

Ontology:

What do you understand about the ontology that has been presented for your reading this week? Could you attempt to define an ontology that would be relevant to the system that you are designing for the summative assessment?

In a service-oriented architecture (SOA), an ontology provides a conceptual understanding of the services provided by an application. Ontologies are clear formal specifications of domain and their relationships to other terms, encompassing a collection of concepts (entity, objects, domains, processes, goals, and results), properties, relationships, restrictions, or axioms. (Arnaut et al., 2010).

It would be difficult to create a thorough, formal, and relevant ontology using only the details provided in the article. One might, however, be created to represent the many services necessary inside the relevant area, as well as their interconnections. (Arnaut et al., 2010).

References:

W. Arnaut, K. Oliveira and F. Lima, "OWL-SOA: A service oriented architecture ontology useful during development time and independent from implementation technology," *2010 Fourth International Conference on Research Challenges in Information Science (RCIS)*, 2010, pp. 523-532, doi: 10.1109/RCIS.2010.5507314.