PURCHASE RETURN
SEMANTIC WEB SERVICE ENGINEERING
ON INVENTORY USING
WEIGHTED DIRECTED ACYCLIC GRAPH

By : Bayu Adhi Nugroho
Student Identity Number : 5109201018
Supervisor : Prof. Drs.Ec. Ir. Rianto Sarno, M.Sc.,Ph.D.

ABSTRACT

One methodology in handling company’s business process automation is by using workflow. Workflow is a mechanism which handling business process flow into a sequential task, there are various technical implementation of workflow in Information Technology. Workflow are divided into two kinds of region conceptually, they are : orchestration and choreography.

Semantic Web Service as a semantic technology implementation in the distributed computing area is able to build software workflow with advance capability than the previous technology, Syntactic Web Service. Syntactic Web Service has primary drawback in service substitution mechanism. This research conducts Semantic Web Service engineering using purchase return case in the Enterprise Resource Planning, and is having a primary contribution to achieve valid schema model from Web Service. By having a valid schema model from web service, a methodology to calculate similarity among services is able being conducted and then being used in service recommendation during service substitution mechanism.

Kata kunci : semantic web service, substitution, similarity.