ABSTRACT

The development of the web from year to year has developed very rapidly and has provided many benefits in progress in various industries or government agencies. The use of the web is used to help complete work or problems that exist within an organization, therefore almost every company or government agency has its own web to support its business processes. One of them is the district government of ZRC which makes an integrated web service for the people of the sub-district area. The examiner analyzes the web security of the ZRC sub-district government because if there is a vulnerability it can cause harm to the wider community and hinder the process of government services. With these problems, it is necessary to analyze the security of ZRC web-based applications using OWASP ZAP and VOOKI tools. Analysis of security vulnerabilities on websites by looking for website vulnerabilities to find out whether security vulnerabilities are found on the website. The security vulnerabilities found can be used as a benchmark for making a proposal. In this study, the examiners used the black box testing method due to the condition of the examiners outside the system who did not know the structure or internal information of the web. The standard used by the testers to test web security was NIST because the steps they had were simple and short.

*Keywords: **Vulnerability, Pentetration Testing,** OWASP ZAP, VOOKI, Black Box Testing.*