

Establishment Of A Workflow Knowledge Base Retrieval System Using Ontology-A Case Of A Manufacturer Of Fire-Proof Buildi

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ABSTRACT

Rapid changes are required to address dynamic business workflow needs according to the firm ' s demand in a manufacturing sector. This research addresses existing problems about workflow in a manufacturer of fire-proof building materials. This research contributes in the field of ontology development in manufacturing sector. The main purpose of this thesis is to design an ontology based model that can represent business workflow problems in the case study of a manufacturing firm. The ontology based model can be used to provide relevant information to the domain users according to their needs and demands. The ontology based model depicts domain users profiling and describes their roles, information demands with competencies: skills, qualifications and experiences. The ontology based model will be implemented in RDF language that can be used in an application to support business activities for achieving effective business process. This thesis incorporates Uschold and King methodology that helps to develop an ontology-based model. The proposed ontology based model is developed by using the Prot?縵?? The knowledge query of this research was accomplished by add-on query tab of the Prot?縵?? software. Five examples of knowledge query were deployed to explain the usage of the system.

Keywords : Ontology、Workflow、Fire-proof building materials

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