ABSTRACT

The dark web is a place where illegal information is available. Users can make transactions to purchase important data or information, drugs, trade malware, weapons, etc. To collect URLs on the dark web that have various information, you can use web crawling. The web crawler will collect each web page and store the URL in a file. On the dark web, there are websites where entering a web page requires user validation. To access the web, cookies are needed to store website login information.

The purpose of this research is to design a system that can login on dark web pages using cookies, so that the system can access these pages and crawl web pages. With the crawling system, it is able to collect website URLs that require user validation.

This system has been tested on fifteen URLs that require user logins such as PayPal account sales forums, credit cards, bitcoins, firearms, as well as selling apple products using bitcoin, selling drugs, and others. When testing the system, crawling is carried out after the system has logged in. The average time it takes the system to get a cookie is 8 seconds per URL, for the average time it takes the system to crawl from the first to the last depth is 4 to 34 seconds, and the accuracy rate obtained is 100% for the fifteen URLs. . The calculation of the level of accuracy is done by manually checking at each depth and comparing it with the URL results obtained by the system.

Keywords: *web crawler, cookies, in-depth crawler, dark web, and TOR Browser.*