

ABSTRACT

Software license management in a company often encounters problems when done manually, including the risk of information loss, delays in updates, and difficulties in monitoring license validity periods. This study aims to design and develop a web-based license asset management system capable of storing and monitoring license data. The system is built using web-based programming languages, with PostgreSQL as its database system, and includes role-based authentication features, license data management, and data import/export capabilities. System testing was conducted using black-box testing methods to verify its core functions, as well as Google Lighthouse to assess performance and accessibility. Testing results indicate that all functions operate in accordance with specified requirements, with average performance scores falling into the good to very good category, with the highest score reaching 98 on the Login page.

Keywords: Black-Box Testing, Google Lighthouse, PostgreSQL, License Asset Management System, Website.