



Assignment Tutorial Letter 2023

Ontology Engineering
COS4840

Year module

Computer Science Department

Assignment 7 - Question

BARCODE

Assignment 7

Assignment topic

You are required to build an ontology based on a provided scenario. This must be your own individual work, and you are not allowed to discuss this with, or get help from, anyone else. You may use all your notes and assignments and are free to search the Internet if needed. However, do not attempt to download an ontology that you find online and submit a reworked version of it.

This is a practical assignment that must be completed using Protégé and saved as a .owl file (using RDF/XML syntax).

You will have 6 hours to complete this assignment and must upload your completed ontology as a .owl file before the end time on myUnisa.

The scenario that you must use is the same scenario that you were given in Question 1 of Assignment 6. You were asked in Question 1 of Assignment 6 to download a PDF file detailing the scenario. You should use this same scenario for this assignment. Remember that students were randomly provided with a scenario in Assignment 6, and so students will have different scenarios. If you submit an ontology that does not match the scenario you were given in Question 1 of Assignment 6, your ontology will not be marked, and you will be given zero.

You are required to do the following.

- Develop a class and property hierarchy that can represent the knowledge in your scenario.
- Class axioms, including cardinality axioms, should be included.
- Add appropriate instances/individuals as given in the scenario.
- All usual ontology development standards apply (such as disjoint classes and inverse properties).
- When the reasoner is run, the ontology should be consistent.