ABSTRACT

DESIGN AND CONSTRUCTION OF WEBSITE SECURITY ANALYSIS SYSTEM USING SCRAPING AND ROBOTIC PROCESS AUTOMATION METHODS

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Along with the advancement of technology, the threat of cyber attacks is increasingly sophisticated, this is a concern not only about ensuring data confidentiality but also facing robot attacks. The increasing need for information and technological advances have encouraged several companies to develop new technologies so that data and information processing websites can avoid robot attacks such as web crawlers bots and spam bots. Therefore, an analysis system is needed to measure the level of security of a website from attacks by web crawlers bots and spam bots by carrying out several processes using the web scraping and Robotic Process Automation methods. This study aims to create a system that is able to automate processes to increase efficiency and minimize problems in the security testing process. This study uses the web scraping and Robotic Process Automation methods. The results of the study show that the system is able to automate and perform security detection with 100% results from the test case scenarios carried out and produces security analysis that is used for system repair and improvement.

Keywords: *Security Analysis, Web Scraping, Robotic Process Automation*