

Design and implementation of a simple Web Application Firewall (WAF) system against SQLi/XSS

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Abstract: In the context of increasingly frequent cyber attacks targeting web applications, this topic focuses on designing and deploying a simple Web Application Firewall (WAF) system to prevent common types of attacks such as SQL Injection (SQLi) and Cross-Site Scripting (XSS). The main objective of the project is to provide organizations with an effective security solution that is easy to deploy. The research method combines cybersecurity theory with experimentation to build and evaluate the system. The expected results of this topic not only confirm the practical applicability of WAF but also contribute to general knowledge about web security.

Keywords: Web Application Firewall, SQL Injection, Cross-Site Scripting, Web Security, Security Experiment