



Application Security Testing

Initial #1023 | Dynamic Application Security Testing | Spoky

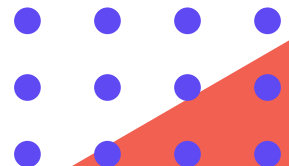
The following report provides a comprehensive and professional summary of the initial review process, findings, and recommendations pertaining to the above-mentioned test request. All observations and results are documented in accordance with the standards outlined in the Test Request and Initial Review schemas.

Prepared For:

Application Owner

Prepared By:

CISO



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Executive Summary

The assessment was conducted in accordance with the recommendations and methodology outlined in OWASP - 2021 and NIST-SWAT frameworks with all tests and actions being conducted under controlled conditions. Efforts were placed on the identification and exploitation of security weaknesses that could allow a remote attacker to gain unauthorized access to organizational data.

The details of the application are mentioned below:

Application Name	Spoky	Application Type	Web Application
Asset Group	Application	Application Owner	Application Owner

Test Details

Test Stage	Initial	Start Date	Sep 15, 2025
Prepared By	CISO	End Date	Sep 15, 2025

The Objective

To identify security vulnerabilities and test the effectiveness of security controls placed on the Spoky application. The assessment was performed without any prior knowledge, assuming an identity of an adversary who can effectively compromise the application.

Overall there were total **3 Observations** recorded by security auditors for above Web application, out of which **2 High** and **1 Medium** observations were found.

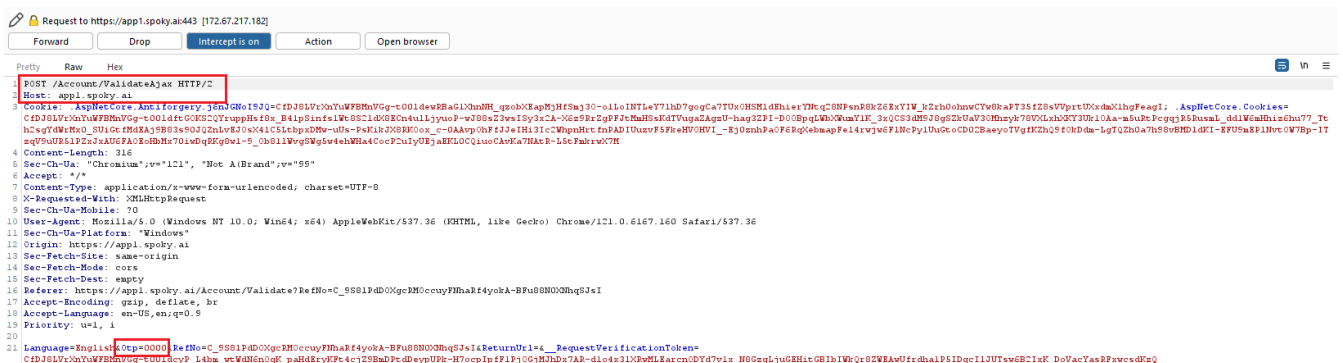
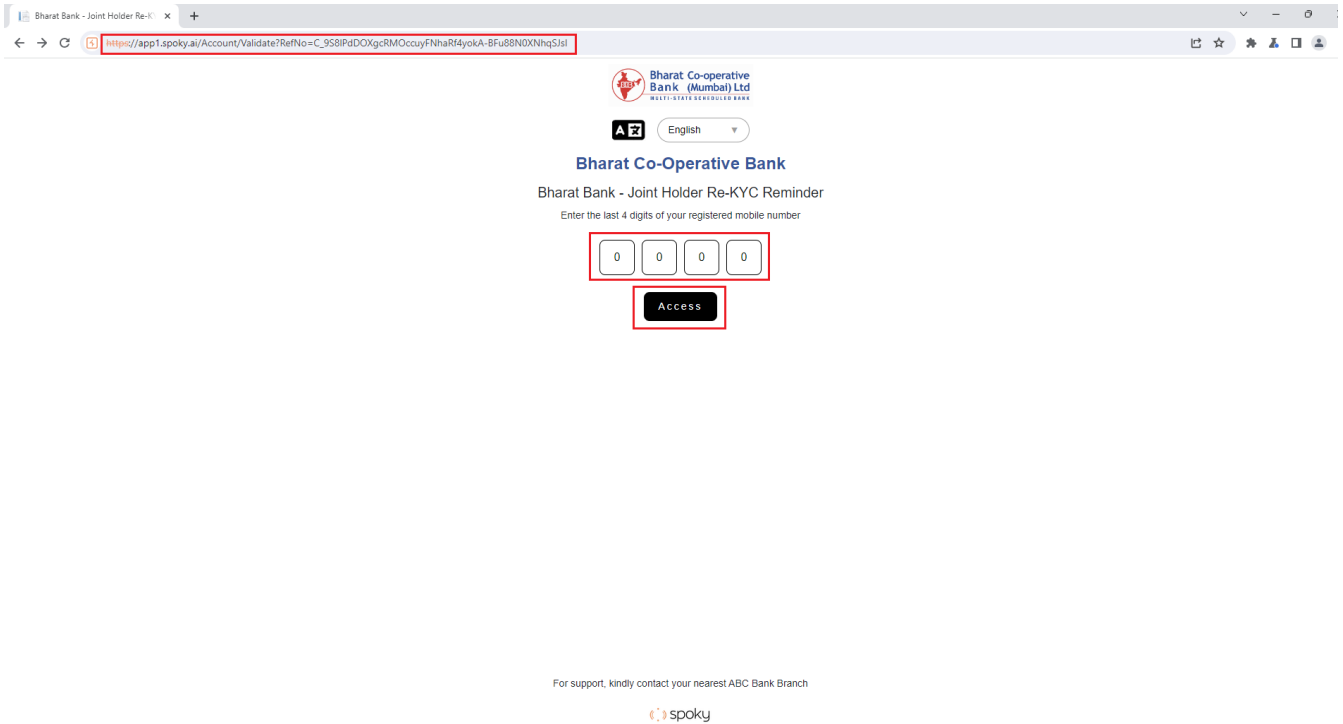
Report Issues Statics

Open Issues	Closed Issues	Total Issues
0	3	3

side responses (e.g., intercepting API calls via a proxy and modifying the server's response or request payload). This indicates insufficient server-side validation and reliance on client inputs for authentication flow.

Severity	Status	CVSS
HIGH	CLOSED	8.5 / 10

Initial:



Response from https://app1.spoky.ai:443/Account/ValidateAjax [172.67.217.182]

Forward Drop Intercept is on Action Open browser

Pretty Raw Hex Render

```
1 HTTP/2 200 OK
2 Date: Mon, 15 Sep 2025 12:23:35 GMT
3 Content-Type: application/json; charset=utf-8
4 Server: cloudflare
5 X-Content-Type-Options: nosniff
6 X-Frame-Options: DENY
7 X-Xss-Protection: 1; mode=block
8 Referrer-Policy: strict-origin-when-cross-origin
9 Permissions-Policy: camera=(), microphone=(), geolocation=()
10 Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval'; style-src 'self' 'unsafe-inline'; img-src 'self' data: https:; font-src 'self'
11 Strict-Transport-Security: max-age=2592000
12 X-Robots-Tag: noindex, nofollow
13 Access-Control-Allow-Origin: https://app1.spoky.ai
14 Cf-Cache-Status: DYNAMIC
15 Nel: {"report_to":"cf-nel","success_fraction":0.0,"max_age":604800}
16 Report-To: {"group":"cf-nel","max_age":604800,"endpoints":[{"url":"https://a.nel.cloudflare.com/report/v4?r=ud4do0S5uSp0qt4CB1qrd1FSa0anS4E11fKdwt4CBa4CBAlrwDbbhQUSVd6GhUAAc2C0QJWVWw30x42Bc4hdP2p332pcp51Gu7yDFCmp00yq43D"}]}
17 Cf-Ray: 97f8189f75c4b00b-SIN
18 Alt-Svc: h3=":443"; ma=86400
19
20 {
  "ok": false,
  "error": "Invalid code or reference number."
}
```

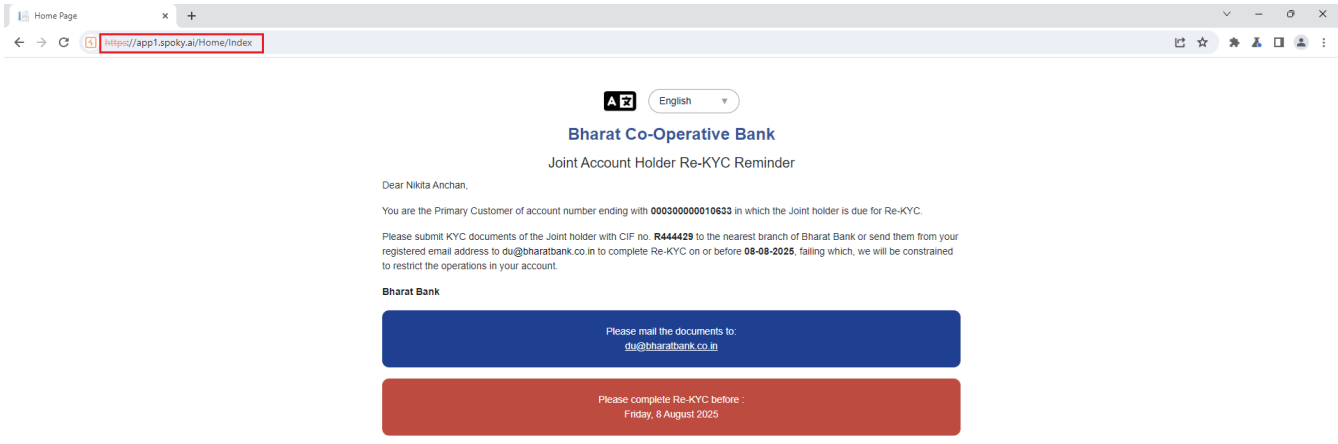
Change the failed response to a successful response.

Response from https://app1.spoky.ai:443/Account/ValidateAjax [172.67.217.182]

Forward Drop Intercept is on Action Open browser

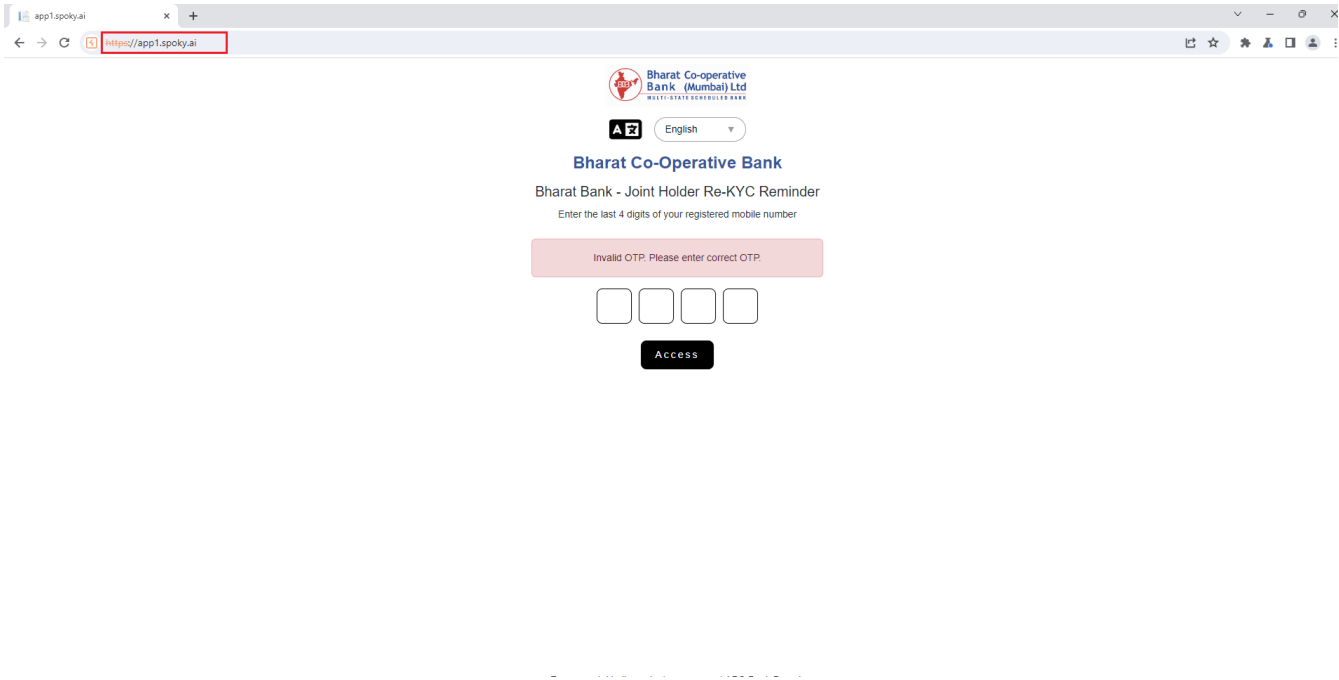
Pretty Raw Hex Render

```
1 HTTP/2 200 OK
2 Date: Mon, 15 Sep 2025 12:23:35 GMT
3 Content-Type: application/json; charset=utf-8
4 Server: cloudflare
5 X-Content-Type-Options: nosniff
6 X-Frame-Options: DENY
7 X-Xss-Protection: 1; mode=block
8 Referrer-Policy: strict-origin-when-cross-origin
9 Permissions-Policy: camera=(), microphone=(), geolocation=()
10 Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-inline' 'unsafe-eval'; style-src 'self' 'unsafe-inline'; img-src 'self' data: https:; font-src 'self'
11 Strict-Transport-Security: max-age=2592000
12 X-Robots-Tag: noindex, nofollow
13 Access-Control-Allow-Origin: https://app1.spoky.ai
14 Cf-Cache-Status: DYNAMIC
15 Nel: {"report_to":"cf-nel","success_fraction":0.0,"max_age":604800}
16 Report-To: {"group":"cf-nel","max_age":604800,"endpoints":[{"url":"https://a.nel.cloudflare.com/report/v4?r=ud4do0S5uSp0qt4CB1qrd1FSa0anS4E11fKdwt4CBa4CBAlrwDbbhQUSVd6GhUAAc2C0QJWVWw30x42Bc4hdP2p332pcp51Gu7yDFCmp00yq43D"}]}
17 Cf-Ray: 97f8189f75c4b00b-SIN
18 Alt-Svc: h3=":443"; ma=86400
19
20 {
  "ok": true,
  "redirectUrl": "/Home/Index"
}
```



Confirmatory 1:





Solution / Remediation

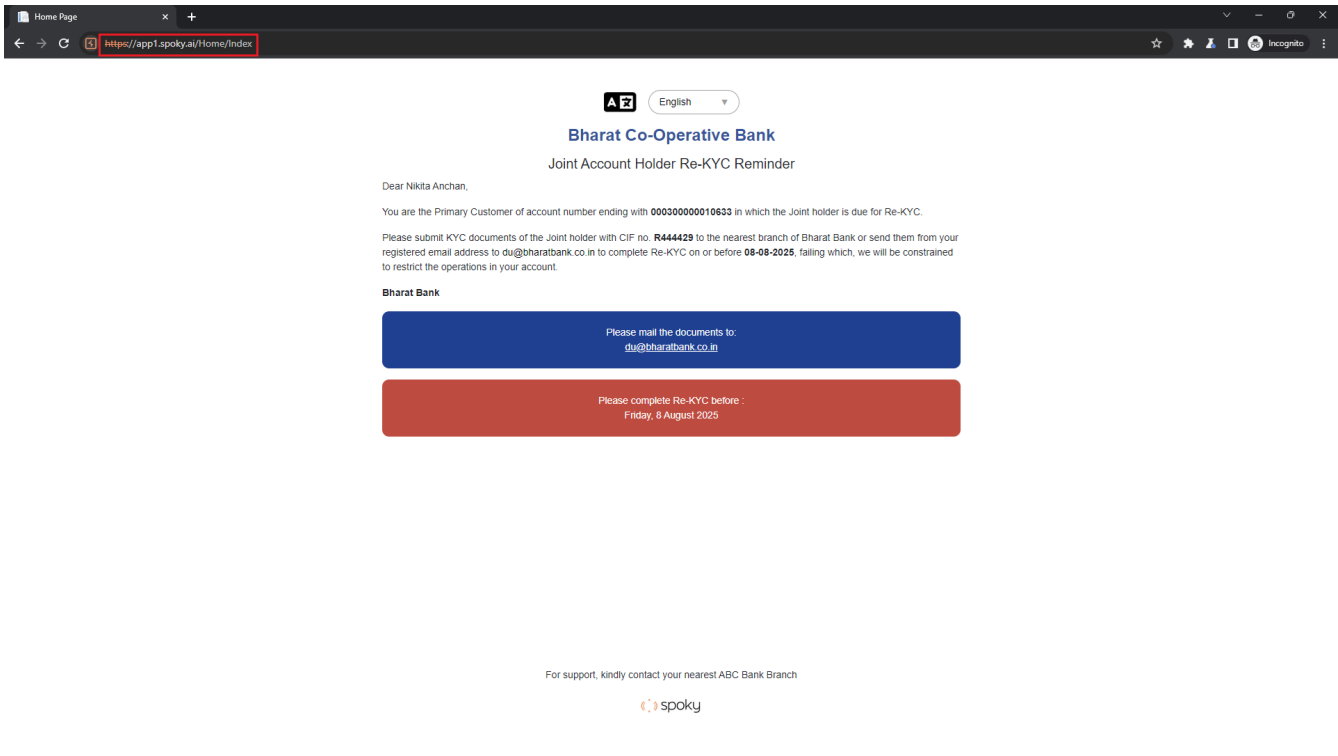
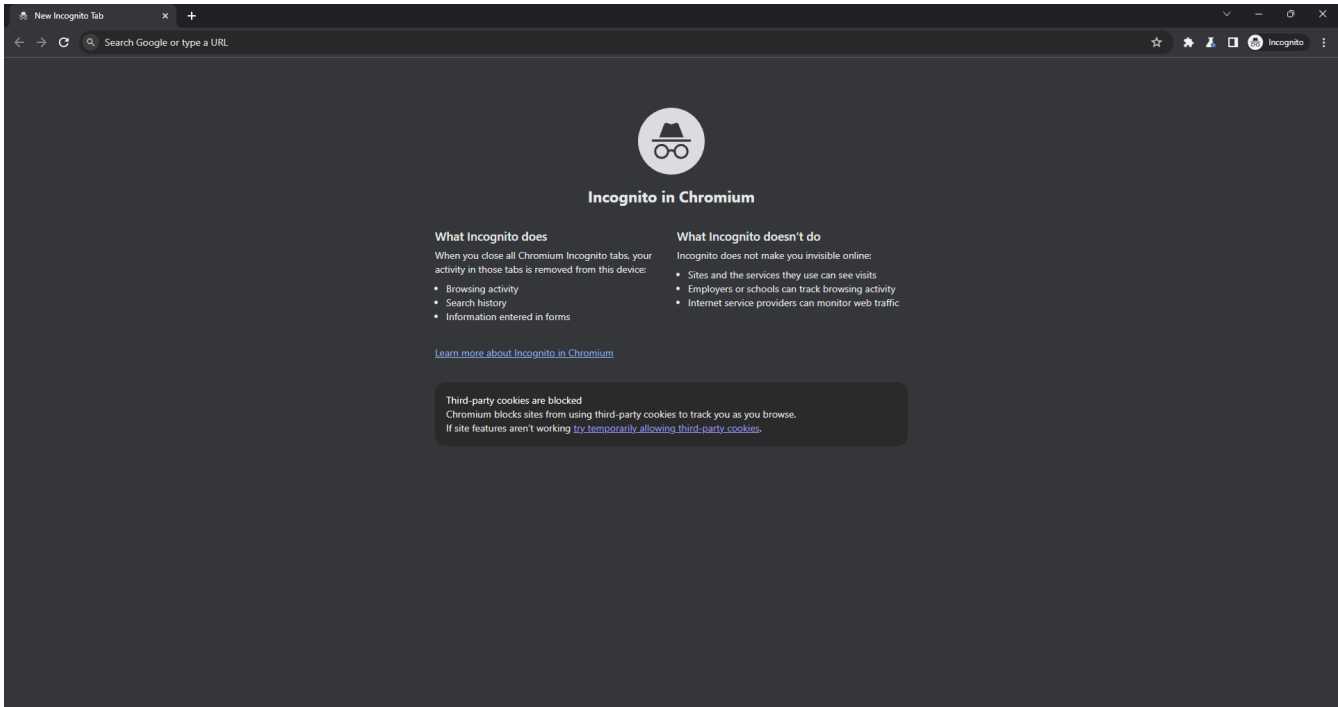
Implement strict server-side validation of OTP values. Ensure OTPs are single-use, time-bound, and cryptographically random. Use rate limiting and account lockout after multiple failed OTP attempts. Avoid sending authentication status in client-controllable responses.

3. Forced Browsing

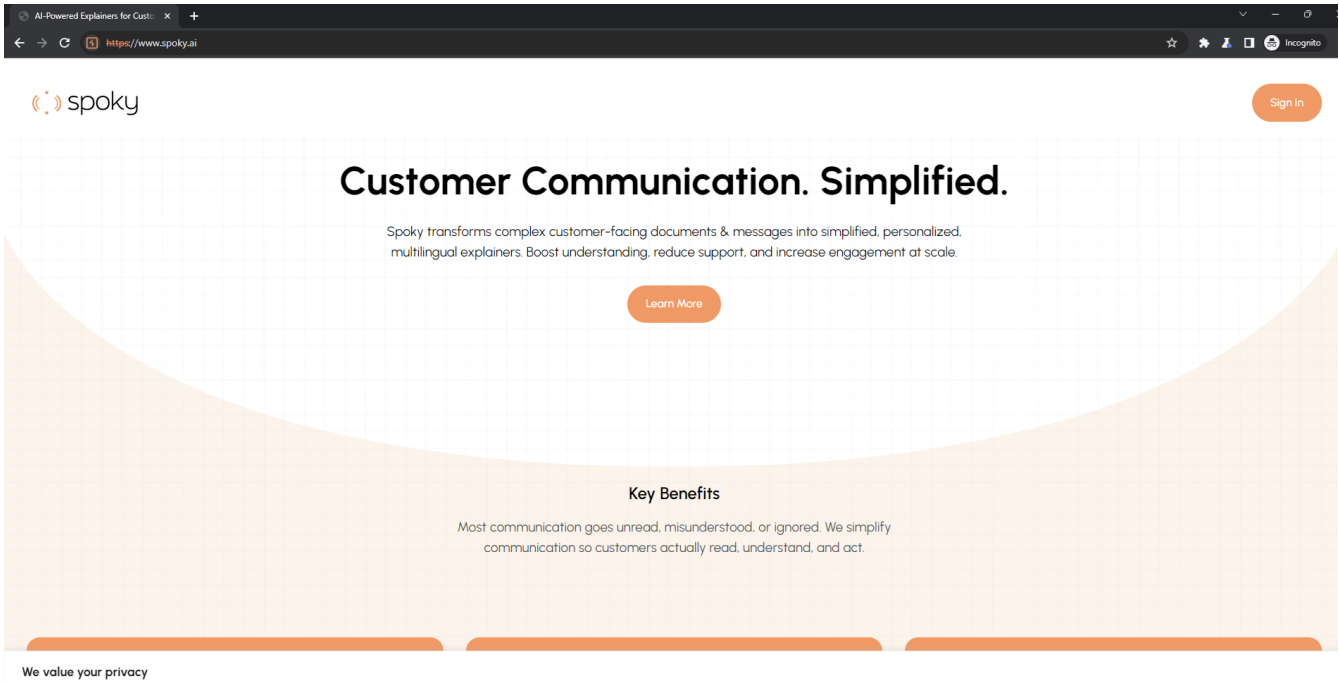
The application allows attackers to directly access restricted resources (URLs, API endpoints, files) by manipulating the URL or path without proper authorization checks. Attackers can gain access to sensitive information or perform unauthorized actions by accessing hidden or unlinked resources. Depending on the application, this could expose PII, financial records, or administrative functions.

Severity	Status	CVSS
MEDIUM	CLOSED	5.8 / 10

Initial:



Confirmatory 1:



Solution / Remediation

Implement deny-by-default security posture for sensitive resources. Avoid relying on client-side “hidden” URLs for security. Conduct periodic authorization testing as part of development and QA.