ABSTRACT

DEVELOPMENT OF WEB SECURITY VULNERABILITY SCANNER WEB APPLICATION FOR RAISING WEB SECURITY VULNERABILITY AWARENESS USING NUCLEI

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In the midst of the rapidly developing digital era, it is very easy to create a website, from simple ones such as making a company profile to creating complex website-based applications. Because this convenience is achieved because of the presence of many tools/frameworks/libraries that make us not have to bother making everything from scratch, for example the presence of Bootstrap, a CSS framework, makes it easy to create a beautiful website display with its user interface components, WordPress is a CMS (Content Management System) which makes it easy to build company profiles to e-commerce without coding at all, and don't forget to mention ReactJS, a Javascript library that makes it easy for us to build complex web-based applications. But in the midst of all that convenience, many of us only focus on website development work only on appearance and "the important thing is the way" so that we forget the aspect that is also no less important, namely security on the website. If this aspect is ignored, it can have a negative impact, namely hacking a website, especially data resulting from website security that is vulnerable from various loopholes, for example, still using the HTTP protocol where the data on this protocol is not encrypted. Therefore, the authors want to increase awareness of the importance of security in building websites by designing a website-based application which has a main feature, namely scanning for security vulnerabilities of a website and providing an output in the form of a report of a list of website security vulnerabilities that must be repaired from various levels of problems. This can be achieved by using a CLI tool called Nuclei, which is a web security scanning tool commonly used by Security Engineers to make it easier to detect vulnerabilities in a website.

Keywords: Web Vulnerability, Web Security, Nuclei, Web Scanning

Libraries   :

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