XSS (Cross-Site-Script)

Cross-Site-Script is a potentially fatal attack in which a function not considered by the developer works by inserting script code such as JavaScript into a bulletin board or webmail. Thus, it is an attack targeting users.

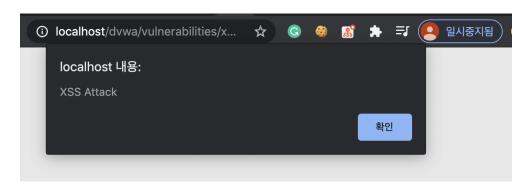
Example, if an attacker appends a malware on a script code, it conducts unintended action, or intercepts an important information of cookie and session token etc.

low.php

Vulnerability: Reflected Cross Site Scripting (XSS)

```
What's your name? <script>alert("XSS Attack Submit Hello
```

<script>alert("XSS Attack");</script>



Before Encoding

http://localhost/dvwa/vulnerabilities/xss_r/?name=<script>alert("XSS Attack");</script>

After Encoding

http://localhost/dvwa/vulnerabilities/xss_r/?name=%3Cscript%3Ealert%28%22XSS+Attack %22%29%3B%3C%2Fscript%3E#

If the attacker inserts the script code in image and photo or send the address of script code to user, After the URL is encoded, it usefully can use.

<Medium>

Vulnerability: Reflected Cross Site Scripting (XSS)

What's your name?	Submit
<pre>Hello alert("XSS Attack");</pre>	

<script>alert("XSS Attack");</script>

medium.php

<script> tag is ignored by str_replace(), we can know that script tag insertion is a impossible. If script tag is filtered by inner code, Use an img tag.

| localhost 내용:
XSS Attack | |
|-----------------------------|---------------|
| | হাpting (XSS) |
| What's your name? S | submit |

Before Encoding

http://localhost/dvwa/vulnerabilities/xss_r/?name=

After Encoding

http://localhost/dvwa/vulnerabilities/xss_r/?name=%3Cimg+src%3D%22%23%22+onerror%3D%22alert%28%27XSS+Attack%27%29%22%3E#

<High>

high.php

This code also includes about script code. Thus, if the attacker use img tag, XSS attack is possible.

Therefore, high.php have the same situation with medium.php.

<Security>

This code is safe. (XSS Attack is impossible.)