application	The passwords are shown in Clear Text to the end user.	CWE-256	NA	NA	NA	**Medium**	It is recommended that passwords should not be displayed in cleartext to end users by default and should be masked when being displayed with an option to temporarily	https://cwe.mitre.org/data/definitions/256.html, https://www.securecodewar	-	Closed

								remove the masking when needed.	rior.com/article/coders-conquer-security-infrastructure-as-codesensitive-data-storage-plaintext-storage-of-passwords		
10.	Call Center Solution Web Application	Sensitive File disclosure is occurring in the application	CWE-200	NA	NA	NA	**Medium**	Access should be restricted to sensitive files in the application. Only authorized personnel should be able to access sensitive files and proper access control should be maintained/configured to control that.	https://cwe.mitre.org/data/definitions/200.html	New	Closed
11.	Call Center Solution Web Application	One or more configuration files are publicly accessible in this application.	CWE-200	NA	NA	NA	**Medium**	Remove or restrict access to all configuration files accessible from internet.	https://cwe.mitre.org/data/definitions/200.html	New	Closed
12.	Call Center Solution Web Application	Clickjacking attack is possible in application.	CWE-1021	NA	NA	NA	**Medium**	The server-side header “X-frame Options” can permit or forbid displaying the page inside a frame. Thus, the application will not be able to open in any third-party application.	https://cwe.mitre.org/data/definitions/1021.html, https://www.pingidentity.com/en/resources/cybersecurity-fundamentals/threats/clickjacking.html	-	Closed
13.	Call Center Solution Web Application	Banner grabbing (application is displaying Server name/version and web technology name/version which may help attacker to learn more about his target) is possible in the application.	CWE-200	NA	NA	NA	**Medium**	Server and Web technology version should not be displayed to the end user.	https://cwe.mitre.org/data/definitions/200.html, https://support.smarten.com/support/solutions/articles/9000203049-banner-grabbing-vulnerabilities-and-	-	Closed

									solutions		
14.	Call Center Solution Web Application	All HTTP Security Headers are missing at some pages in the application.	CWE-693	NA	NA	NA	**Medium**	HTTP security headers are a fundamental part of website security. Upon implementation, they protect you against the types of attacks that your site is most likely to come across. These headers protect against XSS, code injection, click jacking, etc. The following headers should be implemented. • Cross Site Scripting Protection (X-XSS) • Content Security Policy (CSP) • HTTP Strict Transport Security (HSTS) • X-Frame-Option • X-Content-Type-Options	https://cwe.mitre.org/data/definitions/693.html, https://cheatsheetseries.owasp.org/cheatsheets/HTTP_Headers_Cheat_Sheet.html	-	Closed
15.	Call Center Solution Web Application	There is no limit on number of incorrect passwords retries while trying to login. This may lead to Brute force attack.	CWE-307	NA	NA	NA	**Medium**	Users should be restricted to a defined number of logins attempts per unit of time. After that defined number of login attempt, application should block that user account or CAPTCHA can be implemented at login page. This way automated attempt to login can be checked and brute force attacks can be prevented. 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.	https://cwe.mitre.org/data/definitions/757.html, https://owasp.org/www-community/controls/Blocking_Brute_Force_Attacks	-	Closed
16.	Call Center Solution Web Application	HTTP Methods are enabled in the application.	CWE-650	NA	NA	NA	**Medium**	HTTP methods should be disabled in the application which may prevent the application from security breach. Only GET and POST	https://cwe.mitre.org/data/definitions/650.html, https://do	-	Closed

								method should be enabled in the application.	cs.fluidattacks.com/criteria/vulnerabilities/044/		
17.	Call Center Solution Web Application	Old and Vulnerable version of libraries and environment are being used in the application.	CWE-1104	NA	NA	NA	**Medium**	It is recommended to use latest and stable version for more secured application.	https://cwe.mitre.org/data/definitions/1104.html	-	Closed
18.	Call Center Solution Web Application	Client-side desync (CSD) vulnerabilities occur when a web server fails to correctly process the Content-Length of POST requests. By exploiting this behavior, an attacker can force a victim's browser to desynchronize its connection with the website, typically leading to XSS.	CWE-444	NA	NA	NA	**Low**	This vulnerability can be resolved by patching the server so that it either processes POST requests correctly or closes the connection after handling them. You could also disable connection reuse entirely, but this may reduce performance. You can also resolve this issue by enabling HTTP/2	https://cwe.mitre.org/data/definitions/444.html	New	Closed
19.	Call Center Solution Web Application	Password History is not maintained in the application.	CWE-262	NA	NA	NA	**Low**	Users should be prevented from reusing their current or previous 3 passwords. Password history should ideally be 3.	https://cwe.mitre.org/data/definitions/262.html	-	Closed
20.	Call Center Solution Web Application	Password Complexity is not implemented properly in the application	CWE-521	NA	NA	NA	**Low**	Password should be complex	https://cwe.mitre.org/data/definitions/521.html	-	Closed
21.	Call Center Solution Web Application	Multiple Ports are open in the application.	CWE-1125	NA	NA	NA	**Low**	Only port 443 must be open in the application, all other remaining ports must be closed.	https://cwe.mitre.org/data/definitions/1125.html, https://blog.netwrix.com/2022/08/16/open-network-ports/	-	Closed
22.	Call Center Solution Web Application	Input validations not implemented properly in the application.	CWE-20	NA	NA	NA	**Low**	Input validations should be properly implemented in the application.	https://cwe.mitre.org/data/definitions/20.html	-	Closed
23.	Call Center Solution Web	Path is set to default root i.e. '/'.	CWE-41	NA	NA	NA	**Low**	Verify that the path attribute, just as the Domain attribute, has not been set too	https://cwe.mitre.org/data/definitions/4	-	Closed

	Application							loosely. Even if the Domain attribute has been configured as tight as possible, if the path is set to the root directory "/" then it can be vulnerable to less secure applications on the same server.	1.html		
24.	Call Center Solution Web Application	Cookie is displaying without SECURE flag.	CWE-614	NA	NA	NA	**Low**	Secure flag should be "True" in website's configuration file.	https://cwe.mitre.org/data/definitions/614.html	-	Closed
25.	Call Center Solution Web Application	HTTPonly flag is not set properly in the application.	CWE-1004	NA	NA	NA	**Low**	HTTPonly flag should be set to "True" in website's configuration file.	https://cwe.mitre.org/data/definitions/1004.html	-	Closed
26.	Call Center Solution Web Application	Same Site attribute set to none.	CWE-1275	NA	NA	NA	**Low**	Same Site attribute should be set to "LAX or STRICT".	https://cwe.mitre.org/data/definitions/1275.html, https://probely.com/vulnerabilities/cookie-with-samesite-attribute-set-to-none	-	Closed
27.	Call Center Solution Web Application	There is no forgot password option available for the user.	CWE-620	NA	NA	NA	**Low**	Users may be required to retrieve their password. Users should be provided with a "forgot password" option through which user will retrieve their password whenever required. Forgot password should be enabled with the users email address. There are following conditions that should be met in the forget password function: 1. A reset link should be sent to the user registered email address instead of password directly. 2. Reset Password link should expire in 24 hours. 3. Reset Password link should not be reused again once the link is used for resetting password. 4. In the Reset	https://cwe.mitre.org/data/definitions/620.html	-	Closed

								Password page, Mandatory fields i.e. new password, Confirm Password and CAPTCHA field must present and should be validated at the client end. Server end validations are also mandatory. However, if the password retrieval is internal in the application, then it is recommended to implement a hyperlink on login page resulting to a static page containing a message. "Please contact your site administrator at mail_id[at]domain[dot] com". Please note that the email address in the message should not be a hyperlink			
28.	Call Center Solution Web Application	Session termination due to user inactivity is not properly configured in the application.	CWE-613	NA	NA	NA	**Low**	In case of session termination by the application due to inactivity of the user within his session for more than 15 minutes, application must terminate session completely and login page must be loaded in the main window instead of in a child frame of the window.	https://cwe.mitre.org/data/definitions/613.html	New	Closed
29.	Call Center Solution Web Application	Email spamming is possible in the application.	CWE-799	NA	NA	NA	**Low**	The application should properly customize the email addresses while posting on the website as: 1. Email addresses should be posted as an image not as a hyperlink. Alternatively, instead of @symbol, [at] should be used. Similarly, the dot character (.) should be replaced by [dot]. So abc@nic.in should be written as abc[at]nic[dot]in. 2. High privilege email addresses should not be posted on the website.	https://cwe.mitre.org/data/definitions/799.html	New	Closed
30.	Call Center Solution Web	Autofill is enabled in forms	CWE-200	NA	NA	NA	**Low**	Application should not have the option to remember information entered by the user as	https://portswigger.net/kb/issues/0050	-	Closed

	Application	.						this may cause unavailability of services to valid users. AutoComplete option should be turned off by the application so as to override any settings by the user from the browser.	0800_password-field-with-autocomplete-enabled https://cwe.mitre.org/data/definitions/200.html		
31.	Call Center Solution Web Application	Old TLS versions are still being used in the application.	CWE-757	NA	NA	NA	**Low**	TLS v1.2 or higher should be used. All other TLS versions should be removed.	https://cwe.mitre.org/data/definitions/757.html	-	Closed
32.	Call Center Solution Web Application	The application may be vulnerable to DOM-based open redirection. Data is read from **location.href** and passed to **xhr.open**.	CWE-757	NA	NA	NA	**Low**	The most effective way to avoid DOM-based open redirection vulnerabilities is not to dynamically set redirection targets using data that originated from any untrusted source. If the desired functionality of the application means that this behavior is unavoidable, then defenses must be implemented within the client-side code to prevent malicious data from introducing an arbitrary URL as a redirection target. In general, this is best achieved by using a whitelist of URLs that are permitted redirection targets, and strictly validating the target against this list before performing the redirection.	https://cwe.mitre.org/data/definitions/757.html	New	Closed
33.	Call Center Solution Web Application	OTP masking is not implemented in the application.	CWE-549	NA	NA	NA	**Low**	OTP should be masked and should not be viewable in clear text to end user or an option should be provided to unmask, if needed.	https://cwe.mitre.org/data/definitions/549.html	New	Closed
34.	Call Center Solution Web Application	Cleartext submission of password	CWE-549	NA	NA	NA	**Low**	OTP should be masked and should not be viewable in clear text to end user or an option should be provided to unmask, if needed.	https://cwe.mitre.org/data/definitions/549.html	New	Closed
35.	Call Center Solution	The application does not maintain audit	CWE-778	NA	NA	NA	**Observation**	An Audit trail should be incorporated in the application admin	https://cwe.mitre.org/data/de	-	Closed

	Web Application	trail properly where all user activities must be logged. In case a malicious user tries to attack the application; the application will not be able to trace the attacker.						module, where all user activities must be logged.	finitions/778.html		

Applicable in case of compliance Audits such as ISO/IEC 27001 Audit, PCI DSS audit, audit as per regulatory requirements / directions or any other such audit which checks compliance against standards/guidelines/directions mandated/recommended by a regulator or government agency.

Detailed Observations

Finding No. 1

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Unrestricted Upload of File with Dangerous Type.

iii) Detailed observation / Vulnerable point: It is possible to upload malicious files in the application.

iv) CVE/CWE: CWE-434

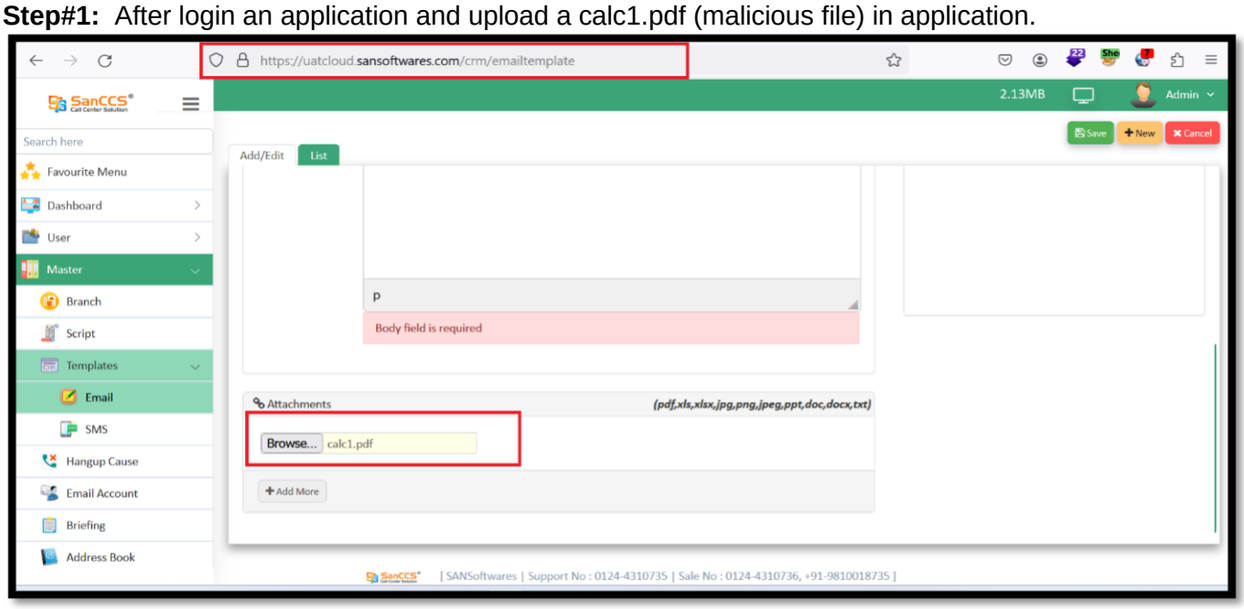
v) Severity: Critical

vi) Recommendation: Following things should be implemented in file upload module:
• Inspect the content of uploaded files, and enforce a white list of accepted, non-executable content types. Additionally, enforce a blacklist of common executable formats, to hinder hybrid file attacks.
• Enforce a white list of accepted, non-executable file extensions.
• If uploaded files are downloaded by users, supply an accurate non-generic Content-type header, and also a Content-disposition header which specifies that browsers should handle the file as an attachment.
• Enforce a size limit on uploaded files (max 8-10 MB); this can be implemented both within application code and in the web server's configuration.
• Reject attempts to upload archive formats such as ZIP.
• Multiple file extension like test.pdf.txt.php.jif.jpg should not be allowed for upload.
• Proper checks to be put on Content type and MIME type as well. Validation at the server end must be mandatory.

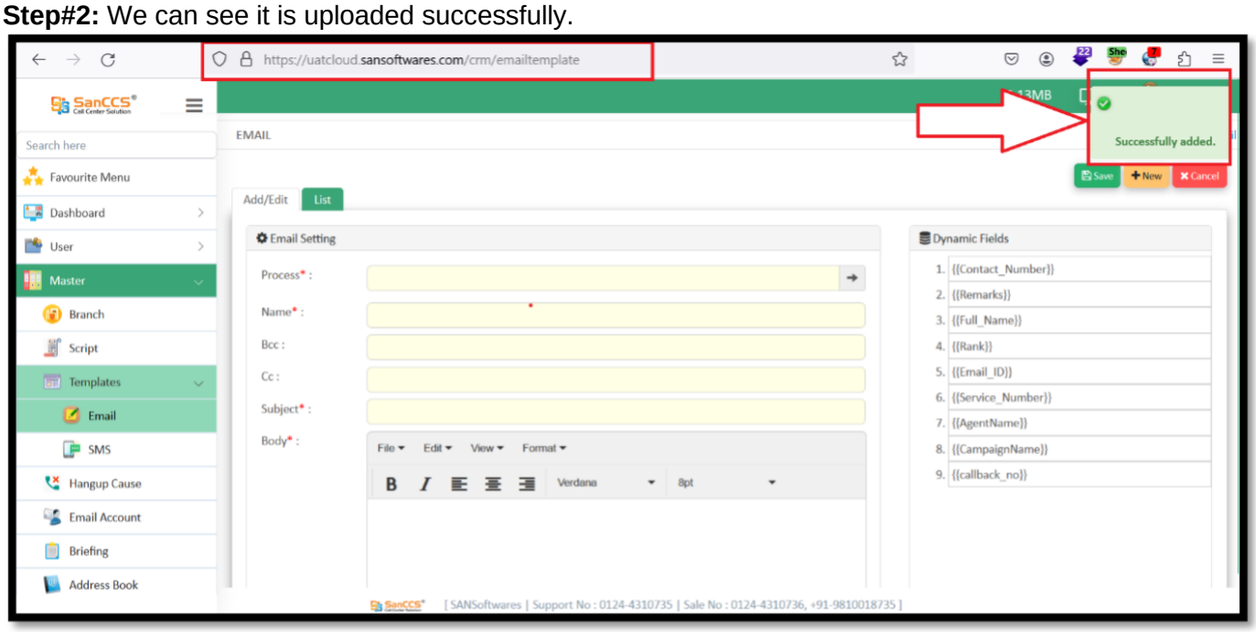
vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/434.html,
https://owasp.org/www-community/vulnerabilities/Unrestricted_File_Upload

ix) References to evidences / Proof of Concept:
Step#1: After login an application and upload a calc1.pdf (malicious file) in application.



Step#2: We can see it is uploaded successfully.



Finding No. 2

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Improper Neutralization of Input During Web Page Generation.

iii) Detailed observation / Vulnerable point: Cross Site scripting attack (XSS) is possible in the application.

iv) CVE/CWE: CWE-79

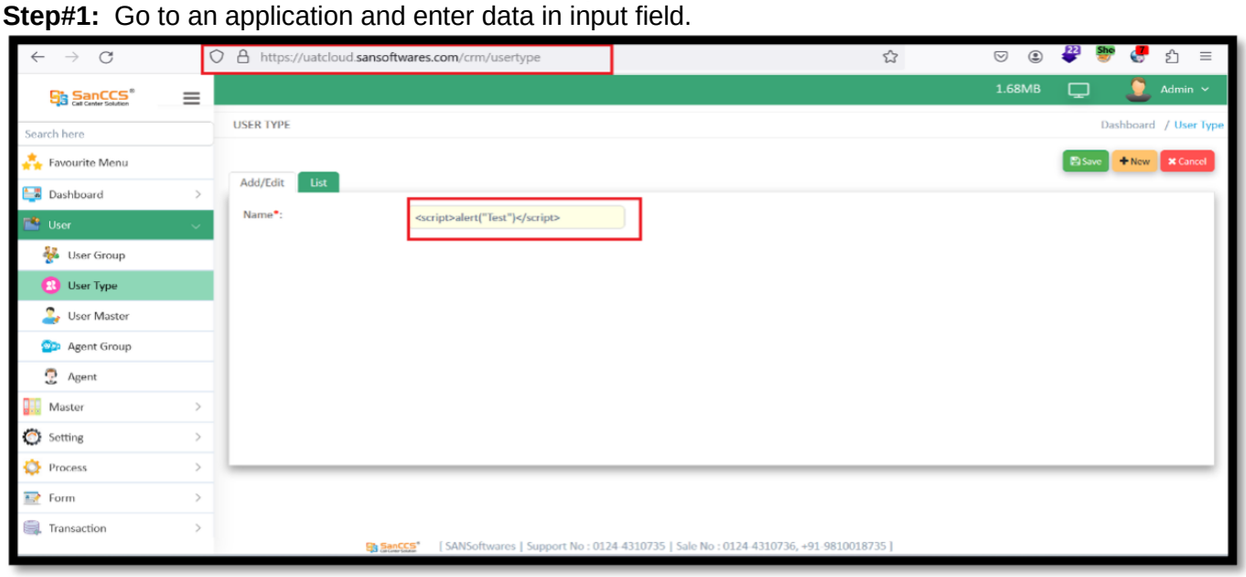
v) Severity: High

vi) Recommendation: Implement whitelisting and html encoding for every input field present in the application. Also, output encoding should be implemented. The input data should be validated for special characters both in value fields and in URL. Application should not save scripts in the database. Validation at the server end is mandatory.

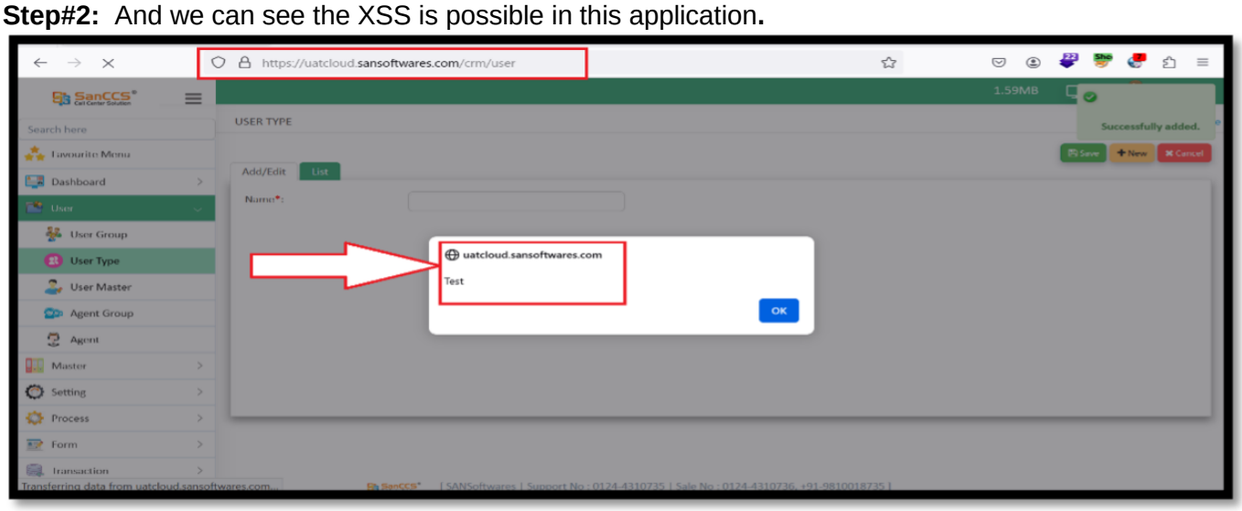
vii) Current Status: Closed

viii) Reference:
https://cwe.mitre.org/data/definitions/79.html,https://www.acunetix.com/websitesecurity/cross-site-scripting/

ix) References to evidences / Proof of Concept:
Step#1: Go to an application and enter data in input field.



Step#2: And we can see the XSS is possible in this application**.**



Finding No. 3

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Improper Neutralization of Script-Related HTML Tags in a Web Page.

iii) Detailed observation /vulnerable point: HTML injection attack is possible in the application.

iv) CVE/CWE: CWE-80

v) Severity: High

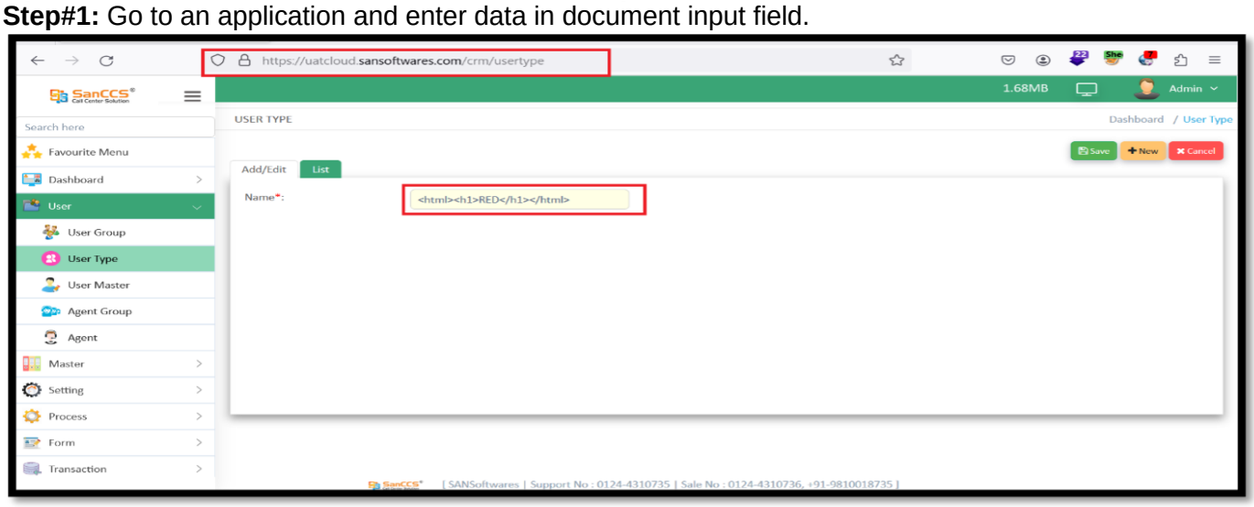
vi) Recommendation: Implement whitelisting and html encoding for every input field present in the application. Also, output encoding should be implemented. The input data should be validated for special characters both in value fields and in URL. Application should not save scripts in the database. Validation at the server end is mandatory.

vii) Current Status: Closed

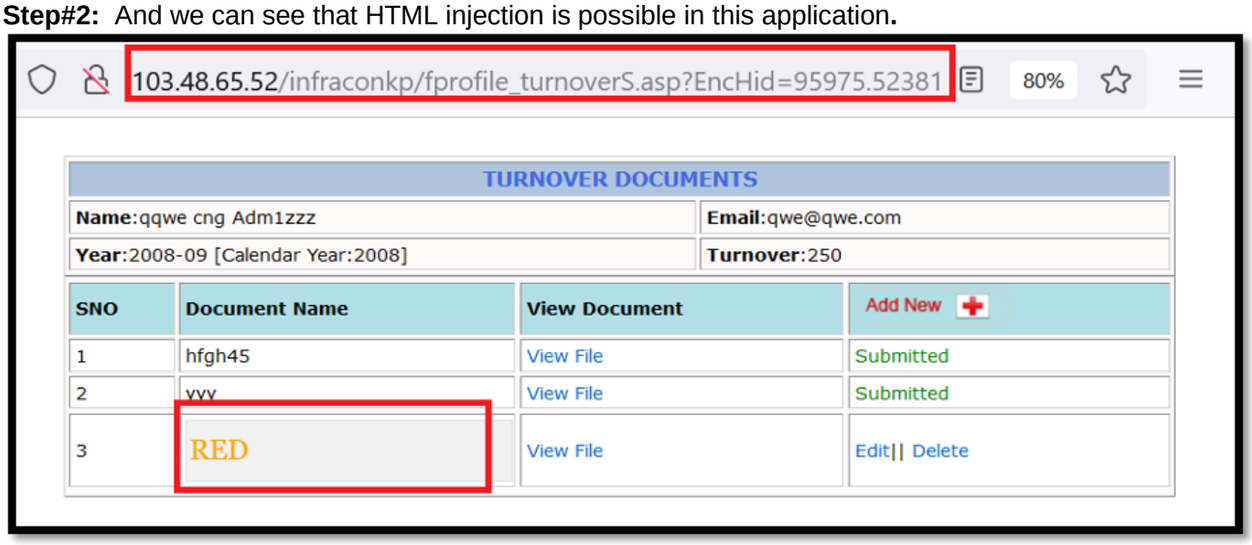
viii) Reference: https://cwe.mitre.org/data/definitions/80.html, https://www.invicti.com/learn/html-injection/

ix) References to evidences / Proof of Concept:

Step#1: Go to an application and enter data in document input field.



Step#2: And we can see that HTML injection is possible in this application**.**



Finding No. 4

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Improper Restriction of Rendered UI Layers or Frames

iii) Detailed observation /vulnerable point: I-Frame injection attack is possible in the application.

iv) CVE/CWE: CWE-1021

v) Severity: High

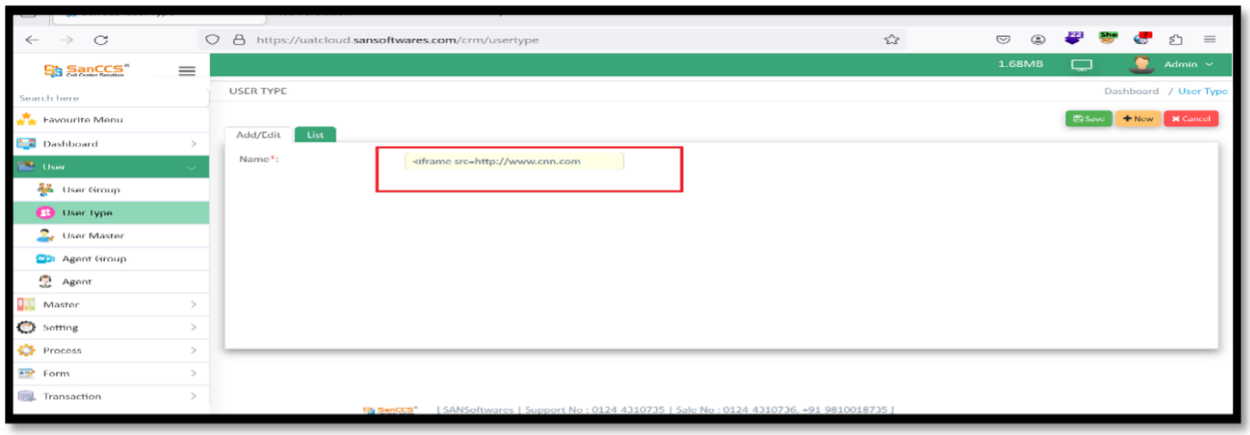
vi) Recommendation: Implement whitelisting and html encoding for every input field present in the application. Also, output encoding should be implemented. The input data should be validated for special characters both in value fields and in URL. Application should not save scripts in the database. Validation at the server end is mandatory.

vii) Current Status: Closed

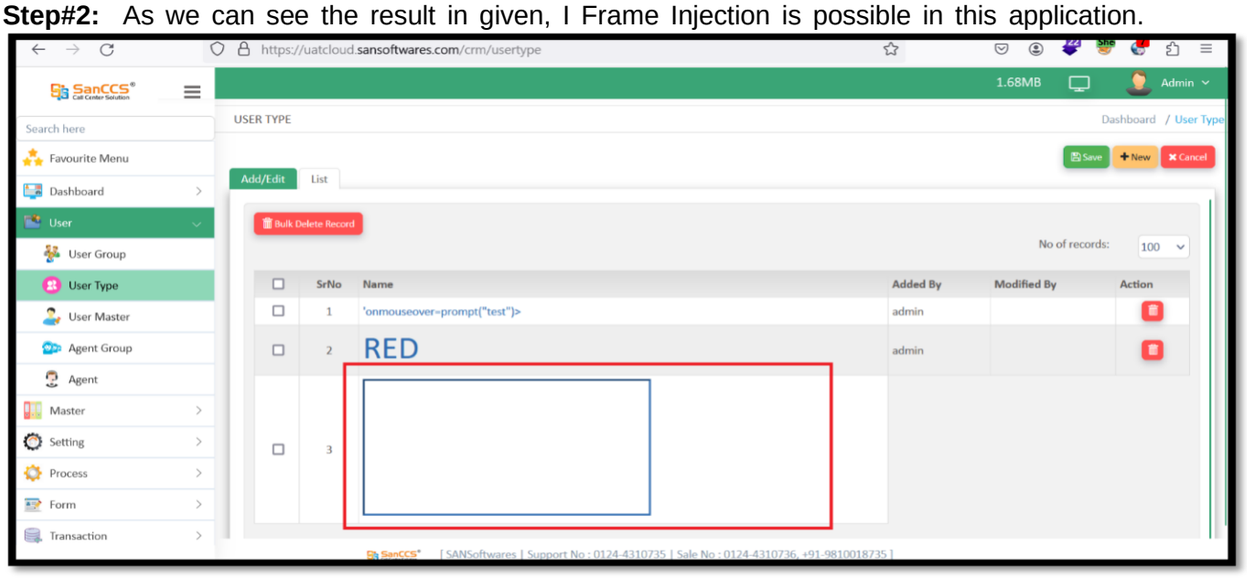
viii) Reference: https://cwe.mitre.org/data/definitions/1021.html, https://www.invicti.com/web-vulnerability-scanner/vulnerabilities/frame-injection/

ix) References to evidences / Proof of Concept:

Step#1: Go to an application and enter data in document input field and capture the request.



Step#2: As we can see the result in given, I Frame Injection is possible in this application.



Finding No. 5

i) **IP/URL/Application:** CALL CENTER SOLUTION Web Application.

ii) **Observation/ Vulnerability title:** Use of Password Hash Instead of Password for Authentication.

iii) **Detailed observation / Vulnerable point**: Pass the hash (Password Replay) attack is possible in the application.

iv) **CVE/CWE:** CWE-836

v) **Severity:** High

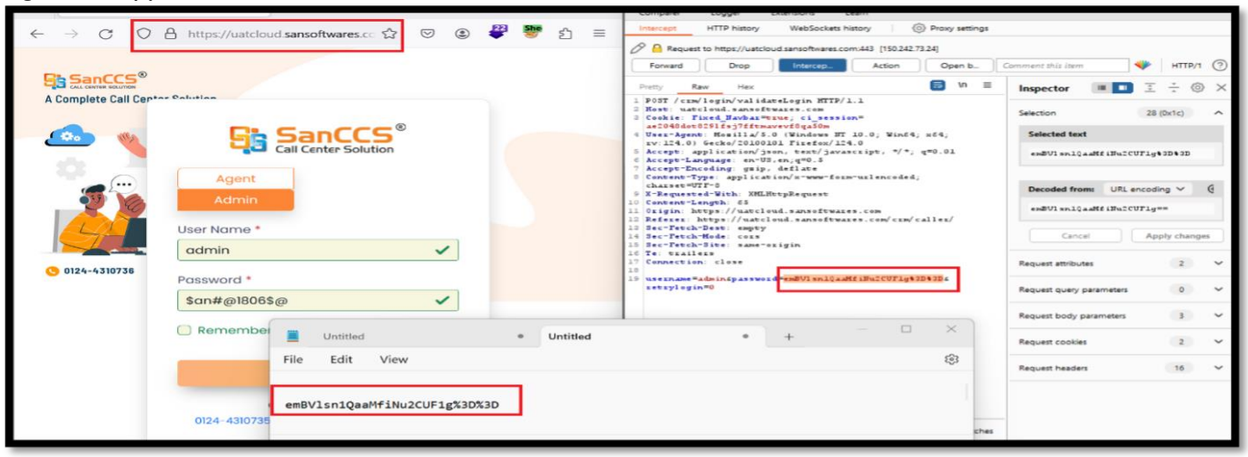
vi) **Recommendation:** SHA-256 Salted Hashing technique in “authentication or login module” should be implemented. The pre-requisite to this is that the backend database stores a SHA-256 or hash of the password. (SHA-256 hash is a cryptographic technique in which the actual value can never be recovered). 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 be alphanumeric and minimum of 16 characters. • SALT value should not be generated on the client side but always on the server side.

vii) **Current Status:** Closed

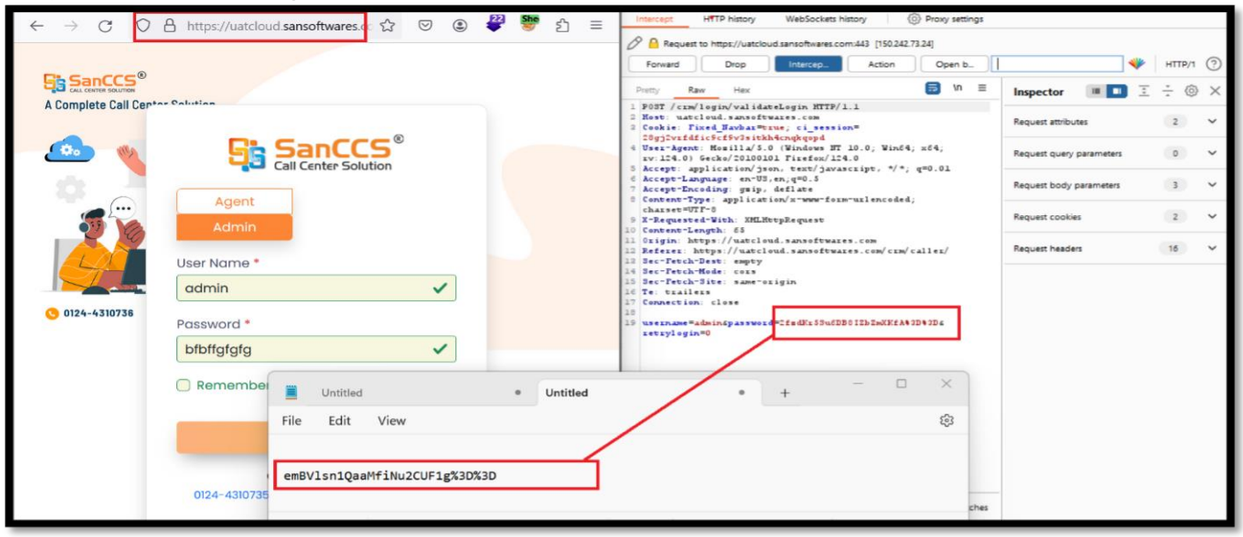
viii) **Reference:** https://cwe.mitre.org/data/definitions/836.html, https://www.bleepingcomputer.com/news/security/pass-the-hash-attacks-and-how-to-prevent-them-in-windows-domains/

ix) **References to evidences / Proof of Concept:**

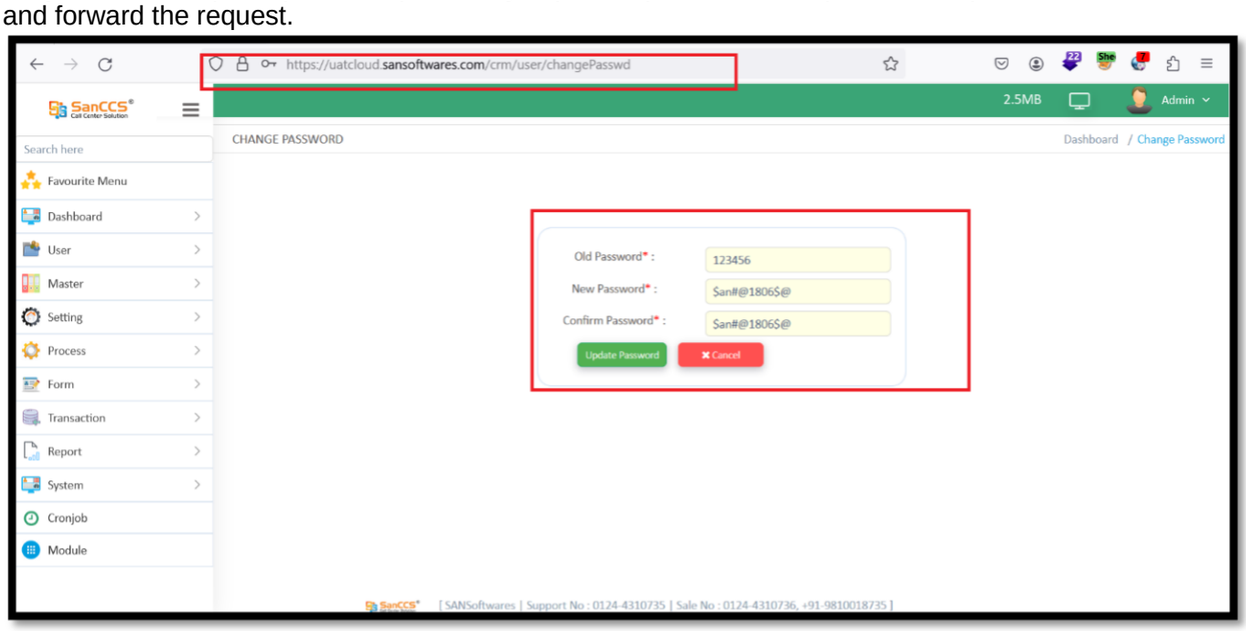
Step#1: Login in Web Application with correct User ID and Password and Capture the login request in Burp Suite, copy the password hash, and paste it into a notepad. Afterwards, disable the proxy and logout an application.



Step#2: Attempt to log in with an incorrect password and capture the corresponding request using a proxy and, In the request, paste the previously copied request from Notepad into the password hash field, and forward the request.



Step#3: In the request, paste the previously copied request from Notepad into the password hash field, and forward the request.



Finding No. 6

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Exposure of Sensitive Information to an Unauthorized Actor.

iii) Detailed observation /vulnerable point: Session Hijacking is possible in the application due to the cookie settings being misconfigured in the application

iv) CVE/CWE: CAPEC-593, CWE-384

v) Severity: High

vi) Recommendation: 1. Add a new cookie that randomly changes for each login attempt. Generate different session id before and after authentication. Also, every request after the successful authentication should be associated with an extra auth cookie: It is possible to view the sensitive information by fetching the page from the cache option of the browser. session identifier cookie which also randomly changes and expires when user logs out from the application or closes the browser. For example,
Cookie: AUTHCookie=69BK7F0D8KL; ASP.NET_SessionId= JNHG7H0LKJ57CF4;
Cookie: AUTHCookie=5A0KN5F9ER5; ASP.NET_SessionId= JNHG7H0LKJ57CF4;
Cookie: AUTHCookie=CG4K8L3T5H; ASP.NET_SessionId= JNHG7H0LKJ57CF4;
Cookie: AUTHCookie=L6D3G0JA3S; ASP.NET_SessionId= JNHG7H0LKJ57CF4.
2. SSL should be implemented.

vii) Current Status: Closed

viii) Reference: https://capec.mitre.org/data/definitions/593.html,
https://owasp.org/www-community/attacks/Session_hijacking_attack,
https://www.malcare.com/blog/session-hijacking/

ix) References to evidences / Proof of Concept: N/A

Finding No. 7

i) **IP/URL/Application:** CALL CENTER SOLUTION Web Application

ii) **Observation/ Vulnerability title:** Exposure of Sensitive Information to an Unauthorized Actor.

iii) **Detailed observation /vulnerable point:** Cross Site Request Forgery (CSRF) attack is possible which forces a logged-on victim's browser to send a request to a vulnerable web application, which then performs the chosen action on behalf of the victim.

iv) **CVE/CWE:** CWE-352

v) **Severity:** High

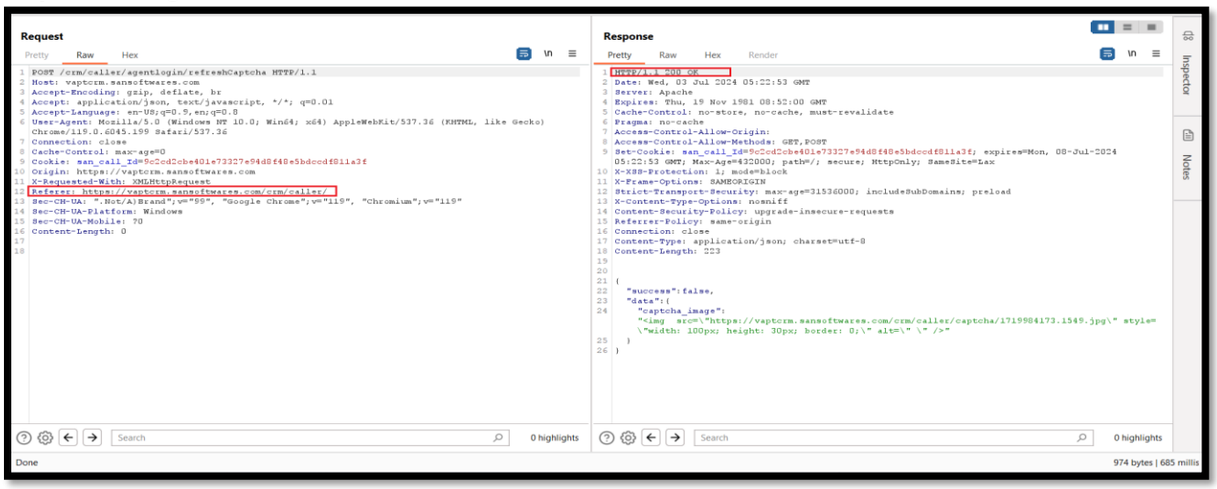
vi) **Recommendation:** Here the problem is - sharing of Cookie values across different instances of the same browser for the same host page. The application should implement the following techniques to prevent the CSRF attack: Insert custom random tokens into every form (page)

• Such that to validate each request a random token is generated for that request on the server side with the server response to the previous request.
• These tokens will not be shared across different instances of the same browser accessing the same host page. Thus, these tokens will not be automatically submitted by the browser.
• Validate the submitted token at the server end.
• If the request doesn't contain the token or if the submitted token is incorrect then don't address the request.
• Token value should change on each and every request.
• Token value should be implemented on Page body.
• Token value should be alphanumeric and minimum 32 characters.
• Token should also be implemented on logout button.
For example: It is recommended the token value should change at each page load event and should be validated on the server side before addressing the request. Also, make sure that server does not address the request if the CSRF token contains previously used values.

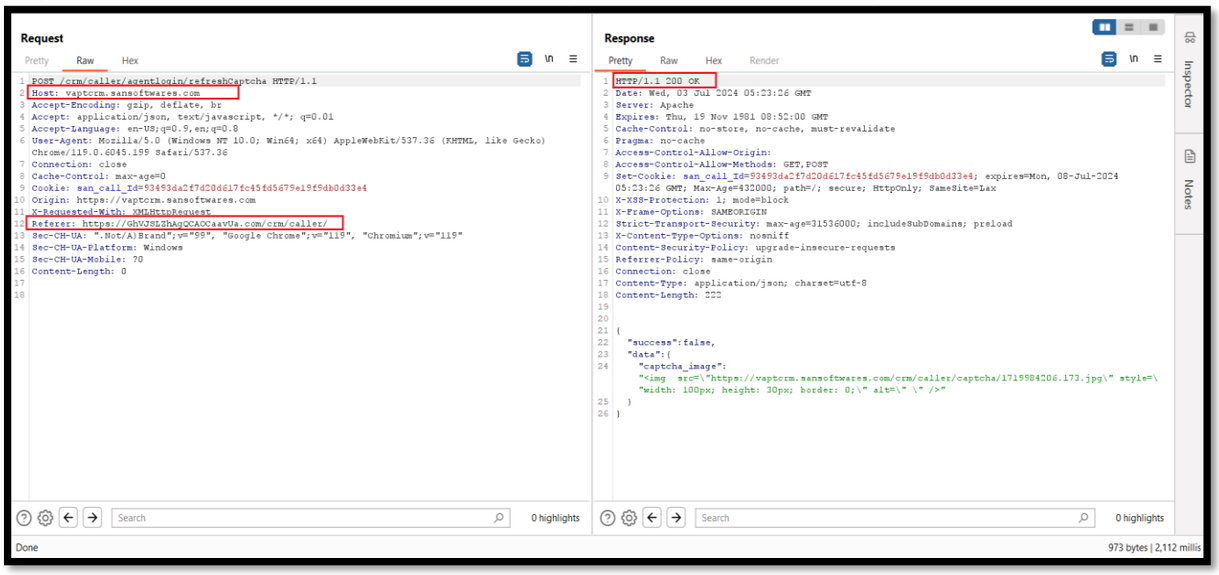
vii) **Current Status:** Closed

viii) **Reference:** https://cwe.mitre.org/data/definitions/352.html, https://cheatsheetseries.owasp.org/cheatsheets/Cross-Site_Request_Forgery_Prevention_Cheat_Sheet.html

ix) **References to evidences / Proof of Concept:**
Step#1: Open the URL, login with valid credentials of user, and capture the request on Burp Suite.
Step#2: Change the Referrer



Step#3: observe from the screenshot below, request is 200 OK, CSRF is possible.



Finding No. 8

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Improper Neutralization of Special Elements.

iii) Detailed observation /vulnerable point: SQL injection (SQLi) refers to an injection attack wherein an attacker can execute malicious SQL statements that control a web application's database server.

iv) CVE/CWE: CWE-89

v) Severity: Medium

vi) Recommendation: Use parameterized queries when dealing with SQL queries that contain user input. Parameterized queries allow the database to understand which parts of the SQL query should be considered as user input, therefore solving SQL injection.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/256.html, https://www.securecodewarrior.com/article/coders-conquer-security-infrastructure-as-codesensitive-data-storage-plaintext-storage-of-passwords

ix) References to evidences / Proof of Concept:

Step#1: Observed from the screenshot below, URL encoded POST input registered_agent was set to 1À§À¢%2527%2522.

```
POST /crm/caller/agentlogin/validateAgent HTTP/1.1

Content-Type: application/x-www-form-urlencoded

Referer: https://vaptcrm.sansoftwares.com/crm/caller/

Cookie: san_call_Id=adb4a6a662c67e2c9143c05dc18d1cc5406e76de;
san_Id=286bea11c3910a8d1e3d8ec0717178931bd9d75c

Content-Length: 89

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

Accept-Encoding: gzip,deflate,br

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: vaptcrm.sansoftwares.com

Connection: Keep-alive


registered_agent=1%00%C0%A7%C0%A2%252527%252522&registered_agent_email=sample%40email.tst
```

Finding No. 9

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Exposure of Sensitive Information to an Unauthorized Actor.

iii) Detailed observation /vulnerable point: The sensitive information is shown in Clear Text to the end user.

iv) CVE/CWE: CWE-256

v) Severity: Medium

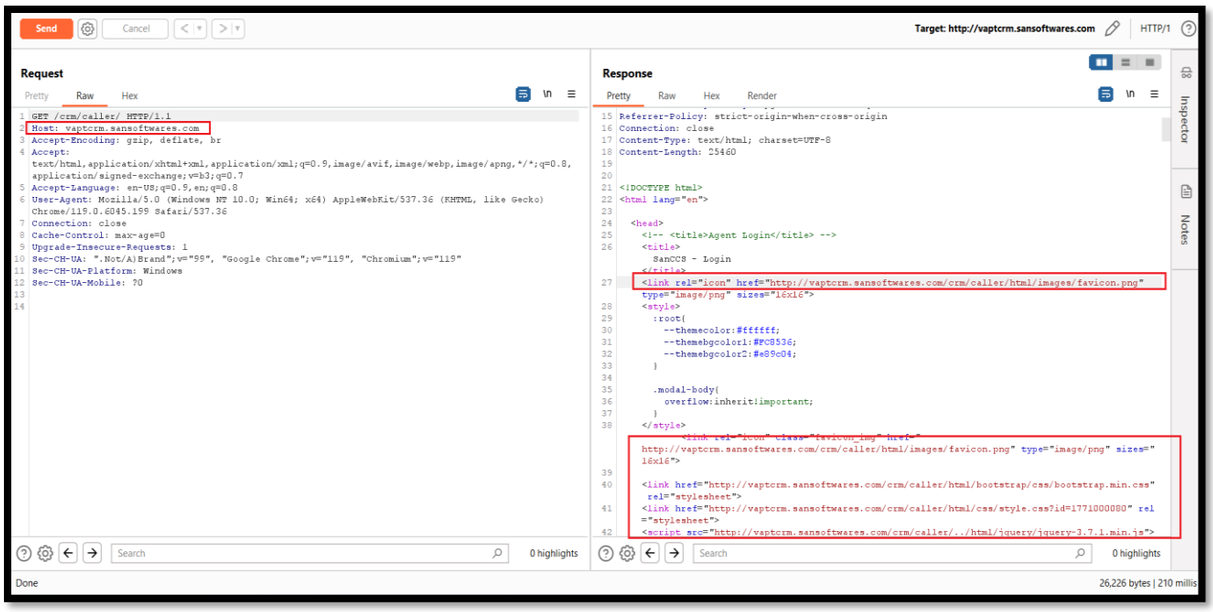
vi) Recommendation: It is recommended that data should not be displayed in cleartext to end users by default and should be masked when being displayed with an option to temporarily remove the masking when needed.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/256.html, https://www.securecodewarrior.com/article/coders-conquer-security-infrastructure-as-codesensitive-data-storage-plaintext-storage-of-passwords

ix) References to evidences / Proof of Concept:

Step#1: Observed from the screenshot below, Sensitive information displayed in the application in the clear text.



Finding No. 10

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Exposure of Sensitive Information to an Unauthorized Actor.

iii) Detailed observation /vulnerable point: Sensitive File disclosure is occurring in the application.

iv) CVE/CWE: CWE-200

v) Severity: Medium

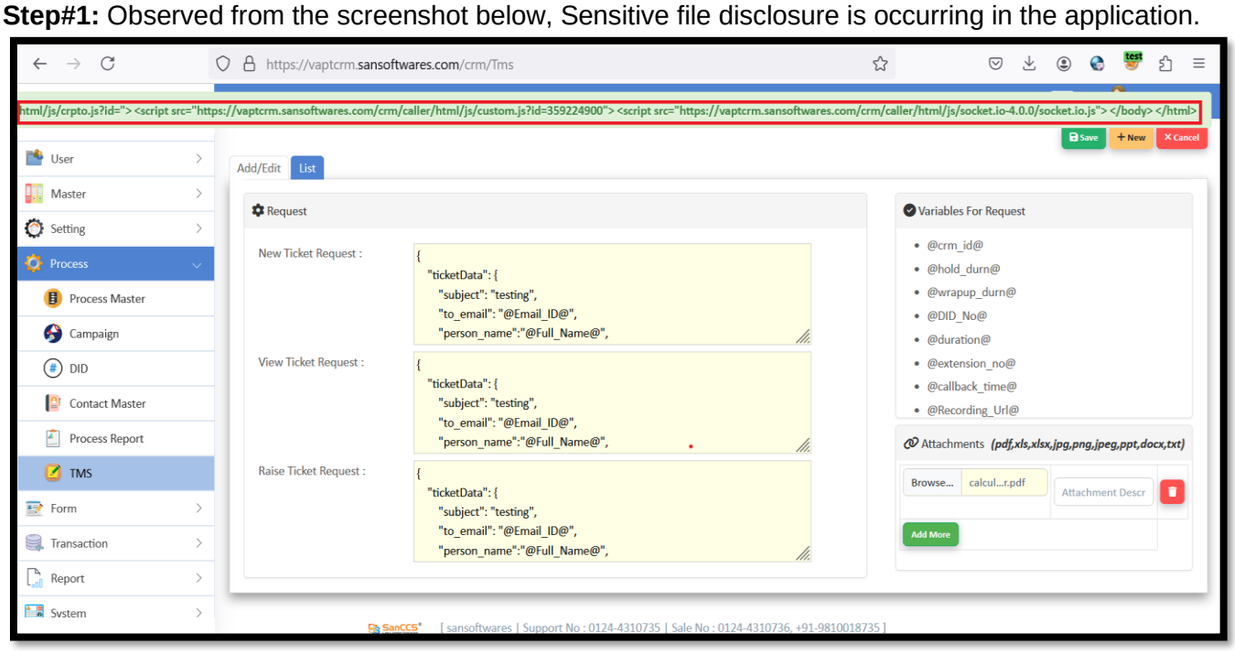
vi) Recommendation: Access should be restricted to sensitive files in the application. Only authorized personnel should be able to access sensitive files and proper access control should be maintained/configured to control that.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/200.html

ix) References to evidences / Proof of Concept:

Step#1: Observed from the screenshot below, Sensitive file disclosure is occurring in the application.



Finding No. 11

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Exposure of Sensitive Information to an Unauthorized Actor.

iii) Detailed observation /vulnerable point: One or more configuration files are publicly accessible in this application.

iv) CVE/CWE: CWE-200

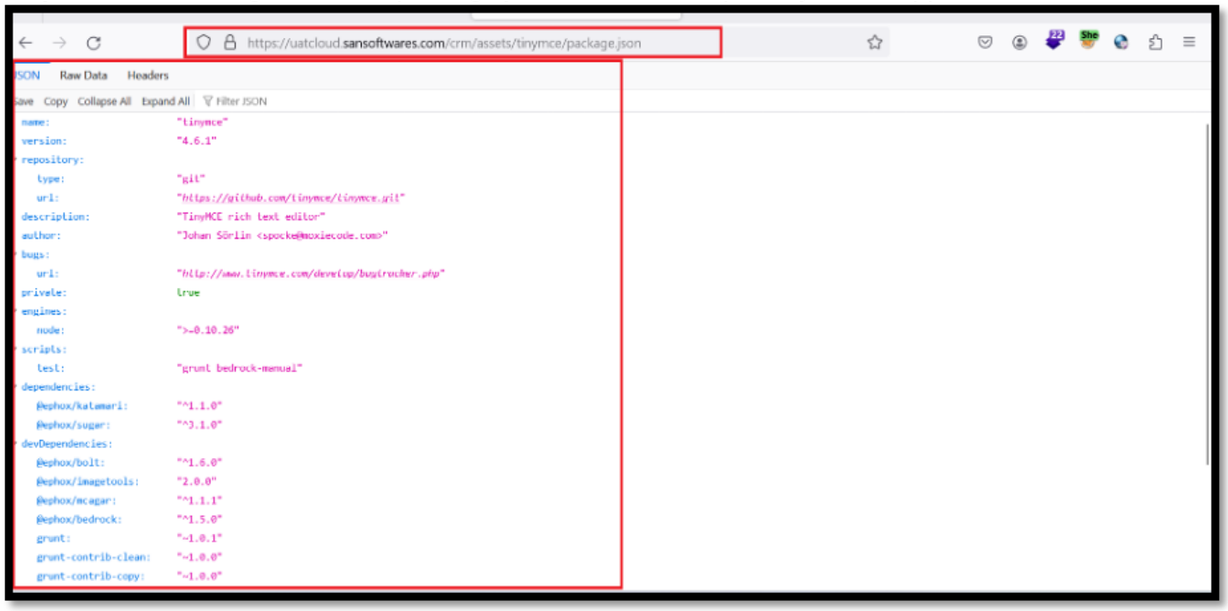
v) Severity: Medium

vi) Recommendation: Remove or restrict access to all configuration files accessible from internet.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/200.html

ix) References to evidences / Proof of Concept:
Step#1: we can see given below package.json file disclosed publicly in this application.



Finding No. 12

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Improper Restriction of Rendered UI Layers or Frames

iii) Detailed observation /vulnerable point: Clickjacking attack is possible in application.

iv) CVE/CWE: CWE-1021

v) Severity: Medium

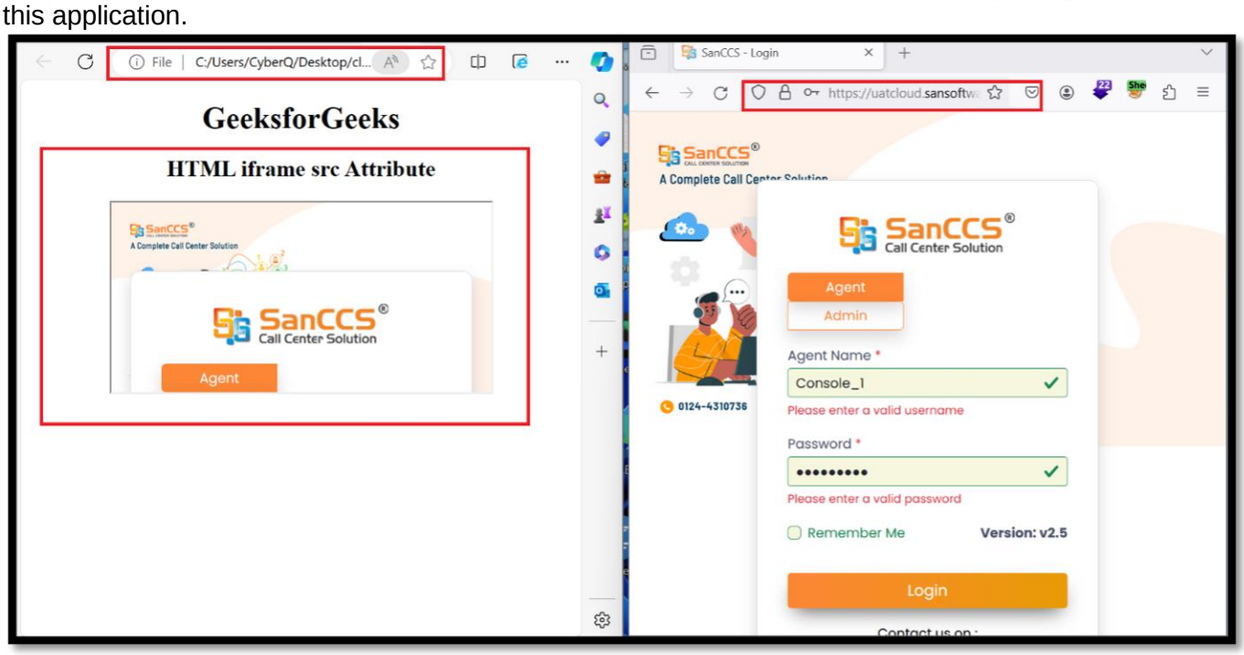
vi) Recommendation: The server-side header “X-frame Options” can permit or forbid displaying the page inside a frame. Thus, the application will not be able to open in any third-party application.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/1021.html, https://www.pingidentity.com/en/resources/cybersecurity-fundamentals/threats/clickjacking.html

ix) References to evidences / Proof of Concept:

Step#1: We can see in below screenshot; application is open in a frame. So, clickjacking possible in this application.



Finding No. 13

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Exposure of Sensitive Information to an Unauthorized Actor.

iii) Detailed observation /vulnerable point: Banner grabbing (application is displaying Server name/version and web technology name/version which may help attacker to learn more about his target) is possible in the application.

iv) CVE/CWE: CWE-200

v) Severity: Medium

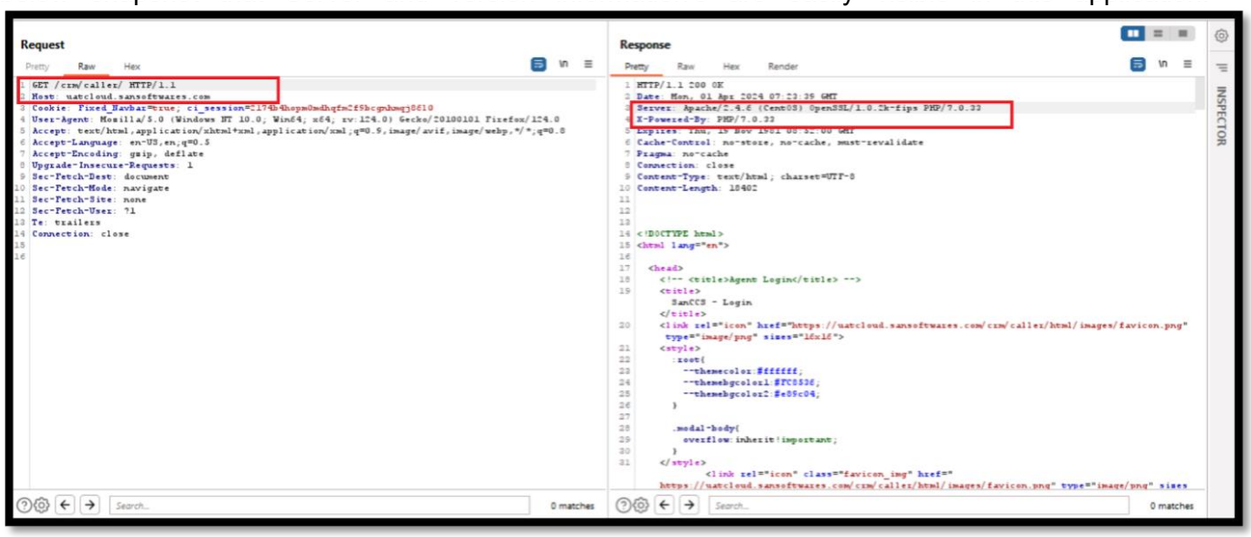
vi) Recommendation: Server and Web technology version should not be displayed to the end user.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/200.html, https://support.smarten.com/support/solutions/articles/9000203049-banner-grabbing-vulnerabilities-and-solutions

ix) References to evidences / Proof of Concept:

Step#1: Using Burp Suite, we capture the request of a webpage of the application and we can see in below snapshot that Server and version information's are easily visible in this application.



Finding No. 14

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Protection Mechanism Failure

iii) Detailed observation /vulnerable point: All HTTP Security Headers are missing at some pages in the application.

iv) CVE/CWE: CWE-693

v) Severity: Medium

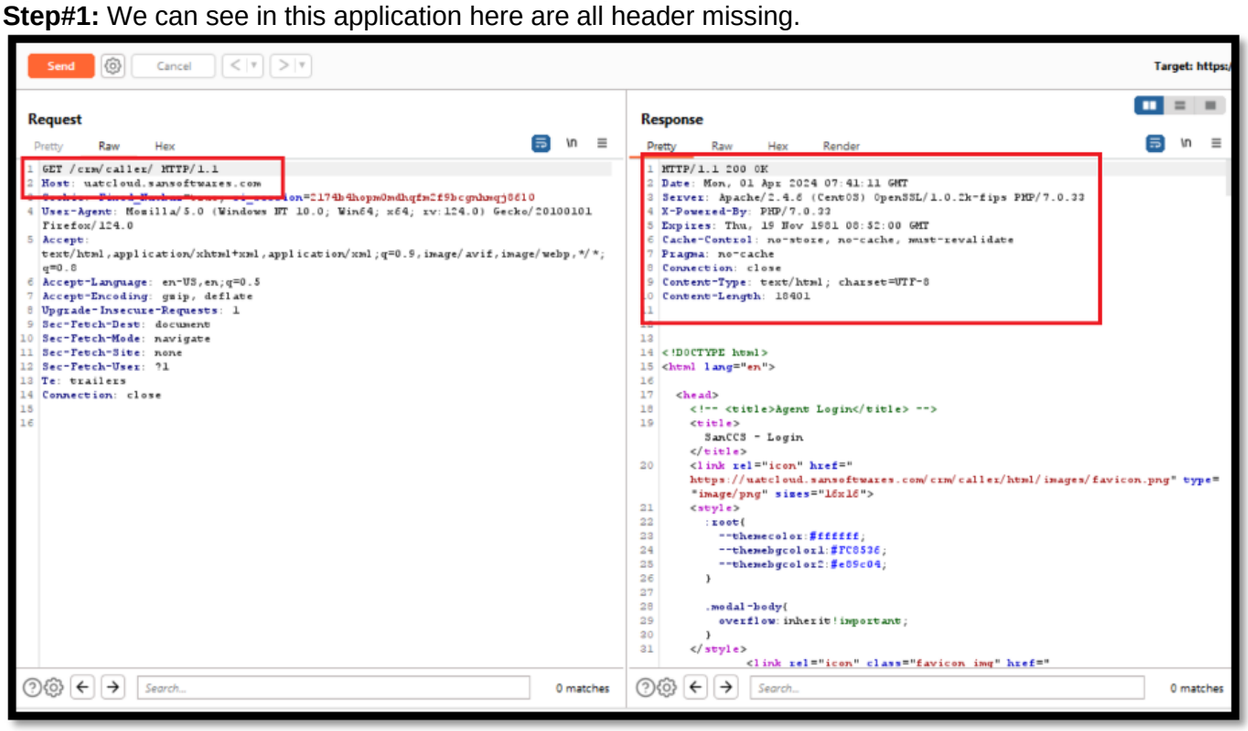
vi) Recommendation: HTTP security headers are a fundamental part of website security. Upon implementation, they protect you against the types of attacks that your site is most likely to come across. These headers protect against XSS, code injection, click jacking, etc. The following headers should be implemented. • Cross Site Scripting Protection (X-XSS) • Content Security Policy (CSP) • HTTP Strict Transport Security (HSTS) • X-Frame-Option • X-Content-Type-Options.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/693.html, https://cheatsheetseries.owasp.org/cheatsheets/HTTP_Headers_Cheat_Sheet.html

ix) References to evidences / Proof of Concept:

Step#1: We can see in this application here are all header missing.



Finding No. 15

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Improper Restriction of Excessive Authentication Attempts

iii) Detailed observation / Vulnerable point: There is no limit on number of incorrect passwords retries while trying to login. This may lead to Brute force attack.

iv) CVE/CWE: CWE-307

v) Severity: Medium

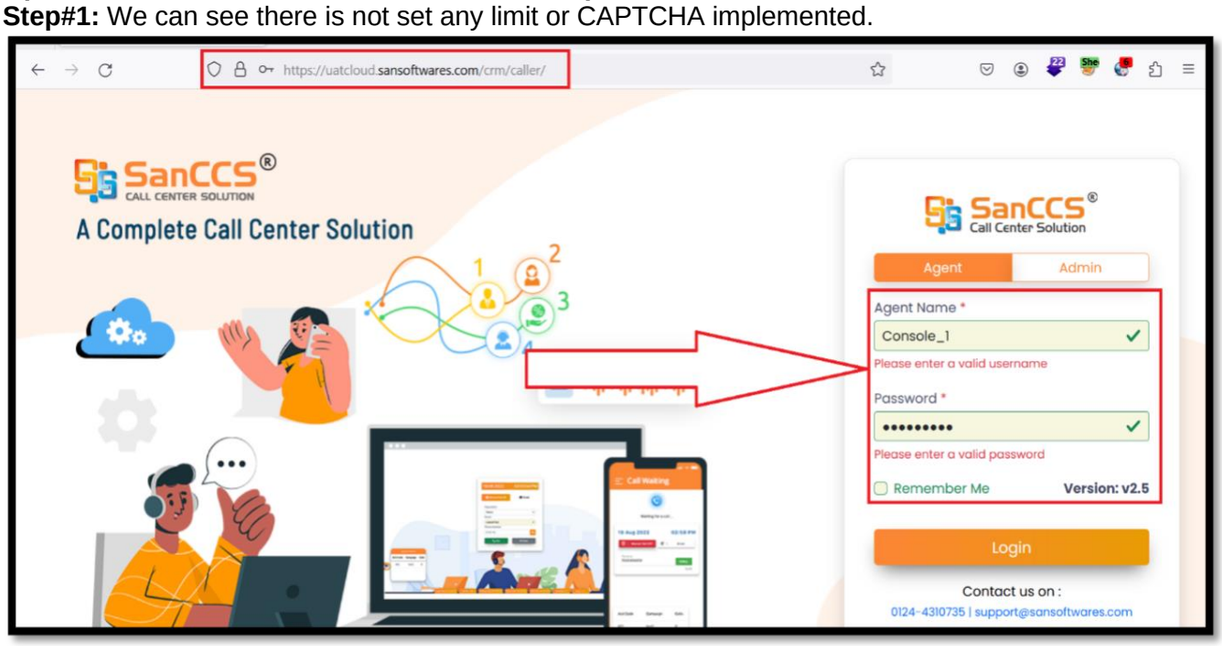
vi) Recommendation: Users should be restricted to a defined number of login attempts per unit of time. After that defined number of login attempt, application should block that user account or CAPTCHA can be implemented at login page. This way automated attempt to login can be checked and brute force attacks can be prevented. 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.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/757.html, https://owasp.org/www-community/controls/Blocking_Brute_Force_Attacks

ix) References to evidences / Proof of Concept:

Step#1: We can see there is not set any limit or CAPTCHA implemented.



Finding No. 16

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Trusting HTTP Permission Methods on the Server Side

iii) Detailed observation /vulnerable point: HTTP Methods are enabled in the application.

iv) CVE/CWE: CWE-650

v) Severity: Medium

vi) Recommendation: HTTP methods should be disabled in the application which may prevent the application from security breach. Only GET and POST method should be enabled in the application.

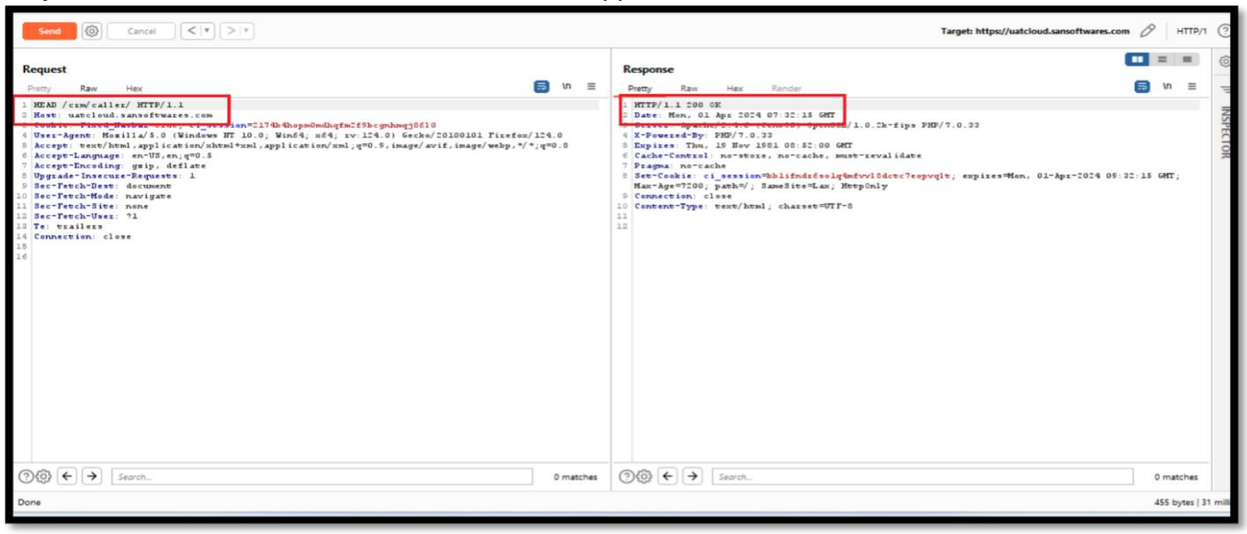
vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/650.html

ix) References to evidences / Proof of Concept:

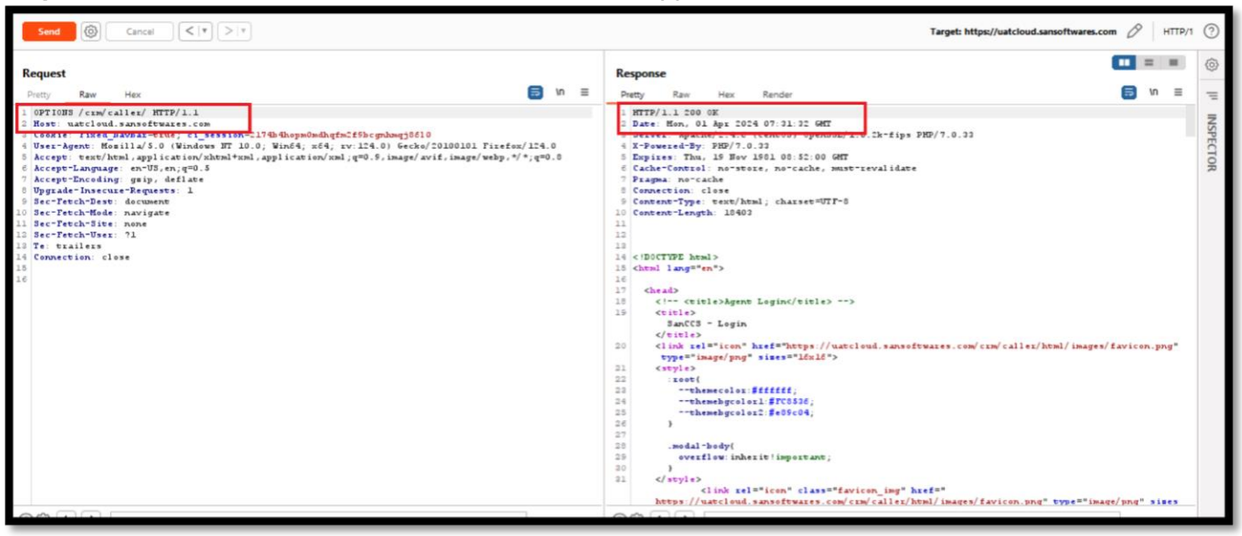
Case#1: HEAD Method Enabled

Step#1: We can see Head method enable in this application.



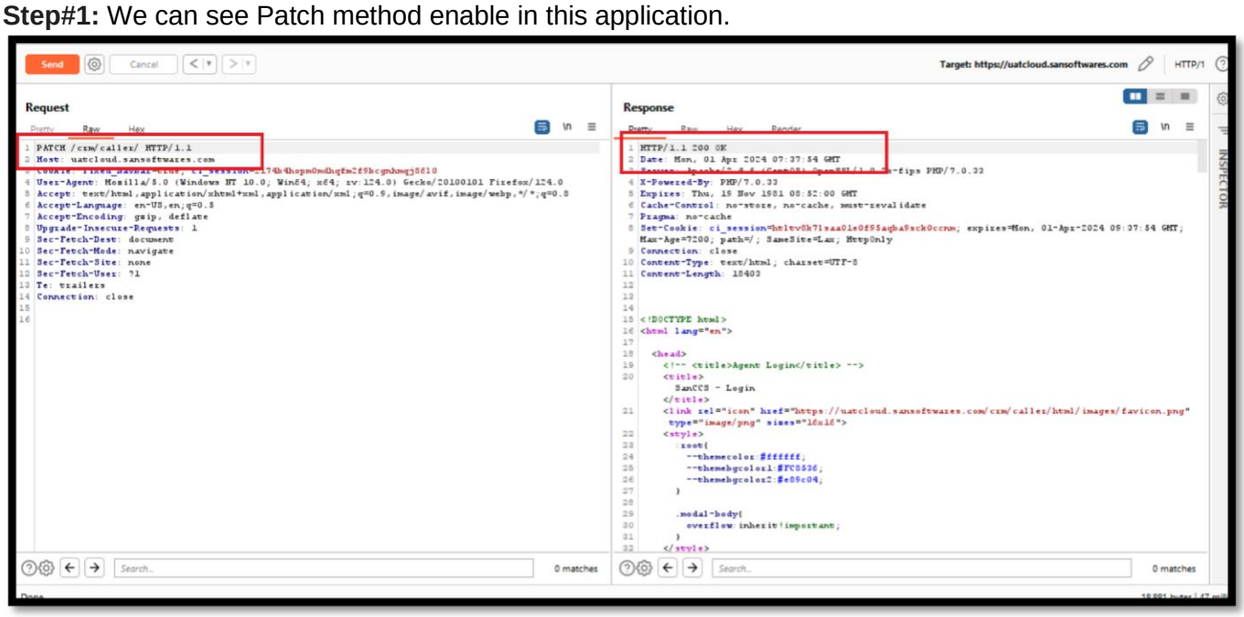
Case#2: OPTIONS Method Enabled

Step#1: We can see OPTIONS method enable in this application.



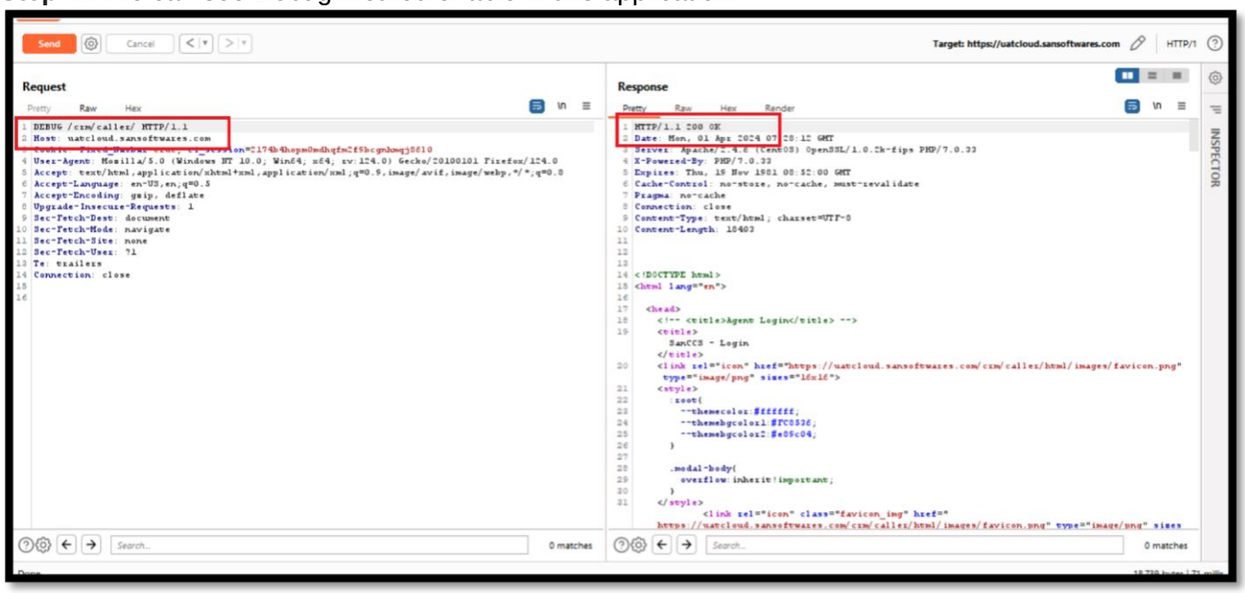
Case#3: Patch Method Enabled

Step#1: We can see Patch method enable in this application.



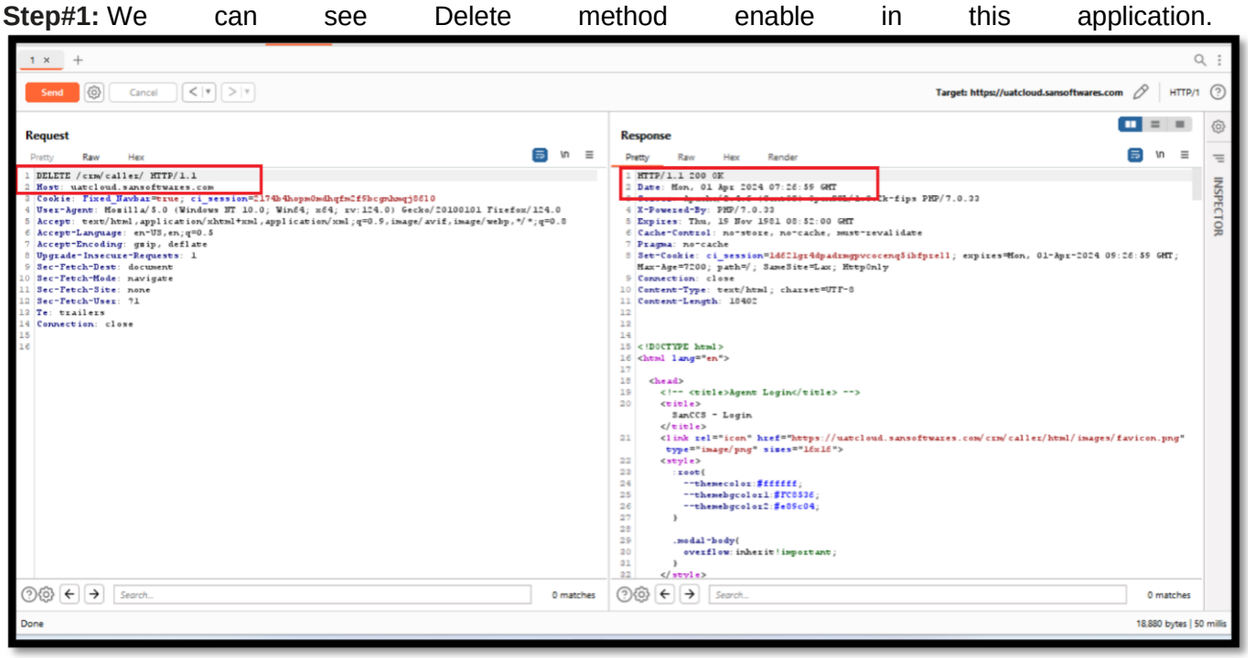
Case#4: DEBUG Method Enabled

Step#1: We can see Debug method enable in this application.



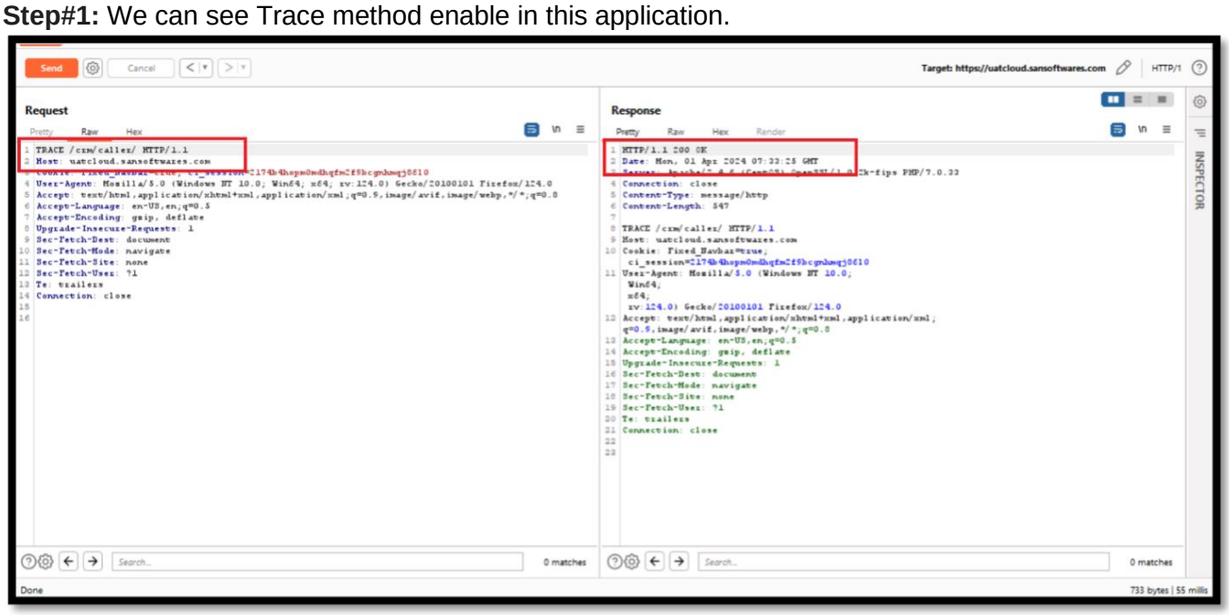
Case#5: Delete Method Enabled

Step#1: We can see Delete method enable in this application.



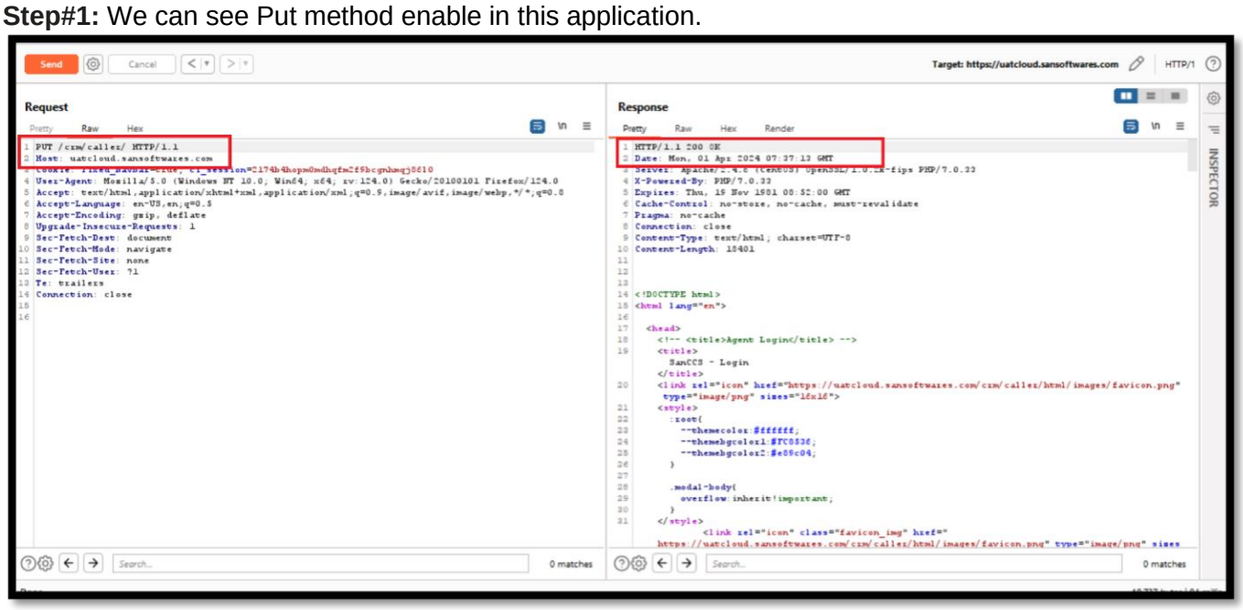
Case#6: TRACE Method Enabled

Step#1: We can see Trace method enable in this application.



Case#7: PUT Method Enabled

Step#1: We can see Put method enable in this application.



Finding No. 17

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Use of Unmaintained Third-Party Components

iii) Detailed observation / Vulnerable point: Old and vulnerable version of libraries and environment are still being used in the application.

iv) CVE/CWE: CWE-1104

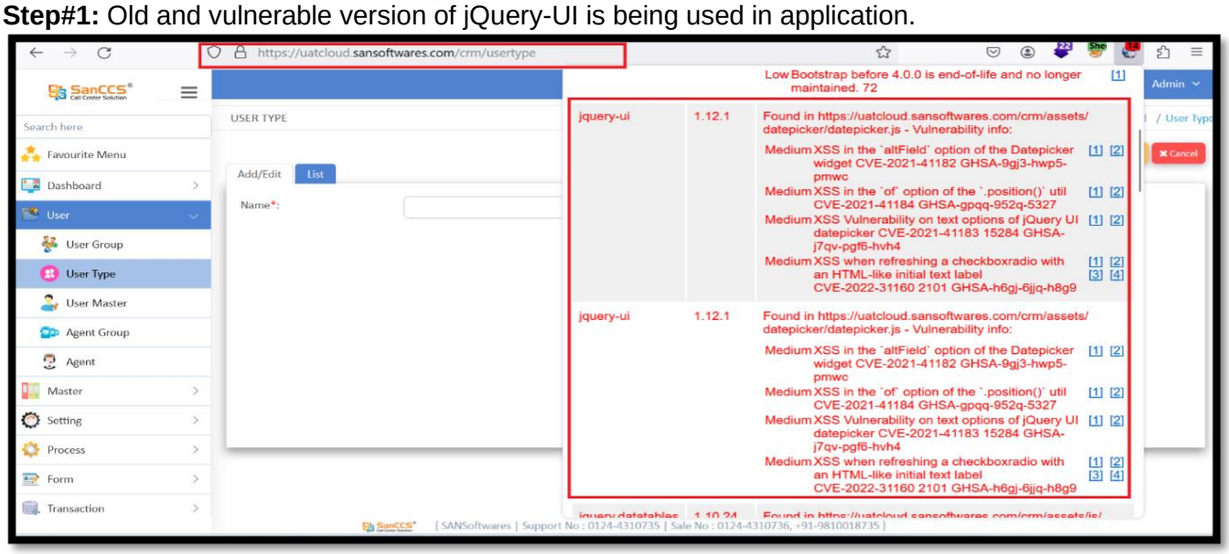
v) Severity: Medium

vi) Recommendation: It is recommended to use latest and stable version for more secured application.

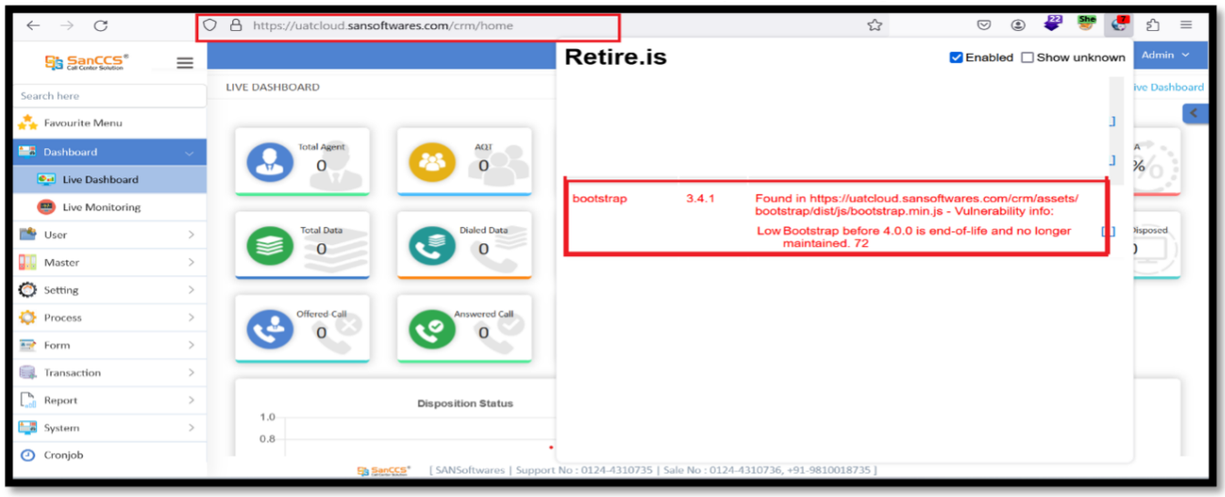
vii) Current Status: Closed

viii) Reference https://cwe.mitre.org/data/definitions/1104.html

ix) References to evidences / Proof of Concept:
Case#1: Old and vulnerable jQuery-UI
Step#1: Old and vulnerable version of jQuery-UI is being used in application.

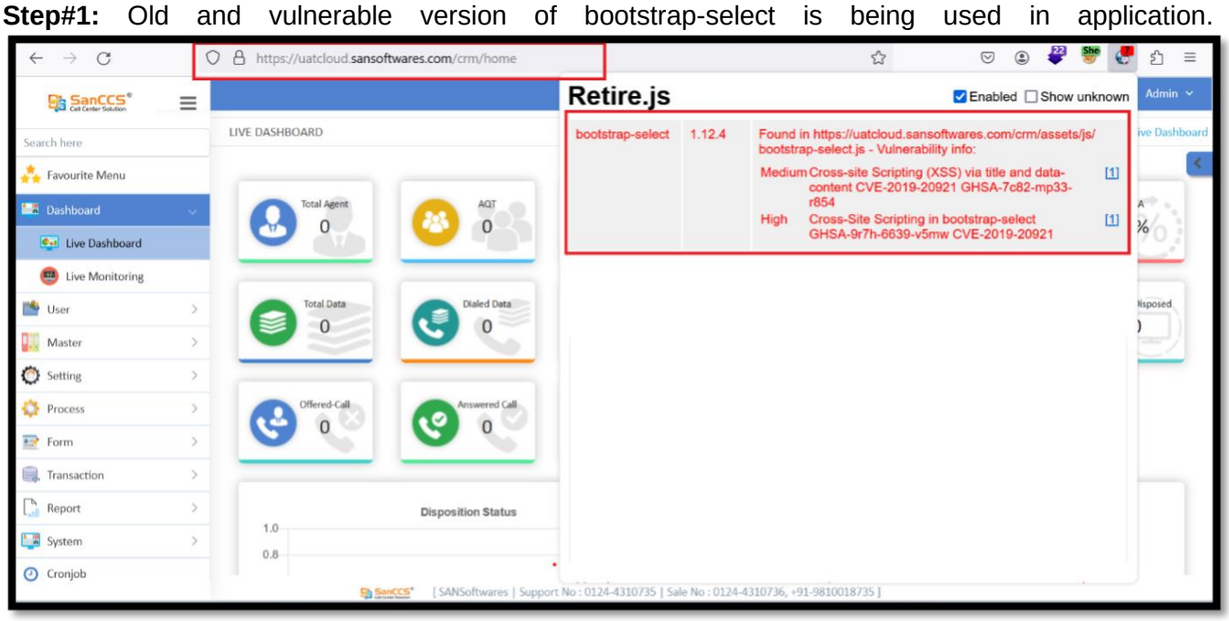


Case#2: Old and vulnerable bootstrap
Step#1: Old and vulnerable version of bootstrap is being used in application.



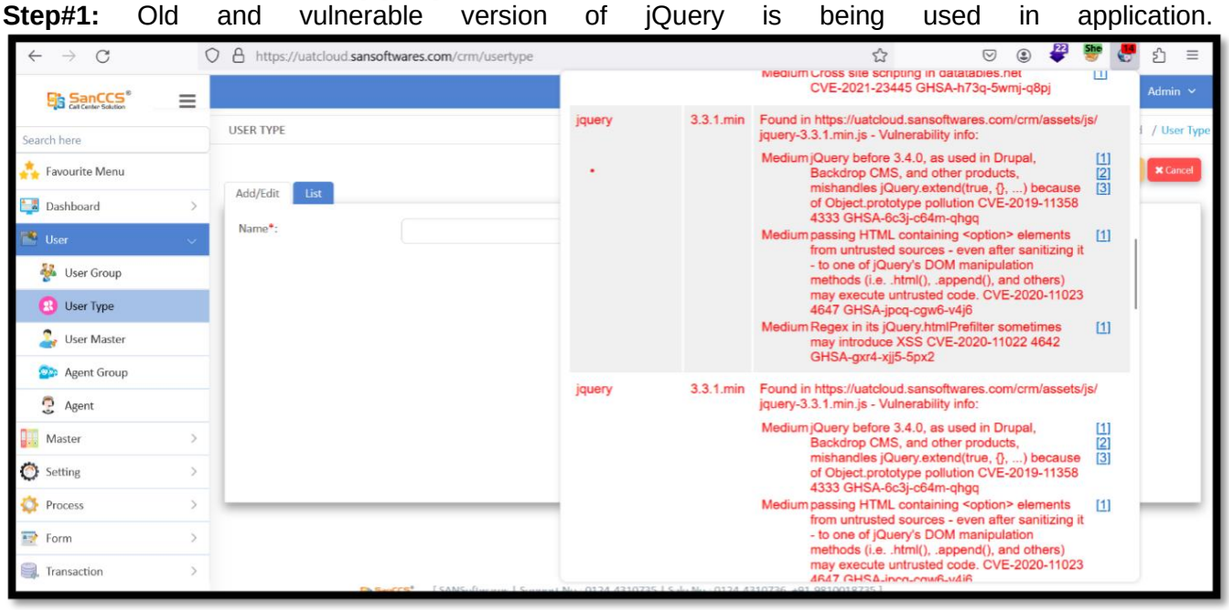
Case#3: Old and vulnerable bootstrap-select

Step#1: Old and vulnerable version of bootstrap-select is being used in application.



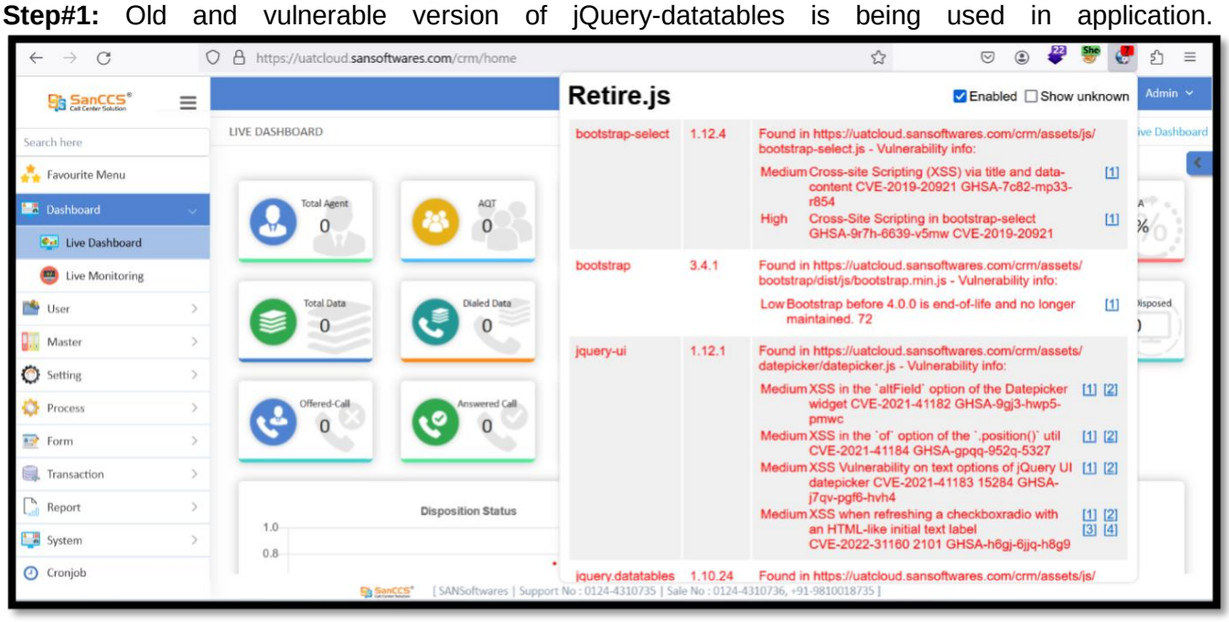
Case#4: Old and vulnerable jQuery

Step#1: Old and vulnerable version of jQuery is being used in application.



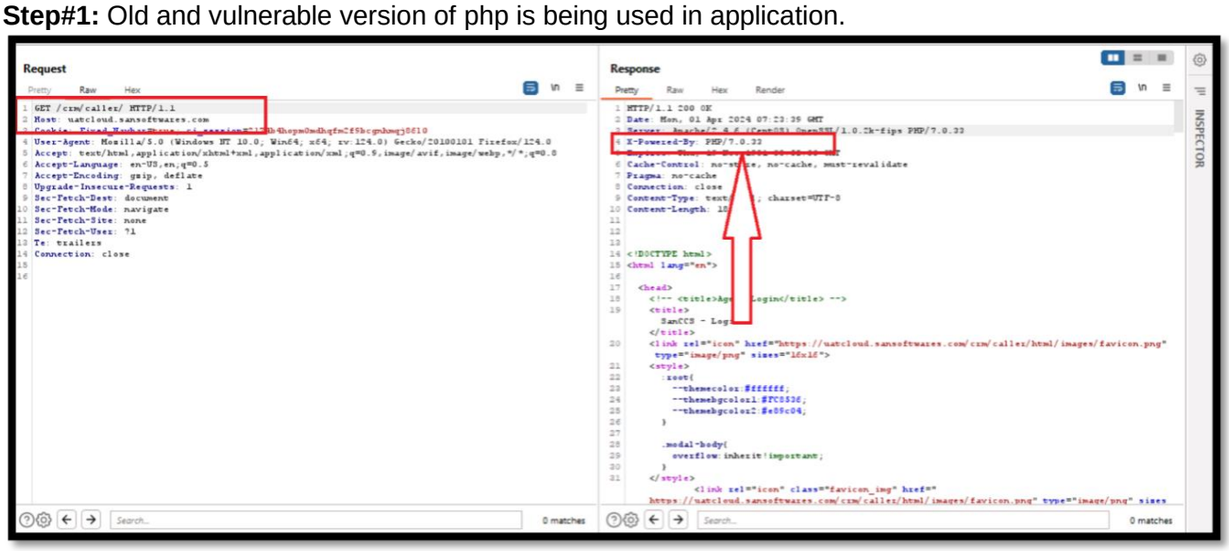
Case#5: Old and vulnerable jquery-datatables

Step#1: Old and vulnerable version of jQuery-datatables is being used in application.



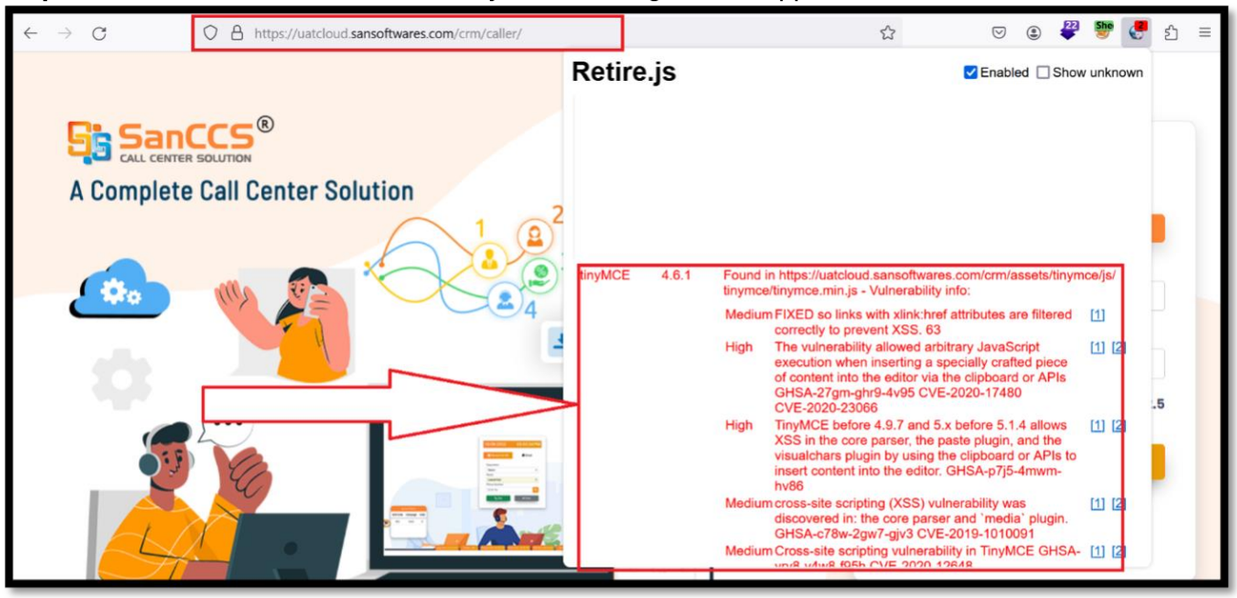
Case#6: Old and vulnerable PHP

Step#1: Old and vulnerable version of php is being used in application.



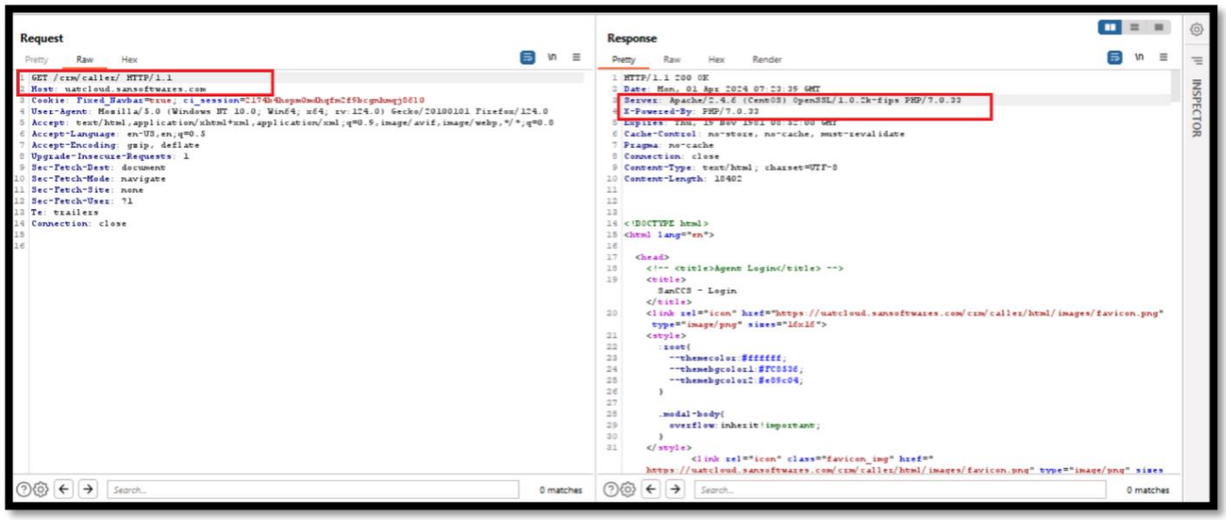
Case#7: Old and vulnerable tinyMCE

Step#1: Old and vulnerable version of tinyMCE is being used in application.



Case#8: Old and vulnerable OpenSSL and Apache

Step#1: Old and vulnerable version of OpenSSL and Apache is being used in application.



Finding No. 18

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Inconsistent Interpretation of HTTP Requests ('HTTP Request/Response Smuggling').

iii) Detailed observation / Vulnerable point: Client-side desync (CSD) vulnerabilities occur when a web server fails to correctly process the Content-Length of POST requests. By exploiting this behavior, an attacker can force a victim's browser to desynchronize its connection with the website, typically leading to XSS.

iv) CVE/CWE: CWE-444

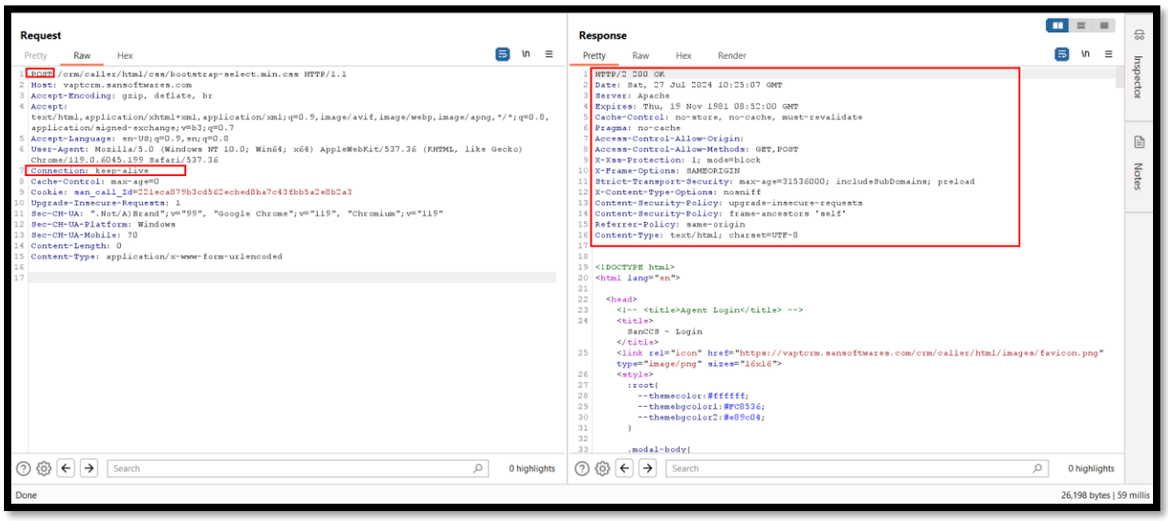
v) Severity: Medium

vi) Recommendation This vulnerability can be resolved by patching the server so that it either processes POST requests correctly or closes the connection after handling them. You could also disable connection reuse entirely, but this may reduce performance. You can also resolve this issue by enabling HTTP/2.

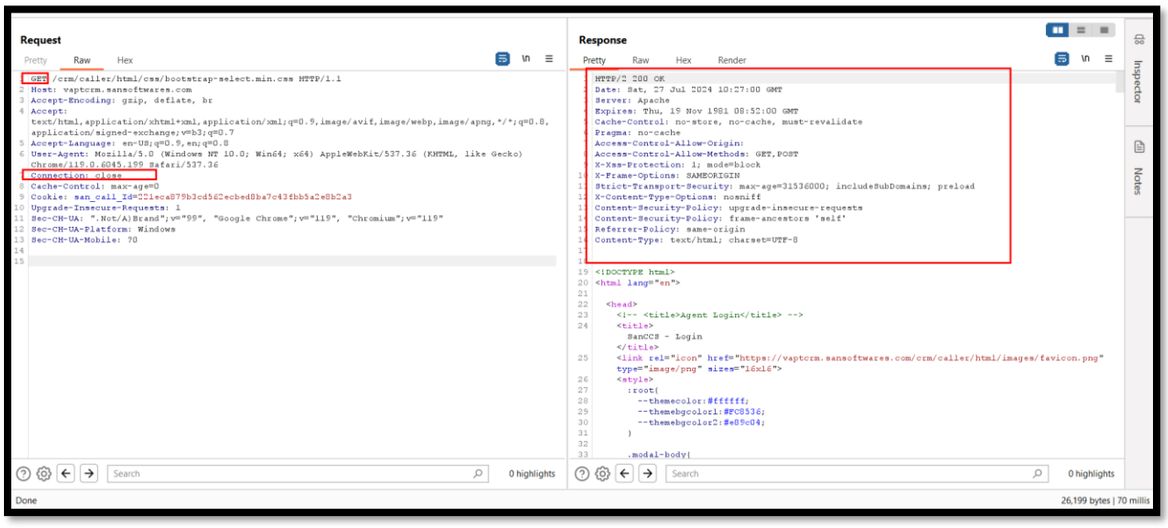
vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/444.html

ix) References to evidences / Proof of Concept:
Step#1: Send the request to repeater and send the request.
Step#2: Observed that the request is processed by the server successfully.



Step#3: Now we add a second request to the end of the first request (HTTP smuggling) and send the request.
Step#4: Observe that the request is processed by the server again.



Finding No. 19

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Not Using Password Aging.

iii) Detailed observation / Vulnerable point: Password History is not maintained in the application.

iv) CVE/CWE: CWE-262

v) Severity: Low

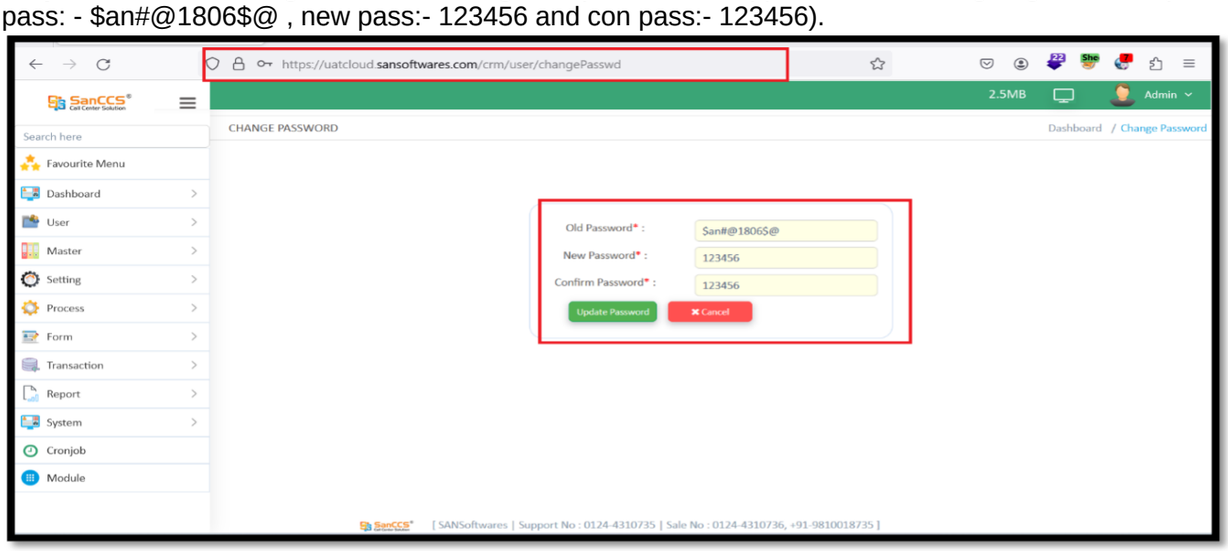
vi) Recommendation: Users should be prevented from reusing their current or previous 3 passwords. Password history should ideally be 3.

vii) Current Status: Closed

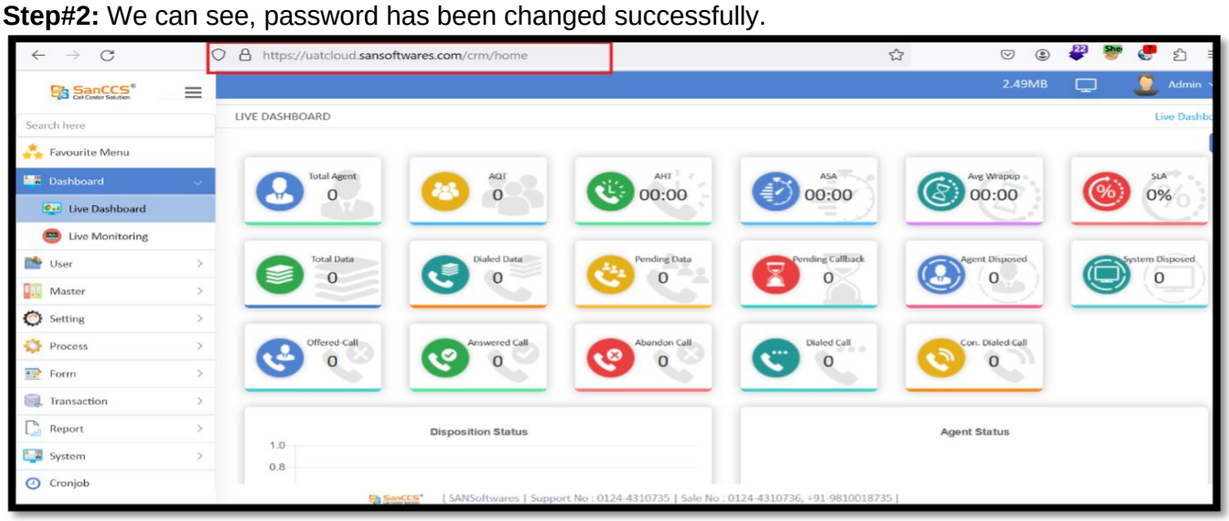
viii) Reference: https://cwe.mitre.org/data/definitions/262.html

ix) References to evidences / Proof of Concept:

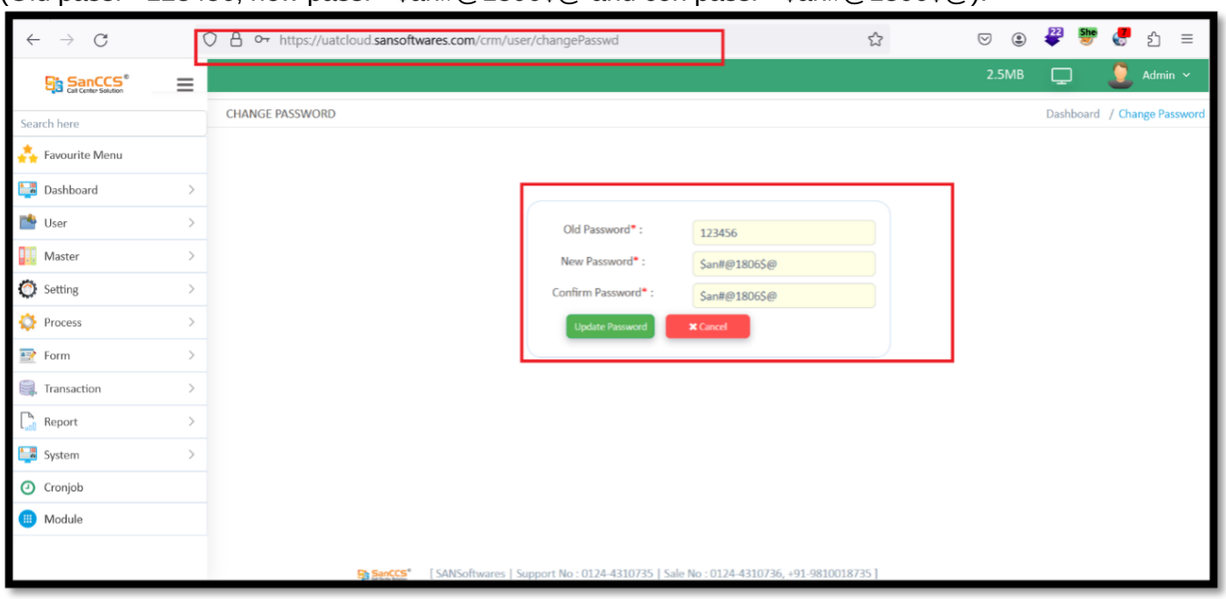
Step#1: We are entering a detail for change the password of application according to given field. (Old pass: - $an#@1806$@ , new pass:- 123456 and con pass:- 123456).



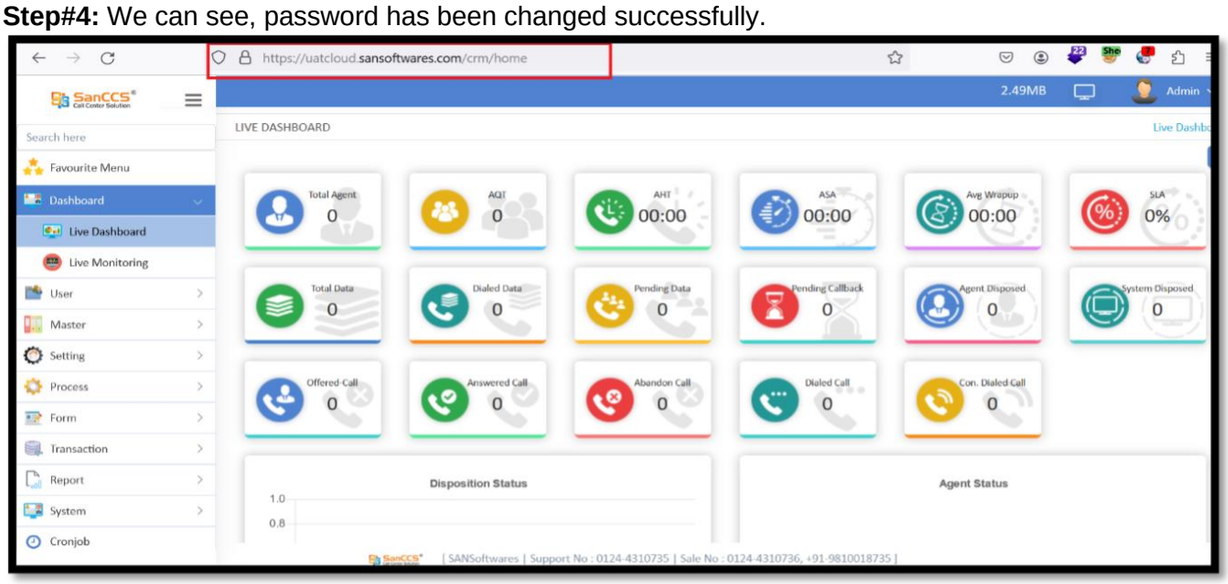
Step#2: We can see, password has been changed successfully.



Step#3: We are entering again detail for change the password of application according to given field. (Old pass: - 123456, new pass: - $an#@1806$@ and con pass: - $an#@1806$@).



Step#4: We can see, password has been changed successfully.



Finding No. 20

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Weak Password Requirements

iii) Detailed observation / Vulnerable point: Password Complexity is not implemented properly in the application.

iv) CVE/CWE: CWE-521

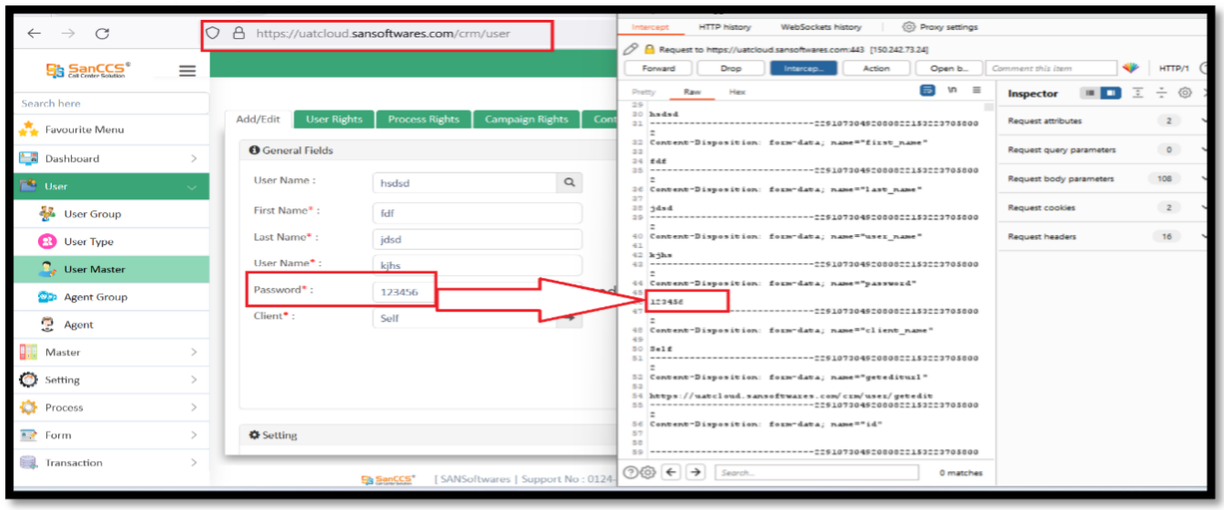
v) Severity: Low

vi) Recommendation Password should be complex.

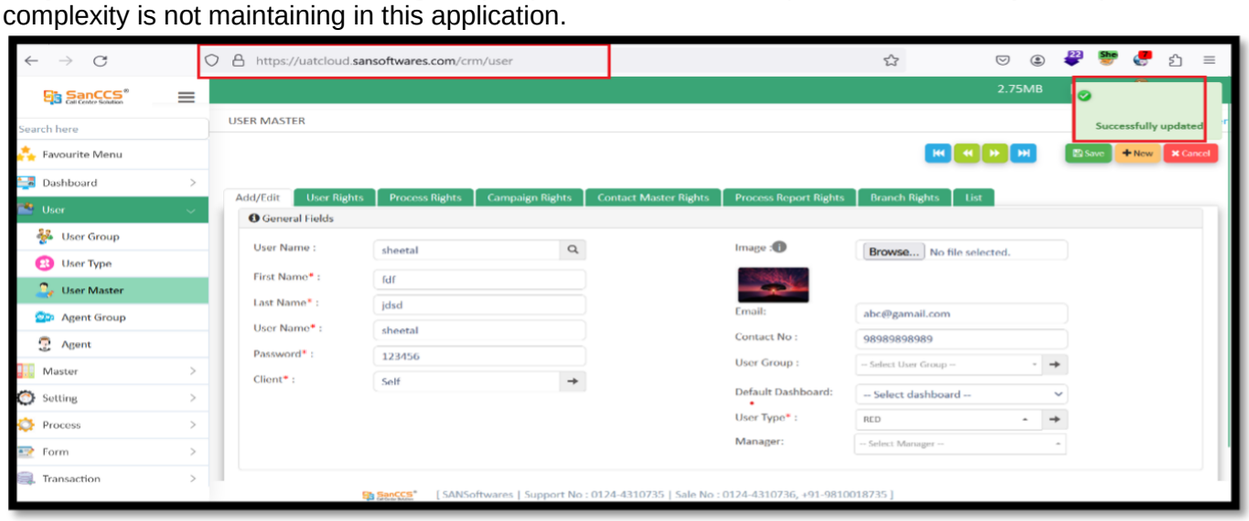
vii) Current Status: Closed

viii) Reference https://cwe.mitre.org/data/definitions/521.html

ix) References to evidences / Proof of Concept:
Step#1: Login an application and fill the required details and then capture the request, we can see the password complexity is not used.



Step#2: As we can, we are using simple password and it is updated successfully. So, password complexity is not maintaining in this application.



Finding No. 21

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Excessive Attack Surface.

iii) Detailed observation / Vulnerable point: Multiple Ports are open in the application.

iv) CVE/CWE: CWE-1125

v) Severity: Low

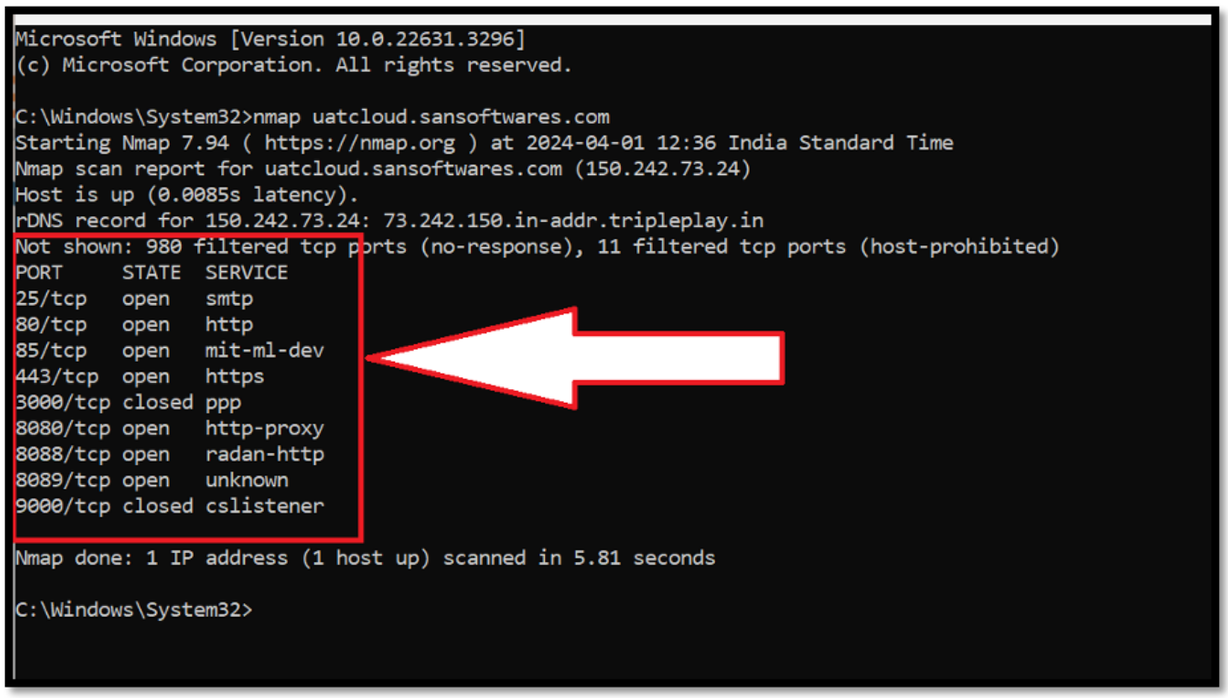
vi) Recommendation: Only port 443 must be open in the application, all other remaining ports must be closed.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/1125.html, https://blog.netwrix.com/2022/08/16/open-network-ports/

ix) References to evidences / Proof of Concept:

Step#1: Using Nmap and scanning the application host, we can gather information about the hosted IP as well as the ports open on it. Here we can see multiple ports open. This increases the attack surface area.



Finding No. 22

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Improper Input Validation.

iii) Detailed observation / Vulnerable point: Input validations not implemented properly in the application.

iv) CVE/CWE: CWE-20

v) Severity: Low

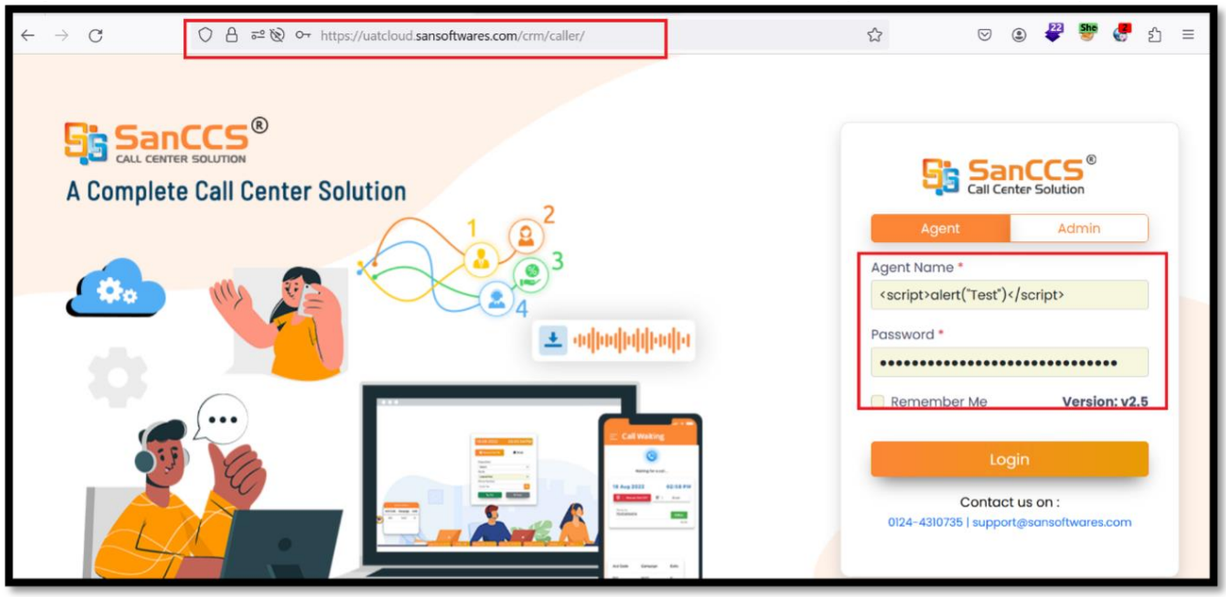
vi) Recommendation: Input validations should be properly implemented in the application.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/20.html

ix) References to evidences / Proof of Concept:

Step#1: We can see in below screenshot, there is no input validation implemented.



Finding No. 23

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Improper Resolution of Path Equivalence

iii) Detailed observation / Vulnerable point: Path is set to default root i.e. '/'.

iv) CVE/CWE: CWE-41

v) Severity: Low

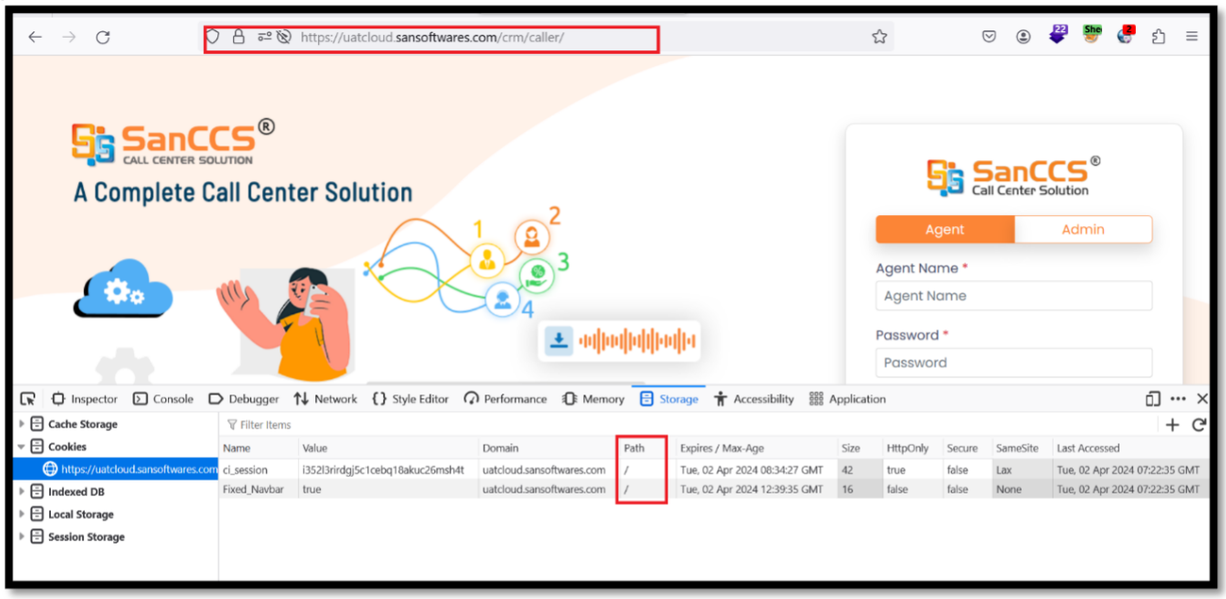
vi) Recommendation: Verify that the path attribute, just as the Domain attribute, has not been set too loosely. Even if the Domain attribute has been configured as tight as possible, if the path is set to the root directory "/" then it can be vulnerable to less secure applications on the same server.

vii) Current Closed: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/41.html

ix) References to evidences / Proof of Concept:

Step#1: Using the inspect element and navigating to Storage > Cookies, we can easily see that the path for the cookies has been set to root.



Finding No. 24

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Sensitive Cookie in HTTPS Session Without 'Secure' Attribute

iii) Detailed observation / Vulnerable point: Cookie is displaying without SECURE flag.

iv) CVE/CWE: CWE-614

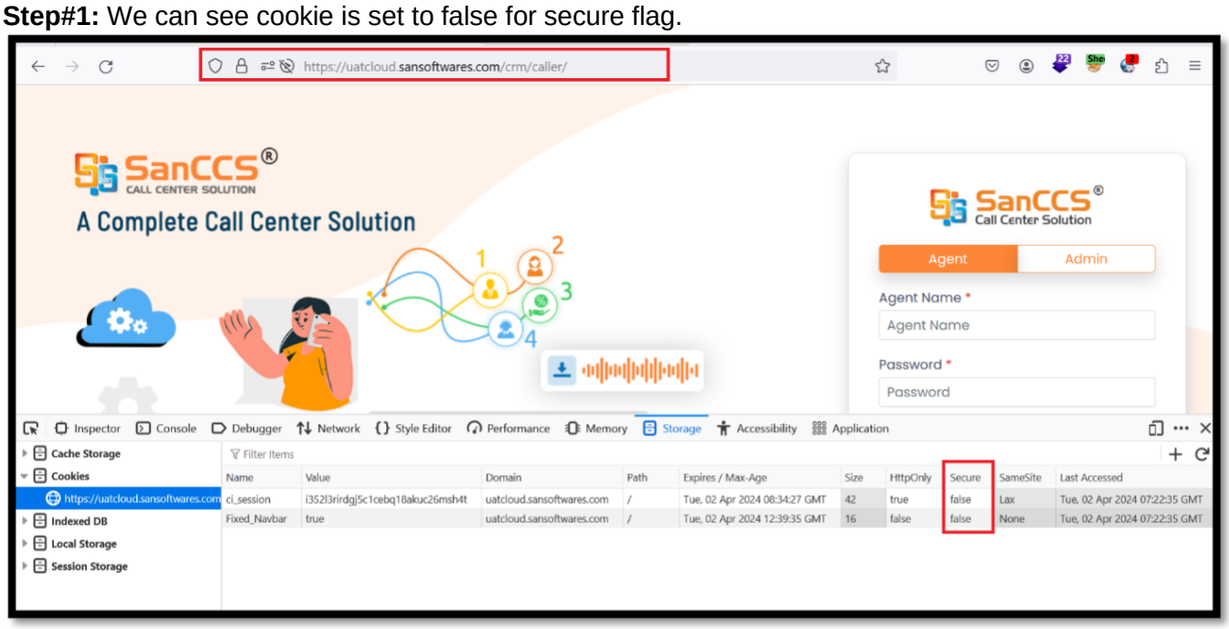
v) Severity: Low

vi) Recommendation Secure flag should be "True" in website's configuration file.

vii) Current Status: Closed

viii) Reference https://cwe.mitre.org/data/definitions/614.html

ix) References to evidences / Proof of Concept:
Step#1: We can see cookie is set to false for secure flag.



Finding No. 25

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Sensitive Cookie Without 'HTTPonly' Flag.

iii) Detailed observation / Vulnerable point: HTTPonly flag is not set properly in the application.

iv) CVE/CWE: CWE-1004

v) Severity: Low

vi) Recommendation: HTTPonly flag should be set to “True” in website’s configuration file.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/1004.html.

ix) References to evidences / Proof of Concept:

Step#1: As we can see in given screenshot httponly flag is set to false in this application.

Finding No. 26

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Sensitive Cookie with Improper Same Site Attribute.

iii) Detailed observation / Vulnerable point: Same Site attribute set to none.

iv) CVE/CWE: CWE-1275

v) Severity: Low

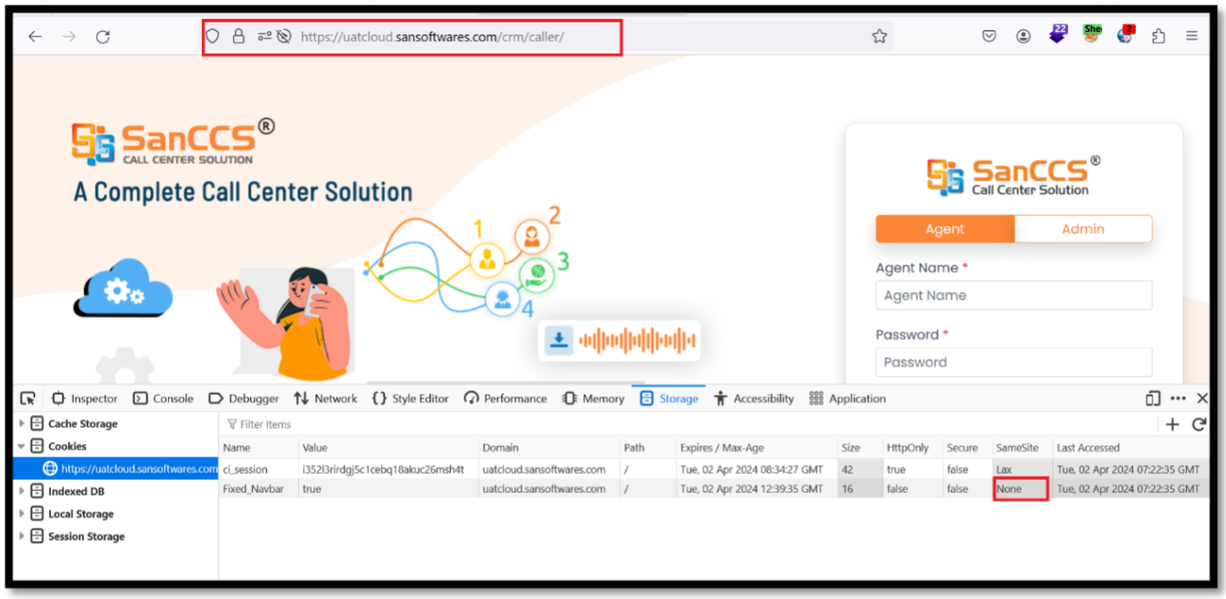
vi) Recommendation: Same Site attribute should be set to “LAX or STRICT”.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/1275.html, https://probely.com/vulnerabilities/cookie-with-samesite-attribute-set-to-none

ix) References to evidences / Proof of Concept:

Step#1: As we can see in given screenshot Same site attribute is not set in this applcation.



Finding No. 27

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Unverified Password Change

iii) Detailed observation / Vulnerable point: There is no forgot password option available for the user.

iv) CVE/CWE: CWE-620

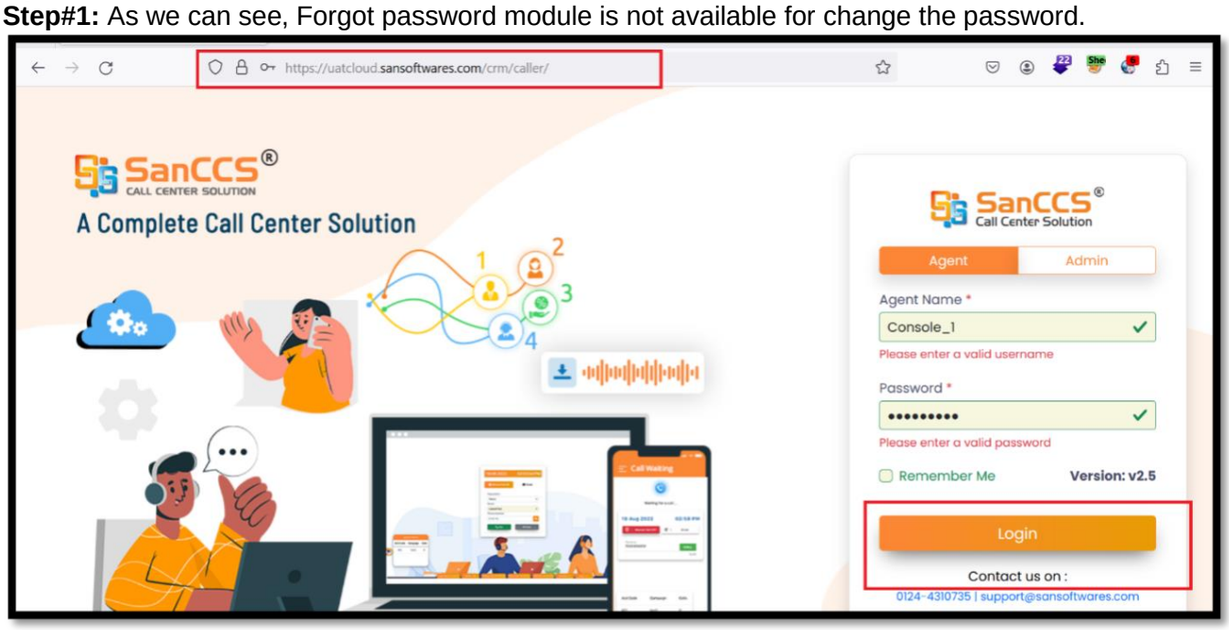
v) Severity: Low

vi) Recommendation: Users may be required to retrieve their password. Users should be provided with a “forgot password” option through which user will retrieve their password whenever required. Forgot password should be enabled with the users email address. There are following conditions that should be met in the forget password function:
1. A reset link should be sent to the user registered email address instead of password directly.
2. Reset Password link should expire in 24 hours.
3. Reset Password link should not be reused again once the link is used for resetting password.
4. In the Reset Password page, Mandatory fields i.e. new password, Confirm Password and CAPTCHA field must present and should be validated at the client end. Server end validations are also mandatory.
However, if the password retrieval is internal in the application, then it is recommended to implement a hyperlink on login page resulting to a static page containing a message. “Please contact your site administrator at mail_id[at]domain[dot]com”. Please note that the email address in the message should not be a hyperlink.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/620.html

ix) References to evidences / Proof of Concept:
Step#1: As we can see, Forgot password module is not available for change the password.



Finding No. 28

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Insufficient Session Expiration

iii) Detailed observation /vulnerable point: Session termination due to user inactivity is not properly configured in the application.

iv) CVE/CWE: CWE-613

v) Severity: Low

vi) Recommendation: In case of session termination by the application due to inactivity of the user within his session for more than 15 minutes, application must terminate session completely and login page must be loaded in the main window instead of in a child frame of the window.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/613.html

ix) References to evidences / Proof of Concept:

Step#1: Application seesion is not terminated after 15 min. inactivity of application.

Finding No. 29

i) IP/URL/Application: CALL CENTER SOLUTION Web Application

ii) Observation/ Vulnerability title: Improper Control of Interaction Frequency.

iii) Detailed observation /vulnerable point: Email spamming is possible in the application.

iv) CVE/CWE: CWE-799

v) Severity: Low

vi) Recommendation: The application should properly customize the email addresses while posting on the website as:

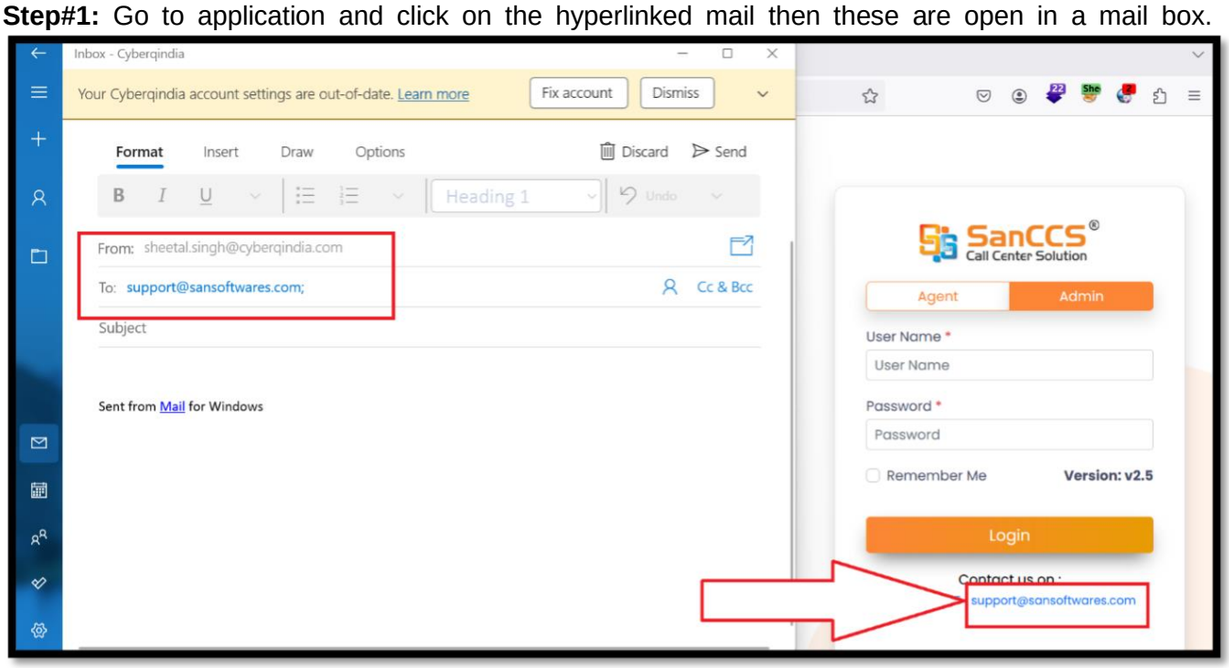
1. Email addresses should be posted as an image not as a hyperlink. Alternatively, instead of @symbol, [at] should be used. Similarly, the dot character (.) should be replaced by [dot]. So abc@nic.in should be written as abc[at]nic[dot]in.
2. High privilege email addresses should not be posted on the website.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/799.html

ix) References to evidences / Proof of Concept:

Step#1: Go to application and click on the hyperlinked mail then these are open in a mail box.



Finding No. 30

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Exposure of Sensitive Information to an Unauthorized Actor.

iii) Detailed observation / Vulnerable point: Autofill is enabled in forms.

iv) CVE/CWE: CWE-200

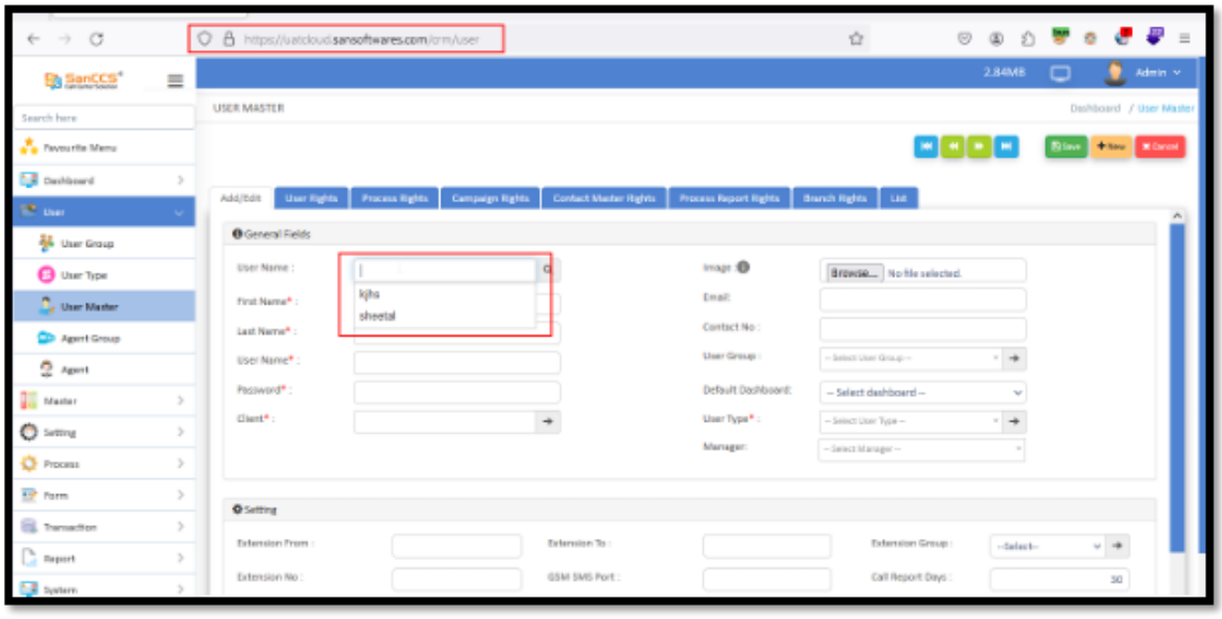
v) Severity: Low

vi) Recommendation Application should not have the option to remember information entered by the user as this may cause unavailability of services to valid users. AutoComplete option should be turned off by the application so as to override any settings by the user from the browser.

vii) Current Status: Closed

viii) Reference: https://portswigger.net/kb/issues/00500800_password-field-with-autocomplete-enabled
https://cwe.mitre.org/data/definitions/200.html

ix) References to evidences / Proof of Concept:
Step#1: We can see autocomplete is not defined properly.



Finding No. 31

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Selection of Less-Secure Algorithm During Negotiation.

iii) Detailed observation / Vulnerable point: Old TLS versions are still being used in the application.

iv) CVE/CWE: CWE-757

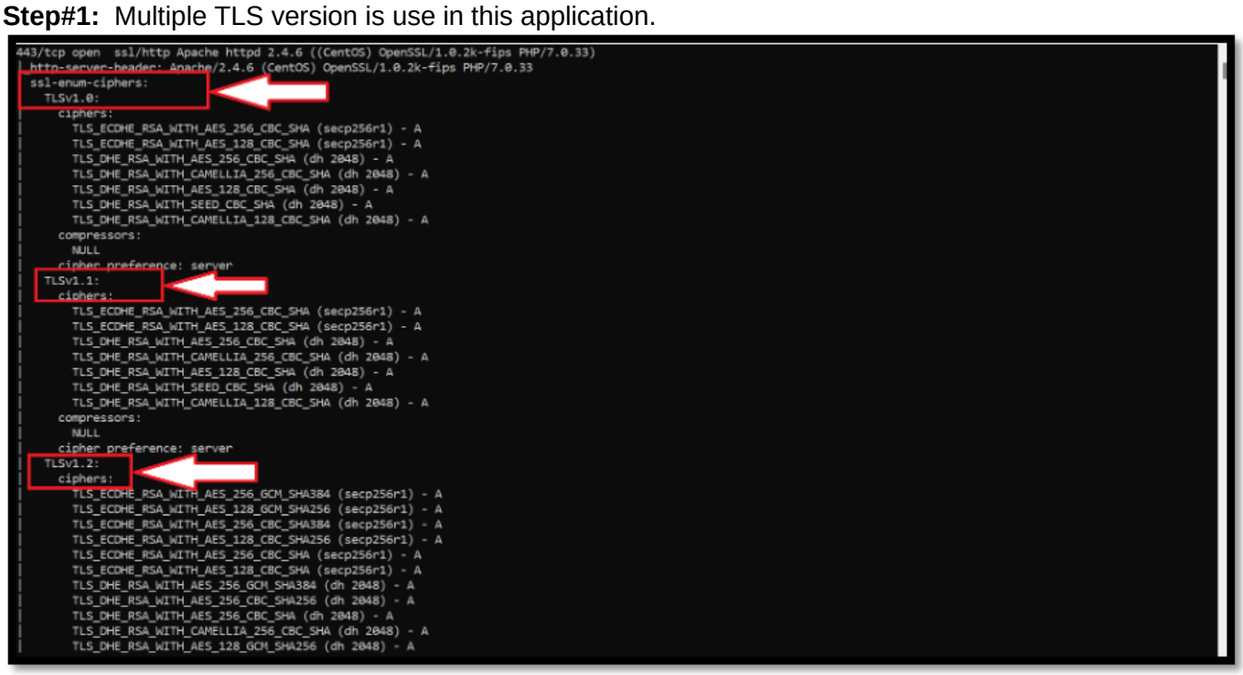
v) Severity: Low

vi) Recommendation TLS v1.2 or higher should be used. All other TLS versions should be removed.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/757.html

ix) References to evidences / Proof of Concept:
Step#1: Multiple TLS version is use in this application.



Finding No. 32

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Selection of Less-Secure Algorithm During Negotiation.

iii) Detailed observation / Vulnerable point: The application may be vulnerable to DOM-based open redirection. Data is read from **location.href** and passed to **xhr.open** application.

iv) CVE/CWE: CWE-601

v) Severity: Low

vi) Recommendation The most effective way to avoid DOM-based open redirection vulnerabilities is not to dynamically set redirection targets using data that originated from any untrusted source. If the desired functionality of the application means that this behavior is unavoidable, then defenses must be implemented within the client-side code to prevent malicious data from introducing an arbitrary URL as a redirection target. In general, this is best achieved by using a whitelist of URLs that are permitted redirection targets, and strictly validating the target against this list before performing the redirection.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/757.html

ix) References to evidences / Proof of Concept:
Step#1: We can see DOM-Based Open redirection is possible in the application.

Finding No. 33

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Missing Password Field Masking

iii) Detailed observation / Vulnerable point: OTP masking is not implemented in the application.

iv) CVE/CWE: CWE-549

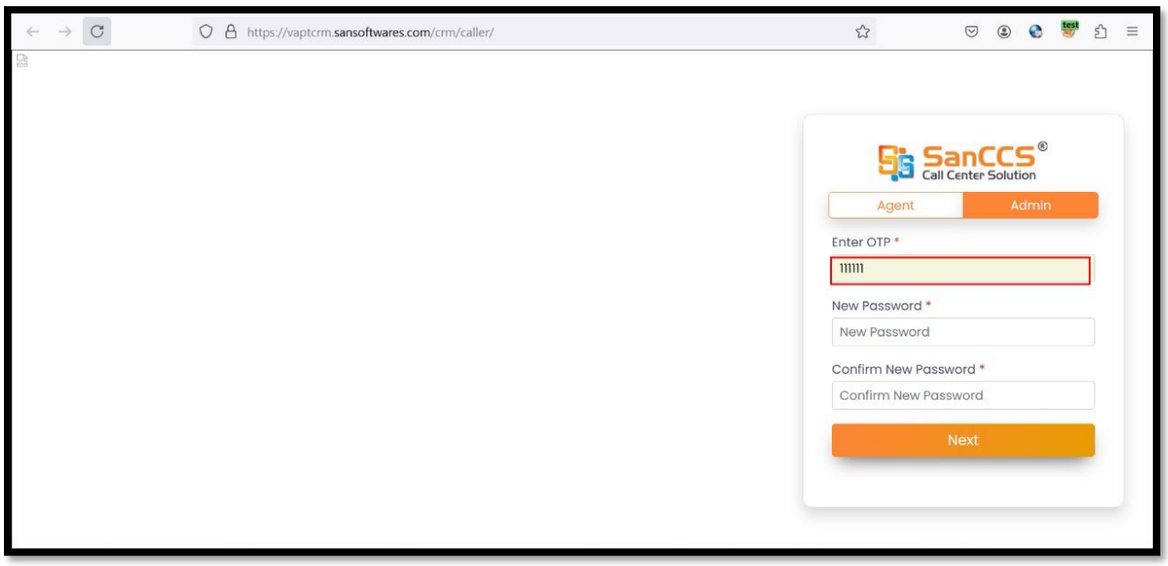
v) Severity: Low

vi) Recommendation: OTP should be masked and should not be viewable in clear text to end user or an option should be provided to unmask, if needed.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/549.html

ix) References to evidences / Proof of Concept:
Step#1: Open the URL https://vaptcrm.sansoftwares.com/crm/caller/ and fill in the otp.
Step#2: Enter the OTP and observe that the OTP is not masked.



Finding No. 34

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: unencrypted connections

iii) Detailed observation / Vulnerable point: Cleartext submission of password.

iv) CVE/CWE: CWE-549

v) Severity: Low

vi) Recommendation: Applications should use transport-level encryption (SSL or TLS) to protect all sensitive communications passing between the client and the server. Communications that should be protected include the login mechanism and related functionality, and any functions where sensitive data can be accessed or privileged actions can be performed. These areas should employ their own session handling mechanism, and the session tokens used should never be transmitted over unencrypted communications. If HTTP cookies are used for transmitting session tokens, then the secure flag should be set to prevent transmission over clear-text HTTP.

vii) Current Status: Closed

viii) Reference: https://cwe.mitre.org/data/definitions/549.html

ix) References to evidences / Proof of Concept:

Step#1: We can see that unencrypted connection over the network.

Finding No. 35

i) IP/URL/Application: CALL CENTER SOLUTION Web Application.

ii) Observation/ Vulnerability title: Insufficient Logging.

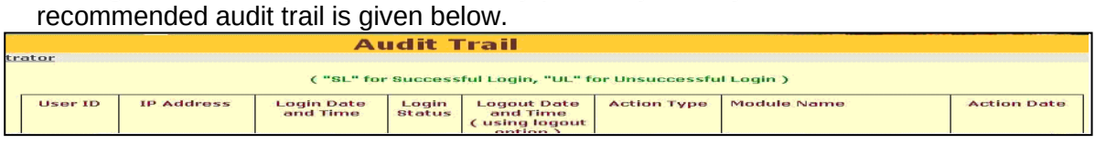
iii) Detailed observation / Vulnerable point: The application does not maintain audit trail properly where all user activities must be logged. In case a malicious user tries to attack the application; the application will not be able to trace the attacker.

iv) CVE/CWE: CWE-778

v) Severity: Observation

vi) Recommendation: An Audit trail should be incorporated in the application admin module, where all user activities have to be logged. Following points should be considered: Audits are to be generated at the time of resource access and by the same routines accessing the resource

- Information to be logged including the following: IP of the originating client, Date, Time, username if any in addition to other details to be logged in the web server.
- These IP, date, time, session details, user details (NO password), referrer, process id to be logged in application logs.
- To create audit logs use auto numbering so that every logged entry has a log number, which is not editable. Then if one audit entry is deleted a gap in the numbering sequence will appear.
- Log entries are to be hashed/signed so that changes to audit log can be detected.
  Audit trails to answer the following:
- Logging of Authentication Process. Success and failed attempts.
- Logging Authentication details and changes.
- Software error and failures logged
- Should not be possible to retrieve confidential authentication information from these logs (including passwords)
- Is it possible to uniquely identify both client host and user from these logs?
- What level of information is logged by the application (read/write access, modification data, and copy/paste data)?
- Are log files time sequential and can they positively identify the time of action. The screenshot for recommended audit trail is given below.



vii) Current Status: Closed

viii) Reference https://cwe.mitre.org/data/definitions/778.html

ix) References to evidences / Proof of Concept: N/A

Appendices

Website Crawls

https://vaptcrm.sansoftwares.com/crm/caller/
https://vaptcrm.sansoftwares.com/crm/home
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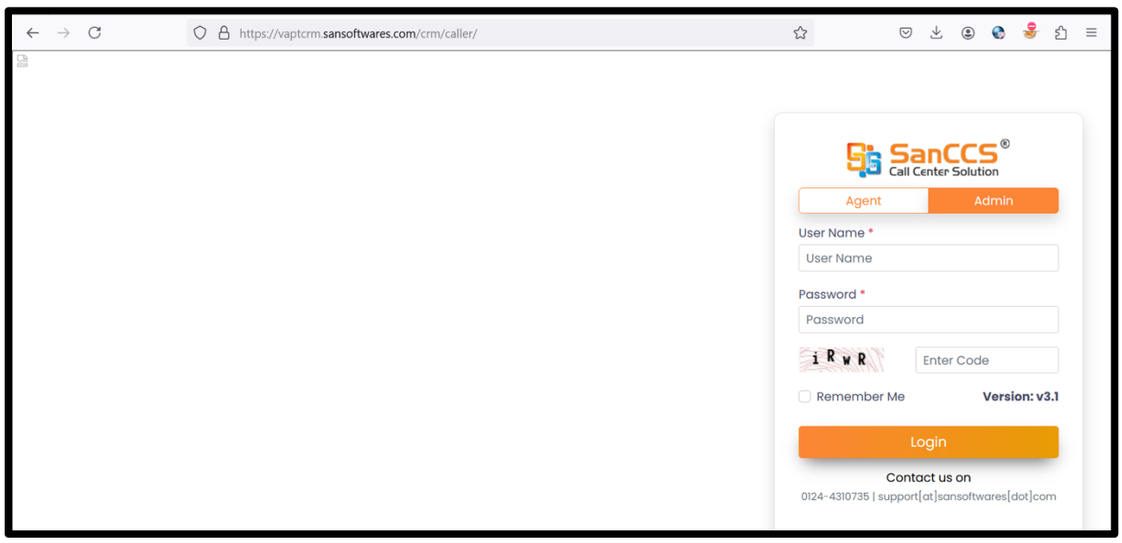
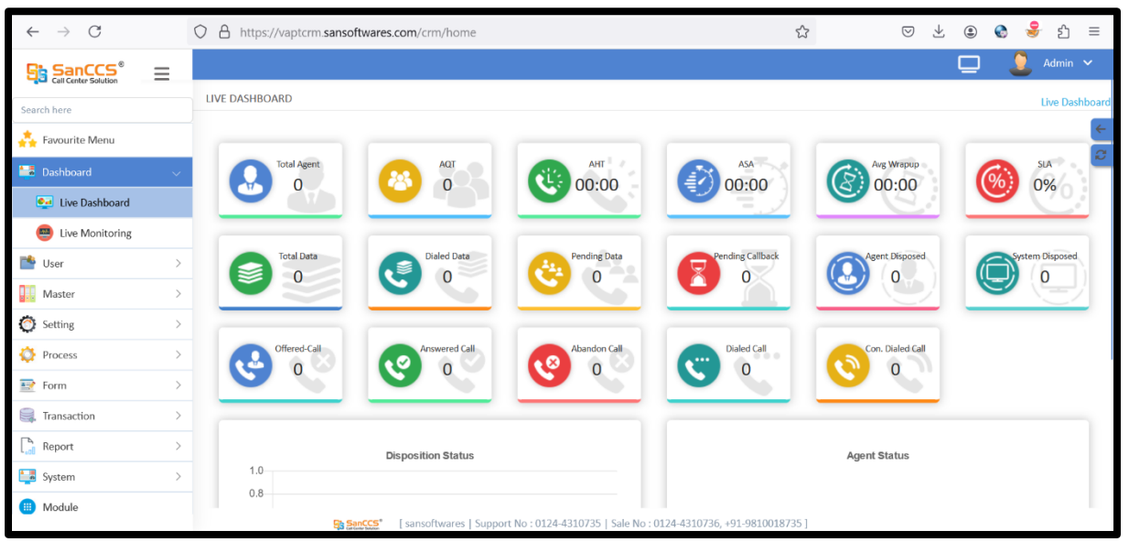
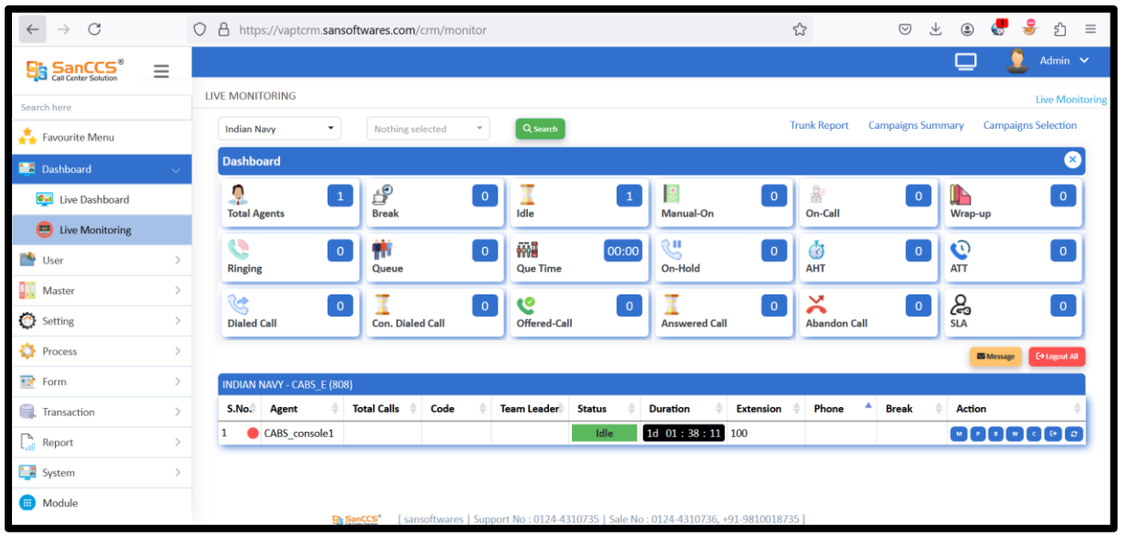
Screenshots (After Completed Audit)



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Trunk Report
Campaigns Summary
Campaigns Selection
Dashboard
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Idle 1
Manual-On 0
On-Call 0
Wrap-up 0
Ringing 0
Queue 0
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On-Hold 0
AHT 0
ATT 0
Dialed Call 0
Con. Dialed Call 0
Offered-Call 0
Answered Call 0
Abandon Call 0
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Message
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INDIAN NAVY - CABS_E (808)
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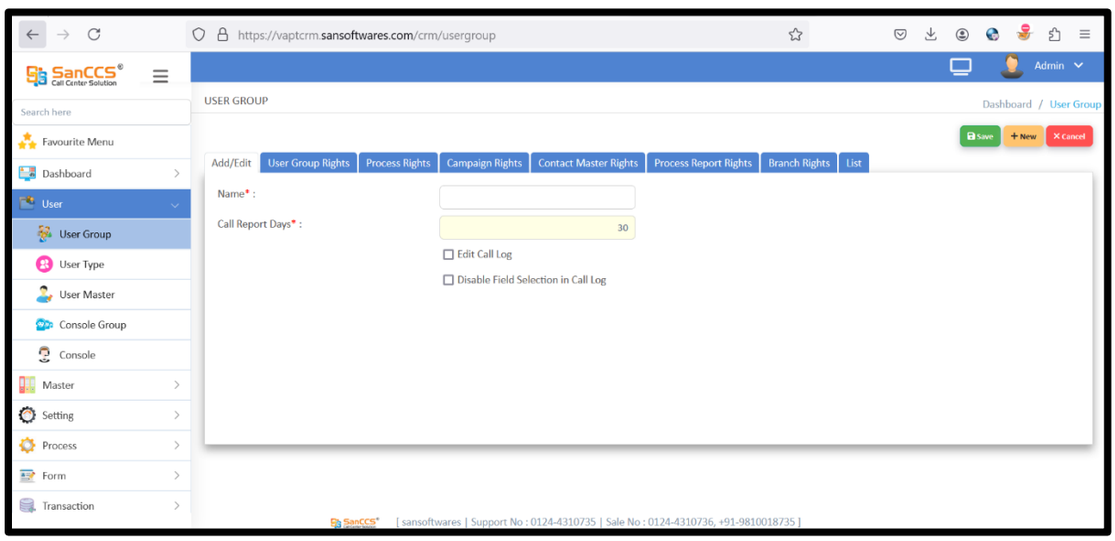
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Add/Edit
User Group Rights
Process Rights
Campaign Rights
Contact Master Rights
Process Report Rights
Branch Rights
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Call Report Days* :
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Edit Call Log
Disable Field Selection in Call Log
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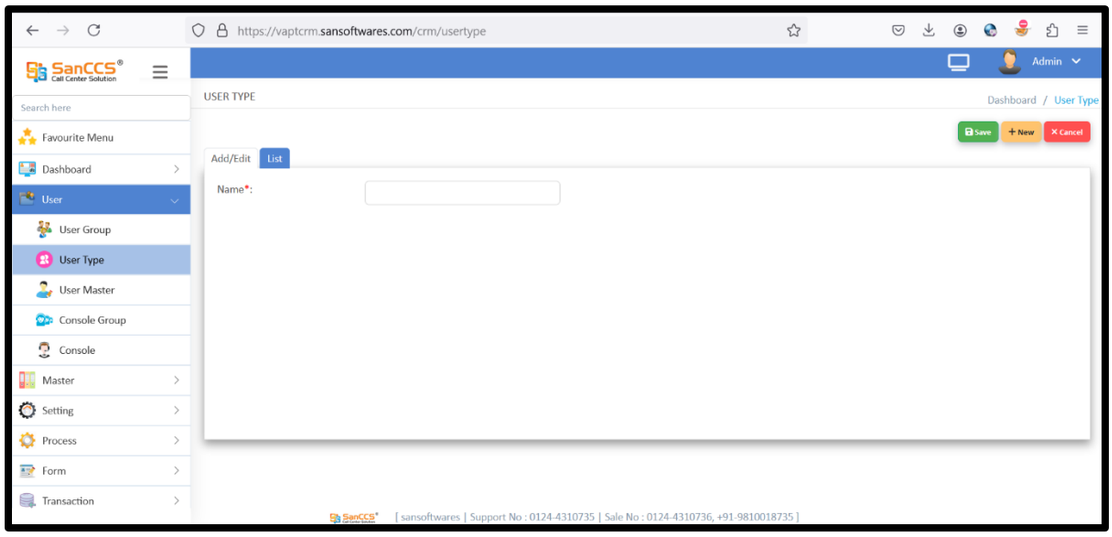
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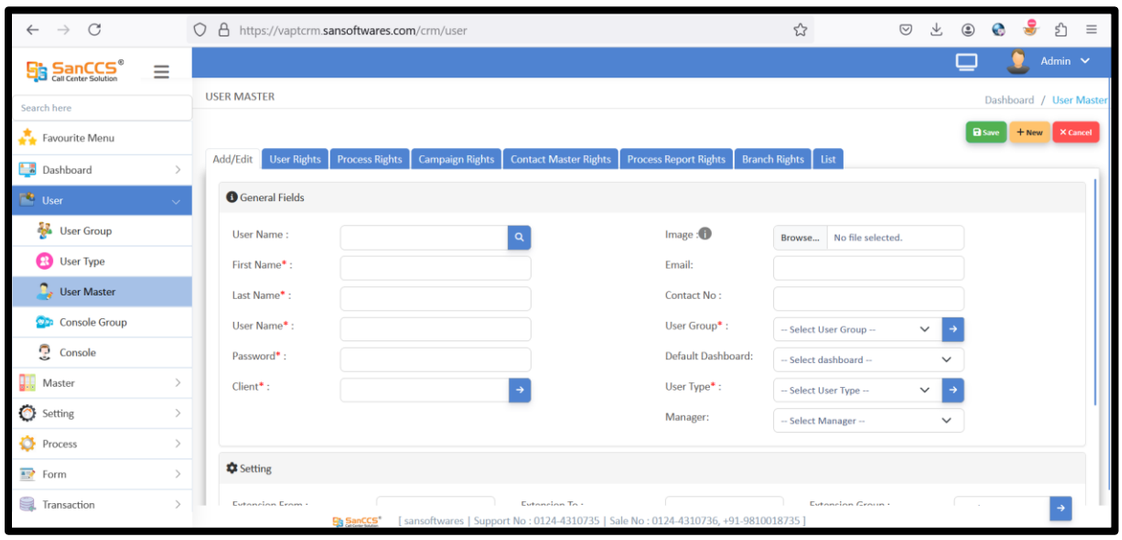
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Campaign Rights
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Last Name* :
User Name* :
Password* :
Client* :
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-- Select dashboard --
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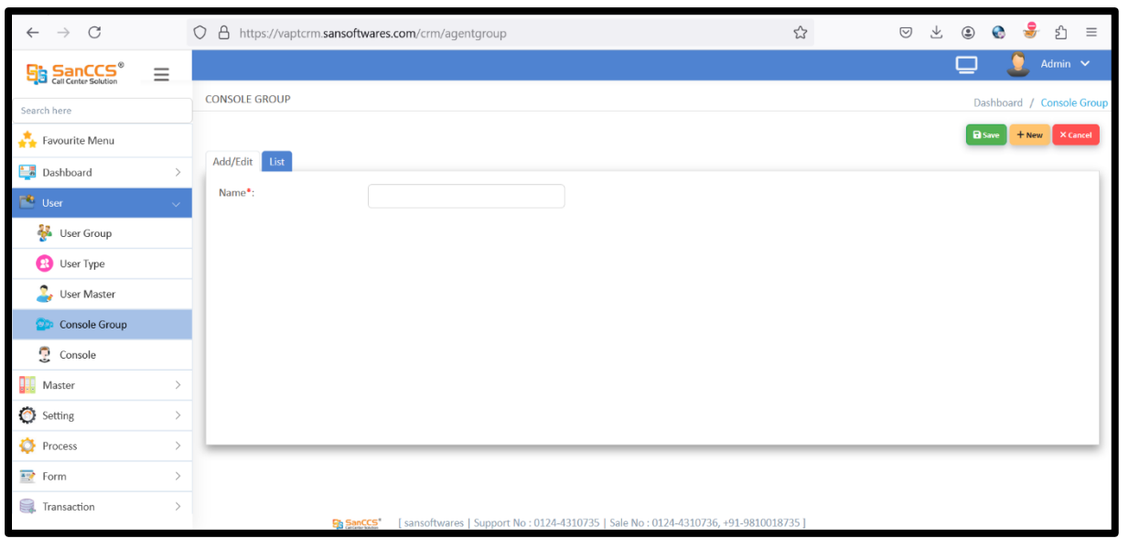
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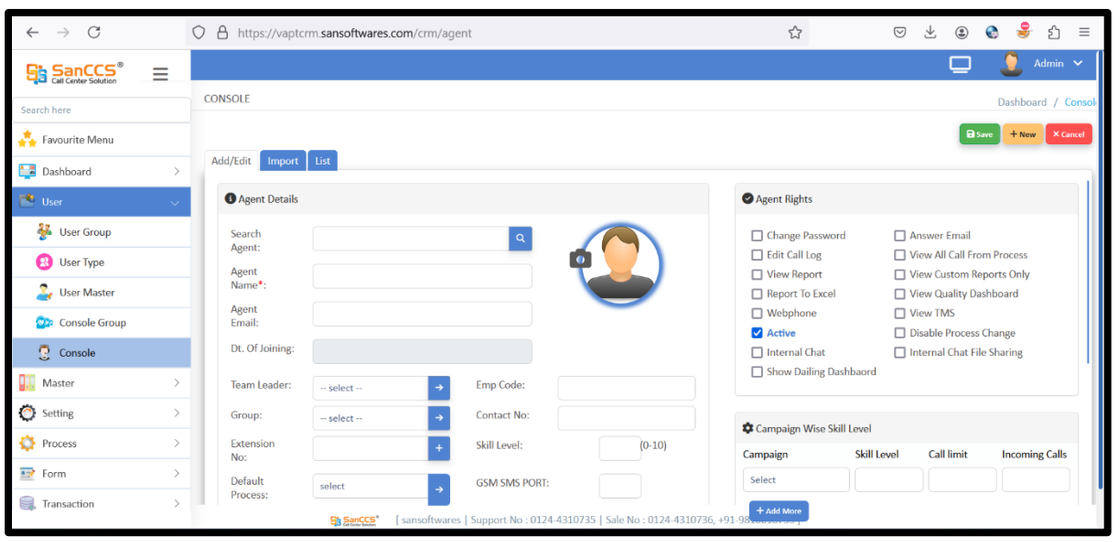
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Extension No:
Skill Level:
(0-10)
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Agent Rights
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Answer Email
Edit Call Log
View All Call From Process
View Report
View Custom Reports Only
Report To Excel
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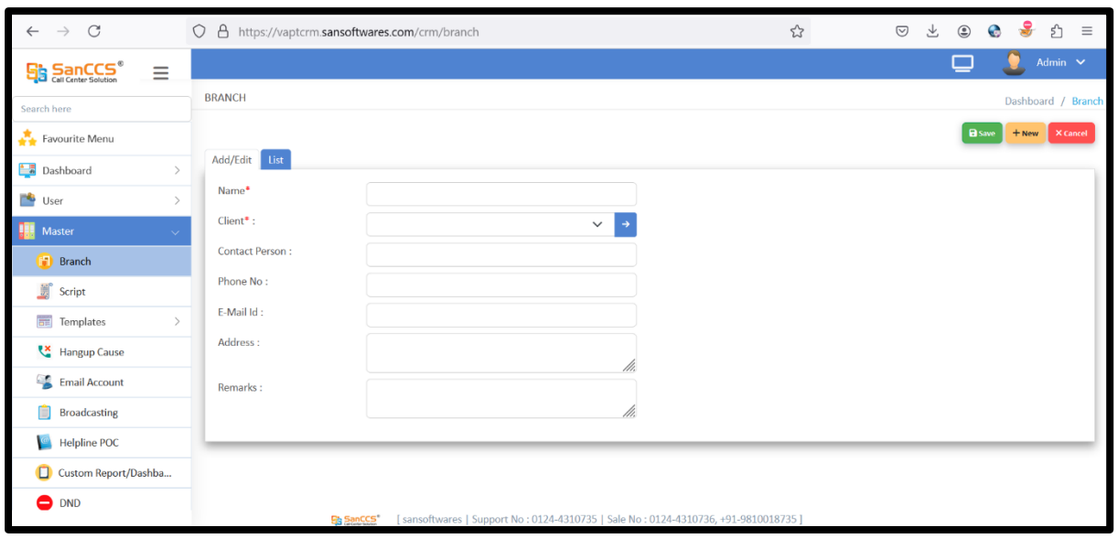
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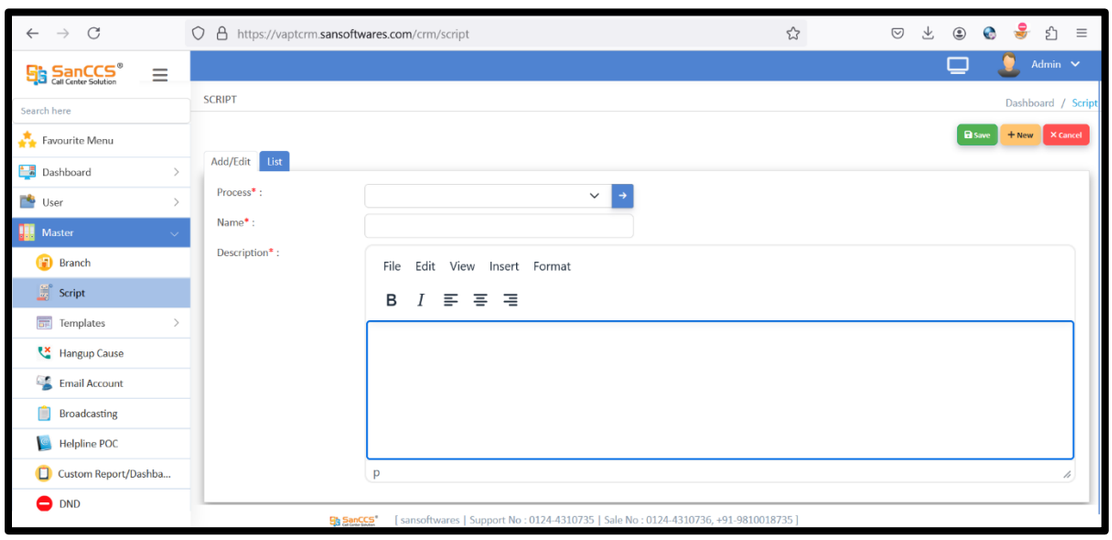
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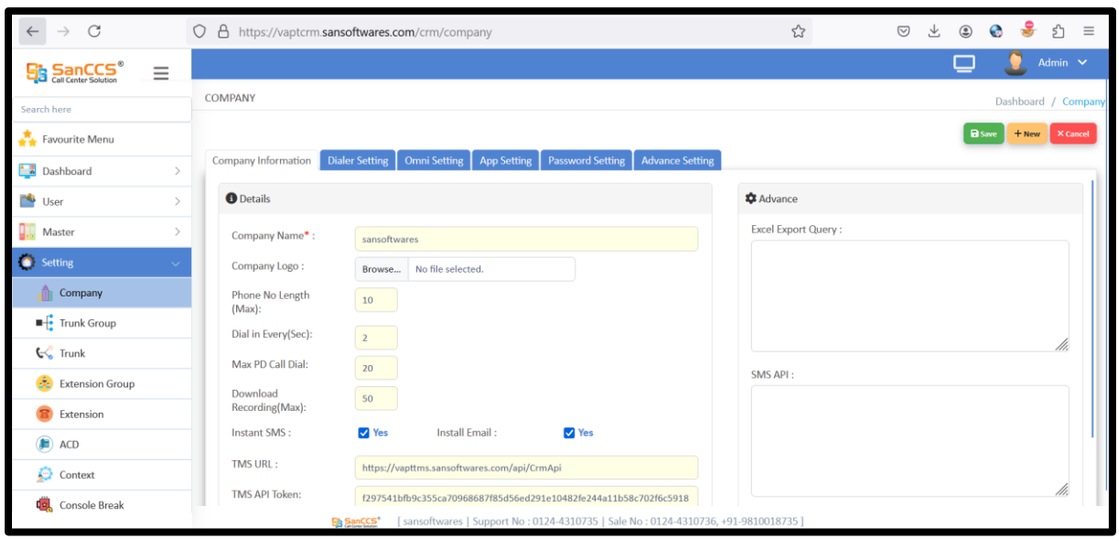
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App Setting
Password Setting
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Details
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sansoftwares
Company Logo :
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Dial in Every(Sec):
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Max PD Call Dial:
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Download Recording(Max):
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Instant SMS :
Yes
Install Email :
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TMS URL :
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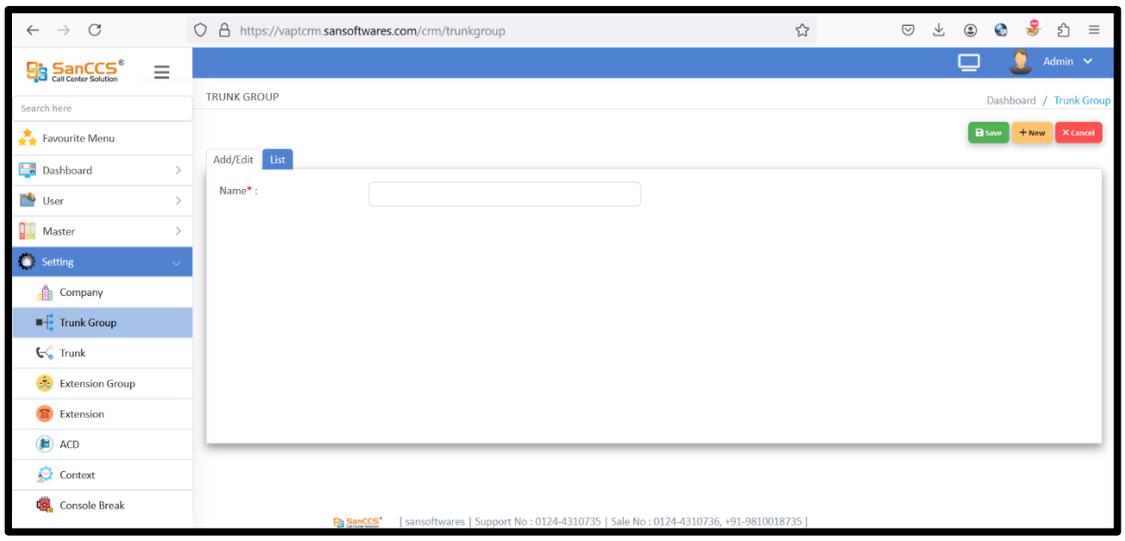
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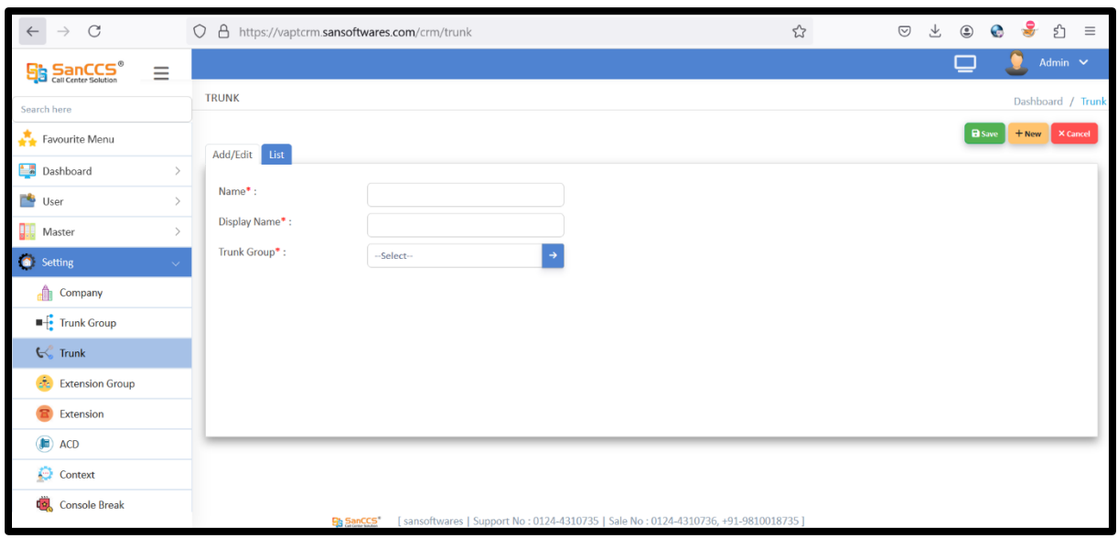
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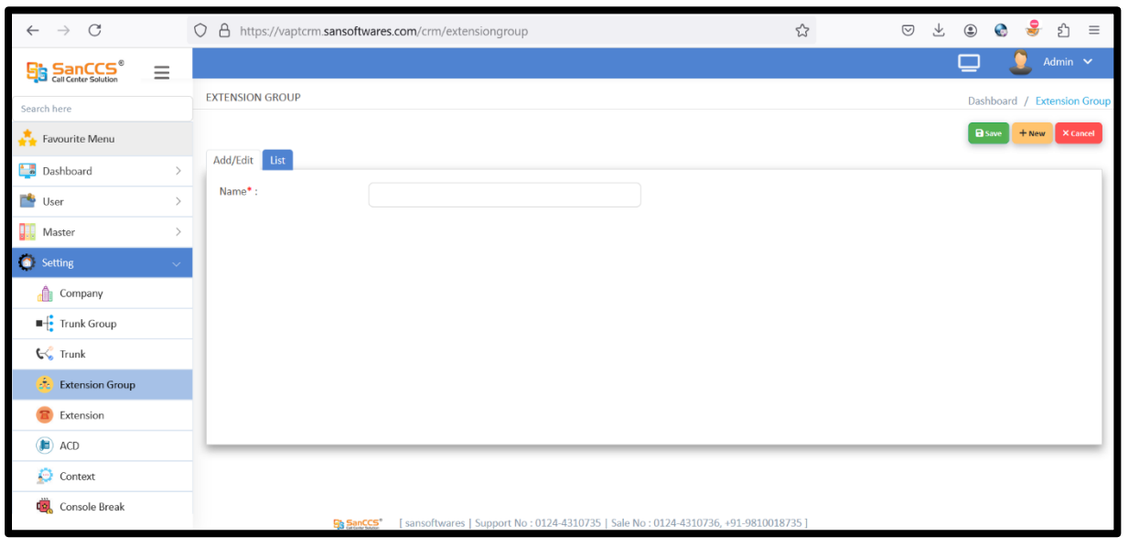
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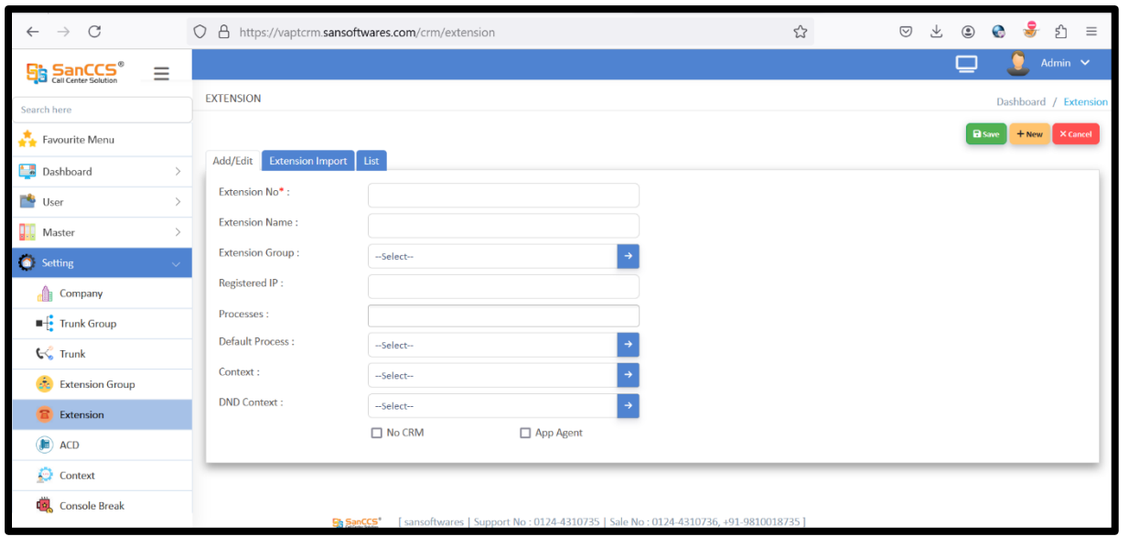
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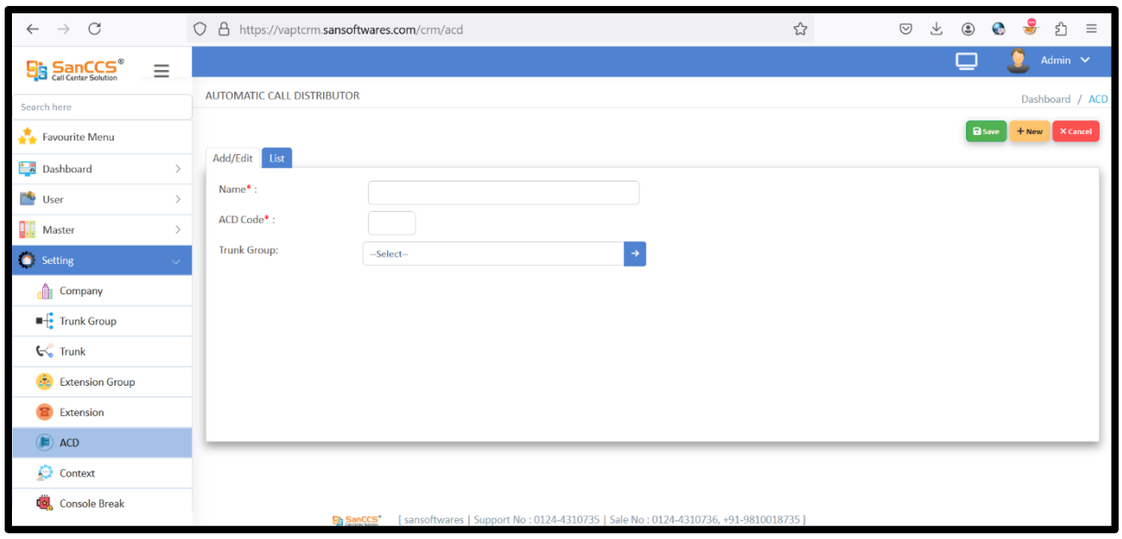
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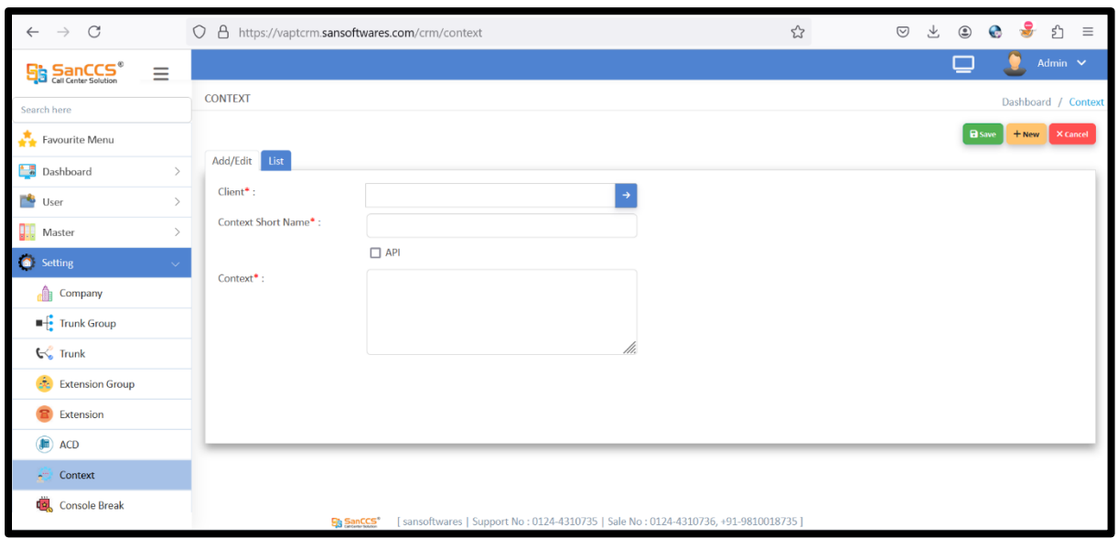
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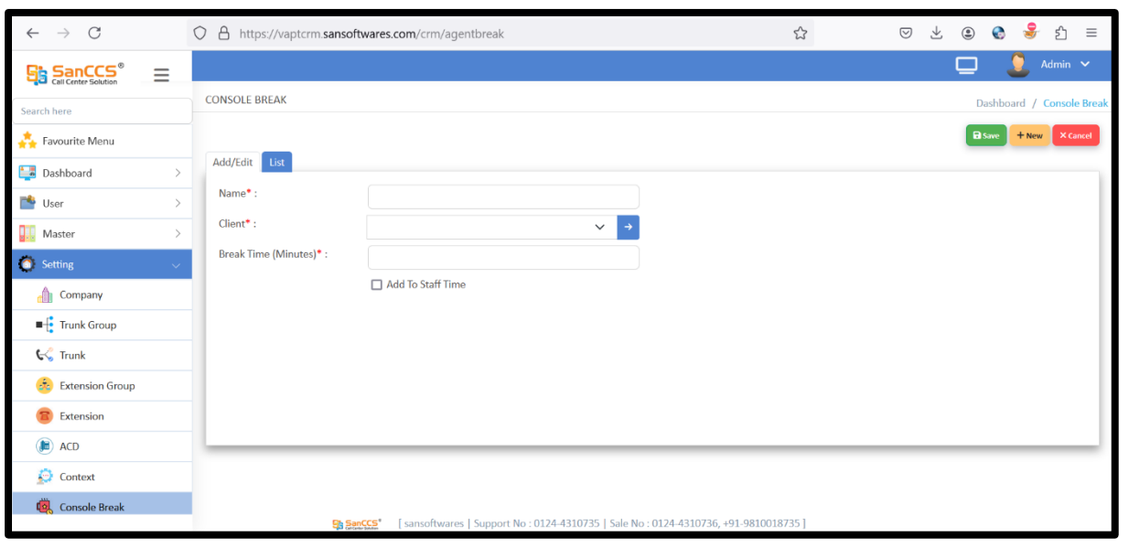
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List
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Client* :
Break Time (Minutes)* :
Add To Staff Time
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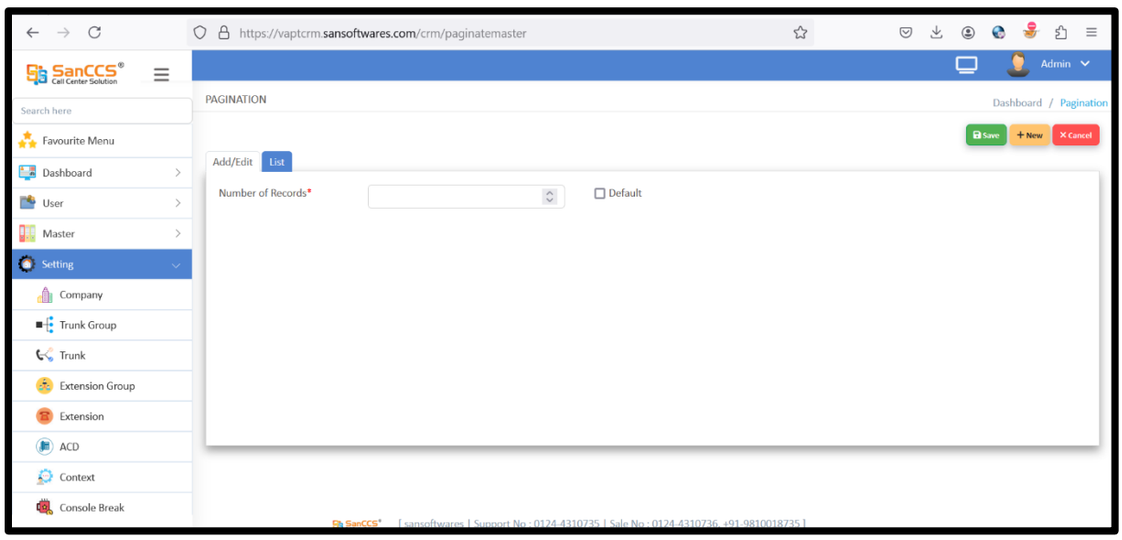
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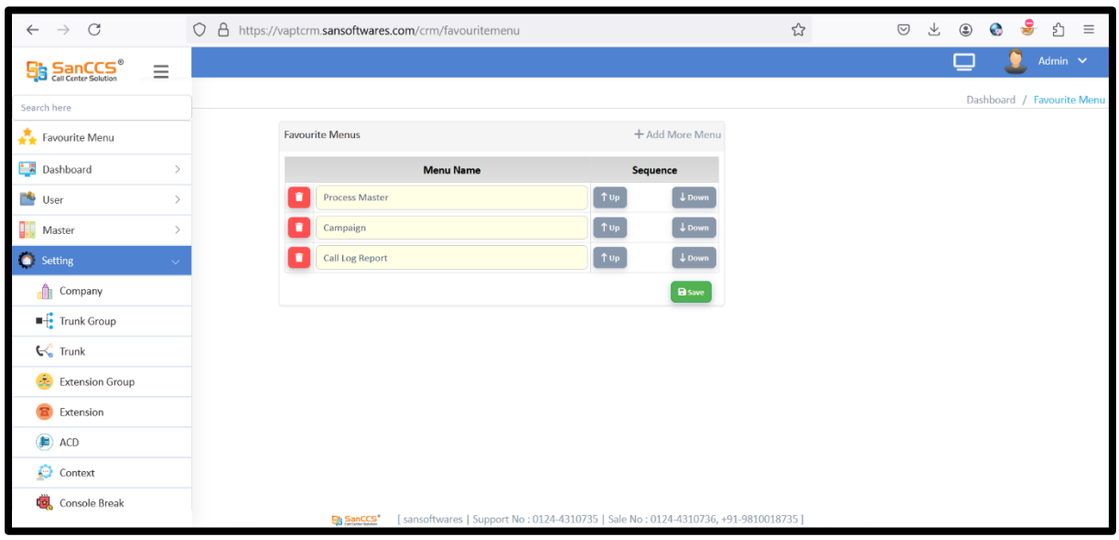
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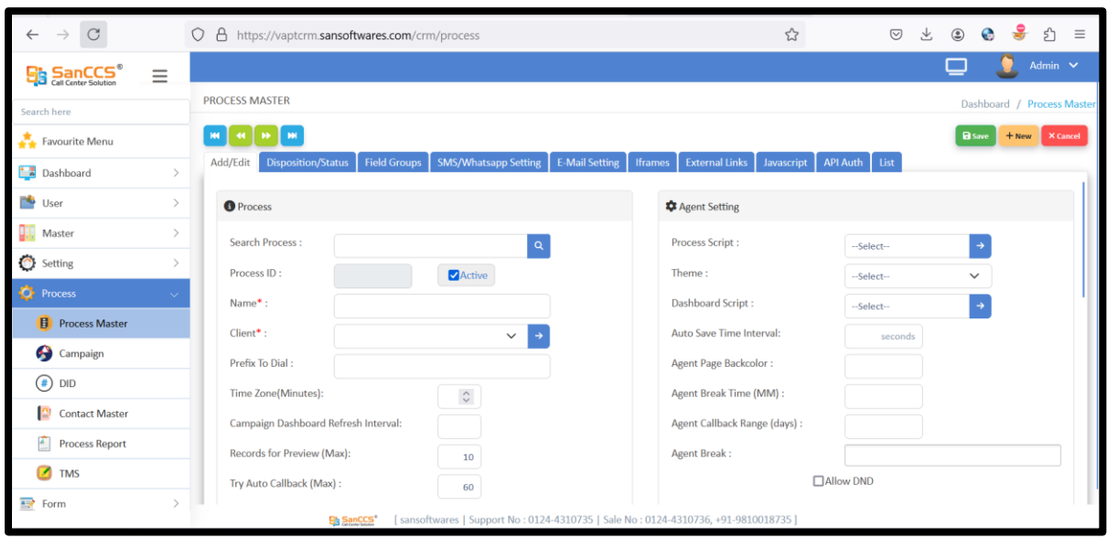
Down
Save
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/process
SanCCS
Call Center Solution
Admin
PROCESS MASTER
Dashboard / Process Master
Search here
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Dashboard
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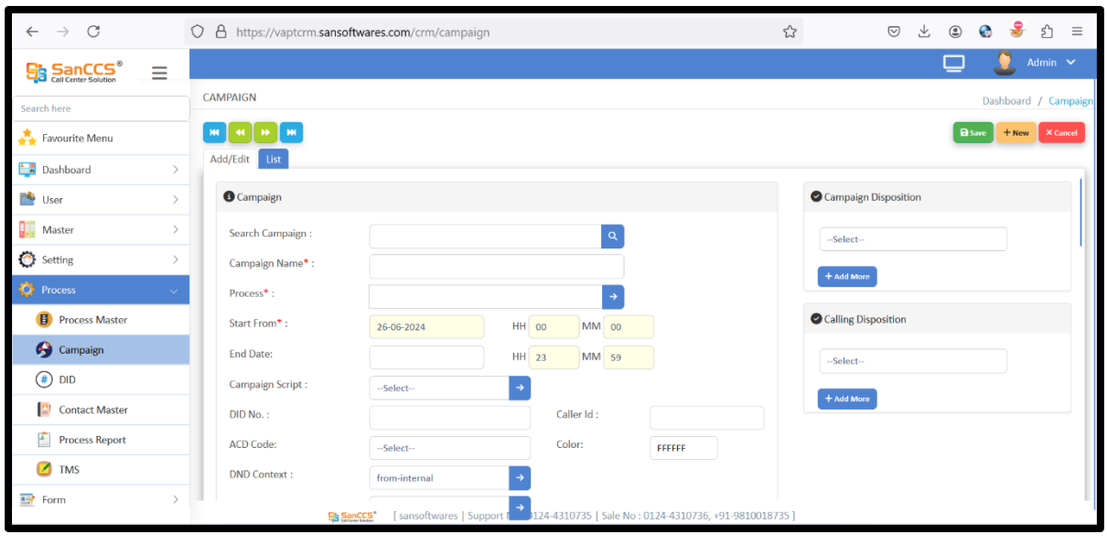
Process
Process Master
Campaign
DID
Contact Master
Process Report
TMS
Form
Save
New
Cancel
Add/Edit
Disposition/Status
Field Groups
SMS/Whatsapp Setting
E-Mail Setting
Iframes
External Links
Javascript
API Auth
List
Process
Search Process :
Process ID :
Active
Name* :
Client* :
Prefix To Dial :
Time Zone(Minutes):
Campaign Dashboard Refresh Interval:
Records for Preview (Max):
10
Try Auto Callback (Max) :
60
Agent Setting
Process Script :
--Select--
Theme :
Dashboard Script :
Auto Save Time Interval:
seconds
Agent Page Backcolor :
Agent Break Time (MM) :
Agent Callback Range (days) :
Agent Break :
Allow DND
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/campaign
SanCCS
Call Center Solution
Admin
CAMPAIGN
Dashboard / Campaign
Search here
Favourite Menu
Dashboard
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Setting
Process
Process Master
Campaign
DID
Contact Master
Process Report
TMS
Form
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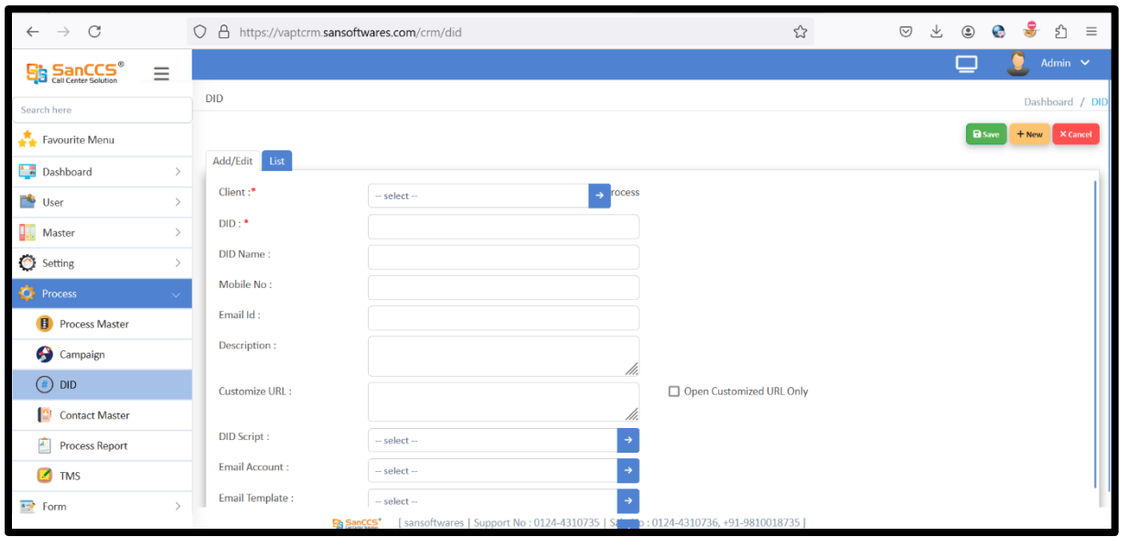
New
Cancel
Add/Edit
List
Campaign
Search Campaign :
Campaign Name* :
Process* :
Start From* :
26-06-2024
HH
00
MM
00
End Date:
HH
23
MM
59
Campaign Script :
--Select--
DID No. :
Caller Id :
ACD Code:
--Select--
Color:
FFFFFF
DND Context :
from-internal
Campaign Disposition
--Select--
+ Add More
Calling Disposition
--Select--
+ Add More
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/did
SanCCS
Call Center Solution
Admin
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User
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Process
Process Master
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DID
Contact Master
Process Report
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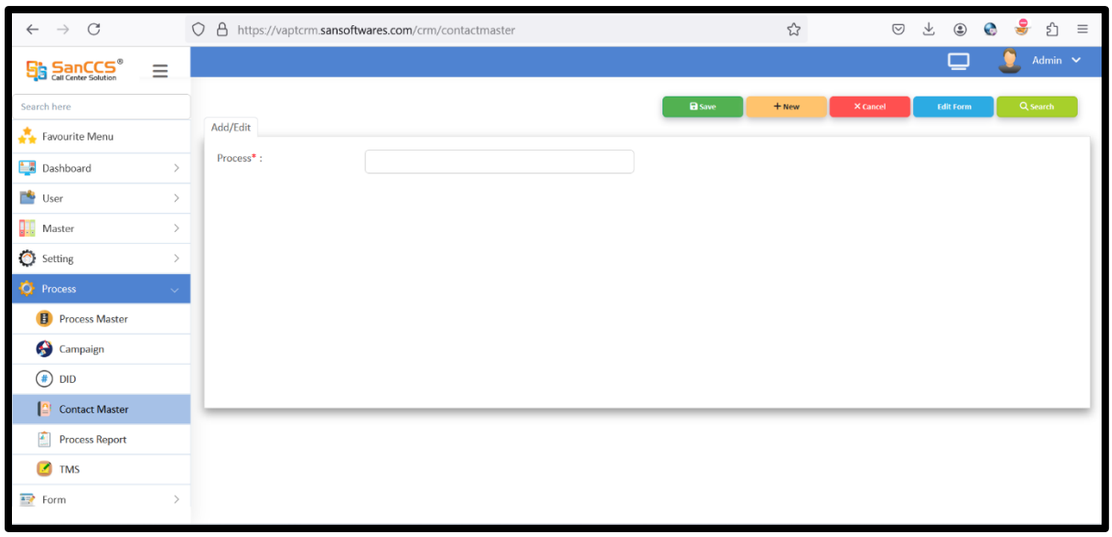
Form
DID
Dashboard / DID
Save
New
Cancel
Add/Edit
List
Client :*
-- select --
DID : *
DID Name :
Mobile No :
Email Id :
Description :
Customize URL :
Open Customized URL Only
DID Script :
Email Account :
Email Template :


https://vaptcrm.sansoftwares.com/crm/contactmaster
SanCCS
Call Center Solution
Admin
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Process
Process Master
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DID
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Process Report
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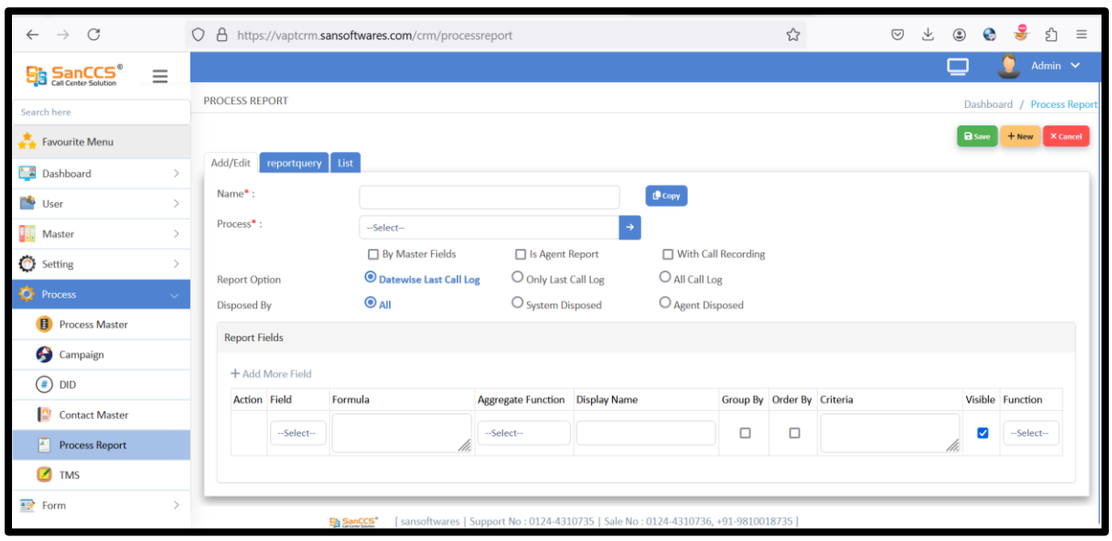
Form
Save
New
Cancel
Edit Form
Search
Add/Edit
Process* :


https://vaptcrm.sansoftwares.com/crm/processreport
SanCCS
Call Center Solution
Admin
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PROCESS REPORT
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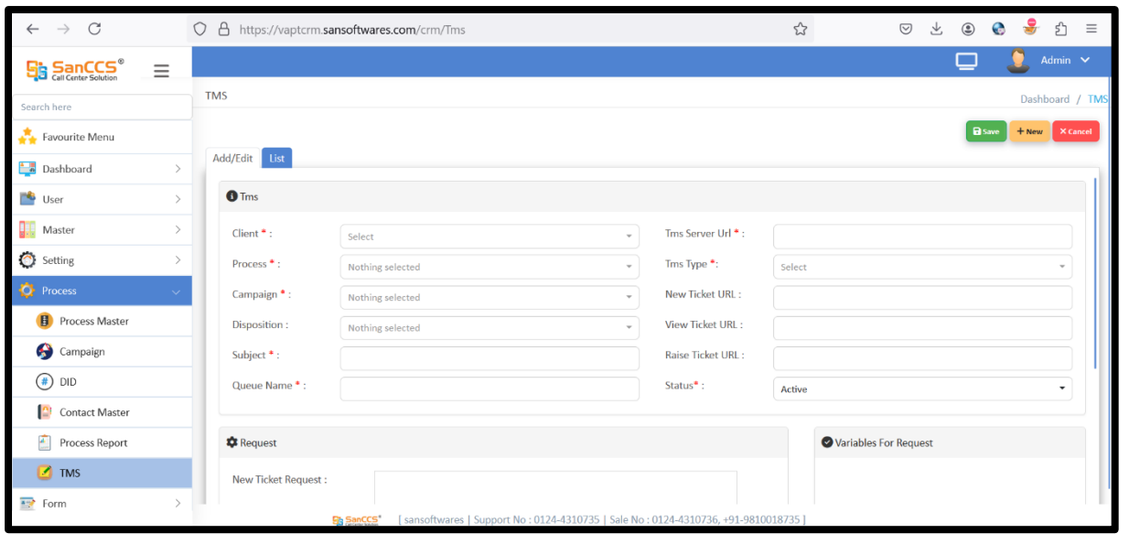
Save
New
Cancel
Add/Edit
reportquery
List
Name* :
Copy
Process* :
--Select--
By Master Fields
Is Agent Report
With Call Recording
Report Option
Datewise Last Call Log
Only Last Call Log
All Call Log
Disposed By
All
System Disposed
Agent Disposed
Report Fields
Add More Field
Action
Field
Formula
Aggregate Function
Display Name
Group By
Order By
Criteria
Visible
Function
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/Tms
SanCCS
Call Center Solution
Admin
Search here
Favourite Menu
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User
Master
Setting
Process
Process Master
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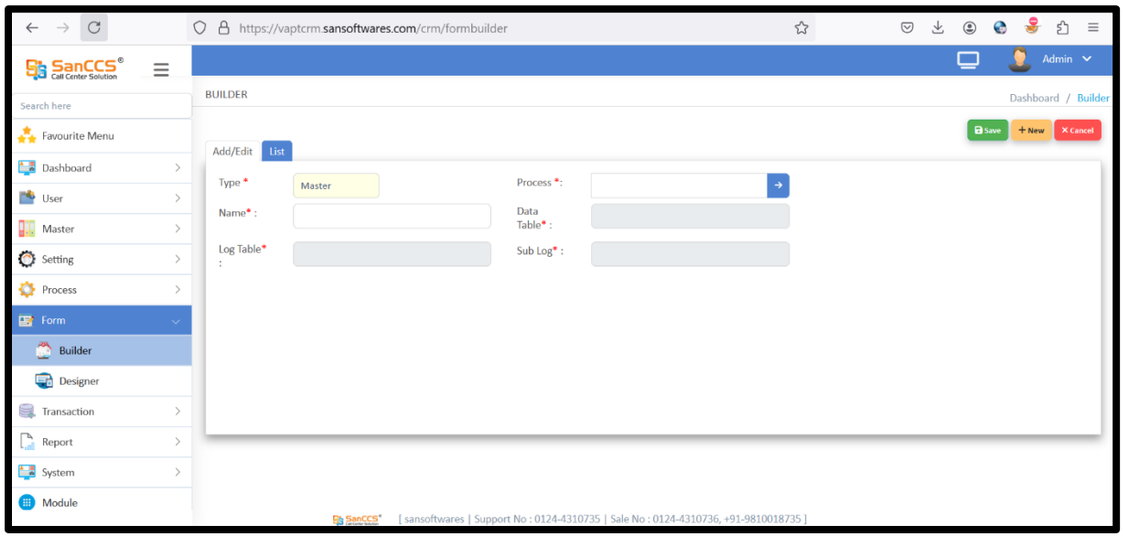
DID
Contact Master
Process Report
TMS
Form
TMS
Dashboard / TMS
Save
New
Cancel
Add/Edit
List
Tms
Client * :
Select
Process * :
Nothing selected
Campaign * :
Nothing selected
Disposition :
Nothing selected
Subject * :
Queue Name * :
Tms Server Url * :
Tms Type *:
Select
New Ticket URL :
View Ticket URL :
Raise Ticket URL :
Status* :
Active
Request
New Ticket Request :
Variables For Request
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/formbuilder
SanCCS
Call Center Solution
Admin
BUILDER
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Search here
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Dashboard
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New
Cancel
Add/Edit
List
Type *
Master
Process *:
Name* :
Data Table* :
Log Table* :
Sub Log* :
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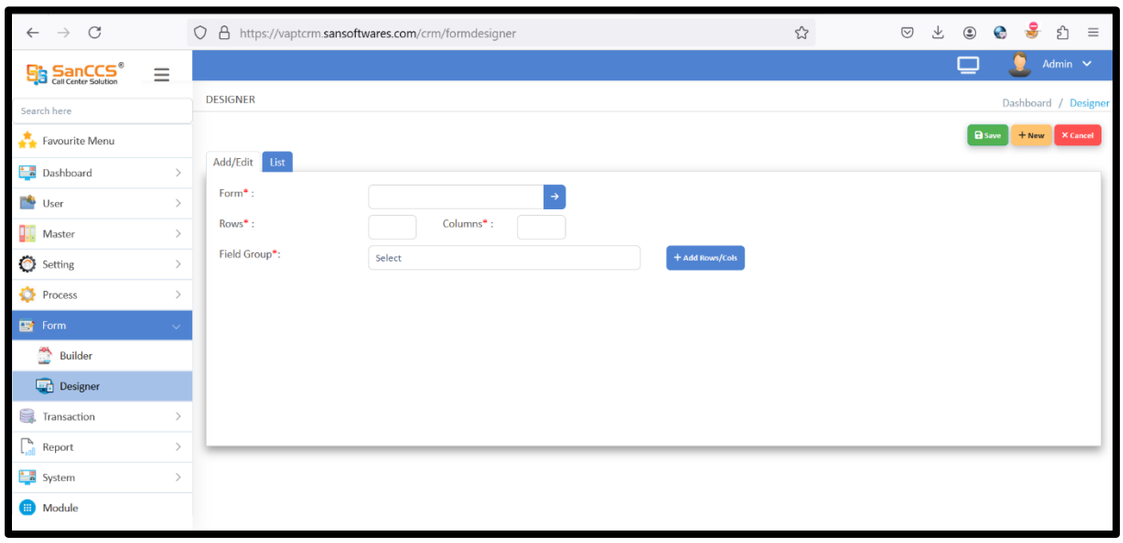
https://vaptcrm.sansoftwares.com/crm/formdesigner
SanCCS
Call Center Solution
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DESIGNER
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Designer
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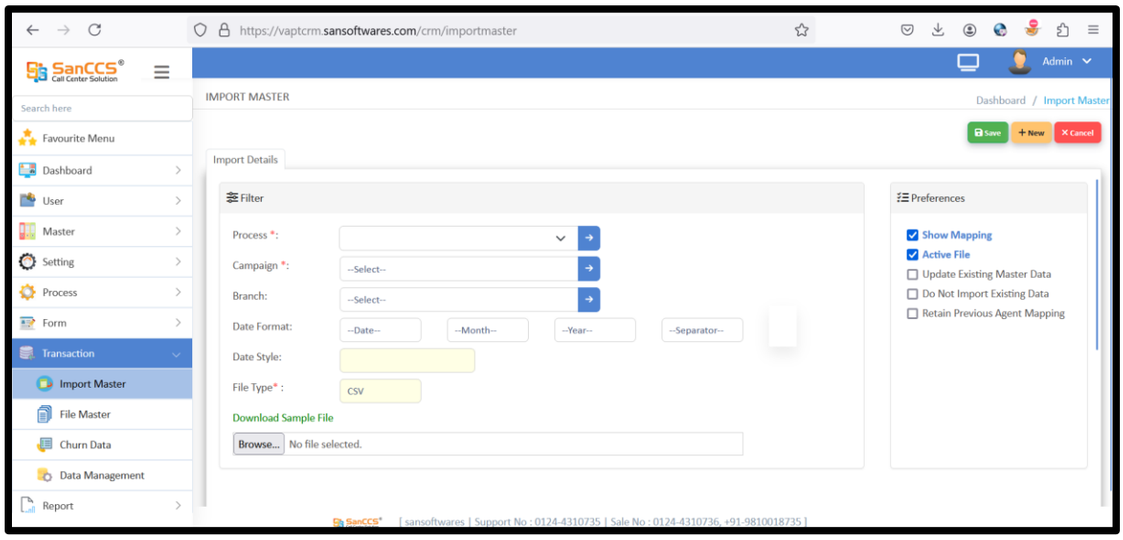
Report
System
Module
Save
New
Cancel
Add/Edit
List
Form* :
Rows* :
Columns* :
Field Group*:
Select
+ Add Rows/Cols


https://vaptcrm.sansoftwares.com/crm/importmaster
SanCCS
Call Center Solution
Admin
IMPORT MASTER
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Process
Form
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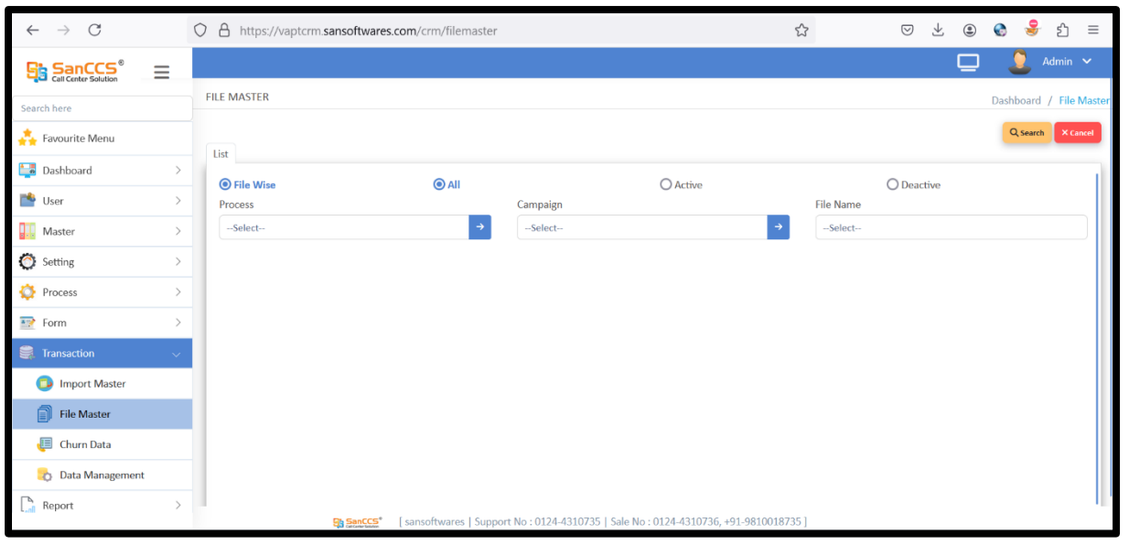
File Master
Churn Data
Data Management
Report
Import Details
Filter
Process *:
Campaign *:
--Select--
Branch:
Date Format:
--Date--
--Month--
--Year--
--Separator--
Date Style:
File Type* :
CSV
Download Sample File
Browse...
No file selected.
Preferences
Show Mapping
Active File
Update Existing Master Data
Do Not Import Existing Data
Retain Previous Agent Mapping
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/filemaster
SanCCS
Call Center Solution
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FILE MASTER
Dashboard / File Master
Search
Cancel
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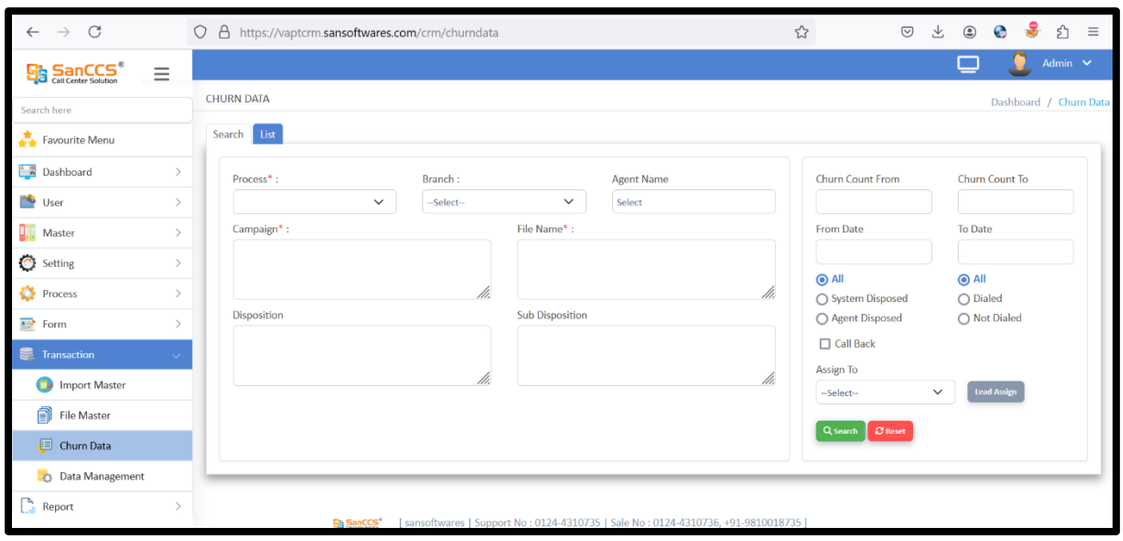
All
Active
Deactive
Process
Campaign
File Name
--Select--
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/churndata
SanCCS
Call Center Solution
Admin
CHURN DATA
Dashboard / Churn Data
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Import Master
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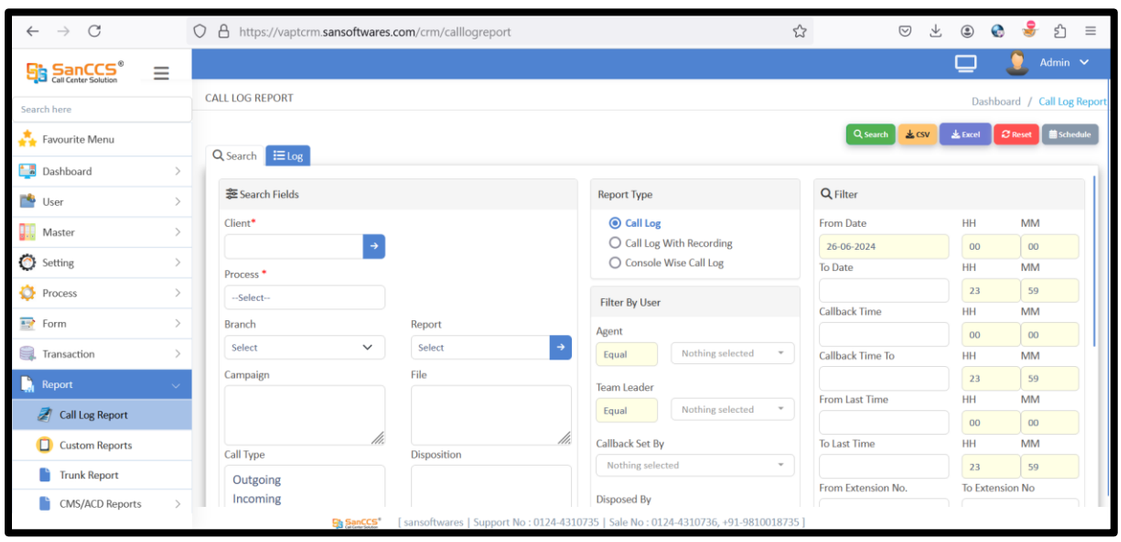
Report
Search
List
Process* :
Branch :
--Select--
Agent Name
Select
Campaign* :
File Name* :
Disposition
Sub Disposition
Churn Count From
Churn Count To
From Date
To Date
All
System Disposed
Agent Disposed
All
Dialed
Not Dialed
Call Back
Assign To
--Select--
Lead Assign
Search
Reset
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/calllogreport
SanCCS
Call Center Solution
Admin
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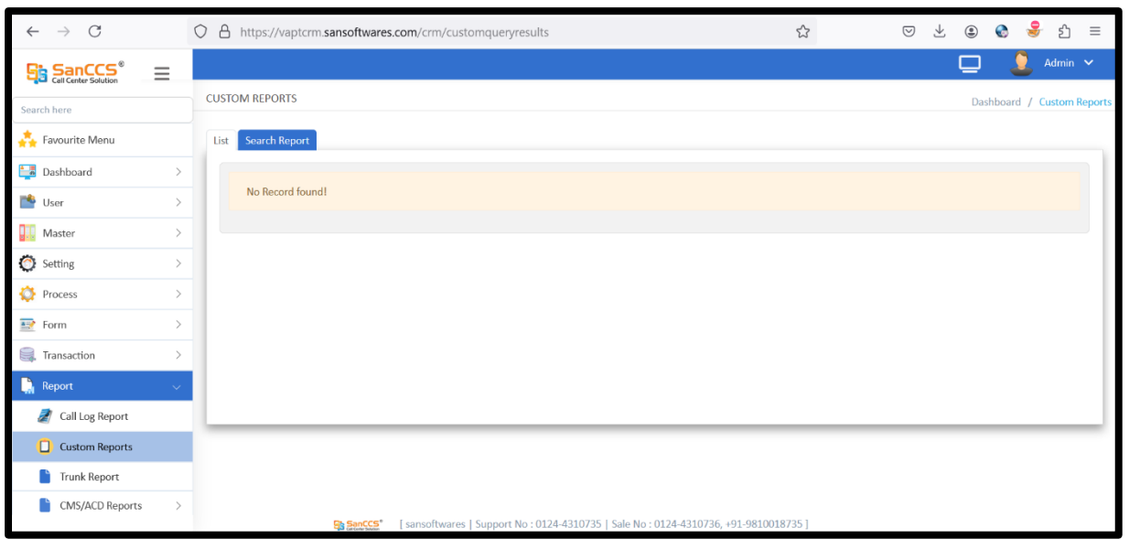
Search
CSV
Excel
Reset
Schedule
Search Fields
Client*
Process *
--Select--
Branch
Select
Report
Select
Campaign
File
Call Type
Outgoing
Incoming
Disposition
Report Type
Call Log
Call Log With Recording
Console Wise Call Log
Filter By User
Agent
Equal
Nothing selected
Team Leader
Equal
Nothing selected
Callback Set By
Nothing selected
Disposed By
Filter
From Date
26-06-2024
HH
00
MM
00
To Date
23
59
Callback Time
00
00
Callback Time To
23
59
From Last Time
00
00
To Last Time
23
59
From Extension No.
To Extension No
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/customqueryresults
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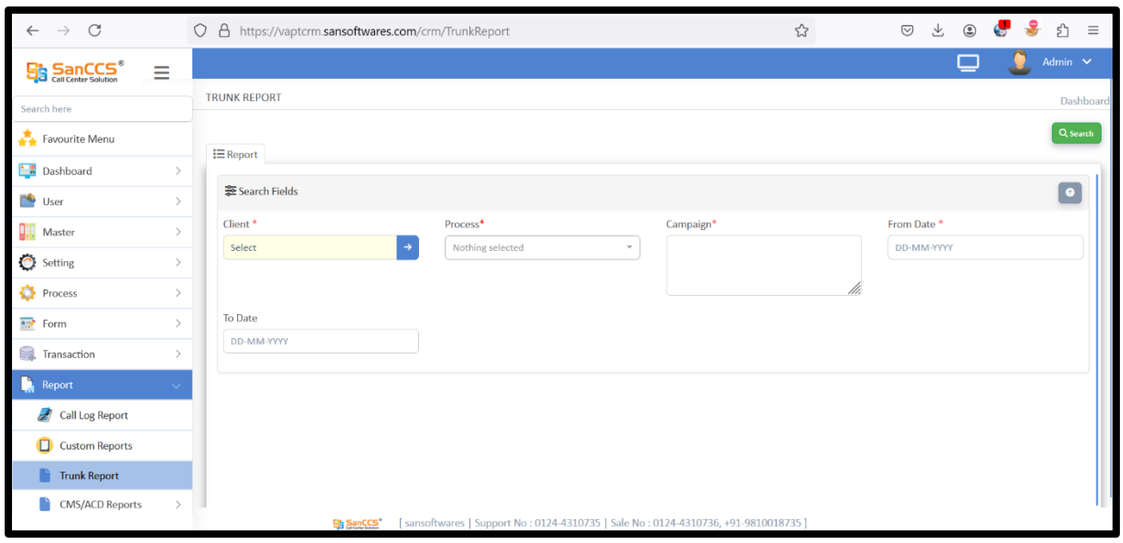
CUSTOM REPORTS
Dashboard / Custom Reports
List
Search Report
No Record found!
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/TrunkReport
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Trunk Report
CMS/ACD Reports
TRUNK REPORT
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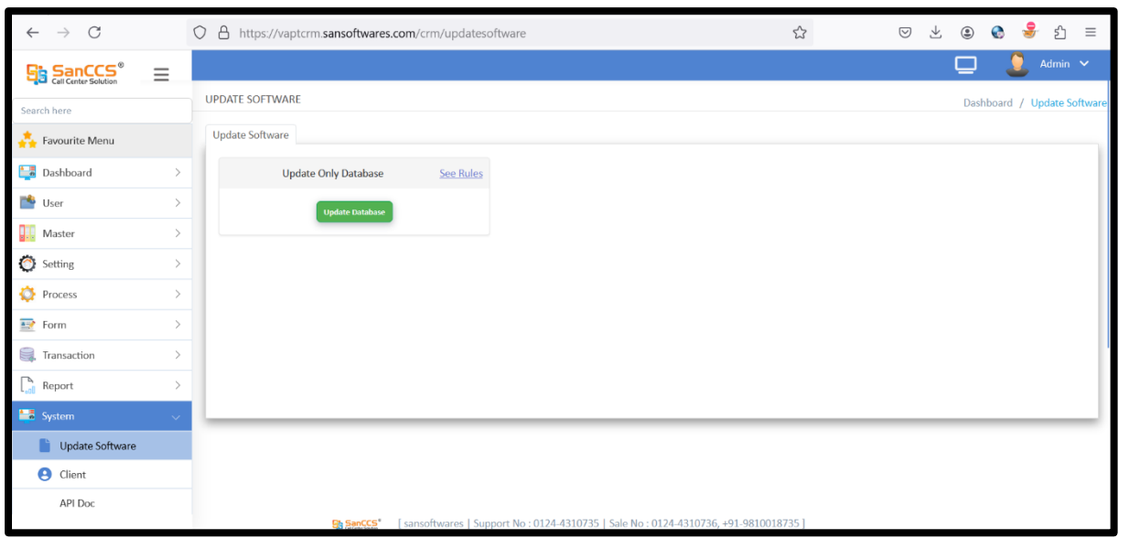
Search
Report
Search Fields
Client *
Select
Process*
Nothing selected
Campaign*
From Date *
DD-MM-YYYY
To Date
DD-MM-YYYY
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/updatesoftware
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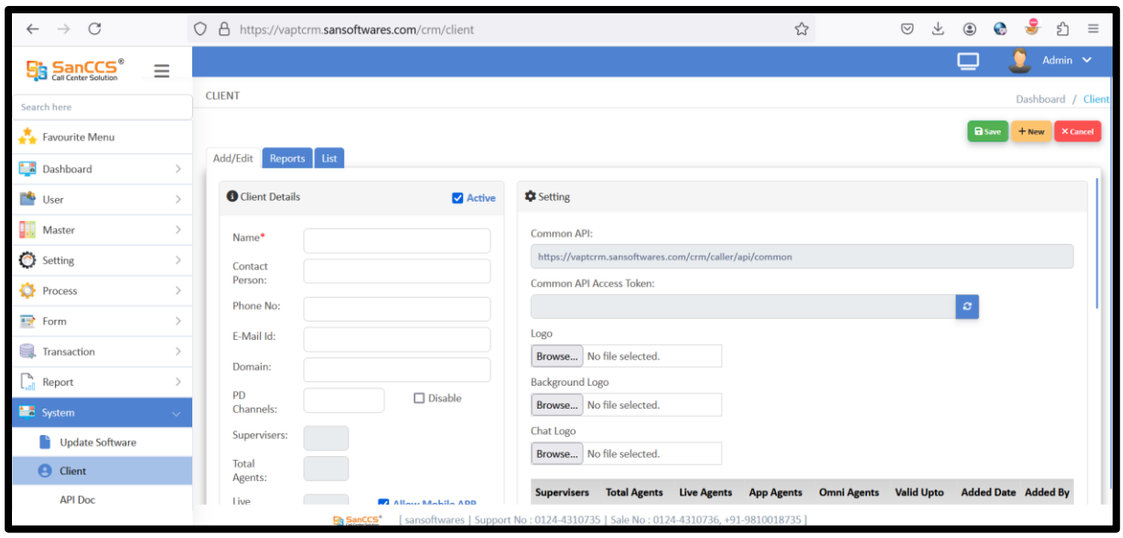
Update Software
Update Only Database
See Rules
Update Database
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/client
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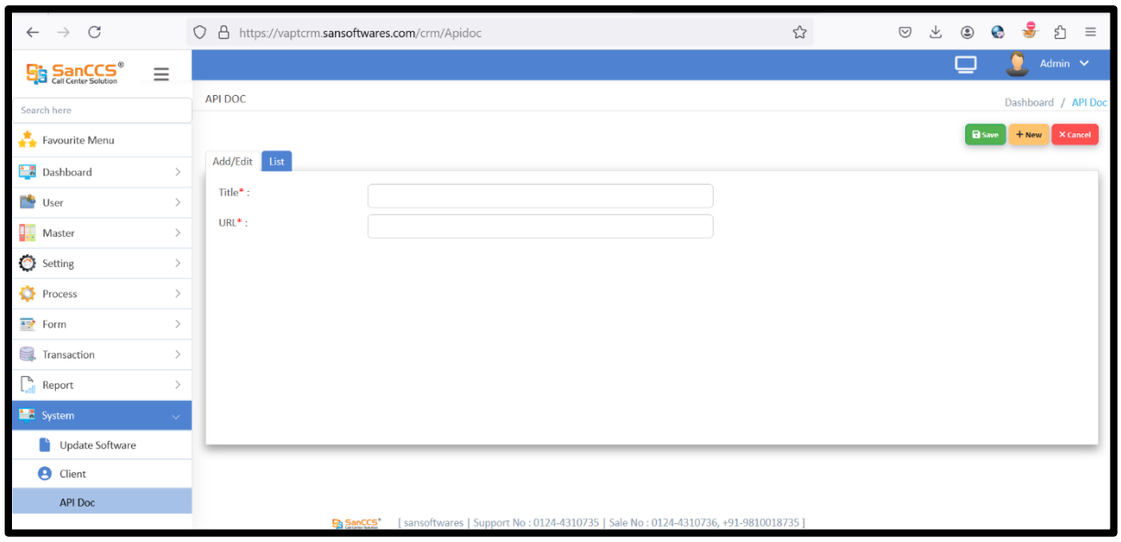
Reports
List
Client Details
Active
Name*
Contact Person:
Phone No:
E-Mail Id:
Domain:
PD Channels:
Disable
Supervisers:
Total Agents:
Setting
Common API:
https://vaptcrm.sansoftwares.com/crm/caller/api/common
Common API Access Token:
Logo
Browse...
No file selected.
Background Logo
Browse...
No file selected.
Chat Logo
Browse...
No file selected.
Supervisers
Total Agents
Live Agents
App Agents
Omni Agents
Valid Upto
Added Date
Added By
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/Apidoc
SanCCS
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Master
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Process
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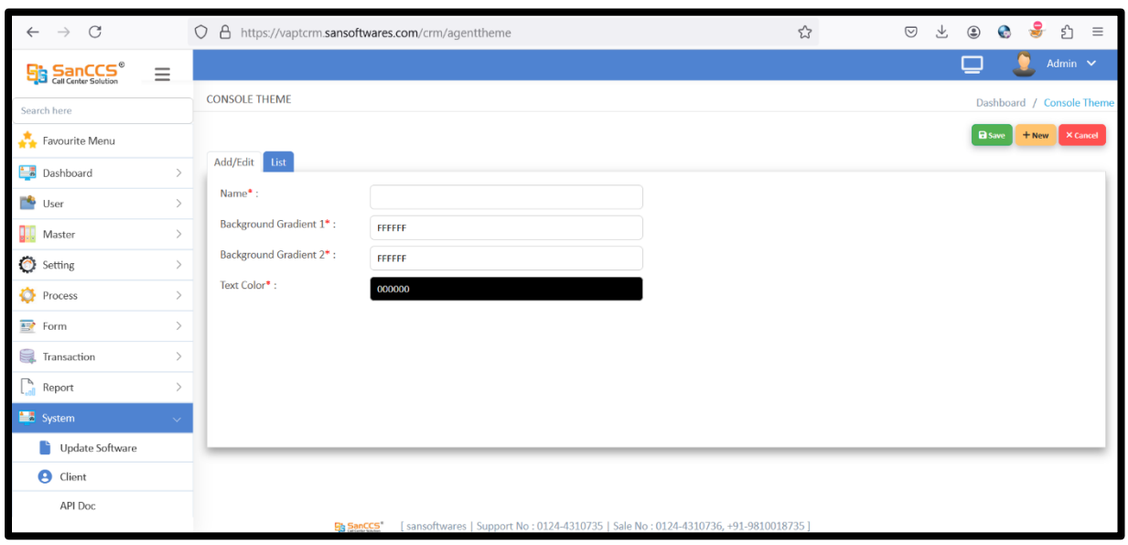
New
Cancel
Add/Edit
List
Title* :
URL* :
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/agenttheme
SanCCS
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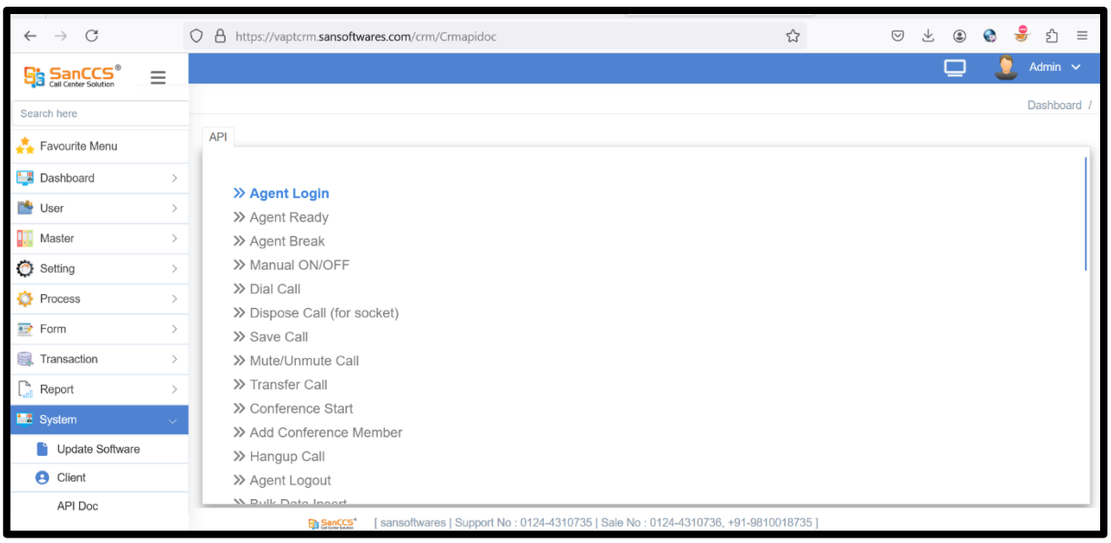
Cancel
Add/Edit
List
Name* :
Background Gradient 1* :
FFFFFF
Background Gradient 2* :
FFFFFF
Text Color* :
000000
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/Crmapidoc
SanCCS
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Agent Break
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Dial Call
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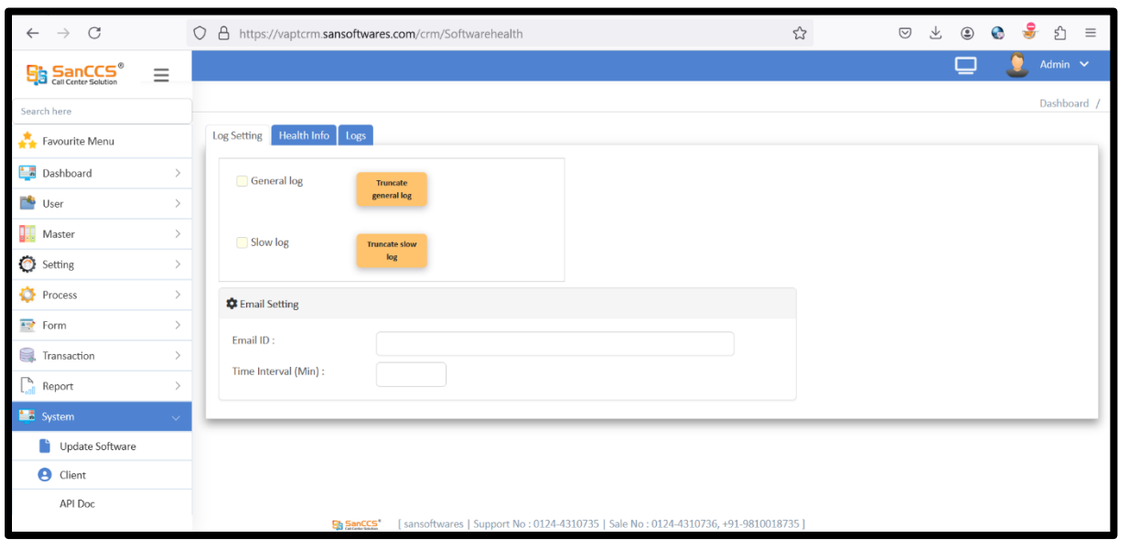
Mute/Unmute Call
Transfer Call
Conference Start
Add Conference Member
Hangup Call
Agent Logout
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/Softwarehealth
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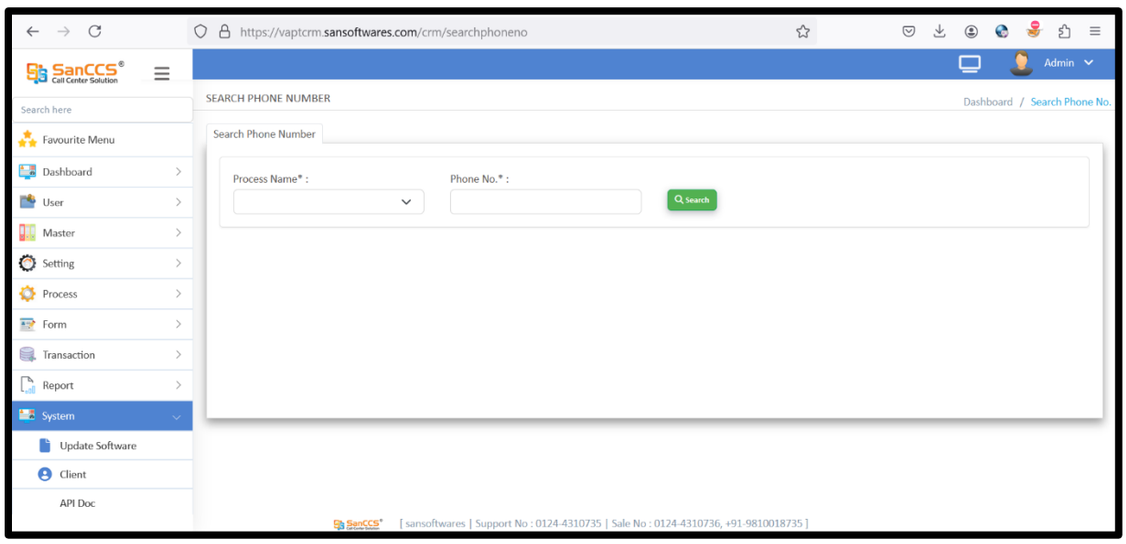
General log
Truncate general log
Slow log
Truncate slow log
Email Setting
Email ID :
Time Interval (Min) :
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/searchphoneno
SanCCS
Call Center Solution
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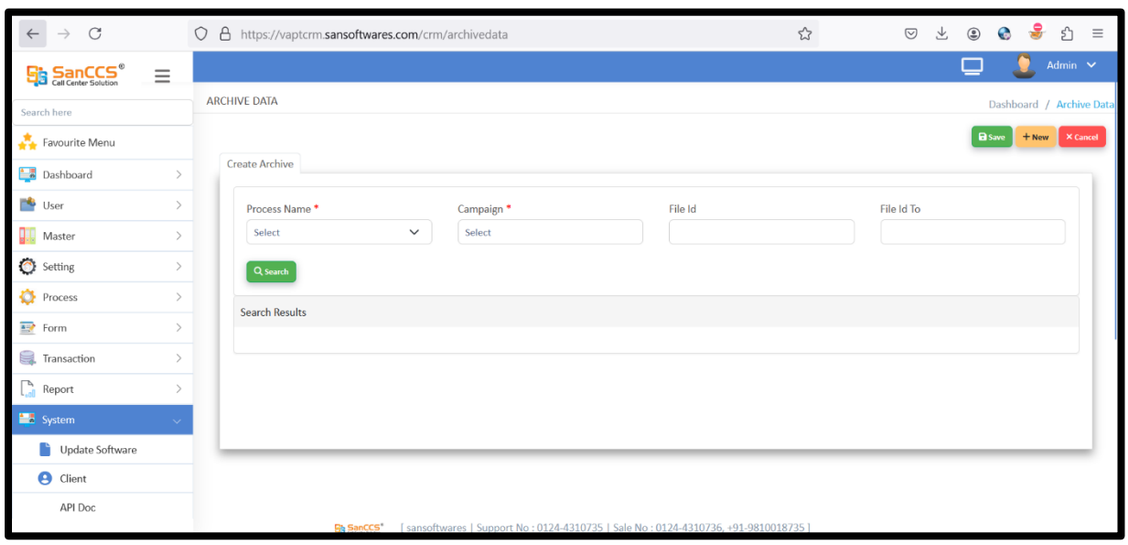
Dashboard / Search Phone No.
Search Phone Number
Process Name* :
Phone No.* :
Search
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/archivedata
SanCCS
Call Center Solution
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Update Software
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Dashboard / Archive Data
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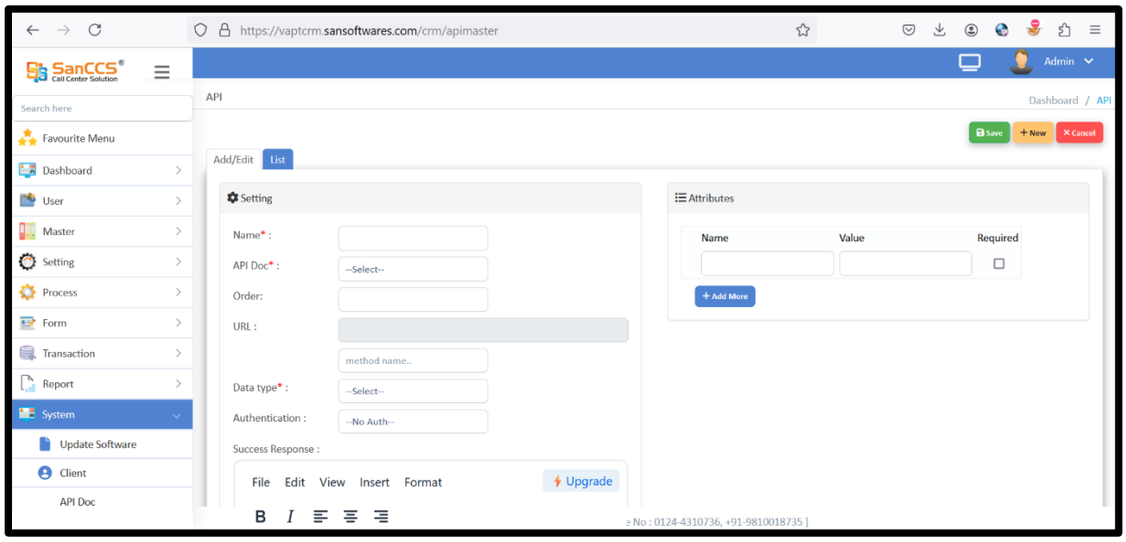
New
Cancel
Create Archive
Process Name *
Campaign *
File Id
File Id To
Select
Select
Search
Search Results
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]


https://vaptcrm.sansoftwares.com/crm/apimaster
SanCCS
Admin
API
Dashboard / API
Save
New
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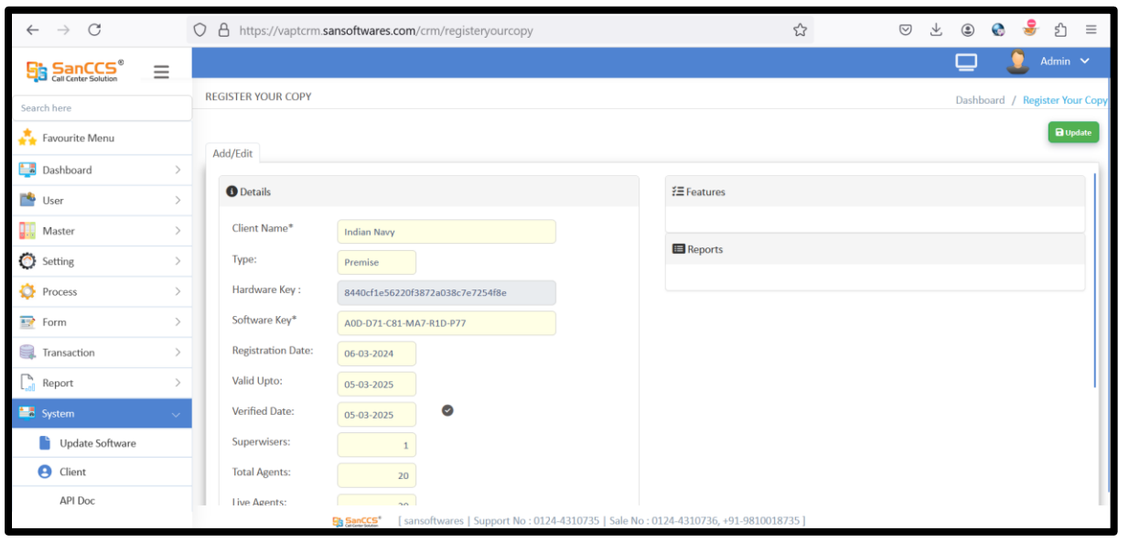
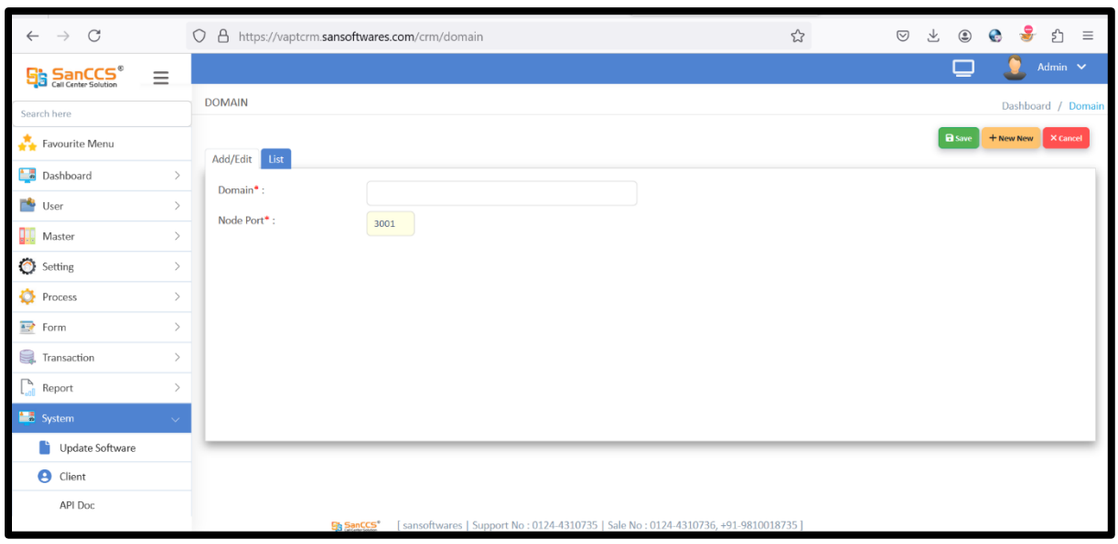
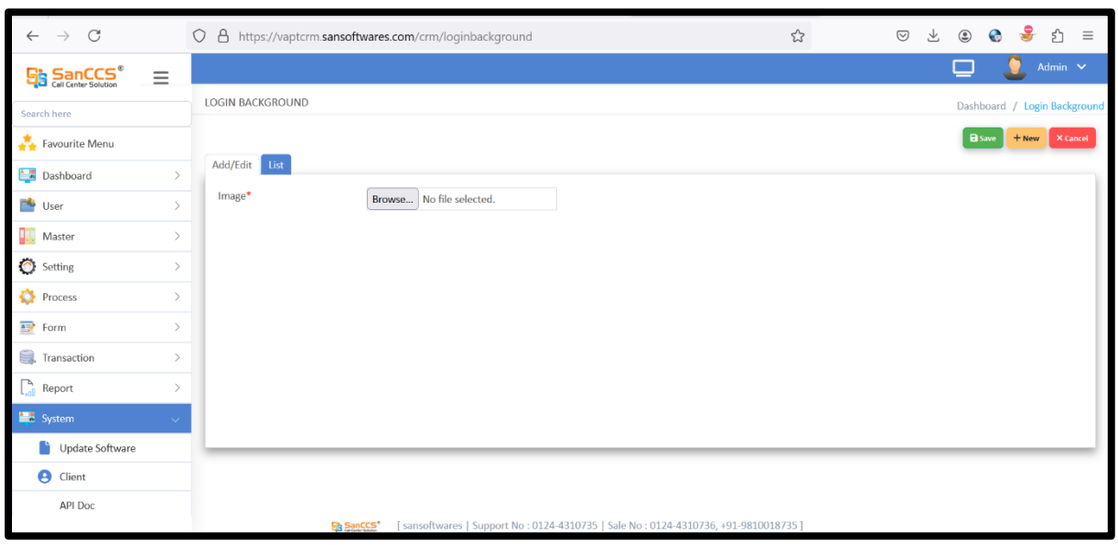
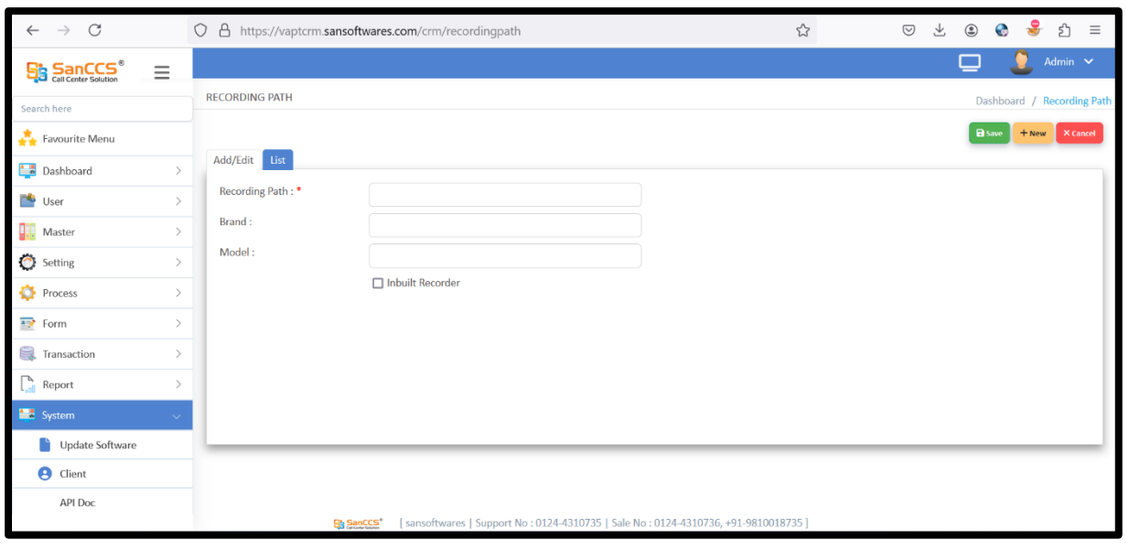
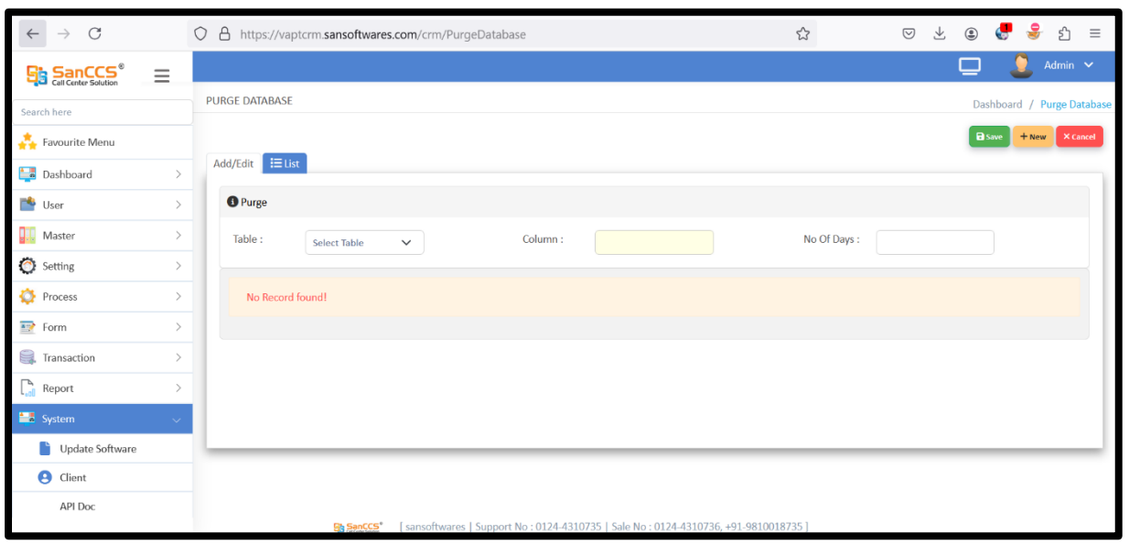
List
Setting
Name* :
API Doc* :
--Select--
Order:
URL :
method name..
Data type* :
--Select--
Authentication :
--No Auth--
Success Response :
File Edit View Insert Format
Upgrade
Attributes
Name
Value
Required
Add More
Favourite Menu
Dashboard
User
Master
Setting
Process
Form
Transaction
Report
System
Update Software
Client
API Doc

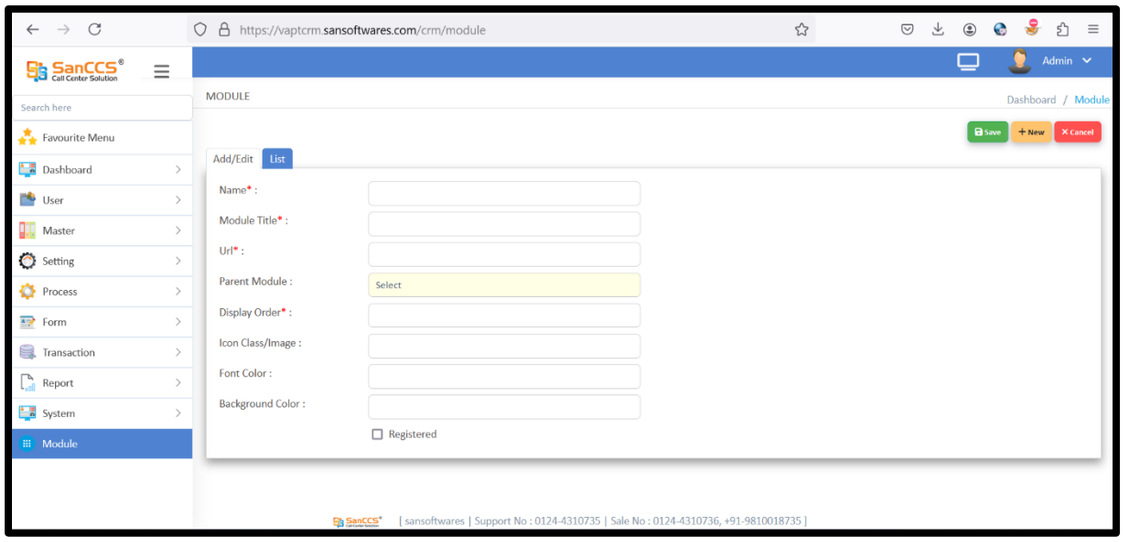

https://vaptcrm.sansoftwares.com/crm/registeryourcopy
SanCCS
Admin
REGISTER YOUR COPY
Dashboard / Register Your Copy
Update
Add/Edit
Details
Client Name*
Indian Navy
Type:
Premise
Hardware Key :
8440cf1e56220f3872a038c7e7254f8e
Software Key*
A0D-D71-C81-MA7-R1D-P77
Registration Date:
06-03-2024
Valid Upto:
05-03-2025
Verified Date:
05-03-2025
Superwisers:
1
Total Agents:
20
Features
Reports
Favourite Menu
Dashboard
User
Master
Setting
Process
Form
Transaction
Report
System
Update Software
Client
API Doc

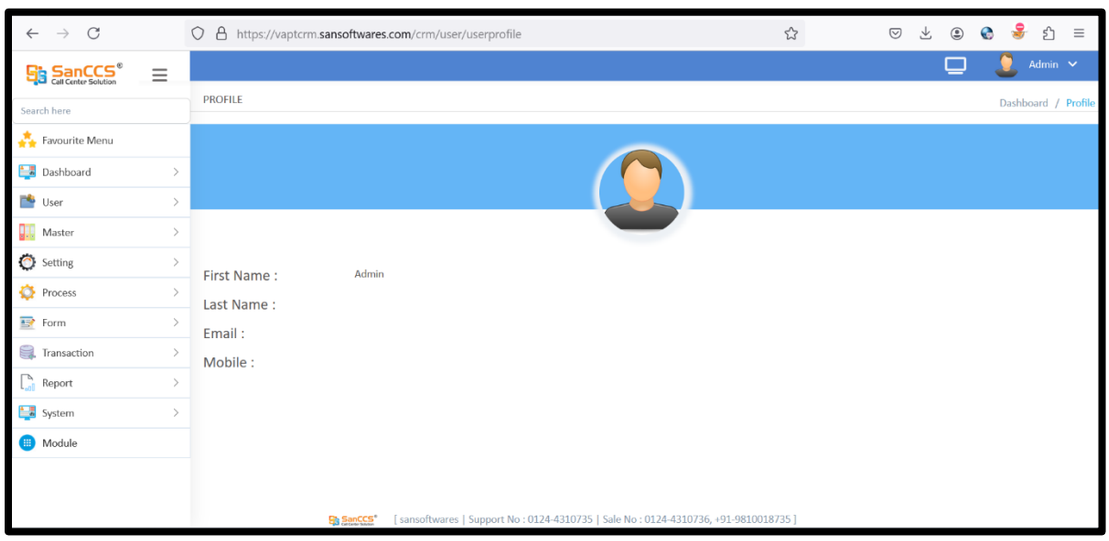

https://vaptcrm.sansoftwares.com/crm/domain
SanCCS
Call Center Solution
Admin
Search here
Favourite Menu
Dashboard
User
Master
Setting
Process
Form
Transaction
Report
System
Update Software
Client
API Doc
DOMAIN
Dashboard / Domain
Save
New New
Cancel
Add/Edit
List
Domain* :
Node Port* :
3001
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]

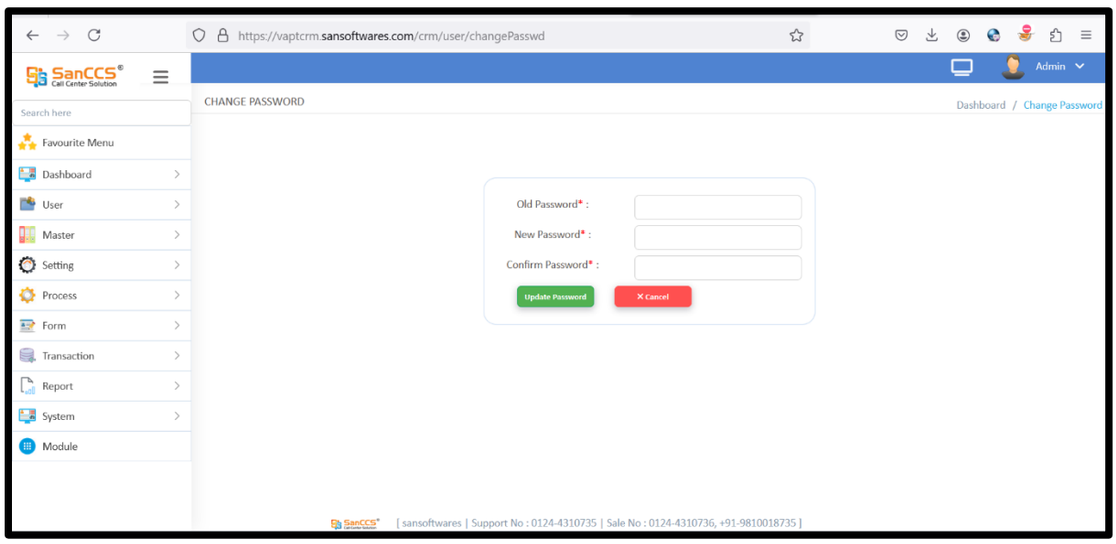

https://vaptcrm.sansoftwares.com/crm/loginbackground
SanCCS
Call Center Solution
Admin
Search here
Favourite Menu
Dashboard
User
Master
Setting
Process
Form
Transaction
Report
System
Update Software
Client
API Doc
LOGIN BACKGROUND
Dashboard / Login Background
Save
New
Cancel
Add/Edit
List
Image*
Browse...
No file selected.
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]

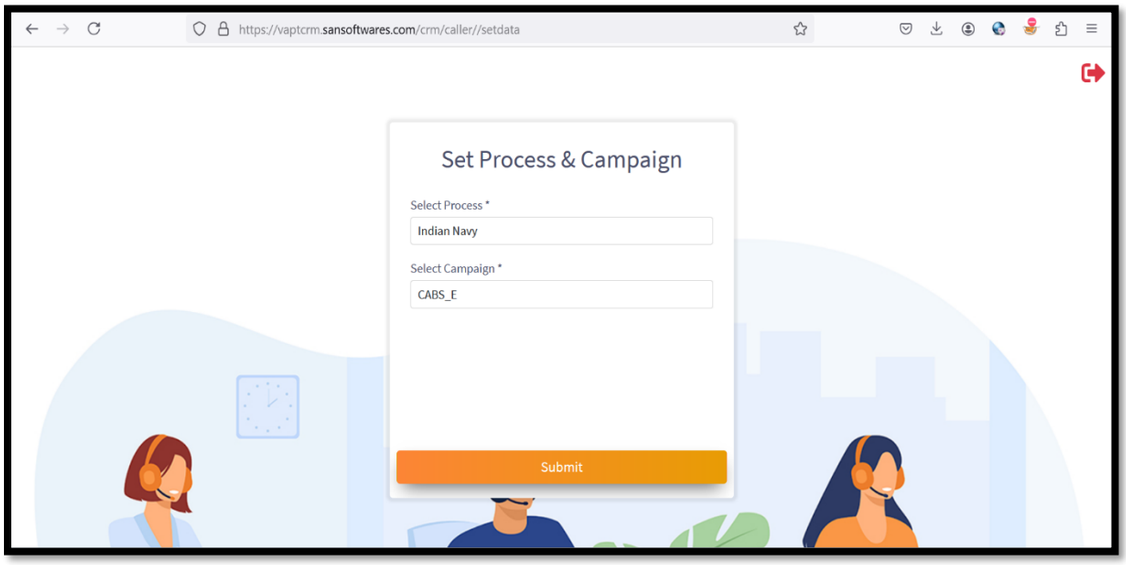

https://vaptcrm.sansoftwares.com/crm/recordingpath
SanCCS
Call Center Solution
Admin
Search here
Favourite Menu
Dashboard
User
Master
Setting
Process
Form
Transaction
Report
System
Update Software
Client
API Doc
RECORDING PATH
Dashboard / Recording Path
Save
New
Cancel
Add/Edit
List
Recording Path : *
Brand :
Model :
Inbuilt Recorder
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]

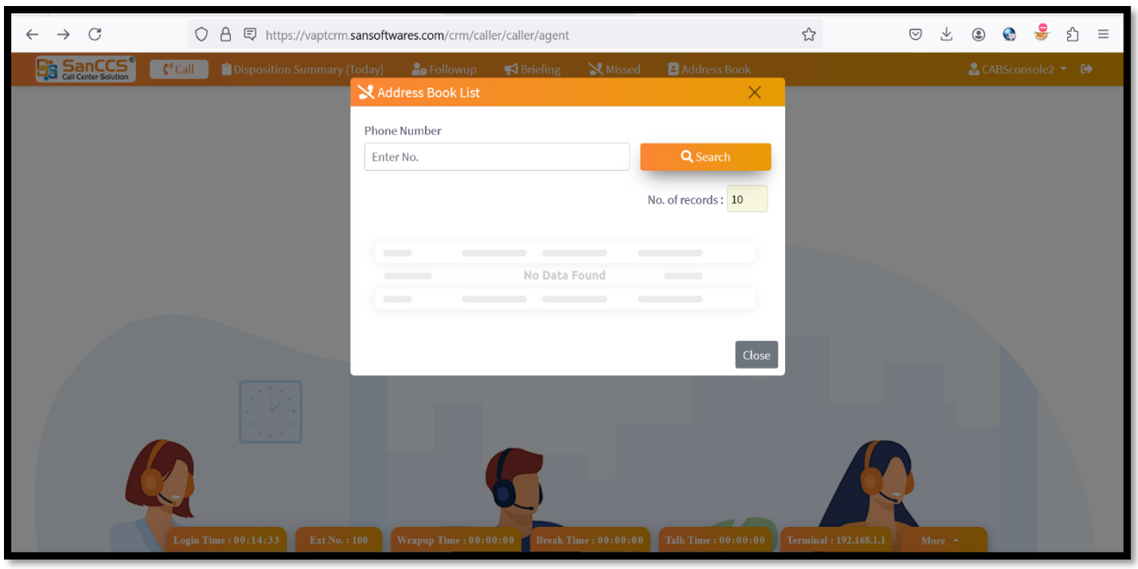

https://vaptcrm.sansoftwares.com/crm/PurgeDatabase
SanCCS
Call Center Solution
Admin
Search here
Favourite Menu
Dashboard
User
Master
Setting
Process
Form
Transaction
Report
System
Update Software
Client
API Doc
PURGE DATABASE
Dashboard / Purge Database
Save
New
Cancel
Add/Edit
List
Purge
Table :
Select Table
Column :
No Of Days :
No Record found!
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]

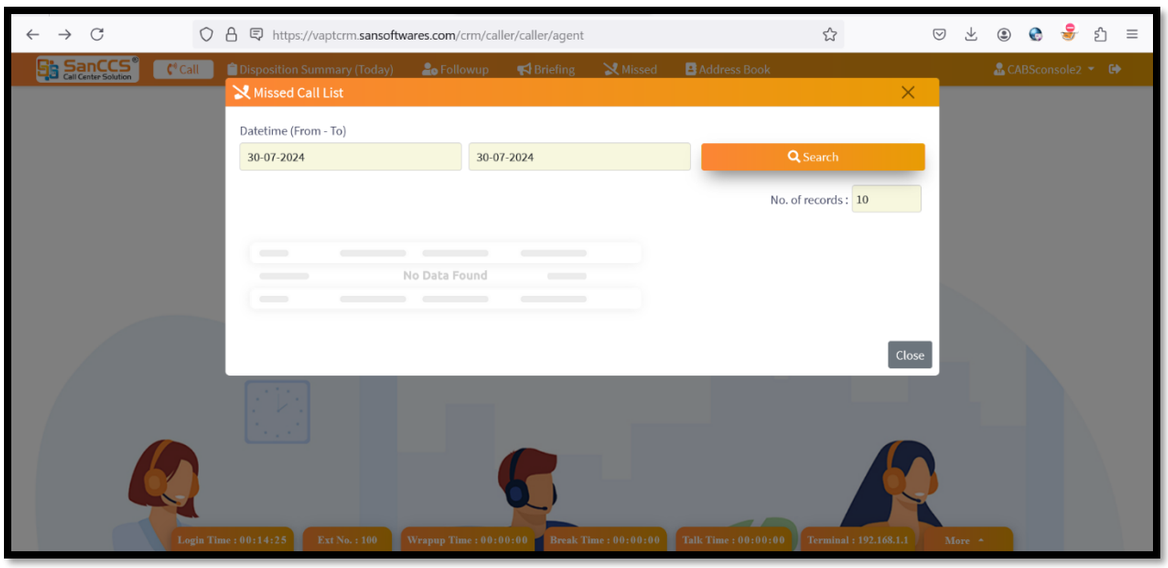

https://vaptcrm.sansoftwares.com/crm/module
SanCCS
Call Center Solution
Search here
Favourite Menu
Dashboard
User
Master
Setting
Process
Form
Transaction
Report
System
Module
Admin
MODULE
Dashboard / Module
Save
New
Cancel
Add/Edit
List
Name* :
Module Title* :
Url* :
Parent Module :
Select
Display Order* :
Icon Class/Image :
Font Color :
Background Color :
Registered
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]

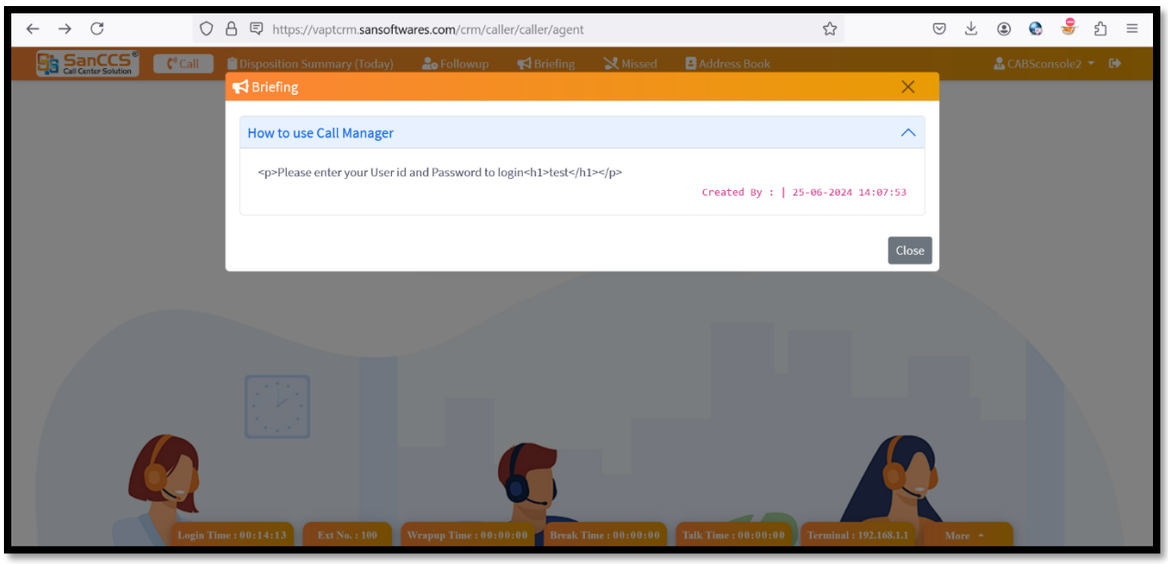

https://vaptcrm.sansoftwares.com/crm/user/userprofile
SanCCS
Call Center Solution
Search here
Favourite Menu
Dashboard
User
Master
Setting
Process
Form
Transaction
Report
System
Module
Admin
PROFILE
Dashboard / Profile
First Name :
Admin
Last Name :
Email :
Mobile :
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]

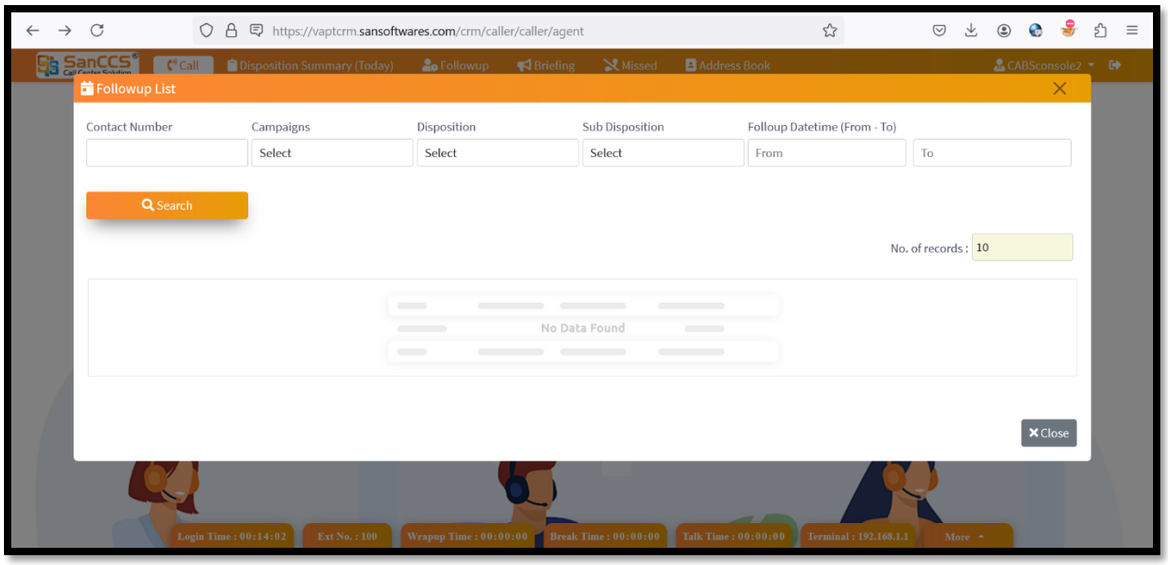

https://vaptcrm.sansoftwares.com/crm/user/changePasswd
SanCCS
Call Center Solution
Admin
Search here
Favourite Menu
Dashboard
User
Master
Setting
Process
Form
Transaction
Report
System
Module
CHANGE PASSWORD
Dashboard / Change Password
Old Password* :
New Password* :
Confirm Password* :
Update Password
Cancel
[sansoftwares | Support No : 0124-4310735 | Sale No : 0124-4310736, +91-9810018735]

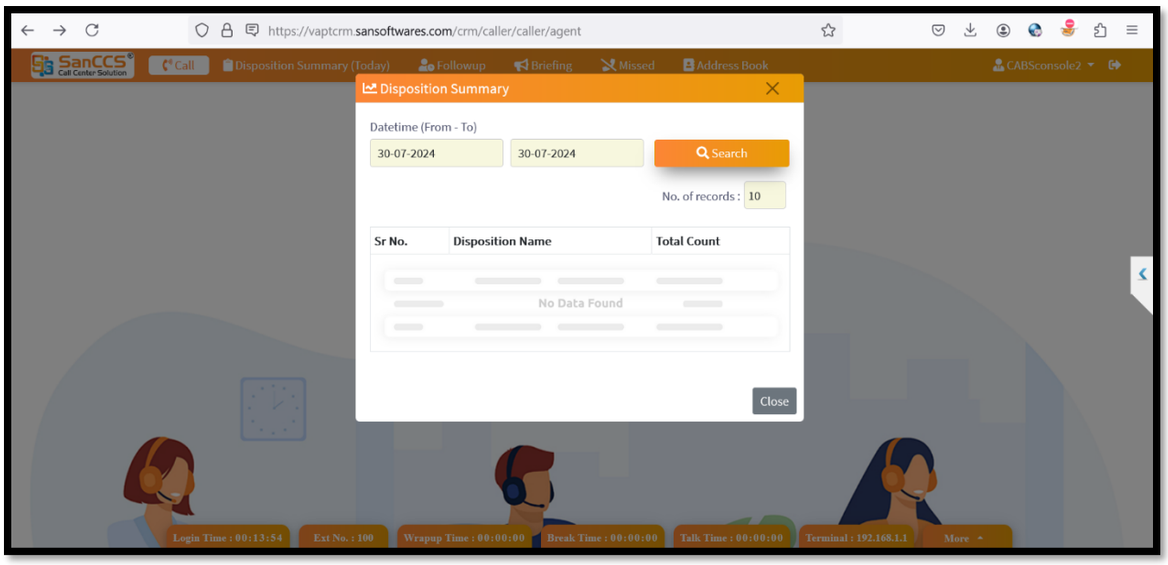

https://vaptcrm.sansoftwares.com/crm/caller//setdata
Set Process & Campaign
Select Process *
Indian Navy
Select Campaign *
CABS_E
Submit

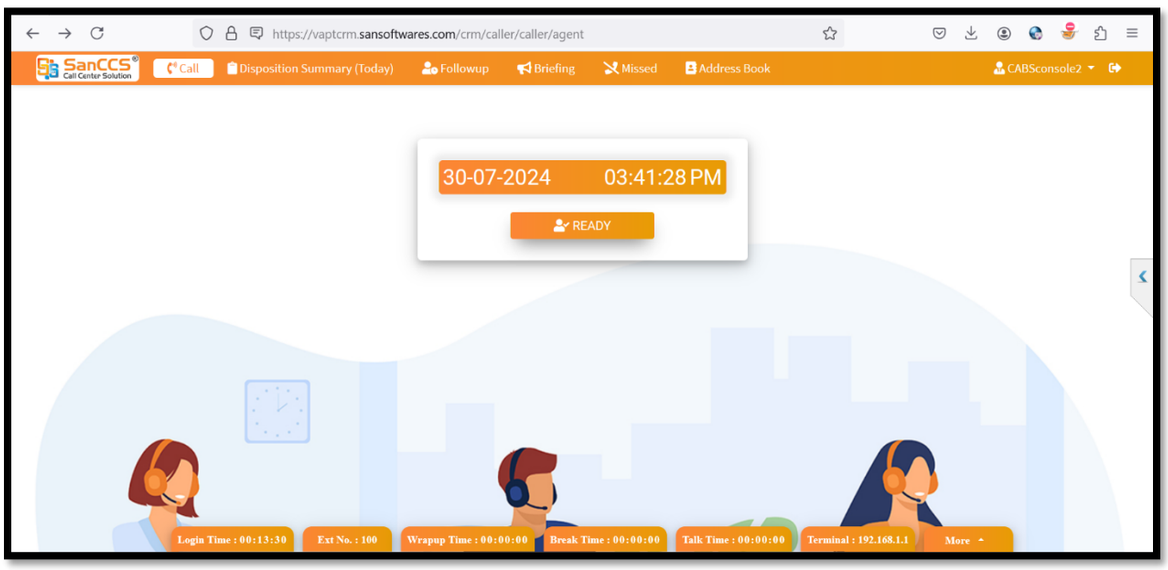

https://vaptcrm.sansoftwares.com/crm/caller/caller/agent
SanCCS
Call
Disposition Summary (Today)
Followup
Briefing
Missed
Address Book
CABSconsole2
Address Book List
Phone Number
Enter No.
Search
No. of records : 10
No Data Found
Close
Login Time : 00:14:33
Ext No. : 100
Wrapup Time : 00:00:00
Break Time : 00:00:00
Talk Time : 00:00:00
Terminal : 192.168.1.1
More


https://vaptcrm.sansoftwares.com/crm/caller/caller/agent
SanCCS
Call
Disposition Summary (Today)
Followup
Briefing
Missed
Address Book
CABSconsole2
Missed Call List
Datetime (From - To)
30-07-2024
30-07-2024
Search
No. of records : 10
No Data Found
Close
Login Time : 00:14:25
Ext No. : 100
Wrapup Time : 00:00:00
Break Time : 00:00:00
Talk Time : 00:00:00
Terminal : 192.168.1.1
More


https://vaptcrm.sansoftwares.com/crm/caller/caller/agent
SanCCS
Call
Disposition Summary (Today)
Followup
Briefing
Missed
Address Book
CABSconsole2
Briefing
How to use Call Manager
Please enter your User id and Password to login<h1>test</h1>
Created By : | 25-06-2024 14:07:53
Close
Login Time : 00:14:13
Ext No. : 100
Wrapup Time : 00:00:00
Break Time : 00:00:00
Talk Time : 00:00:00
Terminal : 192.168.1.1
More


https://vaptcrm.sansoftwares.com/crm/caller/caller/agent
SanCCS
Call
Disposition Summary (Today)
Followup
Briefing
Missed
Address Book
CABSconsole2
Followup List
Contact Number
Campaigns
Disposition
Sub Disposition
Followup Datetime (From - To)
Select
Select
Select
From
To
Search
No. of records : 10
No Data Found
Close
Login Time : 00:14:02
Ext No. : 100
Wrapup Time : 00:00:00
Break Time : 00:00:00
Talk Time : 00:00:00
Terminal : 192.168.1.1
More


https://vaptcrm.sansoftwares.com/crm/caller/caller/agent
SanCCS Call Center Solution
Call
Disposition Summary (Today)
Followup
Briefing
Missed
Address Book
CABSconsole2
Disposition Summary
Datetime (From - To)
30-07-2024
30-07-2024
Search
No. of records : 10
Sr No.
Disposition Name
Total Count
No Data Found
Close
Login Time : 00:13:54
Ext No. : 100
Wrapup Time : 00:00:00
Break Time : 00:00:00
Talk Time : 00:00:00
Terminal : 192.168.1.1
More


https://vaptcrm.sansoftwares.com/crm/caller/caller/agent
SanCCS Call Center Solution
Call
Disposition Summary (Today)
Followup
Briefing
Missed
Address Book
CABSconsole2
30-07-2024 03:41:28 PM
READY
Login Time : 00:13:30
Ext No. : 100
Wrapup Time : 00:00:00
Break Time : 00:00:00
Talk Time : 00:00:00
Terminal : 192.168.1.1
More

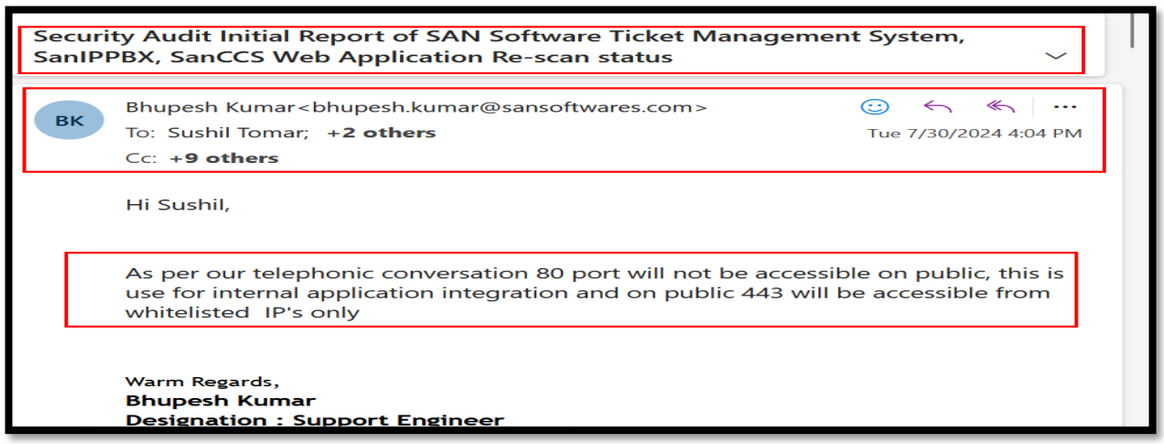
Annexure#1

Recommendation(s):

- Folder containing “JAVA” pages should be given “READ ONLY”.
- The following uploading folders to be given “READ and WRITE” permission.
  URL: /var/www/html/crm/upload
- Hosted equivalent of the following URL to be deployed over latest TLS:
  URL: https://vaptcrm.sansoftwares.com/crm/caller/
- Server and JAVA version should not be disclosed in the Response header of the application.
- Server and JAVA version should be stabled in the production environment.
- HTTP Security Headers should be implemented in the application before goes live in Production.

Note:

1. All the malicious scripts or data being saved into the database during the audit shall be removed once the site goes live.
2. If any modification in the application is made in the future the website should be subjected to the security audit as per the directives of Cert-In.
3. Screenshot has been attached for mail confirmation of Multiple port are open vulnerability.



4. Screenshot has been attached for Audit logs are maintained in the application.