

ONTOLOGY CONFIGURATION

ONTOLOGY EDITOR TOOL

20 SEPTEMBER 2023 | JITHU MURUGAN

USAGE

How to launch the tool

Follow the below given steps to open the tool

- Open PASTA Application
- Go to **System | Questionnaires** or press **F8**
- Ontology editor will be opened with the loaded data from the database as shown in the picture

The screenshot shows the 'Ontology Editor' window. At the top right are 'SAVE', 'HELP', and 'CANCEL' buttons. Below them is the 'Edit Questionnaires' section. It contains two rows of input fields and buttons. The first row has 'Data Type' (Structure level 0), 'Projects', 'Enter the iri for the type', '+ ADD', and '- DELETE'. The second row has 'Property Category' (default), 'Enter the new category to be added', '+ ADD', and '- DELETE'. Below this is the 'Properties' section, which is a table with 9 columns: NAME, QUERY, LIST, UNIT, IRI, REQUIRED, DELETE, and RE-ORDER. The table contains 5 rows of data. Below the table is a '+ ADD PROPERTY' button. At the bottom is the 'Attachments' section, which is a table with 4 columns: DESCRIPTION, TYPE, DELETE, and RE-ORDER. Below this table is a '+ ADD ATTACHMENT' button.

	NAME	QUERY	LIST	UNIT	IRI	REQUIRED	DELETE	RE-ORDER
1	-name	What is the name of the project?				<input checked="" type="radio"/>	DELETE	^
2	-tags	What are the tags associated with the project?				<input checked="" type="radio"/>	DELETE	^
3	status	What is the project status	active,paused,passive...			<input type="radio"/>	DELETE	^
4	objective	What is the objective?				<input type="radio"/>	DELETE	^
5	comment	#tags comments remarks :field.value:				<input type="radio"/>	DELETE	^

DESCRIPTION	TYPE	DELETE	RE-ORDER
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ONTOLOGY EDITOR

Data type tools

The screenshot shows the 'Edit Questionnaires' window in the Ontology Editor. A red box highlights the 'Data Type' management section. Five numbered callouts point to specific elements:

- 1. Points to the 'Data Type' dropdown menu, which currently shows 'Structure level 0'.
- 2. Points to the 'Projects' text input field.
- 3. Points to the 'Enter the Iri for the type' text input field.
- 4. Points to the '+ ADD' button.
- 5. Points to the '- DELETE' button.

Below the highlighted section, there is a 'Property Category' dropdown set to 'default' and another '+ ADD' / '- DELETE' button pair. The 'Properties' table lists five properties:

	NAME	QUERY	LIST	UNIT	IRI	REQUIRED	DELETE	RE-ORDER
1	-name	What is the name of the project?				<input type="radio"/>	DELETE	^
2	-tags	What are the tags associated with the project?				<input type="radio"/>	DELETE	^
3	status	What is the project status	active,paused,passive...			<input type="radio"/>	DELETE	^
4	objective	What is the objective?				<input type="radio"/>	DELETE	^
5	comment	#tags comments remarks :field:value:				<input type="radio"/>	DELETE	^

At the bottom, there is a '+ ADD PROPERTY' button and an 'Attachments' section with a table for descriptions and types, and a '+ ADD ATTACHMENT' button.

1. Select the **data type** to be edited from the combo-box list
2. Edit the **label** of the selected type
3. Edit the **Internationalized Resource Identifier (IRI)** associated with the selected type
4. Add a new **type** to the list
5. Delete the selected **type** from the list

ONTOLOGY EDITOR

Data type tools: Add new type

The screenshot shows the 'Ontology Editor' interface. A red box highlights the top section containing 'Data Type', 'Structure level 0', 'Projects', 'Enter the iri for the type', and '+ ADD' and '- DELETE' buttons. A red arrow labeled '1' points to the '+ ADD' button. Below this, the 'Property Category' section is visible. A 'Create New Type' dialog box is open in the center, with four numbered steps: 2. Enter title, 3. Enter label, and 4. Check 'Is this a structural Type?' checkbox. The dialog box has 'CANCEL' and 'OK' buttons at the bottom. The background interface includes a 'Properties' table with columns 'NAME' and 'QUERY', and an 'Attachments' table with columns 'DESCRIPTION', 'TYPE', 'DELETE', and 'RE-ORDER'.

	NAME	QUERY
1	-name	What is the name of the project?
2	-tags	What are the tags associated with the
3	status	What is the project status
4	objective	What is the objective?
5	comment	#tags comments remarks :field.value:

DESCRIPTION	TYPE	DELETE	RE-ORDER
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1. Click “+ Add” button to open the “**Create New Type**” window
2. Enter the **title** for the type
3. Enter the **label** to be associated with the type
4. Select the check-box if you need to add a structure level type (x0, x1,...xn)
 - If checked, the **title** will be auto-populated

ONTOLOGY EDITOR

Data type tools: Add new type

Ontology Editor

Edit Questionnaires

SAVE HELP CANCEL

Data Type Structure level 0 Projects Enter the iri for the type + ADD - DELETE

Property Category default Enter the new category to be added + ADD - DELETE

Properties

	NAME	QUERY
1	-name	What is the name of the project?
2	-tags	What are the tags associated with the
3	status	What is the project status
4	objective	What is the objective?
5	comment	#tags comments remarks :field.value:

+ ADD PROPERTY

Attachments

DESCRIPTION	TYPE	DELETE	RE-ORDER
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+ ADD ATTACHMENT

Create New Type

Enter Type title Enter title for the new type

Enter Type Label Enter label for the new type

☐ Is this a structural Type?

CANCEL OK

Create New Type

Enter Type title Structure level 4

Enter Type Label Enter label for the new type

☐ Is this a structural Type?

CANCEL OK

Auto-populated title field

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Data type properties list with categories

Ontology Editor

Edit Questionnaires

Data Type: Structure level ▾ Projects Enter the IRI of the type + ADD - DELETE

Property Category: default ▾ Enter the new category to be added + ADD - DELETE

Properties

	NAME	QUERY	LIST	UNIT	IRI	REQUIRED	DELETE	RE-ORDER
1	-name	What is the name of the project?				<input type="radio"/>	DELETE	▲
2	-tags	What are the tags associated with the project?				<input type="radio"/>	DELETE	▲
3		What is the project status	active,paused,passive...			<input type="radio"/>	DELETE	▲
4		What is the objective?				<input type="radio"/>	DELETE	▲
5	comment	#tags comments remarks :field: value:				<input type="radio"/>	DELETE	▲

+ ADD PROPERTY

Attachments

DESCRIPTION	TYPE	DELETE	RE-ORDER
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+ ADD ATTACHMENT

1. Select the **property list category** from the combo-box associated with the selected type
2. Enter the new **property list category** name to be added
3. Add the new **property list category**
 - When a new category is added, the **property list table** will be cleared and default properties (-name & -tags) will be added automatically
4. Delete the selected **property list category**
 - The selected category will be deleted and the next one in the list will be displayed
5. **Property list table** for the selected category
6. Add a new row to the **property list table** for entering a new property to the selected category

ONTOLOGY EDITOR

Data type property attributes

The screenshot shows the 'Ontology Editor' window. At the top, there are buttons for 'SAVE', 'HELP', and 'CANCEL'. Below these, there are input fields for 'Data Type' (set to 'Structure level 0'), 'Projects', and 'Enter the'. A red box highlights the 'Properties' section, which contains a table with 5 rows and 8 columns. The columns are: NAME, QUERY, LIST, UNIT, IRI, REQUIRED, DELETE, and RE-ORDER. The rows are numbered 1 to 5. Below the table is a '+ ADD PROPERTY' button. At the bottom of the window, there is an 'Attachments' section with a table for 'DESCRIPTION', 'TYPE', 'DELETE', and 'RE-ORDER', and a '+ ADD ATTACHMENT' button. Eight numbered callouts point to specific elements: 1 points to the 'NAME' column header, 2 points to the 'QUERY' column header, 3 points to the 'LIST' column header, 4 points to the 'UNIT' column header, 5 points to the 'IRI' column header, 6 points to the 'REQUIRED' column header, 7 points to the 'DELETE' column header, and 8 points to the 'RE-ORDER' column header.

	NAME	QUERY	LIST	UNIT	IRI	REQUIRED	DELETE	RE-ORDER
1	-name	What is the name of the project?				<input type="radio"/>	DELETE	^
2	-tags	What are the tags associated with the project?				<input type="radio"/>	DELETE	^
3	status	What is the project status	active,paused,passive...			<input type="radio"/>	DELETE	^
4	objective	What is the objective?				<input type="radio"/>	DELETE	^
5	comment	#tags comments remarks :field:value:				<input type="radio"/>	DELETE	^

1. Name of the property
2. Query associated with the property
3. List associated with the property
4. Unit for the property
5. Internationalized Resource Identifier (IRI)
6. Required attribute of the property
7. Delete button to delete the property from the table
8. Re-order button to move up the property in the table

ONTOLOGY EDITOR

Data type attachments

Ontology Editor

Edit Questionnaires

SAVE HELP CANCEL

Data Type: Structure level 0 Projects Enter the iri for the type + ADD - DELETE

Property Category: default Enter the new category to be added + ADD - DELETE

Properties

	NAME	QUERY	LIST	UNIT	IRI	REQUIRED	DELETE	RE-ORDER
1	-name	What is the name of the project?				<input checked="" type="radio"/>	DELETE	^
2	-tags	What are the tags associated with the project?				<input checked="" type="radio"/>	DELETE	^
3	status	What is the project status	active,pasued,passive...			<input type="radio"/>	DELETE	^
4	objective	What is the objective?				<input type="radio"/>	DELETE	^
	comment	#123 comments remarks :field:value:				<input type="radio"/>	DELETE	^

+ ADD PROPERTY

Attachments

	DESCRIPTION	TYPE	DELETE	RE-ORDER
1	device1	Instrument	DELETE	^
2	device2	Instrument	DELETE	^

+ ADD ATTACHMENT

1. **Attachments table** which lists all the attachments associated with the selected data type
2. **Description** (eg. *device name*) attribute of the attachment
3. **Type** of the attachment, can be any previously defined data types
4. Delete the attachment from the **attachments table**
5. Re-order button to pull up the item to the top of the **attachments table**
6. Add a new attachment row to the **attachments table**

ONTOLOGY EDITOR

Save, help and cancel operations

The screenshot shows the Ontology Editor interface. At the top right, there are three buttons: SAVE, HELP, and CANCEL. Below them are three numbered circles (1, 2, 3) with arrows pointing to the buttons. A modal dialog box is open in the center, titled 'Ontology Editor', with a red exclamation mark icon. The dialog contains the following text:

Missing required properties:

- Type: Structure level 0
Category: default
Missing Property: -tags
- Type: measurement
Category: default
Missing Property: -tags
- Type: Structure level 3
Category: new category
Missing Property: -tags

The dialog has an 'OK' button at the bottom right. The background interface includes sections for 'Edit Questionnaires', 'Data Type', 'Property Category', 'Properties' (a table with columns NAME, QUERY, and buttons DELETE, RE-ORDER), and 'Attachments' (a table with columns DESCRIPTION, TYPE, and buttons DELETE, RE-ORDER).

1. Save the changes made on the ontology data loaded from database
 - Save operation will check within each type, if all the required properties (**-name** & **-tags**) are defined by the user for every category
 - If all set, then success message will be shown for the save operation
 - Otherwise an error will be displayed with the missing required properties for the respective type categories as shown in the picture
2. Navigate to the help page of the ontology editor
3. Cancel all the changes done so far on the loaded ontology data and exit the editor

THANKS

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