

ABSTRACT

In the field of information technology, the Internet is one of the most important and useful things today. The internet has had an incredible impact on everyday life, such as how people communicate, work, obtain information, and engage in social media. The significant changes brought about by the internet have provided tremendous advantages to daily life. Regarding obtaining information, the internet allows people to easily access information, one of which is through websites. Currently, websites are used for various activities, including at XYZ Faculty. The website is used to assist students in handling all administrative requirements needed for the assistant recruitment process (IRIS). In previous research, a vulnerability assessment was conducted to identify vulnerabilities in the website, but no mitigation has been carried out for the identified vulnerabilities. Therefore, security mitigation is necessary to reduce the risks associated with these vulnerabilities. The method used in this process is Vulnerability Assessment and Penetration Testing (VAPT), using several tools such as OWASP ZAP, Acunetix, and NetSparker. From the vulnerability analysis testing on the practical assistant recruitment website using OWASP ZAP, six types of vulnerabilities were discovered. Acunetix identified ten types of vulnerabilities, while NetSparker identified seven types of vulnerabilities. The vulnerabilities found by these three tools will be further processed in the exploitation and mitigation stage. The results after mitigation show that five out of eight vulnerabilities were successfully mitigated.

Keywords: Vulnerability, VAPT, Mitigation, OWASP ZAP, Acunetix, NetSparker.