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OWASP TOP 10: #3 Cross-Site Scripting (XSS)

By @isaacsabas



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**We are a
Security-as-a-Service
company**

Providing businesses with on-demand IT
security controls for them to meet their
24x7 security strategies & requirements.

We Make IT Secure



OWASP

Open Web Application
Security Project



OWASP #3

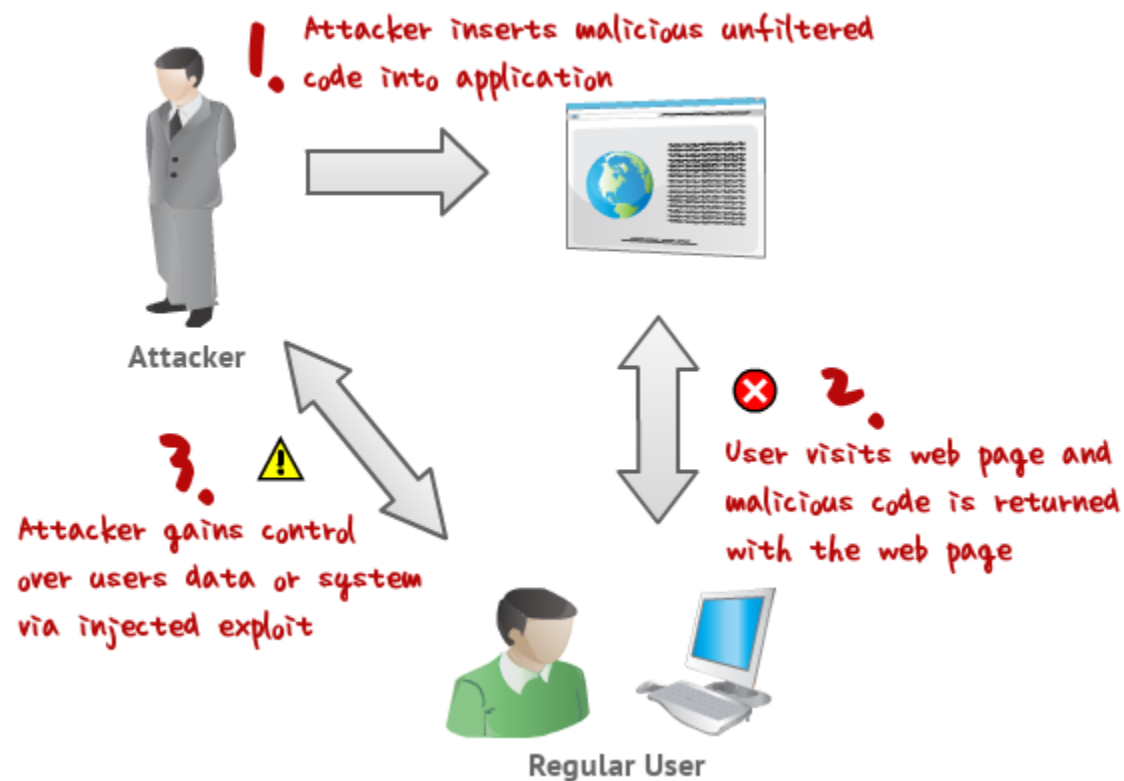
Cross-Site Scripting (XSS)

OWASP Top 10 Vulnerabilities



What is XSS?

Where it all began.



How does XSS work?

How does one exploit a XSS vulnerability?

Type of XSS Attacks

1. Reflected XSS
2. Stored XSS
3. DOM-based XSS

What are the risks with XSS?

1. Compromise of victim's user account
2. Exfiltration of data from target web application
3. Defacement
4. Redirection to malicious site or phishing site
5. Malware download

How to prevent the XSS flaws?

1. Use well supported framework
2. Output encoding
3. Use *HttpOnly* attribute for cookies
4. Input validation

Go to <http://www.securesavingsbank.com>

EXPLOIT DEMO

How simple it is to test for a XSS vulnerability.

Demo

1. Use the main search box to validate basic XSS flaws
2. Use vulnerability to construct a link that will redirect the user to a “malicious” site.
3. Steal victim’s cookies using XSS.

TIME FOR Q&A

OWASP Top 10 – Cross-Site Scripting

Go download **WebGoat**

<https://github.com/WebGoat/WebGoat-Legacy>

TRY IT YOURSELF

Some homework for you to learn a bit more.

WebGoat Installation How-To

1. Download Java VM, JDK 1.7
2. Download WebGoat: <https://webgoat.atlassian.net/builds/browse/WEB-WGM/latestSuccessful/artifact/shared/WebGoat-Embedded-Tomcat/WebGoat-6.0.1-war-exec.jar>
3. Run the .jar file:
 1. `java -jar WebGoat-6.0-exec-war.jar`
4. Then navigate in your browser to: (<http://localhost:8080/WebGoat>)
5. Login using guest account
6. Go to Cross-Site Scripting Menu
 1. Answer Stages 1,3 and 5.

OWASP #3

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