How to build and manage application profiles in OntoME

https://ontome.net/

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55th CIDOC CRM SIG Meeting – C²DH Université du Luxembourg
7 December 2022
An application profile is a set of classes and properties from different namespaces, respecting ontological consistency.

The creation of a profile is most appropriate for projects where the model only requires a limited number of classes and properties.
Create a new profile

On your project page, activate edit mode and open the profiles tab. Click on "Create" to open the profile creation form.

A project can create as many profiles as needed.
Root profile and versions

Like namespaces, profiles have root and versions.

Open the ongoing version to edit your profile.
Select namespaces...

The first step is to select the namespaces from which you want to choose classes and properties.

Open the Namespaces tab and pick a root namespace from the drop-down list.
...and versions

A namespace can have several versions, select the one you want to use.
Reference namespaces

The reference namespaces referred to by a specific namespace are automatically selected.
Select classes

The second step is to add classes to your profile.

Simply click on the plus sign to add a class to your profile.
Select classes

Associated classes are listed in the table on the left.

Note that the classes are associated without any properties!
Select properties

The third step is to add properties to your profile.

Click on the "Properties" button in the row of the class whose properties you want to select.

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Select properties

Simply click on a tick to add a property.

You can even choose to restrict the range of the selected property to a subclass of the range.

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The associated properties are then listed in the properties tab.
Explain your choice

It is good practice to explain why you have chosen a specific class or property for your profile.

OntoME includes this facility.

For a class, click on the "Class" button in the corresponding class row.

For a property, click on the "Tool" button in the corresponding properties row.
Explain your choice

You can add a justification of the selection of an entity in the profile or a use case or specific examples.

Click on "Class/Property definition" to display the scope note and examples.
View a profile

In normal mode, or if you are viewing another project's profile, you can see the namespaces from which classes and properties have been selected.
The classes list displays the associated classes with their belonging namespace and association type.

"Inferred" means that the class has not been explicitly selected but is domain or range of a property selected in the profile.
The properties list displays associated properties with their belonging namespace and association type.

"Rejected" means the property has been deselected after having been first selected.
Use a profile

A project can manage as many profiles as it wishes. It can publish its profiles using the OntoME API and also associate profiles built by other projects if needed.

These profiles are then available in the API and also in a single OWL/RDF serialization or separately in JSON and OWL/RDF.
Use a profile

And in the end, applications profiles can easily be used by a data production application, like here Geovistory which is connected directly to OntoME via its API.

https://www.geovistory.org/