

Article

Intelligent Platform for Automating Vulnerability Detection in Web Applications

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Abstract: In a world increasingly dependent on technology and in an era where connectivity is omnipresent, Web applications have become an essential part of our everyday life. The evolution of these applications, combined with the exponential increase in the number of users, has brought with it not only convenience but also significant challenges in terms of security. Ensuring the security of Web applications and their data is increasingly a priority for companies, although many companies lack the know-how, time, and money to do so. This research project studied and developed a system with the aim of automating the process of detecting vulnerabilities in Web applications by exploiting the benefits of the interoperability of the two forms of automation of the tool selected to carry out this analysis. The developed solution is low-cost and requires very little user intervention. In order to validate and evaluate the developed platform, experiments were carried out on applications with different types of vulnerabilities known in advance and on real applications. It is essential to guarantee the security of Web applications, and the developed system proved capable of automating the detection of vulnerability risks and returning the results in a relatively simple way for the user.

Keywords: Web application; vulnerability; security; scanner; automation; detection



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1. Introduction

The dependence on technology in an increasingly interconnected global landscape has fundamentally transformed daily life, particularly with the exponential rise in Internet use, now encompassing around 4.7 billion users worldwide [1]. Concurrently, Web applications have proliferated, reaching approximately 1.8 billion globally [1]. This rapid growth has been accompanied by a transformation of Web applications [2], evolving from simple static pages into sophisticated, dynamic information systems. Initially, such applications were built using elementary models and languages that posed relatively low security risks, simplifying protection and analysis efforts [3]. However, contemporary applications have become highly interactive and user-centric, accessible across multiple devices and browsers, thereby allowing numerous domains of applications, including banking, healthcare, commerce, and education [1].

This diversity, coupled with our dependence on these systems, has introduced significant security concerns, complicating update management and defense against newly emerging threats [3]. According to a study by Statista [4], 30% of cybersecurity incidents reported by organizations occurred due to hacking, 16% due to misuse, 13% due to malware, and the remainder divided between other actions (social and errors).

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