ABSTRACT

VALIDITY OF BUSINESS ARCHITECTURE MODEL USING FORMAL METHOD (STUDY CASE: MANUFACTURING COMPANY)

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Enterprise Architecture is a high level view of the company's business strategy and information technology systems because EA has the main objective of determining the desired future business strategy and company information technology systems. EA is very important for companies to translate strategies, capabilities, and goals into the system to achive company goals.

There are several phases in EA, one of which is the architectural business phase which has a great responsibility for handling all information systems and other applications running in the company. There are several major problems identified in the EA implementation process, one of which is the rigidity of business functionality in the organization which causes failure in implementing EA in the company. Not to mention, many organizations tend to develop and implement EA on a large scale which can increase the risk of EA failure. There are four layers to perform EA maintenance, starting with the architecture business. Modeling a good business model can help avoid mistakes from the start such as minimizing the exponential increase in costs because there are still many business models that are not always high quality. Modeling a good business model will also have an impact on the next phase of EA and improvements to the business model that will be carried out, therefore the quality of business modeling is important because it has been recognized as a factor in the success of company goals. In this final project, an analysis is carried out based on one of the quality principles, namely validation based on the seven derivative attributes to maintain and create high-quality artifacts in the architectural business phase.

Kata Kunci: Enterprise Architecture, Business architecture, Model Quality, Quality Principle, Validity, BPMN, Petri net