

ABSTRACT

Roselover Hijab, a small and medium-sized enterprise (SME) in the fashion industry, faces challenges in managing orders, generating work orders, monitoring production progress, and recording inventory data, which are largely handled manually. This condition leads to less structured data management and increases the risk of recording errors. This study aims to design and develop a production planning application tailored to the operational needs of Roselover Hijab. The development process adopts the ICONIX Process methodology, which consists of the requirements, analysis, detailed design, and implementation phases. The developed application provides features for order management, work order generation and assignment, production progress monitoring, and inventory recording for materials and finished products. The results show that the application supports computerized production management, improves the organization of operational records, and facilitates the monitoring of production activities and material inventory. Therefore, the proposed system can serve as a supporting solution for fashion industry SMEs in managing their production processes.

Keywords: *Production planning, ICONIX Process, fashion industry*