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A Semantic Web Service Based Middleware for E-Governance

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Abstract

Due to lack of collaborative work, resource sharing, operation integration, and incomplete automation of governmental services, the present E-government is facing the problem to cater their services to the citizen in a single web based system. Semantic Web Services (SWS) based Middleware in E-Governance can allow the automated web service discovery, selection, execution making the automatic composition of governmental services a reality. In this paper, we propose a design & architecture of a flexible, expandable and easy to use service oriented Middleware in E-Government to make a WSDL based Web services from a legacy database system. In addition to that, we also illustrated how the semantic web services can extend the e-government services in terms of web service selection, discovery, and automatic composition of the web services. We propose a logical view of the System Architecture for the Interaction between the Citizen and the SWS based Middleware in E-Governance for workflow of the services in portal based e-government. We illustrated a use case

