

ABSTRACT

The world of technology is rapidly evolving, and it's now easier than ever to access information through various means like mobile apps and websites. This convenience has had a significant impact on different sectors, including industries, governments, and educational institutions like XYZ Faculty. The faculty uses a website to manage student activities for Internship and Community Service programs (KPPM), providing important information for learning and teaching. In previous research, vulnerabilities on the website were identified through a vulnerability assessment, but no actions were taken to address these vulnerabilities. To mitigate the risks associated with these vulnerabilities, it is necessary to implement security measures. The chosen method for this process is Vulnerability Assessment and Penetration Testing (VAPT) using gray box testing techniques, along with tools like Burp Suite, Acunetix, and Nessus. During the testing of the KPPM website, several vulnerabilities were found. Among them, there was one high-level vulnerability, four medium-level vulnerabilities, and four low-level vulnerabilities. These vulnerabilities were thoroughly analyzed, and steps were taken to fix them. As a result, five out of the nine vulnerabilities were successfully mitigated, improving the overall security of the website compared to before.

Keyword: vulnerability, VAPT, website, mitigation