

ABSTRACT

Previously, PT Sarana Tunas Niaga faced challenges in managing incinerator machine component data due to manual methods like Excel files and printed documents, leading to inefficiency, limited access, and data input errors. To address this, a web-based catalog application was developed for internal use, providing structured, interactive, and mobile-accessible incinerator component information. The development followed the Waterfall Software Development Life Cycle (SDLC) model, encompassing literature study, requirements analysis, system design, implementation, and testing. Key technologies used include PHP for server-side scripting, MySQL for relational database management, and JavaScript (specifically jQuery and AJAX) for data visualization integration. Developed features include intuitive page navigation, PDF invoice download capability, and comprehensive catalog data management via a web-based backend. The final application functions well across various devices, accurately presents data, and significantly enhances employee work efficiency, thus serving as an innovative digital solution for technical information management within the company.

Keywords: Website Developer, incinerator, component catalog, JavaScript, MySQL, PHP