

ABSTRACT

In today's digital era, the transformation of the manufacturing industry has become increasingly important to enhance operational efficiency and competitiveness., as a manufacturing company, still relies on conventional communication methods via email in its Supply Chain Management (SCM) processes, resulting in various challenges such as delayed information, human error, and low business process efficiency. This study aims to develop a web-based SCM portal application as a solution to automate and digitize business processes between the company and its suppliers. The system is built using a backend powered by Application Programming Interface (API) technology, combined with email notification integration to accelerate confirmation processes within the business flow. The development focuses on three key divisions: purchasing, warehouse, and company management, which play vital roles in procurement and distribution processes. The results indicate that digitizing SCM processes can improve communication effectiveness, speed up information flow, and support more accurate and efficient strategic decision-making. This application is expected to serve as a long-term solution to enhance the company's supply chain performance.

Keywords: *API, Backend, Digitalization, Operational Efficiency, Supply Chain Management*