INFORMATION SYSTEM ARCHITECTURE PLANNING IN
STMIK KADIRI WITH TOGAF ARCHITECTURE
DEVELOPMENT METHOD

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ABSTRACT

Higher education institutions is an academic organization that uses information technology to support various business processes in them. This form of organization has its own characteristics that are typical, so the form of the required information system should have its own characteristics.

In organizations that have a long walk, met a lot of information system applications with a variety of technology platforms and devices supporting information technology. Typically, these systems apart from one another, which is accompanied by a lot and the spread of 'islands of data' within the organization. This separation low impact that low levels of availability, consistency and effectiveness of data provision.

The method used in this study consisted of five phases. The fifth stage in a row is a preliminary stage, the data collection phase, phase current understanding of business architecture, data architecture creation phase and final phase of making the application architecture.

Based on the analysis of the value chain, there are ten business functions contained in STMIK Kadiri. The nine functions are grouped into two main functions and support functions. The main functions include new admissions, management of academic activities, the management of graduation, promotion, and management of the career center and alumni. Next support functions include financial management, libraries, human resource management, management of computer labs, as well as the facilities and infrastructure management.

There are thirty-candidate data entities that support the function of new admissions, management of academic activities, graduations management, promotion management, career center management, financial management, library, personnel management, computer lab management, and infrastructure management. Management function is a function of academic activities that use the most data entities eleven data entities. The next two functions that use the data the most is the financial management functions and library functions using four data entities.

There are forty-one application that supports the function of the group of new admissions, management of academic activities, graduations management, promotion management, career center management, and management of the financial center. Results of the analysis show that the application portfolio matrix
applications in key operational group is most needed applications with 46% of the entire application, while the support group takes 37% of all applications, while the remaining 17% are a group of strategic and high potential applications.

Keywords: Application Architecture, Application Portfolio, Data Architecture, Information System Architecture, TOGAF Architecture Development Method
Dipersembahkan untuk kedua orangtuaku
Sjaifuddin dan Siti Marijam
serta istri dan anak-anakku
Siti Dahliah
Jasmine W. Saphira, Roseanne W. Emeralda, Daisy W. Amethysta
Halaman ini sengaja dikosongkan.