

ABSTRACT

The management of software license data at PT Kereta Cepat Indonesia China (KCIC) was previously carried out manually using spreadsheets, which posed risks of delayed updates and data entry errors. To address this issue, a web-based application interface was developed to facilitate the digital recording and monitoring of software license validity. The interface was built using HTML, Tailwind CSS, and JavaScript. The development followed the Waterfall method, which includes analysis, design, implementation, and testing stages. The main features developed include data input forms, license data search and filtering, as well as license status displays through visual interfaces. System testing was conducted using the black box method to ensure that each interface component functioned properly according to usage scenarios. The test results indicated that the application interface operated as intended and improved the efficiency of license data management compared to the previous manual process.

Keywords: Web Application, Software License, Front-End Developer, Waterfall Method