

## **ABSTRACT**

*The development of information technology in the medical service sector, which still needs to be supported by optimal use of technology, has a considerable influence on the performance of the services to be provided by each hospital. The existence of information technology that is appropriately implemented can support the management process to be effective and efficient. Along with the development of information technology, all service sectors must keep pace with existing products. Therefore, every hospital must implement a Hospital Management Information System (SIM-RS) as stipulated in the Regulation of the Minister of Health of the Republic of Indonesia Number 82 of 2013 Article 3. From this, it is necessary to design an Enterprise Architecture (EA) for health service providers who aim to provide services that prioritize or prioritize patients. Enterprise Architecture can display the architecture of the entire enterprise and generate a set of strategies by aligning business goals and application of technology in the company. This research will use The Open Group Architecture Framework (TOGAF) 9.2, which consists of the Architecture Principle, Architecture Vision, Application Architecture and Technology Architecture phases. In designing this, EA will focus on application domains and technology in Sidoarjo Hospital. The results of this study will produce an EA design in the form of a blueprint that can be used as material for consideration in making decisions on development solutions for applications and technology to improve service quality at Sidoarjo Hospital. There is no data integration between E-Remics and Leres applications with E-Billing.*

**Keywords:** *Enterprise Architecture, TOGAF 9.2, SIM-RS, Sidoarjo Hospital*