Abstract

The semantic web has evolved over the current web and aims to provide a web that allows for easy retrieval and accessing of information by both man and machine. It provides for a wide variety of technology stacks, language standards and software components which help both man and machine to access data easily. Intelligent information retrieval and the credibility of data is managed in semantic web by the use of Provenance. However in addition to embedding provenance data there is also a need to facilitate its easy availability for the client side for the purpose of manipulation and transportation accross. This task is achieved by incorporating the use of JSON in Provenance thereby creating PROV-JSON serializations of the PROV-DM i.e the PROV data model. In this paper we have made an endeavor to create an ontology and have embedded provenance information on the client side using PROV-JSON instances.

References


8. Wang Guanhua,2011 Improving Data Transmission in Web Applications via the Translation between XML and JSON-2011 Third International Conference on Communications and Mobile Computing


13. Online:URL: http://www.w3.org/DesignIssues/LinkedData


16. Online:https://provenance.ecs.soton.ac.uk/store/documents/114345/

17. Online:https://provenance.ecs.soton.ac.uk/store/documents/115642/


Index Terms

Computer Science

Information Systems

Keywords

Semantic web, JSON, Linked data, Ontology, Provenance, trust