

Abstract

Development of Requirement Engineering are required a defining of a clear requirement list in the semi-formal model, that way the mistake of interpretation are reduced from every parties involved. To achieve this requires a form of business process modeling into a semi-formal model, so the ambiguity in the requirement list that has been modeled into the semi-formal model can be eliminated. BPMN (Business Process Modeling Notation) is the semi-formal model that is used because BPMN has a specific notation to overcome the problems in modeling. Problem arise when translating the requirement list into semi-formal modeling. The lack of knowledge affects the translation process, so the information is not interpreted as it should be. It takes a repository to store information that is constantly evolving. This can be realized by modeling the semantic information from the existing requirement list using ontology. With this, ambiguity that exist in the use of natural language on the requirement list in the semi-formal model can be removed. In addition, with the existence of more specific and developing knowledge, will improve the analysis, search and validation of the business process model.

Outcome of this research define that constructed ontology has metric value that explain constructed ontology have more specific domain, able to store many information, and able to represent every knowledge exist. So, constructed ontology can be use as semantic information in academic information system domain.

Keywords: Requirement Engineering, ontology, BPMN, requirement list, semantic information