What is an 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?

Answers

1. The ontology supports the activities of organisation and categorisation of services delivered by an application, in a Service Oriented Architecture (SOA), by delivering domain specific definitions (2010, Arnaut et al.). Furthermore, it is an amalgamation of existing techniques and technologies (2010, Arnaut et al.).

2. Using only the details specified in the article would make it difficult to produce a comprehensive, formal, and pragmatic ontology (2010, Arnaut et al.). However, one could be produced to represent the various services required within the relevant domain, and their interrelationships (2010, Arnaut et al.). Furthermore, an ontology could be used in various phases of the software development lifecycle to achieve different goals, such as aligning Object-oriented classes to services (2009, Gašević et al.)

References

Arnaut, W., Oliveira, K., Lima, F. (2010) "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.

Gašević, D., Kaviani, N., Milanović, M. (2009) Ontologies and Software Engineering. In: Staab S., Studer R. (eds) Handbook on Ontologies. International Handbooks on Information Systems. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-540-92673-3_27.