

ABSTRACT

Emergence e-learning system which is to support learning process at the first, began to be developed not only to support learning process but also to support either main and support function in university through the existence of the new e-university system that one of many support function in university is student affairs. Development of student in Indonesia have problems in implementation development student affairs because less of participation student, less participation institute person, and less information technology implementation. Technology information implementation as one of solutions to solve all problems in student affairs directorate.

In the implementation information technology in student affairs directorate as a part of making e-university system, requires planning and designing of e-university architecture that is properly documented. The making of e-university architecture using Enterprise Architecture Planning (EAP) method with Zachman framework which took data, function, network and contextual line, and conceptual line. EAP method just can make blueprint e-university architecture. Planning e-university architecture used design row in Zachman framework with the same column, to implementation blueprint that written in data architecture, application architecture, and technology architecture.

The result of planning and designing e-university architecture consists of 2 model. First, planning model consists of contextual architecture explaining university strategic sides, conceptual architecture explaining business model of the university, data architecture explaining about the identification data as results of business function student affairs, application architecture explaining about identification application that support development student function and technology architecture explaining identification technology based on critical business process in e-university. Second, consist of design model e-university architecture that consists of data architecture that describe 29 entity designed using ERD diagram, application architecture that explain 3 application implemented SOA and datawarehouse concept designed using use case diagram and technology architecture explain design cloud computing architecture for e-university implementation, and design cloud computing for cloud provider.

Keywords: e-university, zachman framework, directorate of student affairs, e-university architecture