ABSTRACT

APPLICATION OF API IN OSINT TOOL FOR DETECTING WEB-BASED PHISHING URL

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Abstract

Phishing is a cybercrime technique that utilizes social engineering to steal sensitive data, such as login credentials or financial information. This attack often targets the financial sector, e-commerce, and social media, potentially causing significant losses both financially and in terms of reputation. The main issue is the difficulty in detecting phishing URLs, which are often convincingly disguised. This research offers a solution in the form of a web-based Open Source Intelligence (OSINT) tool built using the Laravel framework and PHP programming language. The tool integrates VirusTotal, WhoisXML, and ip-api APIs to automatically verify the security of URLs and provide relevant additional information. The system development method employs a waterfall approach, starting from requirements analysis to system testing. The output of this research is a web-based OSINT tool capable of detecting phishing URLs, providing detailed analysis reports, and offering information to users through educational content about domains, phishing and interactive quizzes. Testing results indicate that this tool can accurately detect phishing URLs and provide important insights to users, thereby enhancing awareness of cyber threats.

Keywords : *Phishing, Open Source Intelligence, Application Programming Interface, Phishing URL Detection Website, Laravel Framework*