## ABSTRACT

The Digitalization era has made websites an essential tool for companies to promote themselves to the public, including the Communication and Informatics Office of M Regency, which has developed the Media Cooperation Information System (XYZ). XYZ is an innovation by the Communication and Informatics Office of M Regency to facilitate media cooperation between the M Regency Government and its media partners in a transparent, effective, and efficient manner.XYZ provides features such as registration, login, account verification, and contract uploading while integrating with the M Kominfo database. The XYZ database manages sensitive data, including numbers, images, and documents from media partners, making security a critical concern. Unfortunately, an interview with Mr. Diding Adi, Head of the Information Technology Division of M Kominfo, revealed that no routine security checks have ever been conducted on the XYZ website. This increases the risk of data breaches by unauthorized parties. Therefore, security testing is necessary using penetration testing methods based on the ISSAF (Information Systems Security Assessment Framework). This framework consists of nine stages, from information gathering to covering tracks, to identify vulnerabilities and improve website security. The results of these stages show relatively good performance; however, some critical points require attention. The XYZ website stores essential media partner data but, according to Kominfo staff, has never undergone a security assessment. Additionally, the website has security vulnerabilities, such as easily accessible information and open ports. However, SSL/TLS can help prevent attacks. Security priorities were identified in the high and medium categories. Thus, the researchers provide recommendations for improvements to enhance public trust in Kominfo services by minimizing the risk of data breaches and strengthening information system protection in the government sector. As a result, sensitive data can be optimally protected, and the security of the XYZ website can be better ensured.

## Keywords: Website, Penetration Testing, ISSAF, Security