



## **Fortify Security Report**

12/18/25

Executive Summary

Issues Overview

On 2025. 12. 18., a source code review was performed over the TEST\_01 code base. 2 files, 45 LOC (Executable) were scanned and reviewed for defects that could lead to potential security vulnerabilities. A total of 6 reviewed findings were uncovered during the analysis.

Issues by Fortify Priority Order

Critical	6
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Recommendations and Conclusions

The Issues Category section provides Fortify recommendations for addressing issues at a generic level. The recommendations for specific fixes can be extrapolated from those generic recommendations by the development group.

Project Summary

Code Base Summary

Code location: /Volumes/Moon/1125/vulnscanner/results/2025/12/18/TEST\_01/source/javascript\_extracted/javascript  
Number of Files: 2  
Lines of Code: 45  
Build Label: <No Build Label>

Scan Information

Scan time: 00:30  
SCA Engine version: 25.3.0.0014  
Machine Name: munchanghyeon-ui-MacBookAir  
Username running scan: munchanghyeon

Results Certification

Results Certification Valid

Details:

Results Signature:

SCA Analysis Results has Valid signature

Rules Signature:

There were no custom rules used in this scan

Attack Surface

Attack Surface:

Private Information:  
null.null.null

System Information:  
null.null.resolve

Filter Set Summary

Current Enabled Filter Set:  
Security Auditor View

Filter Set Details:

Folder Filters:

If [fortify priority order] contains critical Then set folder to Critical  
If [fortify priority order] contains high Then set folder to High  
If [fortify priority order] contains medium Then set folder to Medium  
If [fortify priority order] contains low Then set folder to Low

Audit Guide Summary

Audit guide not enabled

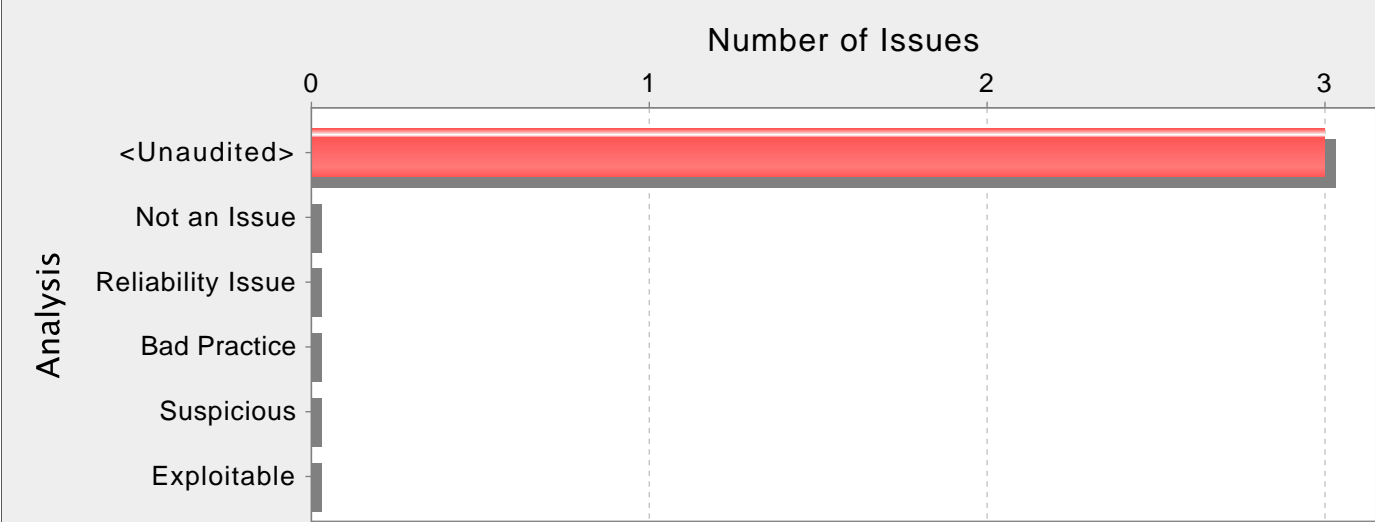
Results Outline

Overall number of results

The scan found 6 issues.

Vulnerability Examples by Category

Category: Cross-Site Scripting: DOM (3 Issues)



Abstract:

module.js changeAnchor() 6 .

Explanation:

XSS(Cross-site scripting) .

- 1. . DOM-based XSS , URL . Reflected XSS , Persisted(Stored ) XSS .
  - 2. . DOM-based XSS , HTML DOM(Document Object Model) .  
JavaScript HTML, Flash . XSS , .
- 1: JavaScript URL ID eid .

```
<SCRIPT>
var pos=document.URL.indexOf("eid=")+4;
document.write(document.URL.substring(pos,document.URL.length));
</SCRIPT>
```

```
2: HTML .

<div id="myDiv">
Employee ID: <input type="text" id="eid"><br>
...
<button>Show results</button>
</div>
<div id="resultsDiv">
...
</div>

jQuery HTML ID .

$(document).ready(function(){
$("#myDiv").on("click", "button", function(){
var eid = $("#eid").val();
$("#resultsDiv").append(eid);
...

```

```
});
});

ID eid ID .eid , HTTP .

3: React DOM-based XSS .

let element = JSON.parse(getUntrustedInput());
ReactDOM.render(<App>
{element}
</App>);

Example 3 getUntrustedInput() JSON React element Cross-Site Scripting dangerouslySetInnerHTML .

. ? URL URL . . Reflected XSS .

, XSS HTTP . XSS .

- HTTP HTTP . XSS . . URL . URL URL . , .

- . Persistent XSS . . . .

- .

Recommendations:
XSS .

XSS . () . XSS .

SQL injection . XSS . XSS . . , XSS .

XSS HTTP . , 0-9 . . HTML .

. . HTML HTML . XSS . SEI(Software Engineering Institute) CERT(R) Coordination
Center [1].

Block-level element ( ):

- "<"
- "&" .
- ">" "<" .
.
- .
- .
- .
- "&" .
, URL . URL .
- , URL .
- "&" CGI .
- ASCII (, ISO-8859-1 127 ) URL .
- "% " HTTP . , "% " "%68%65%6C%6C%6F" "hello" .

<SCRIPT> </SCRIPT> :

- , , .
:
- (!) (") .
:
- UTF-7 " "<" '+ADw-' . ( , UTF-7) .

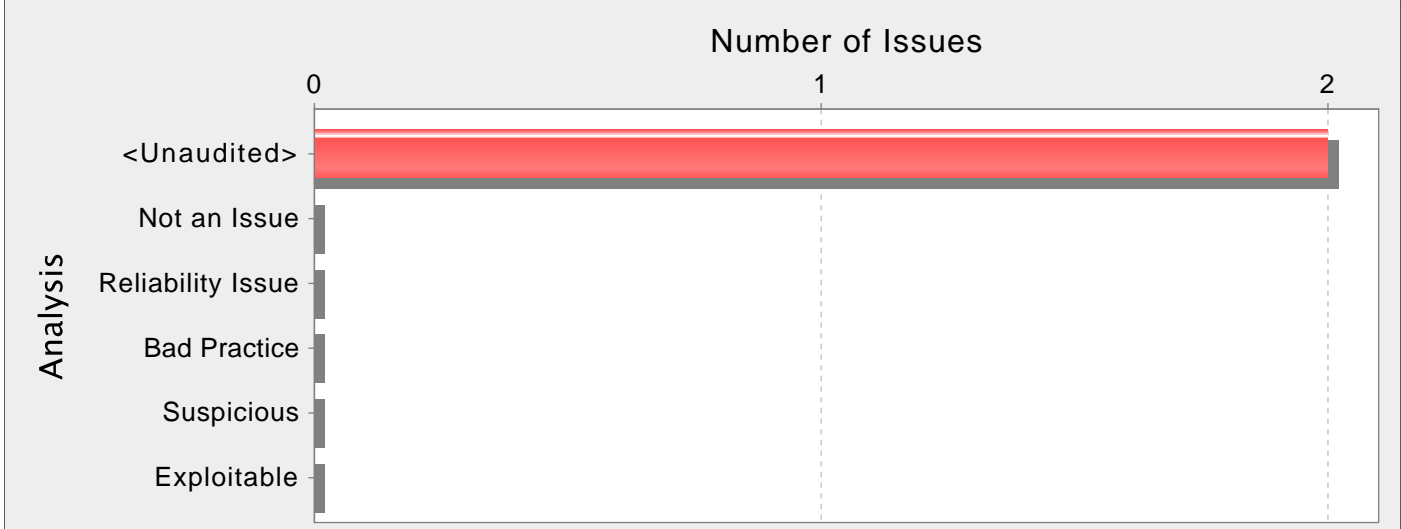
XSS . , . . .
, . ISO 8859-1 HTML [2].
```

- Cross-Site Scripting   HTTP   Cross-Site Scripting   .   .   .   .
- Tips:**
1.   Fortify Secure Coding Rulepacks SQL Injection   ,   XSS   .   ,   DATABASE   .   .
2.   URL   XSS   ,   JavaScript   DOM(Document Object Model)   .   Rulepacks   Cross-Site Scripting   URL   . URL  
Fortify Cross-Site Scripting: Poor Validation   .
3. React   cross-site scripting   . Symbols   React   . Symbol (   polyfills   )   . Cross-Site Scripting   React   .

module.js, line 6 (Cross-Site Scripting: DOM)

Fortify Priority:	Critical	Folder	Critical
Kingdom:	Input Validation and Representation		
Abstract:	module.js changeAnchor() 6 .		
Source:	module.js:6 Read document.cookie()		
	<div>4</div> <div>5       export function changeAnchor() {</div> <div>6           document.write(document.cookie);</div> <div>7           document.getElementById('myAnchor').href=document.cookie;</div> <div>8       }</div>		
Sink:	module.js:6 write()		
	<div>4</div> <div>5       export function changeAnchor() {</div> <div>6           document.write(document.cookie);</div> <div>7           document.getElementById('myAnchor').href=document.cookie;</div> <div>8       }</div>		

Category: Privacy Violation (2 Issues)



Abstract:

module.js 6 . . .

Explanation:

Privacy violation .

- 1. .
- 2. , file system .

1: .

localStorage.setItem('password', password);

. .  
.

-  
-  
-

. , ID . ID ID .

. . .  
. , . , 2004, AOL 9 2 [1].

- . , .
- (Safe Harbor Privacy Framework)[3]
- GLBA(Gramm-Leach Bliley Act)[4]
- HIPAA(Health Insurance Portability and Accountability Act)[5]
- California SB-1386 [6]

privacy violation .

Recommendations:

, . (cleanse).  
. . , . .  
. , .

Tips:

- 1. Privacy Violation . . privacy violation .

module.js, line 6 (Privacy Violation)

Fortify Priority:	Critical	Folder	Critical
Kingdom:	Security Features		



Abstract:	module.js 6 . . .
Source:	module.js:6 Read document.cookie()
	4
	5 export function changeAnchor() {
	6 document.write(document.cookie);
	7 document.getElementById('myAnchor').href=document.cookie;
	8 }
Sink:	module.js:6 write()
	4
	5 export function changeAnchor() {
	6 document.write(document.cookie);
	7 document.getElementById('myAnchor').href=document.cookie;
	8 }

Category: Open Redirect (1 Issues)

Number of Issues



Abstract:

module.js 7 HTTP . URL .

Explanation:

. , . URL open redirection .

Open Redirection URL . URL URL URL . open redirection .

1: JavaScript dest URL .

...  
strDest = form.dest.value;  
window.open(strDest,"myresults");  
...  
"http://trusted.example.com/ecommerce/redirect.asp?dest=www.wilyhacker.com" , . Example 1  
"http://www.wilyhacker.com" .

URL . URL  
"http://trusted.example.com/ecommerce/redirect.asp?dest=%77%69%6C%79%68%61%63%6B%65%72%2E%63%6F%6D"  
.

Recommendations:

URL . , URL . URL .

2: URL . URL .

...  
strDest = form.dest.value;  
if((strDest.value != null)||(strDest.value.length!=0))  
{  
if((strDest >= 0) && (strDest <= strURLArray.length -1 ))  
{  
strFinalURL = strURLArray[strDest];  
window.open(strFinalURL,"myresults");  
}  
}  
...  
, URL . , .

module.js, line 7 (Open Redirect)

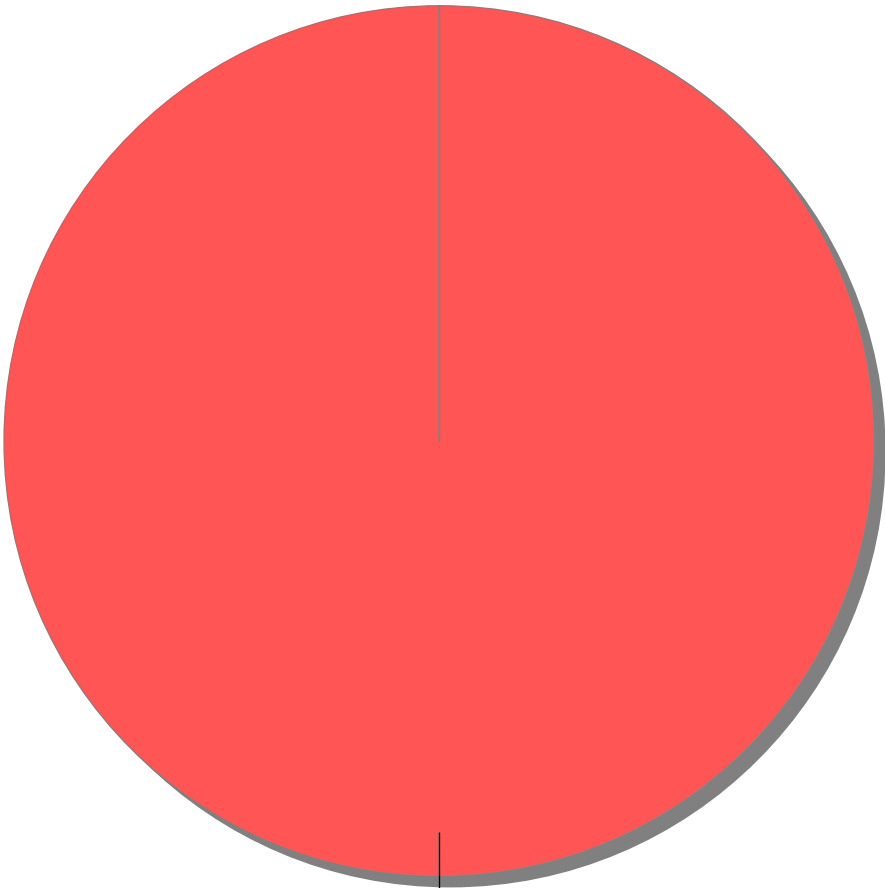
Fortify Priority:	Critical	Folder	Critical
Kingdom:	Input Validation and Representation		

Abstract:	module.js 7 HTTP . URL .
Source:	module.js:7 Read document.cookie()
5	export function changeAnchor() {
6	document.write(document.cookie);
7	document.getElementById('myAnchor').href=document.cookie;
8	}
9	
Sink:	module.js:7 Assignment to href()
5	export function changeAnchor() {
6	document.write(document.cookie);
7	document.getElementById('myAnchor').href=document.cookie;
8	}
9	

Issue Count by Category	
Issues by Category	
Cross-Site Scripting: DOM	3
Privacy Violation	2
Open Redirect	1

Issue Breakdown by Analysis

Issues by Analysis



<none>: (6,  
100%)

● <none>