

ANALISIS CELAH KEAMANAN SISTEM INFORMASI RSIA PUTRI SURABAYA MENGUNAKAN OPEN WEB APPLICATION SECURITY PROJECT (OWASP)

Mahendra Rangga Abimanyu¹, Kharisma Monika Dian Pertiwi², Mustafa Kamal³

^{1,2,3}Fakultas Informatika, Universitas Telkom, Bandung

¹mahennnn@students.telkomuniversity.ac.id, ²kharismamonika@telkomuniversity.ac.id,

³mustafakamal@telkomuniversity.ac.id

Abstract

The increase in internet users goes hand in hand with the increase in cybercrime, such as information leaks, which is a serious threat. Data and information security is currently a top priority to maintain integrity and confidentiality. RSIA Putri Hospital in Surabaya has an information system that is rich in patient information, including very sensitive medical record data. Even so, RSIA Putri Hospital has never tested the security of its information system. Therefore, this research uses the OWASP Top 10 2021 method and tools such as SQLMap, Nmap, ZAP, Burp Suite, Wappalyzer, Wireshark, and tools available on the Kali Linux operating system to identify security gaps. This research found three main vulnerabilities, namely A02. Cryptographic Failures, A04. Insecure Design, and A06. Vulnerable and Outdated Components. Based on the results of these findings, the researcher recommended improvements through a validation letter of research results submitted to the RSIA Putri Hospital IT team unit, which was signed by the researcher and the Head of the Putri Hospital IT unit.

Keywords: *Security, OWASP, Hospital, Information System.*
