

ABSTRACT

Rumah Sakit Mata Masyarakat (RSMM) is a type B specialty hospital owned by the Provincial Government of East Java. RSMM envisions becoming a nationally accredited eye hospital. Achieving this vision requires RSMM to deliver high-quality pharmaceutical services. However, the current pharmacy installation at RSMM Jatim faces several challenges in supporting the smooth operation of the hospital's business processes, such as long pharmacy service queues, inaccurate drug inventory data, and a lack of system integration. Although RSMM Jatim has implemented the Medify application to manage its Hospital Management Information System, its development has not been optimized to support all business processes in the pharmacy installation. Therefore, this study aims to design an information system architecture using the Enterprise Architecture (EA) approach with the The Open Group Architecture Framework (TOGAF) Architecture Development Method (ADM) 9.2 framework, focusing on Phase A: Architecture Vision, Phase B: Business Architecture, and Phase C: Information System Architecture. This research will remap the business processes of the pharmacy installation and design an integrated information system to manage pharmacy queue registration, pharmaceutical supply requests, inventory management, and expired drug handling. The results of this study are outputs at each phase, Principle Catalog, Identification 5W+1H, Balanced Scorecard, Requirement Catalog, Value Chain Diagram, Business Model Canvas, Stakeholder Map Matrix, Business Architecture Requirement, Functional Decomposition Diagram, Goal/Objective/Requirement, Organization/Actor Catalog, Actor/Role Matrix, Business Process Diagram, Solution Business Architecture, Data Architecture Requirement, Data Entity/Component Catalog, Data Entity Business Function Matrix, Logical Data Diagram, Solution Data Architecture, Application Architecture Requirement, Application Portfolio Catalog, Application Interface Catalog, Application/Organization Matrix, Application/Function Matrix, Application Communication Diagram, Application Use Case Diagram, dan Solution Application Architecture. Thus, it is expected that the information system architecture design can serve as a guideline for RSMM Jatim in developing an information system in the RSMM Jatim pharmacy installation.

Keywords: *information system architecture, enterprise architecture, TOGAF ADM 9.2, pharmacy installation, hospital.*