

PROBLEM DEFINITION

During the development of Web Semantic technologies huge volume of data has being published on the web as a Linked Open Data. In order to use LOD for specific purpose, we should check its quality in advance. The quality term means in Semantic Web is fitness of use. Then we should have into account that not all the data is meaningful and if the quality is poor it leads to Enterprise problems such as data standardization, multiple data with duplicates in the data sets, meaningless information and so on. To assure that the Enterprise is trustful, then in the design we should take into account that the quality measurement depends on which domain the data will be used. On the other hand, we should assure that our LOD the data is measure for the correct quality metrics, which means that the given data in one LOD be useful for one of the use cases but not favorable for other ones. Therefore, for measurement of LOD we are going to use metrics and we identify the fitness of it use.

USE CASE

Based on the fact that there is some people who cannot go out because they suffer from some illness or they are recovering at home of some kind of medical treatment. Then they need a service that provide cheaper and trustful medicaments online that can be send easily to their home. For that reason the use case is related with the creation of a Drugstore Online which obtain information of different websites (providers) and then shows the best options to the user. Of course in order to offer a medicament or a treatment we must be able to check the quality of the data that we display on the screen.

We must be able to check in advance the data quality, for that reason we should be able to use the metrics (initial approximation):

1. Verifiability
2. Reputation
3. Believability
4. Consistency
5. Availability
6. Understandability
7. Conciseness
8. Volatility

The next image describes the basic uses cases that the enterprise system require.

