ABSTRACT

Technology development rapidly affecting the academic and non academic services in university, so in the university have to provide realtime services. In this research doing planning and designing e-university architecture. e-University is a system developed and implemented especially for higher education to manage tridharma activities in order to improve the quality of service in the academic function. e-University to be a bridge between internal university, social, and industry to interact each other. The purpose of this research produces blueprint and design e-university architecture.

This research model using zachman framework. In the first column describes the contextual architecture where defining the vision, mission, and strategy which based on planner view. In the second column called conceptual architecture, which the architecture defines the organizational structure, business processes, and hierarchy of function based on the owner view. In the third column is the architecture that defines the logical data, application, and technology architecture based on designer view.

This research produces a blueprint for planning contextual and conceptual architecture. At the conceptual architecture generated 44 business processes in the 3 main functions consist of academic admission, operational academic, and academic release. The result of designing phase are data, application, and technology architecture for higher education especially for academic function. Result of data architecture are entity relational diagram design and data flow diagram. In the application architecture produces application description. There are planning new admission, promotion, new admissions, and academic operations. Technology architecture generating data center and cloud computing design.

Keywords: e-university, enterprise architecture, zachman framework, blueprint, academic