ABSTRACT

Pondok Pesantren Sunan Drajat (PPSD) is a boarding school located in Banjarwati Village, Paciran District, Lamongan Regency, East Java. PPSD has a vision "to become a revolutionary pesantren towards a civil society that is the successor to the ideals of the Wali Songo, morally good, knowledgeable and responsible for religion, country and nation". Technology has a major influence on the overall transformation of the world of education in Islamic boarding schools which covers various aspects, from administration, teaching, to access to information. At this time the condition of the Information Technology strategy at PPSD Putri Lamongan is not good enough, because there are problems regarding data redundancy between departments that affect functionality and data integration. In addition, manual processes are still used in several operational aspects such as licensing students and handling student health. The process of licensing students, through several administrative stages carried out manually which is time consuming and prone to human error and delays in processing. The process of reporting santri health also still relies on manual recording which causes santri health data to be stored in an unstructured format and is difficult to access when needed, this affects the quality of services provided to students. Related to these problems, PPSD needs to make continuous improvement to improve quality and efficiency. The purpose of this research is to design the architecture of the santri management information system at PPSD Lamongan. This research method uses a qualitative case study using the TOGAF ADM (The Open Group Architecture Framework - Architecture Development Method) version 9.2 framework which includes three phases, namely the preliminary phase, Phase A: Architecture Vision includes Stakeholder Map Matrix, Value Chain Diagram, Phase B: Business Architecture includes Activity Catalog, Business Function Matrix/Role, Gap Analysis Business Architecture, Phase C: Information System includes application architecture and data architecture. By using the TOGAF (ADM) approach, PPSD Lamongan can understand about existing applications, including functionality, and integration. The result of this research is an information system architecture document as a description of proposals or recommendations from Enterprise Architecture (EA) related to

future information system development plans by providing a clear and structured concept of how to optimize the use of information technology in line with business activities at PPSD Putri Lamongan to support the achievement of the goals and vision & mission of Pondok Pesantren Sunan Drajat Lamongan.