

Background

Deontic logic provides a basis for ethical reasoning and access control systems, and classifies acts based on if they are Obligatory, Optional, or Impermissible.

Additional Findings

- Provenance models can support representation of clinical guidelines by aligning them with variations on Deontic Logic's Traditional Threefold Classification.
- Subclasses of these groups can be used with OWL Property Restrictions to classify instances.

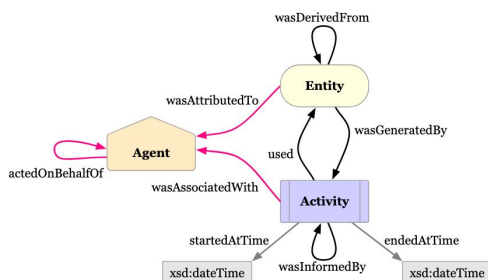
Rec_ Ex:

≡ Patient and hasAttribute some (DiastolicBP and hasValue some [>140])

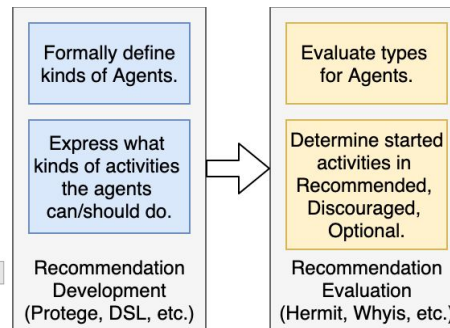
⊂ started some Recommended and Exercise



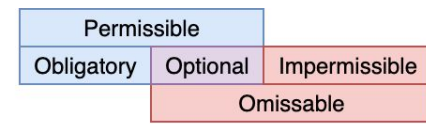
Provenance models can be extended to support computable clinical guidelines using Deontic Logic.



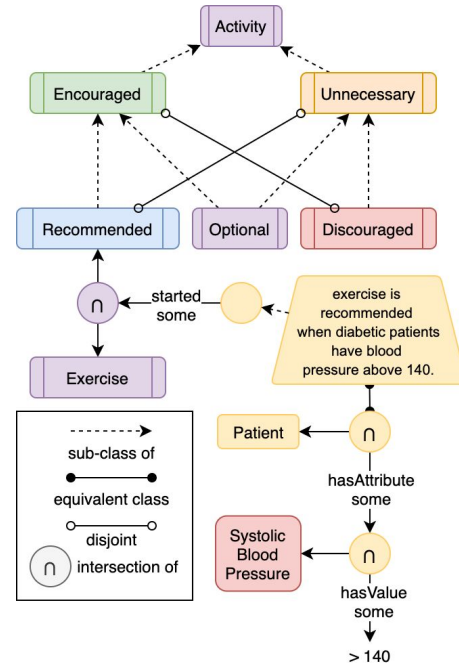
Prov-O Entity Diagram



Implementing the OWL+Prov approach for guidelines.



Deontic Categories vs Deontic Recommendation Categories.



Example Recommendation in OWL.