ABSTRACT

Muhammad Arsalan Diponegoro. 13117895

"Intai" Detection SQL Injection and XSS Cross site-scripting Attack Tool

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(XIV+88+Attachment)

In 2020 there is a lot of data breaches. The breach caused by some kind of vulnerability exists on the internal website. the vulnerability exists from the development process cause the bug can be exploited by the threat actor. some of them are dangerous for example SQL injection which can be used to steal the database record and XSS Cross site-scripting can be used to steal cookie or any sensitive user data without they realized. this is potential breaches user sensitive data. Because of that situation, the system should be has a tool to defend the system from the attack that has a lot of damage at this point. Intai exist to do real-time detection and have functional to notify user real-time when the incident happened. This study aims to detect payload SQL injection and cross-site scripting on the Nginx web server log in real time using a neural network. The research phase uses the SDLC (Software Development Life Cycle) method which consists of requirements analysis, design, and implementation stages. The SQL Injection and XSS Cross Site-scripting Attack Detection Tool is named "INTAI". The functionality of the tool is that it can detect SQL Injection and XSS Cross site-scripting attacks. The results of the measurement of accuracy, recall precision are Accuracy : 0.9750297265160524, Precision : 0.9288389513108615, and Recall : 0.992. This tool has been tested using black box testing with the result that it can detect XSS Cross-site-scriptin and SQL Injection attacks. The tool has successfully detected SQLI and XSS payloads.

Daftar Pustaka (2019 - 2021)