

DESIGN OF A WOVEN FABRIC MSME WEBSITE WITH THE IMPLEMENTATION OF CLOUDFLARE SECURITY AGAINST CROSS-SITE SCRIPTING (XSS) ATTACKS

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ABSTRACT

Encourages Micro, Small, and Medium Enterprises to use websites as a medium for promoting and marketing their products. However, website usage is exposed to the risk of Cross-Site Scripting attacks, which can potentially damage data and undermine user trust. This study aims to design and develop a website for a woven fabric MSME by implementing security measures using Cloudflare to protect the system from XSS attacks. The system development method applied in this study is the Waterfall model, which consists of requirement analysis, system design, implementation, and testing stages. Cloudflare is utilized as an additional layer of protection by leveraging the Web Application Firewall feature, which functions to detect and block XSS attack patterns in web form inputs, both before and after Cloudflare implementation. The research findings indicate that before Cloudflare was implemented, XSS attacks could be successfully executed. However, after Cloudflare was activated, these attack attempts were effectively blocked. The implementation of Cloudflare has proven to enhance the security protection of the woven fabric MSME website against Cross-Site Scripting threats.

Keywords: MSMEs, Cloudflare, Website Security, Cross-Site Scripting