IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 8, March 2025

Virus Detection and Prevention Tool for Browser

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Abstract: Browsing speed, user experience, and privacy. Ads such as pop-ups, banners, and autoplay videos slow down webpages and consume bandwidth, while tracking technologies monitor user behavior without consent. Secure-Block is a browser extension designed to eliminate these issues by blocking intrusive ads and trackers, ensuring a cleaner, faster, and more private browsing experience. It utilizes content filtering, regularly updated block lists, and customizable filtering rules to effectively detect and remove unwanted ads. Additionally, users can whitelist trusted websites, balancing ad-free browsing with content support. Developed using JavaScript, JSON, HTML, and CSS, Secure-Block is open-source and prioritizes privacy by not collecting user data. This paper examines the technical framework, implementation, and impact of Secure-Block in enhancing online security and user satisfaction.

Keywords: Ad blocking, tracker blocking, online privacy, content filtering, browser extension, web security, internet performance, open-source software

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