

Containers and Searches

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Containers

Container in Profuz LAPIS is a Base Type used to describe Objects which virtually contain other Objects. To view all types of containers directly deriving from Container Base Type, search for the following: `[:baseTypes ID "00000000000000000000000060@1"]` The default Profuz LAPIS installation comes with the following types of Containers: Relations Container, Ordered Relations Container, and Query Container.

Profuz LAPIS

Create NewMy AreaOperationsWorkflowsAdministration

Search:[:baseTypes ID "00000000000000000000000060@1"]

Advanced searchSave search

Explorer

Filter results

Folder of Administra...Examples

Categories

No results

Messages

Search Results

	Title	First Details	Second Details	Types	Created At	User Updated At	
<input type="checkbox"/>	Query Container			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM	
<input type="checkbox"/>	Relations Container			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM	
<input type="checkbox"/>	Ordered Relations Container			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM	

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Relations Container and **Ordered Relations Container** keep links between Containers of those two types and other Objects of the system. The difference between them is that in Ordered Relations Container, the links are ordered. For example, Folder is a Relation Container and Dashboard is Ordered Relations Container.

Query Container is a Container which links Objects based on a user-defined query. For example- list of objects of Type Task. As seen in the above examples and shown on the search below, there are some system default Containers - Folder, Category, Tag, Dashboard, Calendar, Search Session etc.

The screenshot displays the Profuz Lapis application interface. At the top, there is a navigation bar with tabs for 'Create New', 'My Area', 'Operations', 'Workflows', and 'Administration'. A search bar is located below the navigation bar, containing the text '[id INHERITS "Container"]'. To the left of the search results is an 'Explorer' sidebar with sections for 'Filter results', 'Folder of Administra...', 'Examples', 'Categories', 'Messages', 'Search Sessions', and 'Bookmarks'. The main area is titled 'Search Results' and shows a table of search results. The table has columns for 'Title', 'First Details', 'Second Details', 'Types', 'Created At', and 'User Updated At'. The results list various container types such as 'Container', 'Ordered Relations Container', 'Query Container', 'Relations Container', 'Relations Hierarchical Container', 'Folder', 'Category', 'Tag', 'Search Session', 'Calendar', 'RSS Feed', 'Dashboard', 'Private Folder', 'Draft-Folder', and 'Dashboard-Draft'. Each result includes a gear icon, a title, a type, and creation/updated timestamps. At the bottom of the page, there is a footer with copyright information and links for 'About', 'Licenses', 'License Agreement', and 'Help'.

Title	First Details	Second Details	Types	Created At	User Updated At
Container			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Ordered Relations Container			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Query Container			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Relations Container			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Relations Hierarchical Container			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Folder			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Category			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Tag			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Search Session			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Calendar			Calendar Meta Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
RSS Feed			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Dashboard			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Private Folder			Type	Nov 8, 2024, 8:58 AM	Nov 8, 2024, 8:58 AM
Draft-Folder			Type	Nov 8, 2024, 11:14 AM	Nov 8, 2024, 11:14 AM
Dashboard-Draft			Type	Nov 13, 2024, 1:40 PM	Nov 13, 2024, 1:40 PM

They all derive from the base type Container. It is interesting to clarify the Relations Hierarchical Container and what it is used for. As its name shows, The Relations Hierarchical Container is used to create hierarchical structures, such as Folder and Subfolders, Categories and Subcategories, etc. These structures allow the definition of a “path” which shows all the steps through which a certain container is reached. The path is important, because it is used to inherit the permissions of the previous in the chain Container. This is a quick and easy way to provide permissions to a Folder, Category or other Container.

One Object can be linked to one or multiple Containers from a single or a variety of Types. For example, if you create an Object “Document 1”, you can link it to Folder 1, Folder 2, Category 1, Subcategory 2, etc.

Searches

Profuz Lapis has an intelligent search mechanism which gives the possibility to search in parallel in Profuz Lapis internal database and all connected external systems.

Profuz Lapis search is **Live Search** with real time results updates in contrast with static results approach used in other systems to return the search results in the moment of search execution. The Live Search always shows the search results corresponding to the current data, making it Live.

The search forms can be different. The simplest one is a **free text search** (FTS). The FTS searches in all Objects, Properties and Contents based on a textual representation of the data.

Advanced Searches are also supported and are used to narrow down the search criteria. The UI for advanced search allows to choose from a drop-down list of possible search criteria and their combinations, but in order to look for more specific properties and combinations, we allow the manual usage of the following syntaxes:

To search based on a Property:

```
[:PropertyName OptionalComparisonOperator SearchOperand]
```

PropertyName is the name of the property as defined in the system.

OptionalComparisonOperator is the comparison operation applying to the Search Operand. If missing, it means "=", else it can be >, <, >=, etc

SearchOperand is the value to compare with and is surrounded by quotation marks.

In the following example

```
[:createdAt < 2021-04-15]
```

It searches all objects created before 15th of April 2021.

Another example is:

```
[:status "Done"]
```

and it finds all objects with property "status" and a value "DONE"

To exclude results from a comparison, you can use NOT in front of the parenthesis.

In the example

```
NOT [:status "Done"]
```

the results will list all of the object which have a property "status" and their value is not "DONE".

You can combine searches on multiple queries using AND, OR and parenthesis () to group.

Here is one example where you can combine criteria and is used to search for TASKS with a STATUS different than DONE:

```
[:types INHERITS "Task"] AND (NOT [:status "Done"])
```

A search query can be saved as a **Search Session**.

Search Sessions are active searches which give notifications for changes in the search results. They can be used to monitor updates of the data. When a constant update on some data change is needed to be monitored, the user can save the search session for better visibility and quicker access.

The search queries can also be used in the Query Containers described here above.

The following example shows how to create a Query Container which will be shown in My Area and will list all tasks created by the current user last week. The following search query is used: `([:types INHERITS "Task"] AND [:creator ME] AND [:createdAt > NOW - 1 WEEK])` :

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Create NewMy AreaOperationsWorkflowsAdministration

Search: ([:types INHERITS "Task"] AND [:creator ME] AND [:createdAt > NOW - 1 WEEK])

Advanced searchSave search

Explorer

Filter results

Folder of Administra...Examples

Categories

No results

Messages

Search Results

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	Title	First Details	Second Details	Types	Created At	User Updated At	
<input checked="" type="checkbox"/>	Collect materials			Task	Nov 15, 2024, 11:10 PM	Nov 15, 2024, 1	
<input checked="" type="checkbox"/>	Do initial setup			Task	Nov 15, 2024, 11:10 PM	Nov 15, 2024, 1	
<input checked="" type="checkbox"/>	Example Single movie (French (France))	🕒 11/20/2024	🔖 New	EC	Advanced Subtitle Suite	Nov 12, 2024, 2:53 PM	Nov 12, 2024, 2

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press **Save Search**, select **Query Container** and name it "My Last Week Tasks":

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Create NewMy AreaOperationsWorkflowsAdministration

My Last Week Tasks (Query Container)

Created by administrator on 11/16/2024, 7:15:24 PM

Explorer

Filter results

Folder of Administra...Examples

Categories

No results

Messages

No results

Search Sessions

No results

Bookmarks

Add Bookmark

My Last Week Tasks (Query Container)

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	Title	First Details	Second Details	Types	Created At	User Updated At	
<input checked="" type="checkbox"/>	Collect materials			Task	Nov 15, 2024, 11:10 PM	Nov 15, 2024, 1	
<input checked="" type="checkbox"/>	Do initial setup			Task	Nov 15, 2024, 11:10 PM	Nov 15, 2024, 1	
<input checked="" type="checkbox"/>	Example Single movie (French (France))	🕒 11/20/2024	🔖 New	EC	Advanced Subtitle Suite	Nov 12, 2024, 2:53 PM	Nov 12, 2024, 2

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You can Edit the so created query container and add **My Area** container to its **Containers** property:

My Last Week Tasks /

Created by administrator on 11/16/2024, 7:18:34 PM

My Last Week Tasks

(Draft-QueryContainer)

Standard edit

Collaborators: administrator

Name *

My Last Week Tasks

Containers

My Area

Filter...

Permissions

[Edit Original Permissions](#)

Icon

Select Icon

Color

Image Icon

Filter...

Query *

Cancel

Save

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After creating, it can be found in My Area Container



CRM



Images



My Audios



My Collaborations



My Contacts



My Documents



My Images



My Last Week Tasks



My Projects



My Purchase Invoices



My Purchase Orders



My Tasks



My Uploads



My Videos



MAM



All Audios



Project
Managem



My Uploa