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Version WebApp-1.02-EN (Classic)

OWASP Snakes and Ladders - Web Applications -

Snakes and Ladders is an educational application security awareness game. This version is all about web applications, with the OWASP Top Ten Proactive Controls as ladders, and the well-known OWASP Top Ten Most Critical Risks as snakes. Thank you to the leaders and other contributors of those two projects.

OWASP Top Ten Proactive Web Application Controls (2014)

The OWASP Top Ten Proactive Controls is a list of security techniques that should be included in every software development project.

- C1 Parameterize Queries
- C2 Encode Data
- C3 Validate All Inputs
- C4 Implement Appropriate Access Controls
- C5 Establish Identity and Authentication Controls
- C6 Protect Data and Privacy
- C7 Implement Logging, Error Handling and Intrusion Detection
- C8 Leverage Security Features of Frameworks and Security Libraries
- C9 Include Security-Specific Requirements
- C10 Design and Architect Security In

https://www.owasp.org/index.php/OWASP_Proactive_Controls

OWASP Top Ten Most Critical Web Application Risks (2013)

The OWASP Top Ten represents a broad consensus about what the most critical web application security flaws are.

- A1 Injection
- A2 Broken Authentication and Session Management
- A3 Cross-Site Scripting (XSS)
- A4 Insecure Direct Object References
- A5 Security Misconfiguration
- A6 Sensitive Data Exposure
- A7 Missing Function Level Access Control
- A8 Cross-Site Request Forgery (CSRF)
- A9 Using Components with Known Vulnerabilities
- A10 Unvalidated Redirects and Forwards

<https://www.owasp.org/index.php/TopTen>

The source file for this sheet, sheets on other application security topics, various language versions, and further information about the OWASP Snakes and Ladders project can be found on the OWASP website at https://www.owasp.org/index.php/OWASP_Snakes_and_Ladders

Background

Snakes and Ladders is a popular board game, imported into Great Britain by the Victorians based on a game from Asia. The original game showed the effects of good and evil, or virtues and vices. The game is known as Chutes and Ladders in some parts of the Americas. In this OWASP version, the virtuous behaviours are secure coding practices (the proactive controls) and the vices are application security risks.

Warning

OWASP Snakes and Ladders is meant to be used by software programmers, big and small. This paper game sheet is not harmful, but if you choose to use your own plastic or wooden die and counters, those might have a choking risk for children under 4 years old.

No die or counters? Cut the shapes out below use the coloured circles as counters for each player. Alternatively write a computer program to simulate a six-sided die, or use a random number generator app on your phone or computer to create integers between 1 and 6. Check how random it is though!

To make a die after carefully cutting it out from this sheet, fold along the dotted lines, put glue on the tabs, and then fold it up carefully into a cube.

There should be seven counters, but a greedy snake has eaten one. Can you spot it?

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Finish (100)

Start (1)

OWASP-A1 Injection

OWASP-A2 Broken Authentication and Session Management

OWASP-A3 Cross-Site Scripting (XSS)

OWASP-A4 Insecure Direct Object References

OWASP-A5 Security Misconfiguration

OWASP-A6 Sensitive Data Exposure

OWASP-A7 Missing Function Level Access Control

OWASP-A8 Cross-Site Request Forgery (CSRF)

OWASP-A9 Using Components with Known Vulnerabilities

OWASP-A10 Unvalidated Redirects and Forwards

OWASP-C1 Parameterize Queries

OWASP-C2 Encode Data

OWASP-C3 Validate All Inputs

OWASP-C4 Implement Appropriate Access Controls

OWASP-C5 Establish Identity and Authentication Controls

OWASP-C6 Protect Data and Privacy

OWASP-C7 Implement Logging, Error Handling and Intrusion Detection

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