

Perancangan Sistem Informasi pada Proses Perencanaan Produksi dan Pengendalian Material di Perusahaan Manufaktur Farmasi = Information System Design in Production Planning Process and Material Control in Pharmaceutical Manufacturing Companies

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Abstrak

Penelitian ini bertujuan meningkatkan efisiensi dan efektivitas perencanaan produksi serta pengendalian material di perusahaan manufaktur farmasi. Metodenya melibatkan implementasi Advance Planning System (APS) dengan API Gateway untuk production planning dan material requirements planning. Data diambil dari perusahaan farmasi di Indonesia melalui observasi dan wawancara. Hasilnya mencakup rancangan sistem informasi, seperti Entity Relationship Diagram, tabel Relational Database, Use Case Diagram, Data Flow Diagram, dan Activity Diagram. Sistem yang dikembangkan mencapai 4 tahap transformasi digital dalam proses PPIC: digitalisasi, integrasi data, dan otomatisasi proses.

This research aims to increase the efficiency and effectiveness of production planning and material control in pharmaceutical manufacturing companies. The method involves implementing an Advance Planning System (APS) with API Gateway for production planning and material requirements planning. Data was taken from pharmaceutical companies in Indonesia through observation and interviews. The results include information system designs, such as Entity Relationship Diagrams, Relational Database tables, Use Case Diagrams, Data Flow Diagrams, and Activity Diagrams. The system developed achieves 4 stages of digital transformation in the PPIC process: digitalization, data integration, and process automation.