

ABSTRACT

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DEVELOPMENT OF A WEB-BASED HEAVY EQUIPMENT SPARE PARTS E-COMMERCE APPLICATION

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(xv + 151 + Appendices)

PT Traxindo Jaya Abadi is a company that sells heavy equipment spare parts located in Bekasi, Indonesia. Previously, the company conducted its marketing and sales activities through a physical store and utilized Facebook and WhatsApp as promotional and communication media with customers. However, these methods had limitations in providing product information and facilitating transactions. Therefore, this study aims to develop an e-commerce website to help customers access product information, place orders, and improve the effectiveness and efficiency of the sales process. The research employed the System Development Life Cycle (SDLC) using the Waterfall model, which consists of five stages: requirements analysis, system design, development, testing, and maintenance. Based on the results of Black Box Testing and compatibility testing on two computer devices using three different web browsers, all website features functioned properly, operated normally, and maintained a consistent interface across all browsers. These results indicate that the e-commerce website for PT Traxindo Jaya Abadi was successfully developed and is capable of providing customers with a more convenient, faster, and more flexible purchasing experience. The website can be accessed at <https://pt-traxindo-jaya-abadi.netlify.app/>.

References (2020–2026)