

ABSTRACT

Effective inventory management plays a crucial role in ensuring stock availability and operational efficiency for businesses. Anugrah Rembang Shoe Store still uses outdated manual recording methods, which lead to data inconsistencies, difficulties in stock tracking, and inefficient item retrieval processes. As times evolve, the store owner wants to digitize inventory recording methods to improve accuracy and effectiveness of stock management. This research develops a digital-based inventory management application using the ICONIX Process method, which enables systematic application design with robustness diagrams and Unified Modeling Language (UML), such as use cases and sequence diagrams. The research results show that the developed application successfully transformed the old recording method into digital. Application testing was conducted using black box testing, which aims to validate the application's functionality comprehensively. The results of this testing prove that the application has been running according to the needs and expectations desired by users.

Keywords : *Inventory Management, Digitalization, ICONIX Process, UML*