

opentext™

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

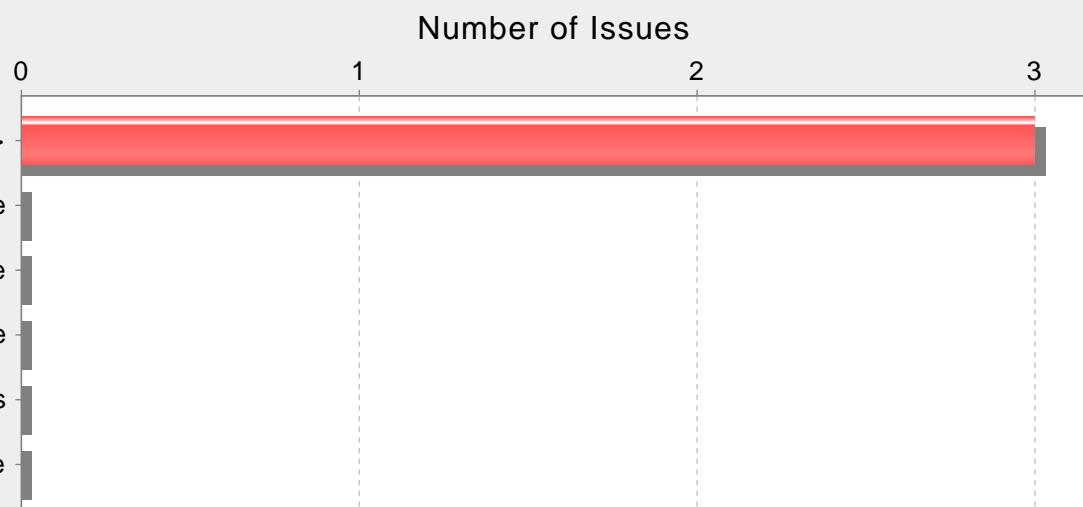
Overall number of results

The scan found 6 issues.

Vulnerability Examples by Category

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

Analysis



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

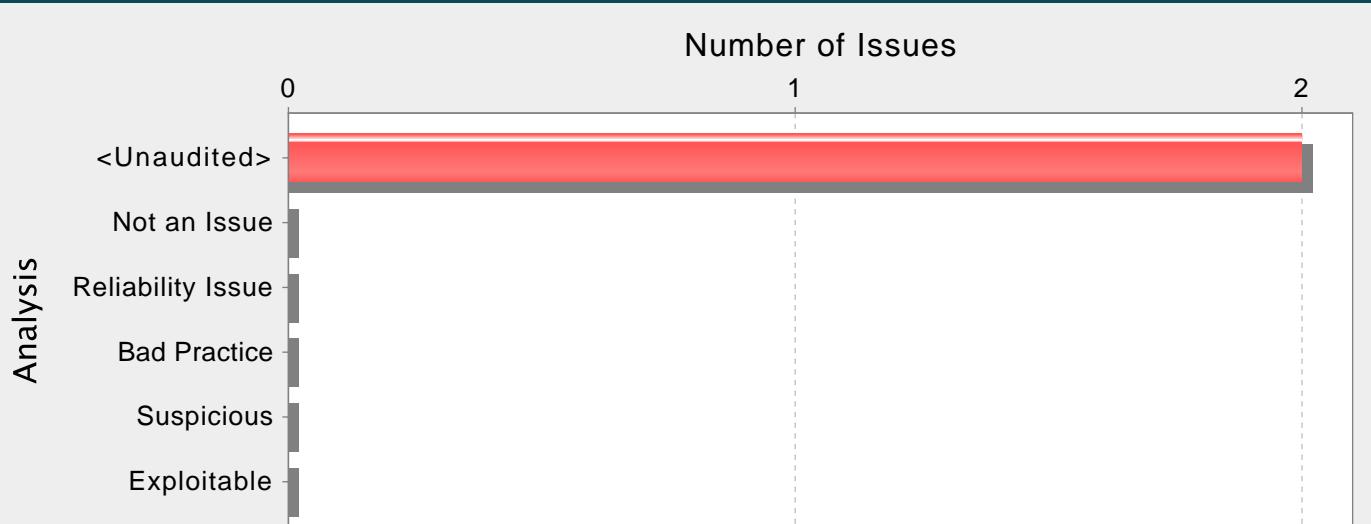
Kingdom: Input Validation and Representation

Abstract: module.js changeAnchor() 6 . . .

Source: module.js:6 Read document.cookie()

```
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: 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

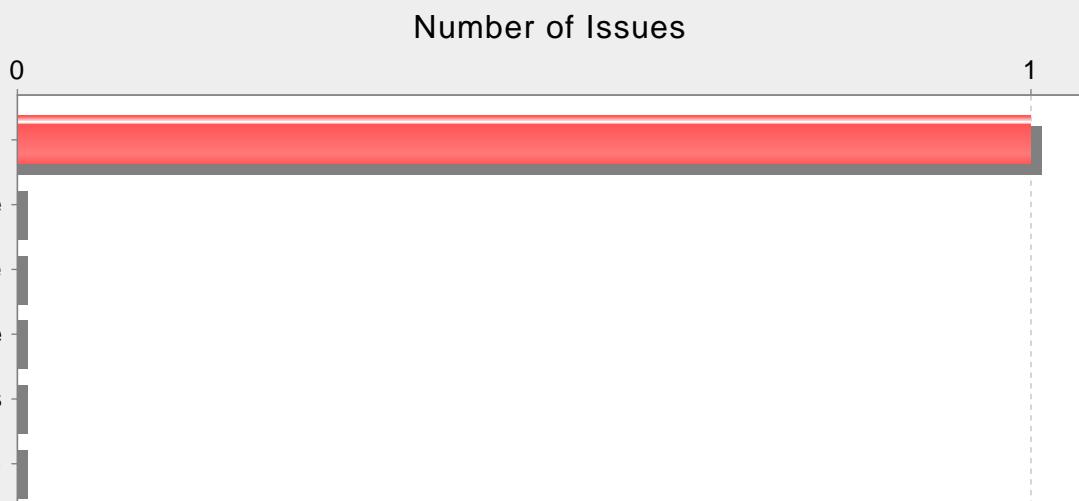
Critical

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)

Analysis

**Abstract:**

```
module.js 7 HTTP . URL .
```

Explanation:

. , . URL open redirection .

Open Redirection URL . 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

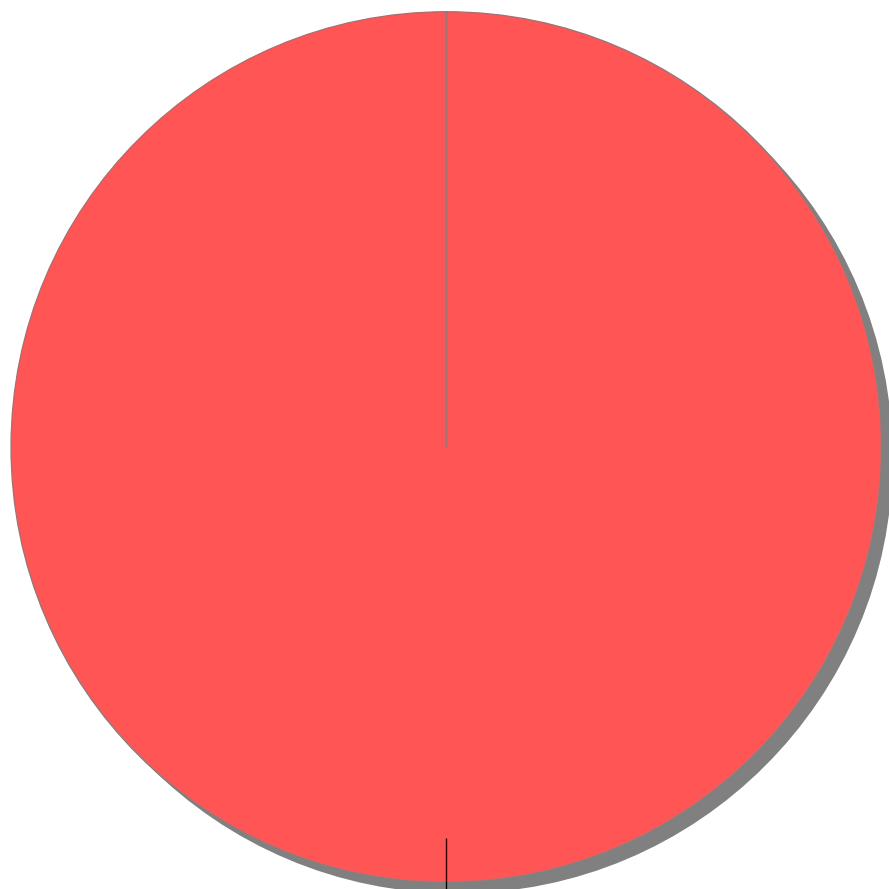
Abstract:	module.js 7 HTTP . URL .
Source:	module.js:7 Read document.cookie() 5 export function changeAnchor() { 6 document.write(document.cookie); 7 document.getElementById('myAnchor').href=document.cookie; 8 } 9
Sink:	module.js:7 Assignment to href() 5 export function changeAnchor() { 6 document.write(document.cookie);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