

Abstract

The Telkom Education Foundation (YPT) is a foundation engaged in the world of education that has several institutions with different tasks and functions. Each of these institutions has a different information system and database. This research problem is caused by the difficulty of accessing information from one institution to another. Where emerges from information system conditions that have not been integrated with each other. This requires the creation of a mutually integrated information system architecture to support business processes. Because YPT is an enterprise, the method used in this study is Enterprise Architecture Planning (EAP). This method was chosen because it uses an enterprise approach in defining and designing information system architectures. So that it can be a long-term guideline for an organization in designing and developing an integrated information system. The output of this research is data architecture design, application architecture and information system technology architecture that is integrated to fit the needs and business strategies. Output testing of this research is carried out by conducting interviews where the resource person is directly involved in the project or an expert in the database, web or EAP itself. Interviews are conducted by asking each speaker to give an assessment of the 8 statements prepared. Tests carried out on the design of this architecture produce a score of 86.35% which indicates that this architecture is important to be implemented.

Keywords: *Data Architecture, Technology Architecture, Application Architecture, Enterprise Architecture Planning, Information Systems*