



**PLATFORM DEEP DIVE / Core components / Core extensions**

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## **PLATFORM DEEP DIVE / Core components / Core extensions / Content management / Using the service**

After you deployed the CMS service in your infrastructure, you can start defining and using custom content types, such as different lists (which can have different values for the same code depending on the external system that is used), blog posts etc.

You can also set the default application name to be used in your configuration. This is needed when retrieving the contents.

```
application:  
  defaultApplication: DEFAULT_APPLICATION_NAME
```

If this configuration is not set, the service will use `flowx` as the default value.

## Define needed Kafka topics

Kafka topic names can be set by using environment variables:

Default parameter (env var)	Default FLOWX.AI val
KAFKA_TOPIC_REQUEST_CONTENT_IN	ai.flowx.dev.plugin.cms.trigger.r
KAFKA_TOPIC_REQUEST_CONTENT_OUT	ai.flowx.dev.engine.receive.plug

### ⚠ CAUTION

The Engine is listening for messages on topics with names of a certain pattern, make sure to use an outgoing topic name that matches the pattern configured in the Engine.

## Example: Request a label by language or source system code

Used to translate custom codes into labels using the specified **language** or a certain **source system**.

Various external systems and integrations might use different labels for the same information. In the processes, it is easier to use the corresponding code and translate this into the needed label when necessary: for example when sending data to other integrations, when generating documents, etc.

You will need to add a **Kafka send event CMS** service.

The following values are expected in the request body:

- at least one of `language` and `sourceSystem` should be defined (if you only need the `sourceSystem` to be translated, you can leave `language` empty and vice versa, but they cannot both be empty)
- a list of `entries` to be translated

Example:

```
{  
  "language": "en-US",  
  "sourceSystem": "CS"  
  "entries": [  
    {  
      "codes": [  
        "ROMANIA",  
        "BAHAMAS"  
      ],  
      "contentDescription": {  
        "name": "country",  
        "application": "flowx",  
        "version": 1,  
      }  
    }  
  ]  
}
```

```
        "draft": true
    }
}
]
}
```

If the value for `application` is not sent, the `defaultApplication` value will be used when retrieving the contents from the database.

`version` and `draft` are not mandatory, if they are not specified, the latest published content will be used.

The service will respond with the following message structure:

```
{
  "entries": [
    {
      "code": "ROMANIA",
      "label": "ROMANIA -en",
      "translatedCode": "ROMANIA-CS"
    },
    {
      "code": "BAHAMAS",
      "label": "BAHAMAS -en",
      "translatedCode": "BAHAMAS-CS"
    }
  ],
  "error": null
}
```

Was this page helpful?

# PLATFORM DEEP DIVE / Core components / Core extensions / Content management / Enumerations

A collection of values that can be utilized as content in UI components or templates is managed using

The fallback content to display on prerendering

- . Values can be defined for certain [source systems](#) or [languages](#).

Name	Version	Draft	Last updated
ActivityDomain...	4	OFF	24 Jun 2022, 5:47 PM
ActivityDomain...	3	OFF	23 Jun 2022, 4:21 PM
ActivityDomain...	4	OFF	24 Jun 2022, 5:47 PM
County	5	OFF	24 Jun 2022, 5:47 PM
Enumeration_...	1	OFF	27 Jun 2022, 1:09 PM

On the main screen inside **Enumerations**, you have the following elements:

- **Name** - the name of the enumeration
- **Version** - the version of the enumeration

- **Draft** - switch button used to control the status of an enumeration, could be **Draft or Published**
- **Last Updated** - the last time an enumeration has been updated
- **Open** - button used to access an enumeration to configure it/ add more values, etc.
- **Delete** - button used to delete an enumeration
- **New enumeration** - button used to create a new enumeration
- **Breadcrumbs >\*\* Import/Export**

For each entry (when you hit the **Open** button) inside an enumeration we have to define the following properties:

- **Code** - not displayed in the end-user interface, but used to assure value uniqueness
- **Labels** - strings that are displayed in the end-user interface, according to the language set for the generated solution
- **External source systems codes** - values that are set for each external system that might consume data from the process; these codes are further used by connectors, in order to send to an external system a value that it can validate

Values for ActivityDomain_Companies						<a href="#">New value</a>
Code	ro	en	de	FLEX	FLOWX	
A	Agricultur...	Agricultur...	-	-	-	<a href="#"></a> <a href="#"></a>
B	Extractiv...	Extractiv...	-	-	-	<a href="#"></a> <a href="#"></a>
C	Industria ...	Manufact...	-	-	-	<a href="#"></a> <a href="#"></a>
D	Productio...	Productio...	-	-	-	<a href="#"></a> <a href="#"></a>

## Adding a new enumeration

To add a new enumeration, follow the next steps:

1. Go to **FLOWX Designer** and select the **Content Management** tab.
2. Select **Enumerations** from the list.
3. Add a suggestive name for your enumeration and then click **Add**.

## Enumerations

N

The screenshot shows a list of enumerations on the left and a central 'Add new enumeration' dialog on the right. The list includes items like 'Activity', 'Activity', 'Activity', 'County', 'Enumeration', 'StatusFATICA\_test', 'Tara\_Test', and 'Test\_Andrei'. The 'Enumeration' item is currently selected, highlighted with a blue background. The 'Add' button is prominently displayed at the bottom of the dialog.

Name	Version	Draft	Last upc
Activity			24 Jun
Activity			23 Jun
Activity			24 Jun
County			24 Jun
Enumeration		Add	27 Jun
StatusFATICA_test	3		24 Jun
Tara_Test	3		24 Jun
Test_Andrei	3		24 Jun

## Configuring an enumeration

After creating an enumeration, you can add values to it.

To configure an enumeration value, follow the next steps:

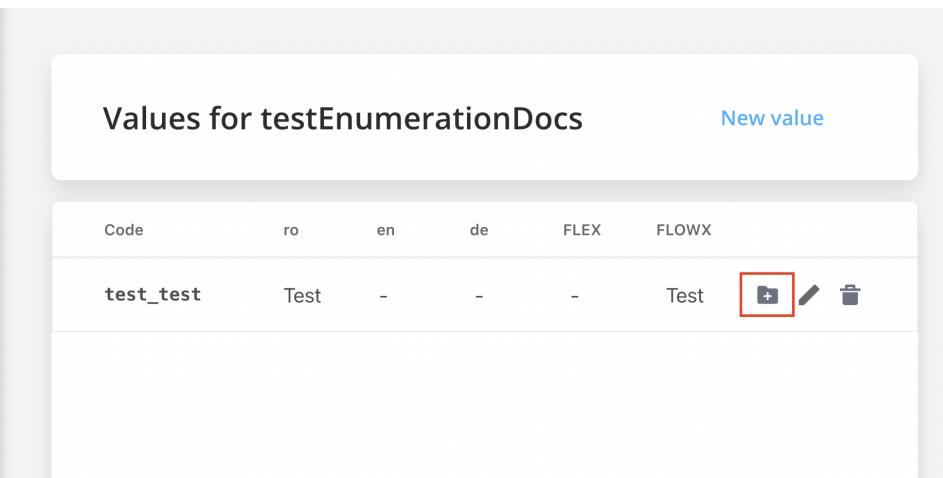
1. Go to FLOWX.AI Designer and select the **Content Management** tab.
2. Select **Enumerations** from the list and open an enumeration.
3. Click **New value** and fill in the necessary details:

- **Code** - as mentioned above, this is not displayed in the end-user interface but is used to assure value uniqueness
- **Labels** - set the value of the string for each language you would like to use
- **Source Systems** - values that are set for each external system that might consume data from the process

Code	ro	en	de	FLEX	FLOWX
test_enumer...	-	-	-	-	-

## Creating a child collection

Enumerations can also be defined as a hierarchy - for each entry, we can define a list of children values (for example, name of the countries defined under the continents' enumeration values); hierarchies further enable cascading values in the end-user interface (for example, after selecting a continent in the first select **UI component**, the second select component will contain only the children of this continent).



Code	ro	en	de	FLEX	FLOWX
test_test	Test	-	-	-	Test

## Importing/exporting an enumeration

You can use the import/export feature to import or export enumerations using the following formats:

- JSON
- CSV

The screenshot shows the FLOWX.AI platform interface. On the left is a sidebar with navigation links: Processes (Definitions, Active process), Content Management (Enumerations, Substitution tags, Content models, Languages, Source systems), Plugins (Task Manager, All tasks, Hooks). The main area is titled 'Enumerations' and lists several entries:

Name	Version	Draft	Last upd	Actions
Activity Domain Companies	4	OFF	24 Jun	» 🗑
Test Enumerations	3	OFF	23 Jun	» 🗑
Example	4	OFF	24 Jun	» 🗑
County	5	OFF	24 Jun 2022, 5:47 PM	» 🗑
Test	3	OFF	24 Jun 2022, 5:47 PM	» 🗑
Test Monthly Income	3	OFF	24 Jun 2022, 5:47 PM	» 🗑
Test Activity Domains	3	OFF	24 Jun 2022, 5:47 PM	» 🗑
Monthly Income	3	OFF	24 Jun 2022, 5:47 PM	» 🗑

A context menu is open over the first entry ('Activity Domain Companies'), showing options: Import (from JSON, from CSV - highlighted with a red box), Export (to JSON, to CSV - also highlighted with a red box).

## Enumerations example

Enumerations, for instance, can be used to build elaborate lists of values (with children). Assuming you wish to add enumerations for **Activity Domain Companies**, you can create children collections by grouping lists and other related domains and activities.

We have the following example for **Activity Domain Companies**:

**Activity Domain Companies → Agriculture forestry and fishing:**

- **Agriculture, hunting, and related services →**

▶ Cultivation of non-perennial plants:

▶ Cultivation of plants from permanent crops:

▶ Animal husbandry:

- **Forestry and logging →**

▶ Forestry and other forestry activities:

▶ Logging:

▶ Collection of non-wood forest products from spontaneous flora:

- **Fisheries and aquaculture →**

▶ Fishing:

▶ Aquaculture:

This is the output after adding all the lists/collections from above:

Enumerations				<a href="#">New enumeration</a>	⋮
Name	Version	Draft	Last updated		
ActivityDomain_Companies	6	<input type="checkbox"/>	27 Jun 2022, 6:00 PM	<a href="#">»</a>	<a href="#">trash</a>
ActivityDomain_Companies-A-01-01	3	<input type="checkbox"/>	23 Jun 2022, 4:21 PM	<a href="#">»</a>	<a href="#">trash</a>
ActivityDomain_Companies-B-05-062	6	<input type="checkbox"/>	27 Jun 2022, 6:00 PM	<a href="#">»</a>	<a href="#">trash</a>
County	7	<input type="checkbox"/>	27 Jun 2022, 6:00 PM	<a href="#">»</a>	<a href="#">trash</a>
Enumeration_Tesy	1	<input type="checkbox"/>	27 Jun 2022, 1:09 PM	<a href="#">»</a>	<a href="#">trash</a>
StatusFATCA_test	5	<input type="checkbox"/>	27 Jun 2022, 6:00 PM	<a href="#">»</a>	<a href="#">trash</a>
Tara_Test	5	<input type="checkbox"/>	27 Jun 2022, 6:00 PM	<a href="#">»</a>	<a href="#">trash</a>
Test_Andrei	5	<input type="checkbox"/>	27 Jun 2022, 6:00 PM	<a href="#">»</a>	<a href="#">trash</a>
VenitLunar_test	5	<input type="checkbox"/>	27 Jun 2022, 6:00 PM	<a href="#">»</a>	<a href="#">trash</a>

Was this page helpful?

# PLATFORM DEEP DIVE / Core components / Core extensions / Content management / Substitution tags

Substitution tags are used to generate dynamic content across the platform. As

The fallback content to display on prerendering

, substitution tags can be defined for each language set for the solution.

Key	ro-RO	en-US	ro	en	fr	de	New value	⋮
emptyState	-	-	Per...	Th...	-	-		
firstName	-	-	Pre...	Fir...	-	-		
openAccount	-	-	De...	Op...	-	-		
openPersonal	-	-	De...	Op...	-	-		
searchAfter	-	-	Ca...	Se...	-	-		
openPf	-	-	De...	Op...	-	-		
res	-	-	Re...	Re...	-	-		

On the main screen inside **Substitution tags**, you have the following elements:

- **Key**
- **Values** - strings that are used in the end-user interface, according to the **language** set for the generated solution
- **Edit** - button used to edit substitution tags
- **Delete** - button used to delete substitution tags
- **New value** - button used to add a new substitution tag
- **Breadcrumbs menu:**
  - **Import**
    - from JSON
    - from CSV
  - **Export**
    - to JSON

- to CSV
- **Search by** - search function used to easily look for a particular substitution tag

## Adding new substitution tags

To add a new substitution tag, follow the next steps.

1. Go to  
The fallback content to display on prerendering  
and select the **Content Management** tab.
2. Select **Substitution tags** from the list.
3. Click **New value**.
4. Fill in the necessary details:
  - Key
  - Languages
5. Click **Add** after you finish.

Sub

## Add new substitution tag<sup>x</sup>

Key

 Key

first

Languages

ro :

open

en :

sear

de :

rezu

sear

### ⚠ CAUTION

When working with substitution tags or other elements that imply values from other languages defined in the CMS, when running a

The fallback content to display on prerendering

, the default values extracted will be the ones marked by the default language.

## Getting a substitution tag by key

```
public func getTag(forKey key: String) -> String?
```

All substitution tags will be retrieved by the **SDK** before starting the first process and will be stored in memory.

Whenever the container app needs a substitution tag value for populating the UI of the custom components, it can request the substitution tag using the method above, providing the key.

For example, substitution tags can be used to localize the content inside an application.

## Example

### Localizing the app



You must first check and configure the FLOWX.AI Angular renderer to be able to replicate this example. Click [here](#) for more information.

The `flxLocalize` pipe is found in the `FlxLocalizationModule`.

```
import { FlxLocalizationModule } from 'flowx-process-renderer';
```

```
import { Component } from '@angular/core';

@Component({
  selector: 'app-dummy-component',
  template: `<h3>{{ "stringToLocalize" | flxLocalize}}</h3>`,
})

export class DummyComponent{
  stringToLocalize: string = `@@localizedString`
}
```

Strings that need to be localized must have the ' {@@}' prefix which the **flxLocalize** pipe uses to extract and replace the string with a value found in the substitution tags enumeration.

Substitution tags are retrieved when a start process call is first made, and it's cached on subsequent start process calls.

Was this page helpful?

# PLATFORM DEEP DIVE / Core components / Core extensions /

# Content management / Content models

Content models are used to create complex content collections using customizable pieces of content. For example, you can define content models for an article that will be displayed on a page, creating customizable content.

The screenshot shows the FLOWX.AI platform interface. On the left, there is a sidebar with the following navigation items:

- Processes
  - Definitions
  - Active process
- Content Management
  - Enumerations
  - Substitution tags
  - Content models** (this item is highlighted in blue)
  - Languages
  - Source systems

The main content area is titled "Content Models" and contains a table with three rows of content models. The table has columns for "Model name", "Edited at", and "Edited by". Each row includes edit and view icons.

Model name	Edited at	Edited by
Links	-	-
article	-	-
test_doc	-	-

On the main screen inside **Content models**, you have the following elements:

- **Model name** - the name of the content model
- **Edited at**
- **Edited by**
- **Edit** - button used to edit a content model
- **View process** - click **View process** to open a content model and see its attributes

- **Export/ Delete (Breadcrumbs menu)** - use the breadcrumbs to access the **Export** and **Delete** functions
- **New content model** - button used to add a new content model

For each entry (when you hit the **Open** button) inside an enumeration we have to define the following properties:

- **Language**
- **Name**
- **Attributes (depending on what you add as attributes)**

## Configuring attributes

Attributes that can be added to a content model can have the following values:

- **String**
- **Number**
- **Boolean**

Also, attributes can be either **Mandatory** or **Optional**

## Adding new content models

To add a new content model, follow the next steps:

1. Go to **FLOWX Designer** and select the **Content Management** tab.
2. Select **Content models** from the list.
3. Click **New content model**.
4. Add a suggestive name for your content model.

5. Fill in the following details:

- **Name** (mandatory)
- **Attributes:**
  - **Name** - add a name for the attribute
  - **Type** - String, Number or Boolean
  - **Mandatory** - mark an Attribute as mandatory
  - **Actions** - add or remove

The screenshot shows a user interface for managing content model attributes. At the top, there's a 'General settings' section with a 'Name' input field. Below it is a 'Attributes' section with a table header: Name, Type, Mandatory, Actions. A row is being edited, showing 'Property name' in the Name field, 'String' in the Type field (which is currently selected), and checked checkboxes for Mandatory and Actions. A small 'x' icon is also present in the Actions column. A dropdown menu is open over the 'Type' field, listing 'String', 'Number', and 'Boolean'. At the bottom left is a 'Close' button, and at the bottom right is a large blue 'Save' button.

## Editing content models

To configure an entry inside a content model, follow the next steps:

1. Go to **FLOWX Designer** and select the **Content Management** tab.
2. Select **Content models** from the list and select a content model.

3. Click **View process** and then click **Open**.

4. Click **Edit** to modify the values.

The screenshot shows the FLOWX.AI platform interface. On the left, there is a sidebar with the following navigation items:

- Processes
  - Definitions
  - Active process
- Content Management
  - Enumerations
  - Substitution tags
  - Content models**
- Languages
- Source systems

Below the sidebar, the main content area has a title "Content Models" and a "New content model" button. It displays a table with three rows of content models:

Model name	Edited at	Edited by	Actions
Links	-	-	
article	-	-	
test_docs	-	-	

Was this page helpful?

# PLATFORM DEEP DIVE / Core components / Core extensions / Content management / Languages

The FLOWX Headless CMS can store and manage languages. You can add a language and use it in almost any content management configuration.

Code	Name	Default
ro	Romanian	no
en	English	yes
de	German	no

On the main screen inside **Languages**, you have the following elements:

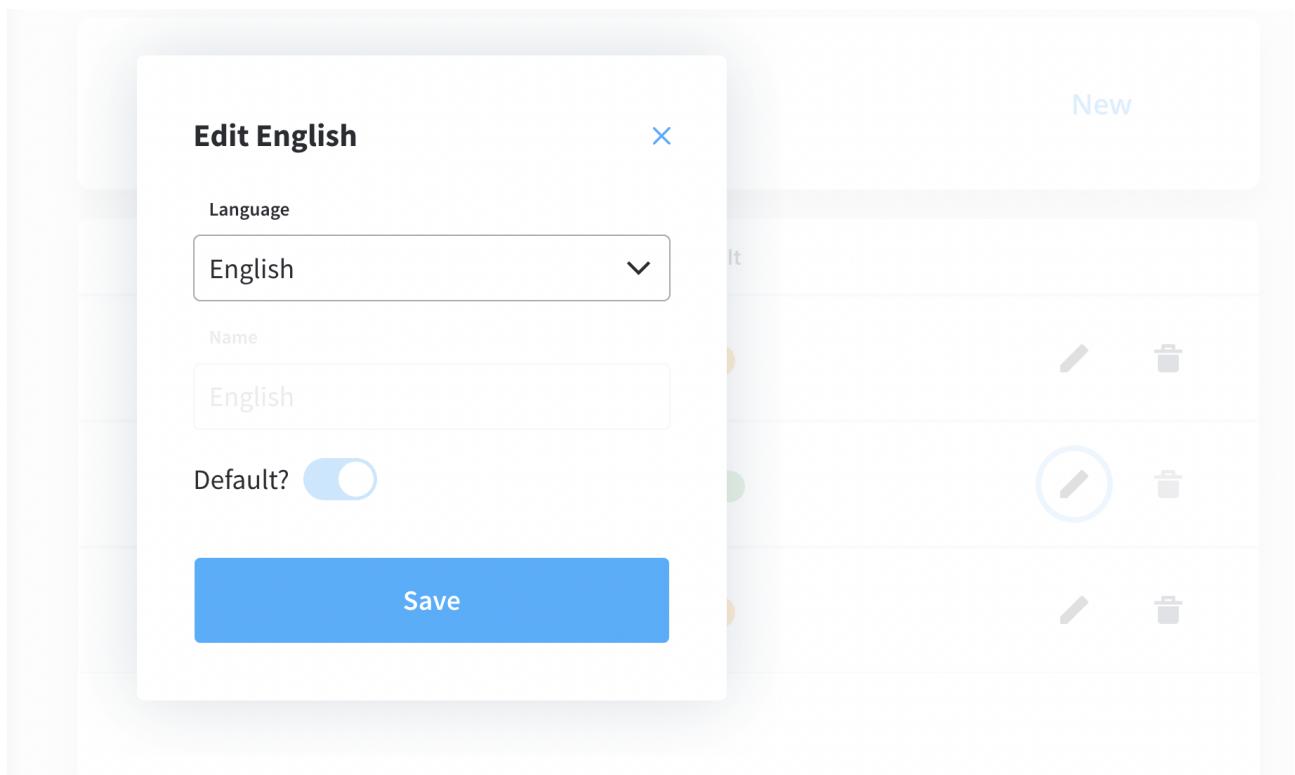
- **Code** - not displayed in the end-user interface, but used to assure value uniqueness
- **Name** - the name of the language
- **Default** - you can set a language as **Default** (default values can't be deleted)

### ⚠ CAUTION

When working with substitution tags or other elements that imply values from other languages defined in the CMS, when running a process, the default values extracted will be the ones marked by the default language.

en	English	yes	 
de	German	no	  Can't delete default value

- **Edit** - button used to edit a language



- **Delete** - button used to delete a language

### 🔥 DANGER

Before deleting a language make sure that this is not used in any content management configuration.

- **New** - button used to add a new language

## Adding a new language

To add a new language, follow the next steps:

1. Go to  
The fallback content to display on prerendering  
and select the **Content Management** tab.
2. Select **Languages** from the list.
3. Choose a new **language** from the list.
4. Click **Add** after you finish.

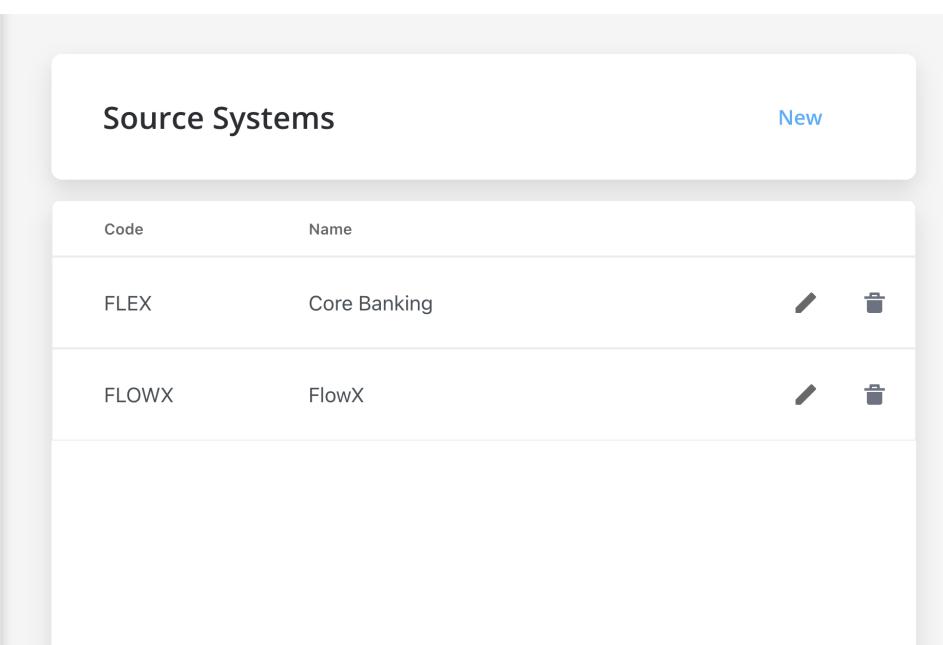
Code	Name	Default	Action
ro	Romanian	no	
en	English	yes	
de	German	no	

Was this page helpful?

# PLATFORM DEEP DIVE / Core components / Core extensions / Content management / Source systems

If multiple

The fallback content to display on prerendering values are needed to communicate with other systems, source systems can be used.



The screenshot shows the FLOWX.AI interface with a sidebar on the left containing navigation links for Processes, Content Management (with sub-links for Definitions, Active process, Enumerations, Substitution tags, Content models, Languages, and Source systems), and a footer link for Help. The main content area is titled 'Source Systems' and contains a table with two rows:

Code	Name	Action
FLEX	Core Banking	
FLOWX	FlowX	

On the main screen inside **Source systems**, you have the following elements:

- **Code** - not displayed in the end-user interface, but used to assure value uniqueness

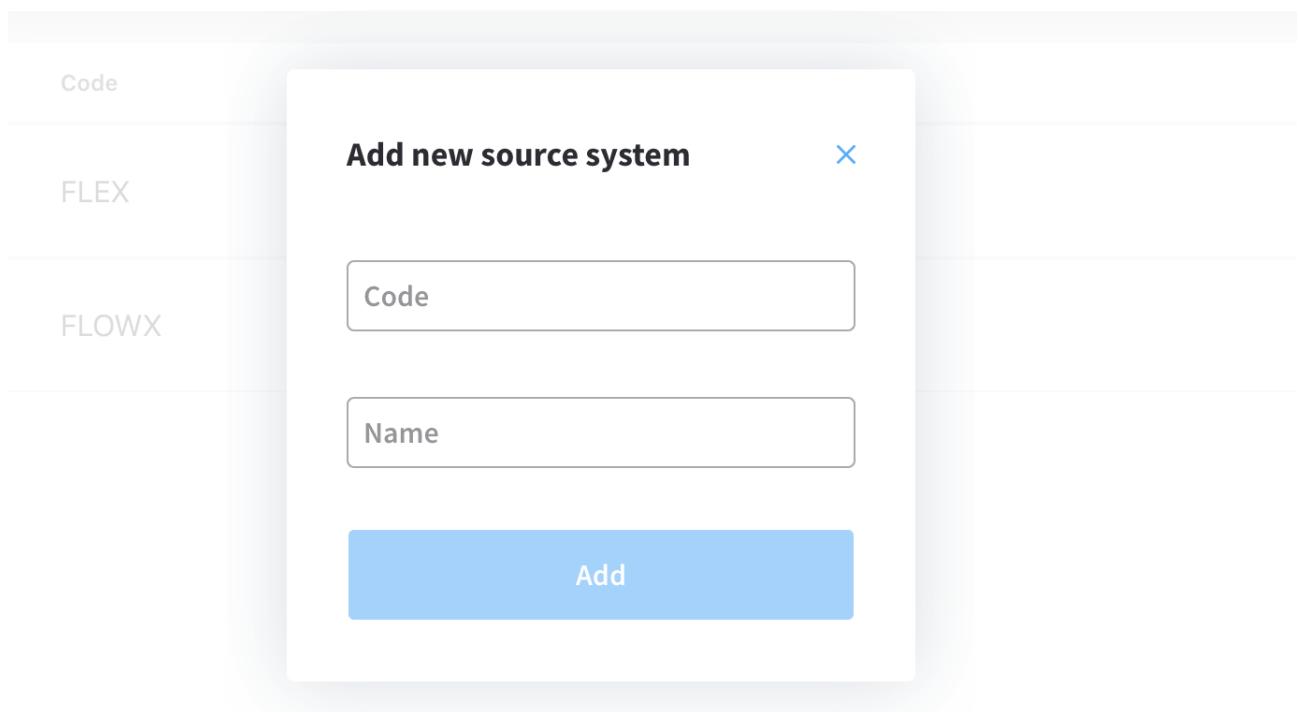
- **Name** - the name of the source system
- **Edit** - button used to edit a source system
- **Delete** - button used to delete a source system
- **New** - button used to add a new source system

## Adding new source systems

To add a new source system, follow the next steps.

1. Go to  
The fallback content to display on prerendering  
and select the **Content Management** tab.
2. Select **Source systems** from the list.
3. Fill in the necessary details:
  - Code
  - Name
4. Click **Add** after you finish.

## Source Systems



Was this page helpful?

**PLATFORM DEEP DIVE / Core  
components / Core extensions /  
Content management / Media library**

The media library serves as a centralized hub for managing and organizing various types of media files, including images, GIFs, and more. It encompasses all the files that have been uploaded to the

The fallback content to display on prerendering , providing a convenient location to view, organize, and upload new media files.

The screenshot shows the FLOWX.AI platform's sidebar navigation on the left and the Media library interface on the right. The sidebar includes sections for Processes, Content Management (with sub-options like Enumerations, Substitution tags, Content models, Languages, Source systems, and Media Library), Plugins, and User profile (John Doe). The Media library interface has a header with a search bar and a 'New item' button. Below is a table listing media files:

Preview	Key	Format	Size	Edited at	Edited by
	silviu	webp	0.51 MB	04 Oct 2022, 11:29 AM	John Doe
	teamwork	png	0.1 MB	04 Oct 2022, 9:24 AM	John Doe
	dodge-challenger	jpeg	0.19 MB	04 Oct 2022, 9:24 AM	John Doe
	viper_2	jpeg	0.82 MB	04 Oct 2022, 9:24 AM	John Doe
	dodge viper	jpeg	0.05 MB	04 Oct 2022, 9:24 AM	John Doe
	impala	gif	0.74 MB	04 Oct 2022, 9:24 AM	Jane Doe
	lamborghini	png	0.68 MB	04 Oct 2022, 9:24 AM	John Doe

### !(INFO)

You can also upload an image directly to the Media Library on the spot when configuring a process using the **UI Designer**. More information [here](#).

## Uploading a new asset

To upload an asset to the Media Library, follow the next steps:

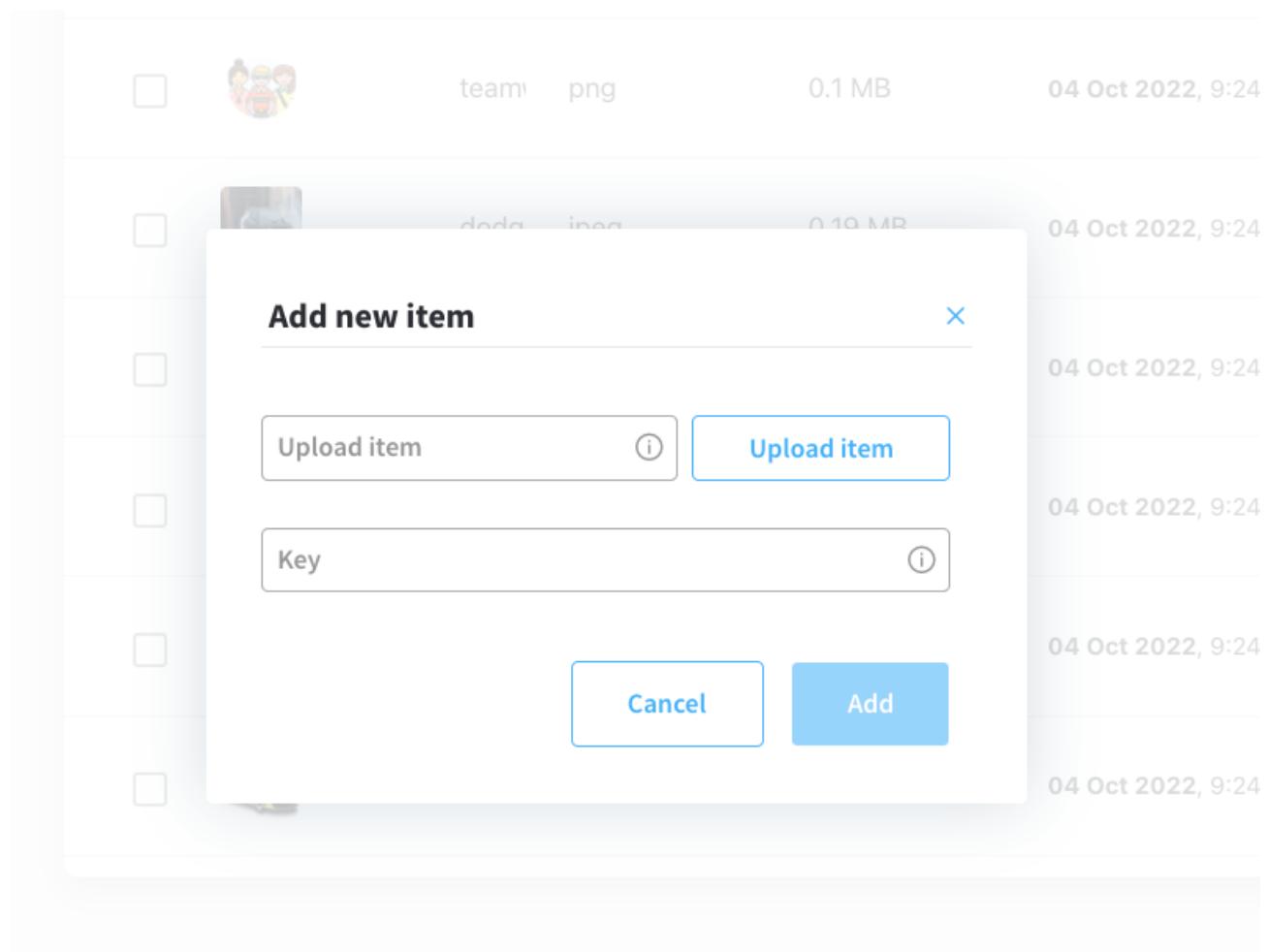
1. Open

The fallback content to display on prerendering

2. Go to **Content Management** tab and select **Media Library**.

3. Click **Add new item**, the following details will be displayed:

- **Upload item** - opens a local file browser
- **Key** - the key must be unique, you cannot change it afterwards



4. Click **Upload item** button and select a file from your local browser.
5. Click **Upload item** button again to upload the asset.

 **CAUTION**

Supported formats: PNG, JPEG, JPG, GIF, SVG or WebP format, 1 MB maximum size.

## Displaying assets

Users can preview all the uploaded assets just by accessing the **Media Library**.

You have the following information about assets:

- Preview (thumbnail 48x48)
- Key
- Format ("-" for unknown format)
- Size
- Edited at
- Edited by

Media library						
	Preview	Key	Format	Size	Edited at	Edited by
<input type="checkbox"/>		silviu	webp	0.51 MB	04 Oct 2022, 11:29 AM	John Doe
<input type="checkbox"/>		teamwork	png	0.1 MB	04 Oct 2022, 9:24 AM	John Doe
<input type="checkbox"/>		dodge-challenger	jpeg	0.19 MB	04 Oct 2022, 9:24 AM	John Doe
<input type="checkbox"/>		viper_2	jpeg	0.82 MB	04 Oct 2022, 9:24 AM	John Doe
<input type="checkbox"/>		dodge viper	jpeg	0.05 MB	04 Oct 2022, 9:24 AM	John Doe
<input type="checkbox"/>		impala	gif	0.74 MB	04 Oct 2022, 9:24 AM	John Doe
<input type="checkbox"/>		lamborghini	png	0.68 MB	04 Oct 2022, 9:24 AM	John Doe

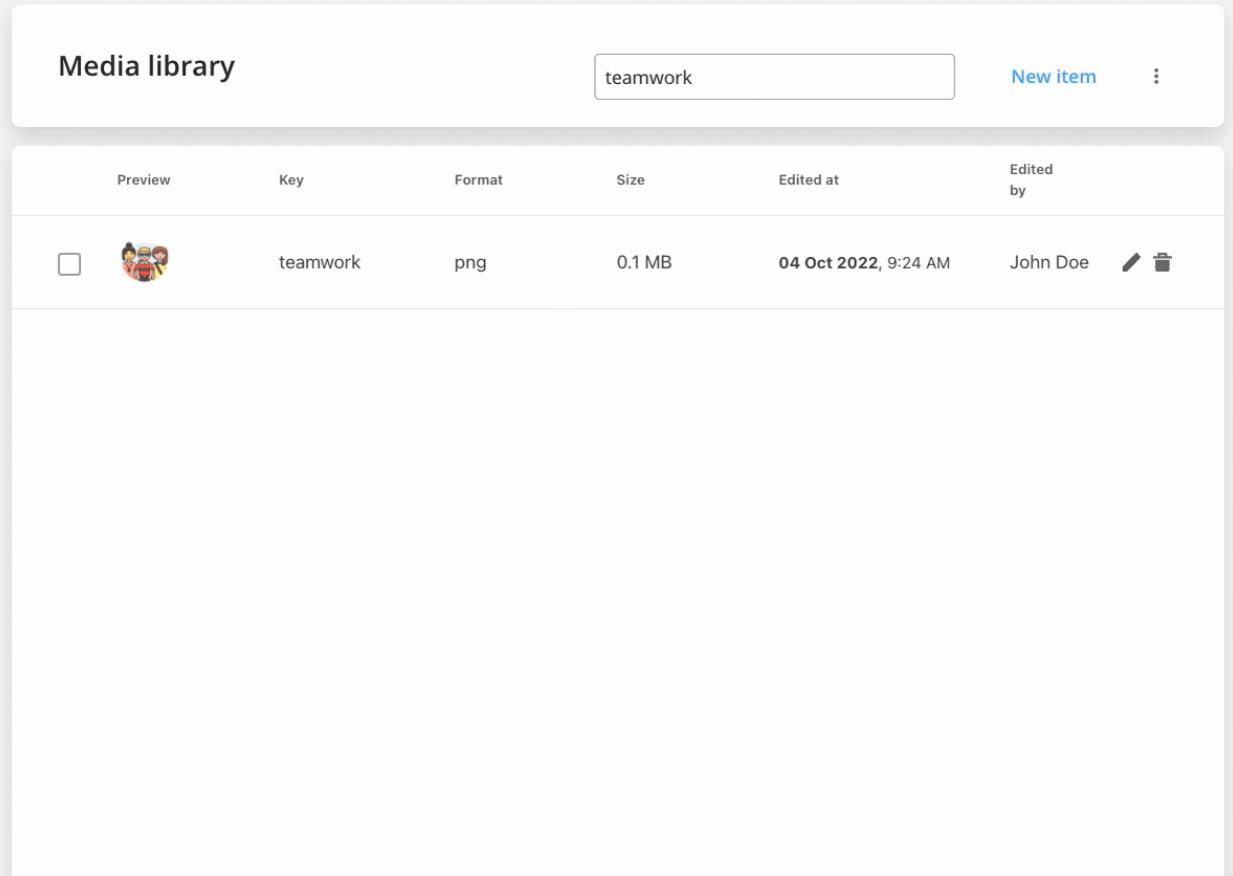
## Searching assets

You can search an asset by using its key (full or substring).

Media library						
	Preview	Key	Format	Size	Edited at	Edited by
<input type="checkbox"/>		teamwork	png	0.1 MB	04 Oct 2022, 9:24 AM	John Doe

## Replacing assets

You can replace an item on a specific key (this will not break references to process definitions).



The screenshot shows a 'Media library' interface. At the top, there is a search bar containing the text 'teamwork' and a 'New item' button. Below the search bar is a table header with columns: Preview, Key, Format, Size, Edited at, and Edited by. A single item is listed in the table:

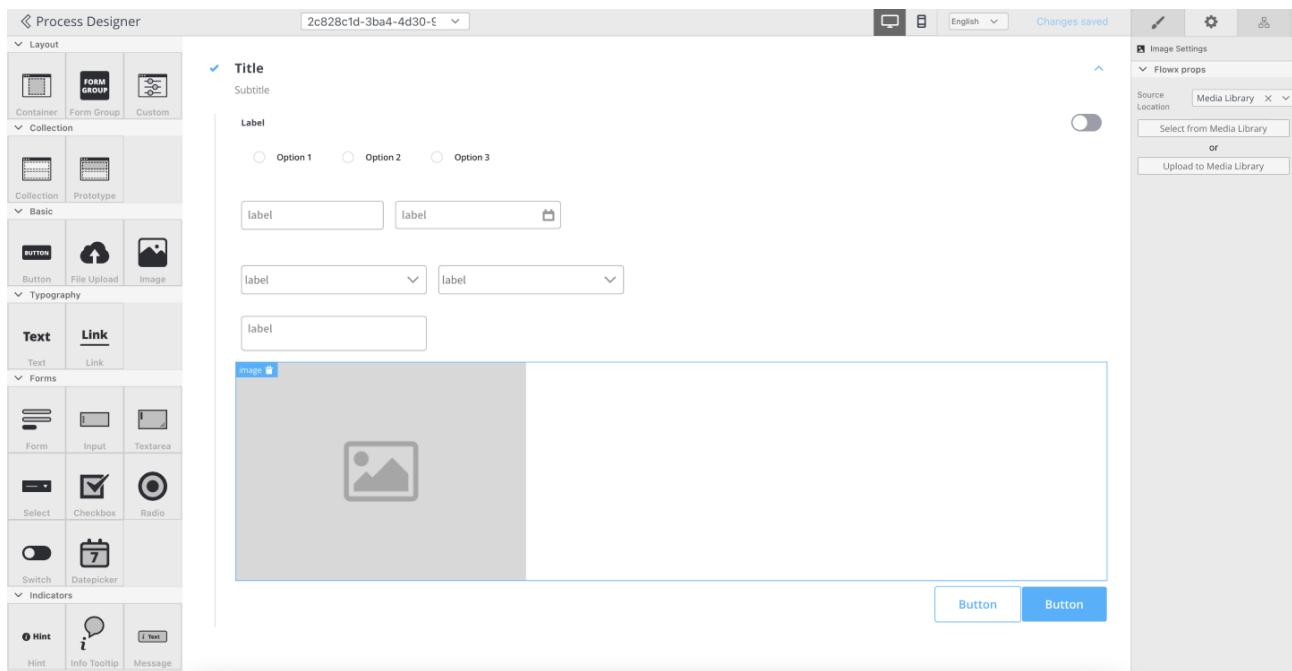
Preview	Key	Format	Size	Edited at	Edited by
<input type="checkbox"/> 	teamwork	png	0.1 MB	04 Oct 2022, 9:24 AM	John Doe  

## Referencing assets in UI Designer

You have the following options when configuring image components using **UI Designer**:

- Source Location - here you must select **Media Library** as source location
- Image Key

- **Option 1:** trigger a dropdown with images keys - you can type and filter options or can select from the initial list in dropdown
- **Option 2:** open a popup with images thumbnails and keys then you can type and filter options or can select from the initial list

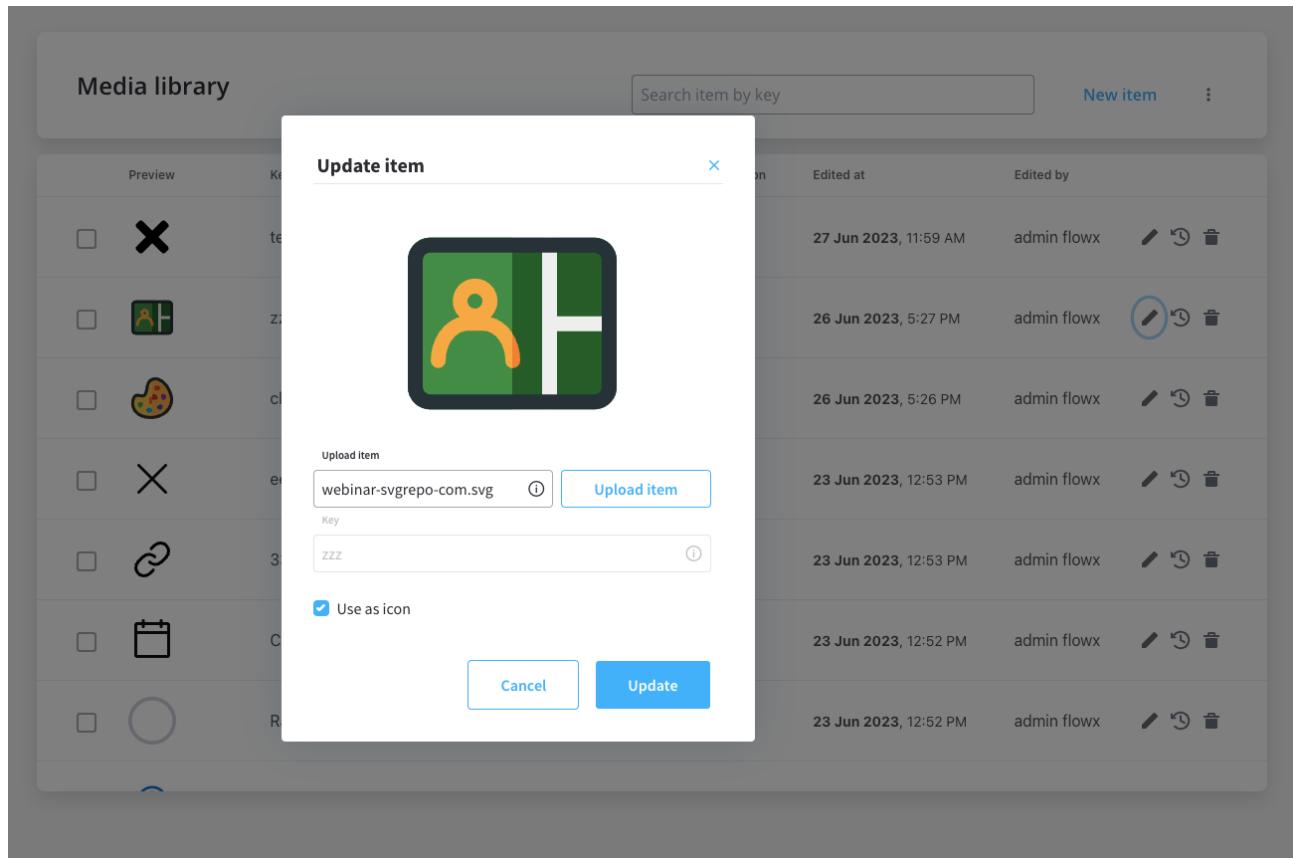


### !(INFO)

More details on how to configure an image component using UI Designer - [here](#).

## Icons

The Icons feature allows you to personalize the icons used in UI elements. By uploading SVG files through the Media Library and marking them, you can choose icons from the available list in the UI Designer.



### !(info)

When selecting icons in the UI Designer, only SVG files marked as icons in the Media Library will be displayed.

### !(info)

To ensure optimal visual rendering and alignment within your UI elements, it is recommended to use icons with small sizes such as: 16px, 24px, 32px.

Using icons specifically designed for these sizes helps maintain consistency and ensures a visually pleasing user interface. It is advisable to select icons

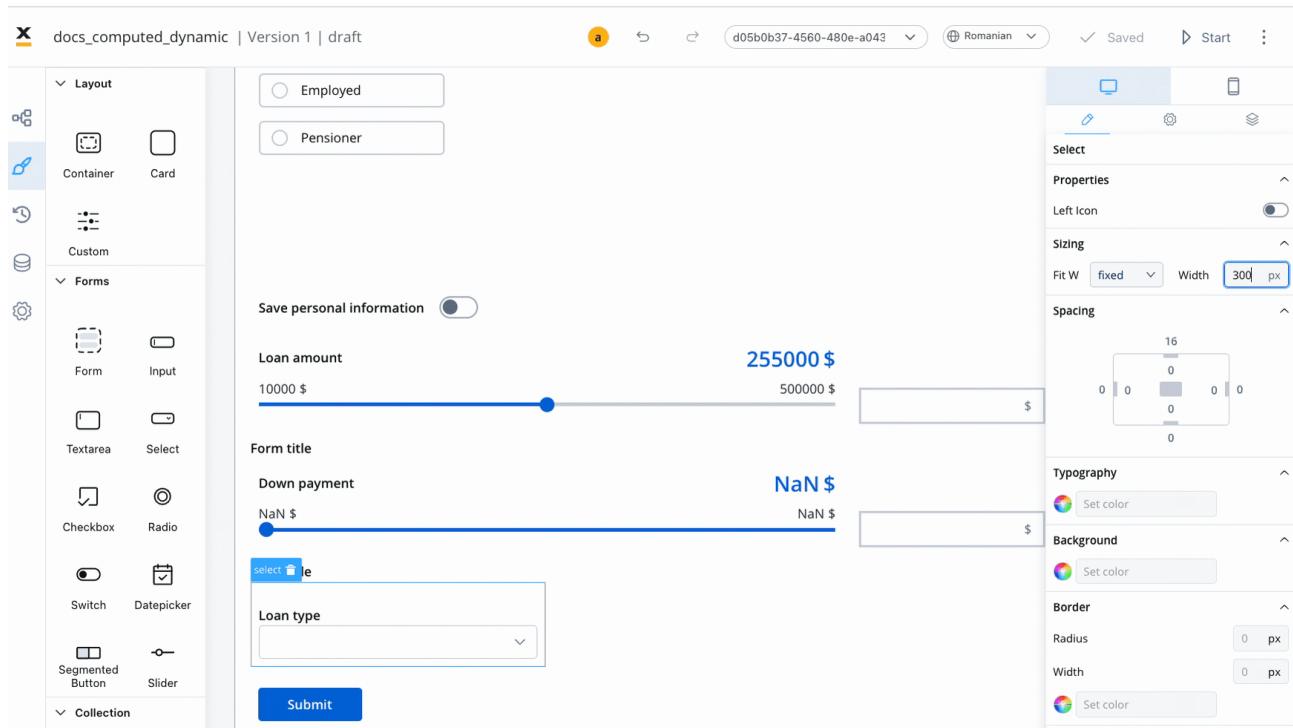
from icon sets that provide these size options or to resize icons proportionally to fit within these dimensions.

### ⚠ CAUTION

Icons are displayed or rendered at their original, inherent size.

## Customization

Content-specific icons pertain to the content of UI elements, such as icons for **input fields** or **send message buttons**. These icons are readily accessible in the **UI Designer**.



More details on how to add icons on each element, check the sections below:

» Input element

» Select element

» Buttons

## Export/import media assets

The import/export feature allows you to import or export media assets, enabling easy transfer and management of supported types of media files.

## Import media assets

Use this function to import media assets of various supported types. It provides a convenient way to bring in images, videos, or other media resources.

## Export all

Use this function to export all media assets stored in your application or system. The exported data will be in JSON format, allowing for easy sharing, backup, or migration of the media assets.

The exported JSON structure will resemble the following example:

```
{  
  "images": [  
    {  
      "key": "cart",  
      "application": "flowx",  
      "filename": "maxresdefault.jpg",  
      "format": "jpeg",  
      "contentType": "image/jpeg",  
      "size": 39593,  
      "storagePath":  
        "https://d22tnnndi9lo60.cloudfront.net/devmain/flowx/cart/1681951553544_maxresdefault.jpg",  
      "thumbnailStoragePath":  
        "https://d22tnnndi9lo60.cloudfront.net/devmain/flowx/cart/1681951553544_maxresdefault.jpg",  
    },  
    {  
      "key": "pizza",  
      "application": "flowx",  
      "filename": "pizza.jpeg",  
      "format": "jpeg",  
      "contentType": "image/jpeg",  
      "size": 22845,  
      "storagePath":  
        "https://d22tnnndi9lo60.cloudfront.net/devmain/flowx/pizza/1681951553544_pizza.jpeg",  
      "thumbnailStoragePath":  
        "https://d22tnnndi9lo60.cloudfront.net/devmain/flowx/pizza/1681951553544_pizza.jpeg",  
    }  
  ],  
  "exportVersion": 1  
}
```

- `images` - is an array that contains multiple objects, each representing an image
- `exportVersion` - represents the version number of the exported data, it holds the image-related information
- `key` - represents a unique identifier or name for the image, it helps identify and differentiate images within the context of the application
- `application` - specifies the name or identifier of the application associated with the image, it indicates which application or system the image is related to
- `filename` - the name of the file for the image, it represents the original filename of the image file
- `format` - a string property that specifies the format or file extension of the image
- `contentType` - the MIME type or content type of the image, it specifies the type of data contained within the image file
- `size` - represents the size of the image file in bytes, it indicates the file's storage size on a disk or in a data storage system
- `storagePath` - the URL or path to the location where the original image file is stored, it points to the location from where the image can be accessed or retrieved
- `thumbnailStoragePath` - the URL or path to the location where a thumbnail version of the image is stored, it points to the location from where the thumbnail image can be accessed or retrieved

**Was this page helpful?**

# PLATFORM DEEP DIVE / Core components / Core extensions / Generic parameters

Generic parameters are variables or settings that are used to control the behavior of a software application or system. These parameters are designed to be flexible and adaptable, allowing users to customize the software to their specific needs.

Through the

The fallback content to display on prerendering , you can create, edit, import, or export these generic parameters. You can also assign the relevant environment(s) to these parameters, ensuring they are applied exactly where they are needed.

## Why do you need generic parameters?

Generic parameters can be defined and used in many scenarios. Here are a few examples of useful generic parameters:

Parameter	Description
baseURL	This parameter can be used to define the base URL of an API or website, which can be utilized across multiple environments

Parameter	Description
redirectURL	This parameter can be used to define the URL to which a user should be redirected after completing a certain action or process. This can save time and effort by avoiding the need to hardcode multiple redirect URLs.
envFilePath	This parameter can be used to define the path of the environment file that stores a document uploaded

To add a new generic parameter, follow the next steps:

1. Go to **FLOWX Designer** and select the **General Settings** tab.
2. Select **Generic Parameters** from the list.
3. Click **New parameter**.
4. Fill in the details.
5. Click **Save**.

The screenshot shows the FLOWX.AI platform interface. On the left, there is a sidebar with the following navigation items:

- Processes
  - Definitions
  - Active process
  - Process Instances
  - Failed process start
- Content Management
  - Enumerations
  - Substitution tags
  - Content models
  - Languages
  - Source systems
  - Media Library
- Plugins
  - Task Manager
    - All tasks
    - Hooks
    - Stages
    - Allocation rules
    - Out of office
    - Notification templates

At the bottom of the sidebar, there is a user icon labeled "Admin Flowx" and a three-dot menu icon.

The main content area is titled "Process Definitions". It has two sections: "Drafts / In progress" and "Published".

**Drafts / In progress:**

Name	Version	Edited at	Edited by	Actions
AutoTestProcess1696192664	1	25 Apr 2023, 4:58 PM	QA FlowX	
AutoTestProcess1282736047	1	25 Apr 2023, 4:57 PM	QA FlowX	
AutoTestProcess669813295	1	25 Apr 2023, 4:55 PM	QA FlowX	
AutoTestProcess-1286546183	1	25 Apr 2023, 4:53 PM	QA FlowX	

**Published:**

Name	Version	Published at	Published by	Actions
test_child_4	1	25 Apr 2023, 1:09 PM	Silviu Grigore	
test_child_3	1	25 Apr 2023, 1:09 PM	Silviu Grigore	
test_child_2	1	25 Apr 2023, 1:09 PM	Silviu Grigore	
test_child_1_bis	1	25 Apr 2023, 1:09 PM	Silviu Grigore	

## Configuring a generic parameter

To configure a generic parameter you need to fill in the following details:

- **Key** - the key that will be used in a process to call the generic parameter
- **Value** - the value that will replace the key depending on the defined parameters
- **Environment** - set the environment where you want to use the generic parameter ( ! leave empty to apply to all environments)
- **Add a new value** - to add a new value for the same key but for a different environment

**INFO**

For example, if you want to set a `baseUrl` generic parameter (the URL will be different, depending on the environment).

The screenshot shows the Flowx AI platform's configuration interface. On the left, there is a sidebar with various settings like General Settings (expanded, showing Generic Parameters), Integration management, Licensing, Access management, Users, Roles, Groups, Audit Log, and Platform status. At the bottom left of the sidebar is a button labeled 'Admin Flowx' with a yellow icon. The main area displays a list of generic parameters:

Key	Value	Scope	Action
imagePlaceholder	https://autoartmodels.de/wp-content/uploads/2020/04/71731w-scaled.jpg	all	edit delete
baseUrl	https://designer.qa.flowxai.dev/	qa	edit delete
	https://designer.dev3.flowxai.dev/	dev3	edit delete
	https://designer.staging.flowxai.dev	staging	edit delete
	https://designer.demo.flowxai.dev/	demo	edit delete
envfilePath	https://admin.devmain.flowxai.dev/document/	devmain	edit delete
	https://admin.qa.flowxai.dev/document/	qa	edit delete
	https://admin.demo.flowxai.dev/document/	demo	edit delete
test_key	test_DEV	dev	edit delete
	test_QA	qa	edit delete

## Using generic parameters

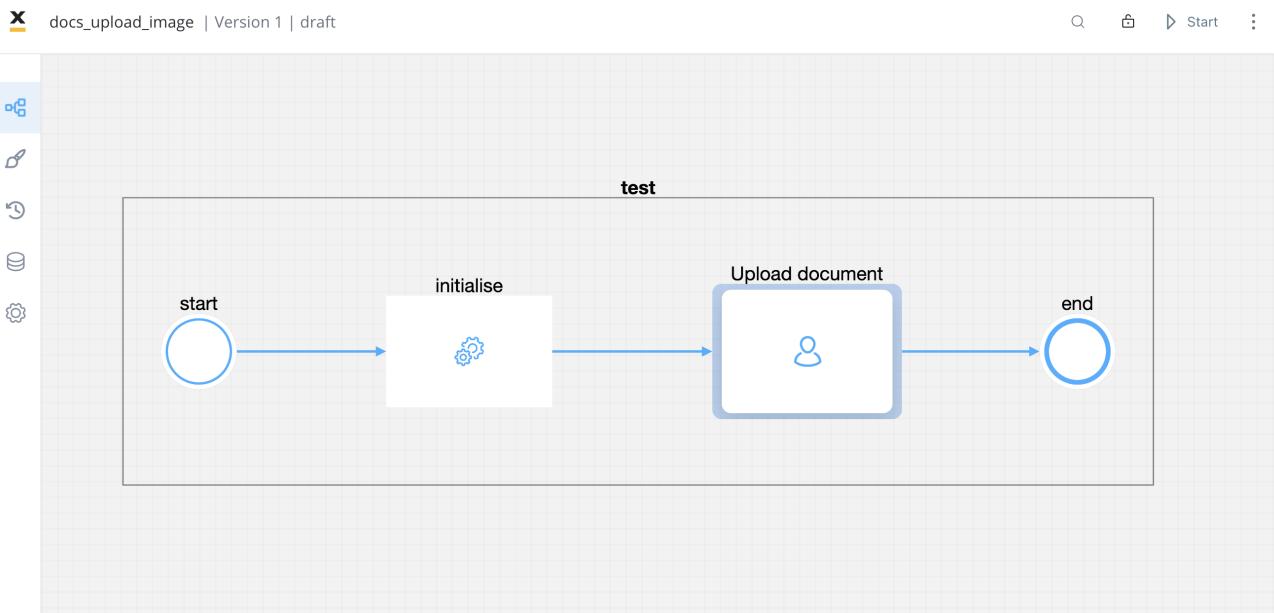
### Use case

Imagine that you need to create a process in which you need to upload an image or a document. We will define a generic parameter called `envfilePath` that will represent the path where the document/image will be uploaded.

baseUrl	https://designer.dev3.flowxai.dev/	dev3	
	https://designer.demo.flowxai.dev/	demo	
	https://designer.qa.flowxai.dev/	qa	
	https://designer.staging.flowxai.dev	staging	
envfilePath	https://admin.devmain.flowxai.dev/document/	devmain	
	https://admin.qa.flowxai.dev/document/	qa	
	https://admin.demo.flowxai.dev/document/	demo	

The minimum requirement to build an upload doc/image process:

- a start node
- a task node
- a user task node
- an end node



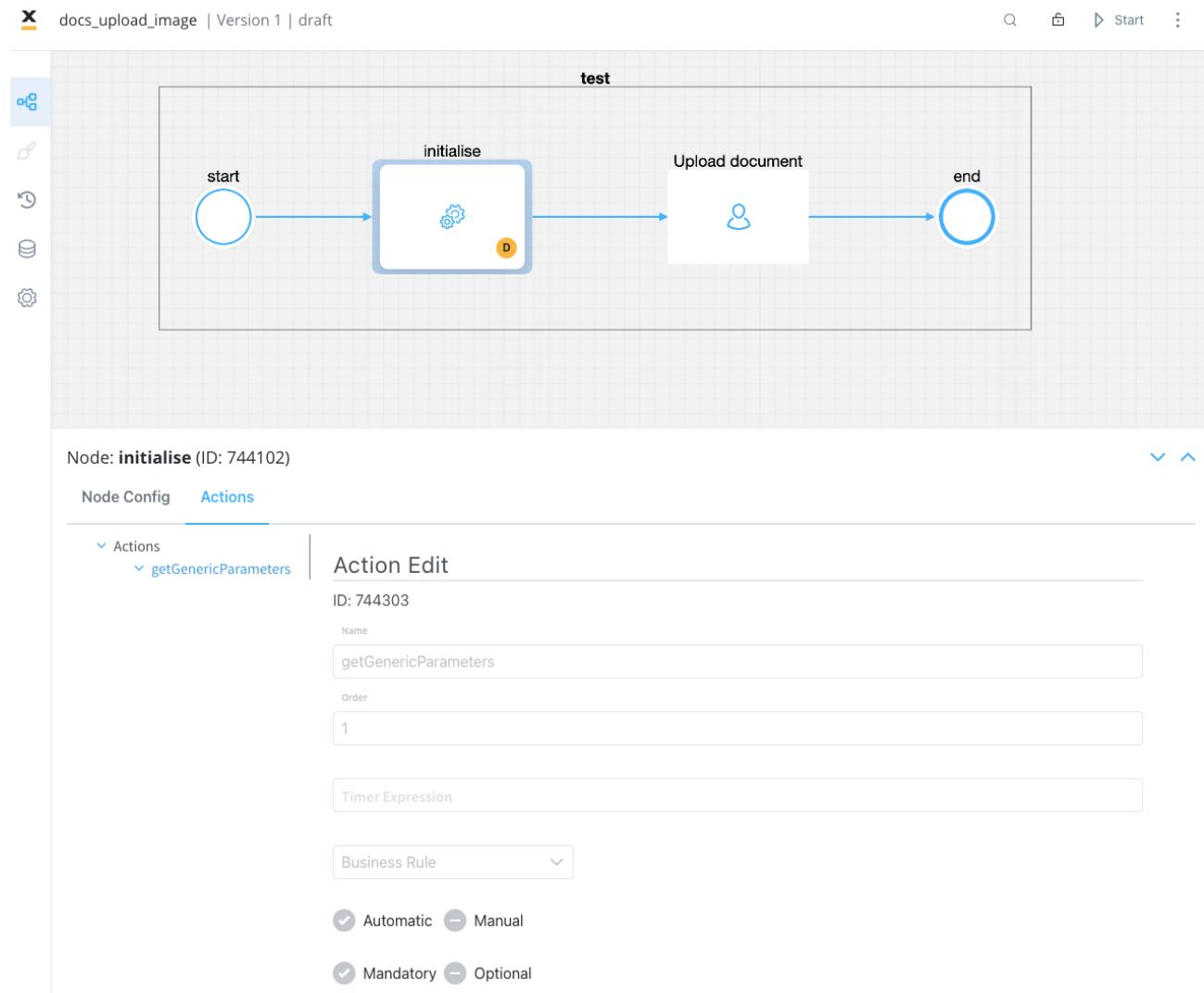
## Configuring the task node

Set a

The fallback content to display on prerendering action on the task node with the following properties:

### Action Edit

- **Name** - used internally to make a distinction between different actions on nodes in the process - example `getGenericParameters`
- **Order** - if multiple actions are defined on the same node, the running order should be set using this option
- **Action type** - should be set to **Business Rule**
- **Trigger type** - Automatic - choose if this action should be triggered automatically (when the process flow reaches this step)
- **Required type** - automatic actions can only be defined as mandatory



## Parameters

- **Language** - we will choose **MVEL** for this business rule example

» MVEL details here

- **Message body** - MVEL expression

```
output.put("envfilePath",
additionalData.applicationConfiguration.get("envfilePath"));
```

## Parameters

## Business Rules

▼ Rule 1 trash

Language

MVEL

Test Rule

```
1 output.put("envfilePath", additionalData.applicationConfiguration.get("envfilePath"));
```

This MVEL business rule assigns a value to a key, `envFilePath` (our defined generic parameter) in the "output" map object. The value assigned to the key is retrieved from another object, `additionalData.applicationConfiguration`, using the "get" method and passing the key `envFilePath` as the parameter.

In other words, this rule extracts the value of the `envFilePath` generic parameter from the `additionalData.applicationConfiguration` object and assigns it to the `envFilePath` key in the "output" map object.

It is important to note that the `additionalData.applicationConfiguration` object and the "output" map object must be previously defined and accessible in the current context for this rule to work.

## Configuring the user task node

On this node we will define the following:

- an Upload File action with two child actions:
  - a Business Rule
  - a Send data to user interface action

### ! INFO

Child actions can be marked as callbacks to be run after a reply from an external system is received. They will need to be set when defining the interaction with the external system (the Kafka send action).

For example, a callback function might be used to handle a user's interaction with a web page, such as upload a file. When the user performs the action, the callback function is executed, allowing the web application to respond appropriately.

## Configuring Upload file action

Set an Upload file action on the task node with the following properties:

### Action Edit

- **Name** - *uploadDocument*

- **Order** - if multiple actions are defined on the same node, the running order should be set using this option
- **Action type** - should be set to **Upload File**
- **Trigger type** - manually (triggered by the user)
- **Required type** - optional
- **Repeatable** - yes - should be checked if the action can be triggered multiple times
- **Autorun Children** - when this is switched on, the child actions (the ones defined as mandatory and automatic) will run immediately after the execution of the parent action is finalized

## Parameters

- **Address** - the Kafka topic where the file will be posted -  
`ai.flowx.in.devmain.document.persist.v1`

### ⚠ CAUTION

In this example we used an environment called `devmain`, topic naming convention is different depending on what environment you are working.

- **Document Type** - other metadata that can be set (useful for the document plugin) - example: `BULK`
- **Folder** - allows you to configure a value by which the file will be identified in the future - example: `1234_${processInstanceId}`
- **Advanced configuration (Show headers)** - this represents a JSON value that will be sent on the headers of the Kafka message

```
{"processInstanceId": ${processInstanceId}, "destinationId": "Upload document", "callbacksForAction": "uploadDocument"}
```

- `callbacksForAction` - the value of this key is a string that specifies a callback action associated with the `Upload document` destination ID (node). This is part of an event-driven system (Kafka send action) where this callback will be called once the `uploadDocument` action is completed.

## Configuring Business rule action

```
envfilePath = input.?envfilePath;
uploadedDocument = input.?uploadedDocument;
if(uploadedDocument.?downloadPath != null &&
uploadedDocument.?downloadPath != ""){
    filePath = envfilePath + uploadedDocument.?downloadPath;
    uploadedDocument.filePath = filePath;

    output.put("uploadedDocument", uploadedDocument);
}
```

1. The business rule is expecting two inputs: `envfilePath` and `uploadedDocument`.
2. It is checking if the `downloadPath` property of the `uploadedDocument` input is not null and not an empty string. If it's not, then it proceeds to the next steps.
3. It concatenates the `envfilePath` and the `downloadPath` to form the full file path (`filePath`) where the uploaded document is expected to be located.
4. It updates the `uploadedDocument` input by adding a new property called `filePath` with the value of `filePath`.

5. It puts the updated `uploadedDocument` object into the output object as a key-value pair, with the key being "uploadedDocument".

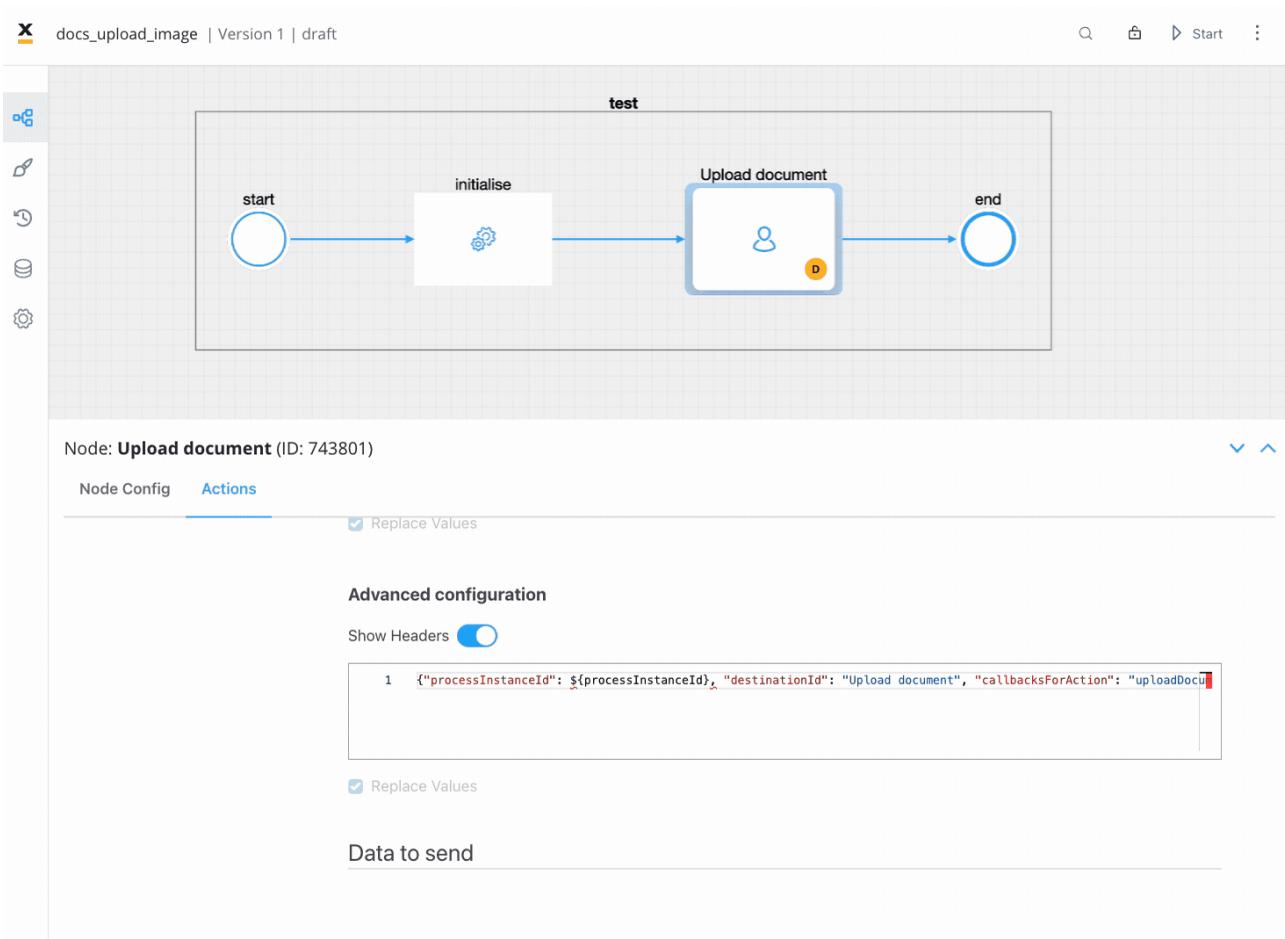
In summary, the code seems to be processing an uploaded document by checking its download path, constructing a full file path, and updating the document object with the new file path. Finally, it outputs the updated document object.

### Configuring a Send data to user interface action

```
{"uploadedDocument":  
  {  
    "filePath": "${uploadedDocument.filePath}"  
  }  
}
```

"filePath": This is a key in the object which holds the value \${uploadedDocument.filePath}. The syntax \${...} suggests that it's a variable placeholder that will be replaced with the actual value at runtime.

After configuring all the nodes and parameters, run the process:



Was this page helpful?

# PLATFORM DEEP DIVE / Core components / Core extensions / Integration management / Configuring access rights for Integration Management

Granular access rights can be configured for restricting access to the Integration Management plugin component. These access rights must be configured in the Designer (admin) deployment.

The following access authorizations are provided, with the specified access scopes:

1. **Manage-integrations** - for configuring access for managing integration management

Available scopes:

- import - users can import integrations
- read - users can view integrations
- edit - users can edit integrations
- admin - users can delete integrations

Integration management is preconfigured with the following default users roles for each of the access scopes mentioned above:

- manage-integrations
  - import:
    - ROLE\_ADMIN\_MANAGE\_INTEGRATIONS\_IMPORT
    - ROLE\_ADMIN\_MANAGE\_INTEGRATIONS\_EDIT
    - ROLE\_ADMIN\_MANAGE\_INTEGRATIONS\_ADMIN
  - read:
    - ROLE\_ADMIN\_MANAGE\_INTEGRATIONS\_READ
    - ROLE\_ADMIN\_MANAGE\_INTEGRATIONS\_IMPORT
    - ROLE\_ADMIN\_MANAGE\_INTEGRATIONS\_EDIT

- ROLE\_ADMIN\_MANAGE\_INTEGRATIONS\_ADMIN
- edit:
  - ROLE\_ADMIN\_MANAGE\_INTEGRATIONS\_EDIT
  - ROLE\_ADMIN\_MANAGE\_INTEGRATIONS\_ADMIN
- admin:
  - ROLE\_ADMIN\_MANAGE\_INTEGRATIONS\_ADMIN

### DANGER

These roles need to be defined in the chosen identity provider solution. It can be either kycloak, RH-SSO, or another identity provider solution. For more details on how to define service accounts, check the Access rights section.

In case other custom roles are needed, you can configure them using environment variables. More than one role can be set for each access scope.

To configure access for each of the roles above, adapt the following input:

```
SECURITY_ACCESSAUTHORIZATIONS_AUTHORIZATIONNAME_SCOPES_SCOPENAME_ROLESALLOWED: NEEDED_ROLE_NAMES
```

Possible values for AUTHORIZATIONNAME: MANAGEDOCUMENTTEMPLATES.

Possible values for SCOPENAME: import, read, edit, admin.

For example, if you need to configure role access for read, insert this:

```
SECURITY_ACCESSAUTHORIZATIONS_MANAGEINTEGRATIONS_SCOPES_READ_ROLE_NAME_TEST
```

Was this page helpful?

# PLATFORM DEEP DIVE / Core components / Core extensions / Licensing

The License Engine is part of the core components of the

The fallback content to display on prerendering

. It is used for displaying reports regarding the usage of the platform in the

The fallback content to display on prerendering

It can be quickly deployed on the chosen infrastructure and then connected to the

The fallback content to display on prerendering

through

The fallback content to display on prerendering events.

Let's go through the steps needed in order to deploy and set up the service:

» [License engine setup guide](#)

Multiple roles are available in the license engine, here are the steps for configuring them:

» [Configuring access roles \(old\)](#)

Was this page helpful?

# PLATFORM DEEP DIVE / Core components / Core extensions / Audit log

The Audit Log service provides a centralized location for all audit events. The following details are available for each event:

- **Timestamp** - the date and time the event occurred, the timestamp is displayed in a reversed chronologically order
- **User** - the entity who initiated the event, could be a username or a system
- **Subject** - the area or component of the system affected by the event

► Possible values

- **Event** - the specific action that occurred

► Possible values

- **Subject identifier** - the name related to the subject, there are different types of identifiers based on the selected subject
- **Version** - the version of the process definition at the time of the event
- **Status** - the outcome of the event (e.g. success or failure)

Audit Logs							
Timestamp	User	Section	Subject	Event	Subject Identifier	Status	
20 Jan 2023, 12:07 PM	john.doe@email.com	Process Instance	Process Instance	View	b1a7359c-0d45-4c3e-8bd1-ede16ed5c8f5	<span>success</span>	🔗
20 Jan 2023, 12:07 PM	john.doe@email.com	Process Instance	Process Instance	Start	2e3ba843-3e8a-43f9-a4cf-e599bd7d19bf	<span>success</span>	🔗
20 Jan 2023, 11:39 AM	john.doe@email.com	Process versioning	Process Definition	Created	name_of_the_process	<span>success</span>	🔗
20 Jan 2023, 11:37 AM	john.doe@email.com	BPMN Diagram	Node	Update	node_name	<span>success</span>	🔗
20 Jan 2023, 11:37 AM	john.doe@email.com	BPMN Diagram	Node	Update	test_node	<span>success</span>	🔗
20 Jan 2023, 11:35 AM	jane.doe@email.com	BPMN Diagram	Action	Created	name_of_the_action	<span>success</span>	🔗
20 Jan 2023, 11:35 AM	jane.doe@email.com	BPMN Diagram	Connector	Delete	8db94d59-837f-4c42-a60c-3d38b110c19.	<span>success</span>	🔗
20 Jan 2023, 11:35 AM	jane.doe@email.com	BPMN Diagram	Connector	Created	8db94d59-837f-4c42-a60c-3d38b110c19.	<span>success</span>	🔗

## Filtering

Users can filter audit records by event date and by selecting specific options for User, Subject, and Subject Identifier.

- Filter by event date

- User - single selection, type at least 4 characters
  - Subject - single selection
  - Subject identifier - exact match

## Audit log details

To view additional details for a specific event, users can click the eye icon on the right of the event in the list. Additional information available in the audit log details window includes Here you have the following information:

- Event - the specific action that occurred
  - URL - the URL associated with the event
  - Body - any additional data or information related to the event

The screenshot shows a modal window titled "Audit log details" over a background audit log list. The modal contains the following information:

**Event:** ui designer, created, 06 Oct 2022 at 6:01 PM

**Url:** <https://admin.qa.flowxai.dev/api/nodes/716516/templates>

**Body:**

```
1  {"uiTemplateParentId":6292714,  
 "componentIdentifier":"FORM_GROUP","type":"FLOWX","order":0,  
 "key":"","platformsDisplayOptions":[{"id":null,"flowxProps":  
 {},"style":null,"flexLayout":{"fxLayout":"column",  
 "fxLayoutAlign":"start stretch","fxLayoutGap":"0px"},  
 "className":null,"platform":"DEFAULT","templateConfigId":null,  
 "formFieldId":null}],"templateConfig":[]}
```

Was this page helpful?

# PLATFORM DEEP DIVE / Core components / Core extensions / Scheduler

## Overview

The Scheduler is part of the core components of the

The fallback content to display on prerendering

. It can be easily added to your custom FLOWX deployment to **enhance the core platform capabilities with functionality specific to scheduling messages.**

The service offers the possibility to schedule a message that you only need to process after a configured time period.

It can be quickly deployed on the chosen infrastructure and then connected to the

The fallback content to display on prerendering through Kafka events.

Let's go through the steps needed in order to deploy and set up the service:

» [Scheduler setup guide](#)

We've prepared some examples of various use cases where this service is useful:

## Using the scheduler

After deploying the scheduler service in your infrastructure, you can start using it to schedule messages that you need to process at a later time.

One such example would be to use the scheduler service to expire processes that were started but haven't been finished.

### 🔥 DANGER

First you need to check the configured topics match the ones configured in the engine.

For example the engine topics

KAFKA\_TOPIC\_PROCESS\_SCHEDULE\_OUT\_SET and

KAFKA\_TOPIC\_PROCESS\_SCHEDULE\_OUT\_STOP **should be the same with the ones configured in the scheduler** (KAFKA\_TOPIC\_SCHEDULE\_IN\_SET and KAFKA\_TOPIC\_SCHEDULE\_IN\_STOP)

When a process is scheduled to expire, the engine sends the following message to the scheduler service (on the topic KAFKA\_TOPIC\_SCHEDULE\_IN\_SET):

```
{  
  "applicationName": "onboarding",  
  "applicationId": "04f82408-ee66-4c68-8162-b693b06bba00",  
  "payload": {  
    "scheduledEventType": "EXPIRE_PROCESS",  
    "processInstanceId": "04f82408-ee66-4c68-8162-  
b693b06bba00"  
  },  
  "scheduledTime": 1621412209.353327,
```

```
"responseTopicName": "ai.flowx.process.expire.staging"  
}
```

The scheduled time should be defined as `java.time.Instant`.

At the scheduled time, the payload will be sent back to the response topic defined in the message, like so:

```
{  
  "scheduledEventType": "EXPIRE_PROCESS",  
  "processInstanceId": "04f82408-ee66-4c68-8162-  
b693b06bba00"  
}
```

If you don't need the scheduled message anymore, you can discard it by sending the following message (on the topic `KAFKA_TOPIC_SCHEDULE_IN_STOP`)

```
{  
  "applicationName": "onboarding",  
  "applicationId": "04f82408-ee66-4c68-8162-b693b06bba00"  
}
```

These fields, `applicationName` and `applicationId` are used to uniquely identify a scheduled message.

**Was this page helpful?**

# PLATFORM DEEP DIVE / Core components / Core extensions / Search data service

Search data is a microservice that searches for data in another process.

The new search data microservice enables you to create a process that can perform a search/look for data (using **Kafka send** / **Kafka receive** actions) in other processes.



TIP

Using elastic search, the new search microservice will be able to search for keys that are indexed in ES, via existing mechanics.



CAUTION

Elastic search indexing must be switched on the FLOWX.AI Engine configuration. You can find more details in the **Search data service setup guide**.

## Using search data

Use case:

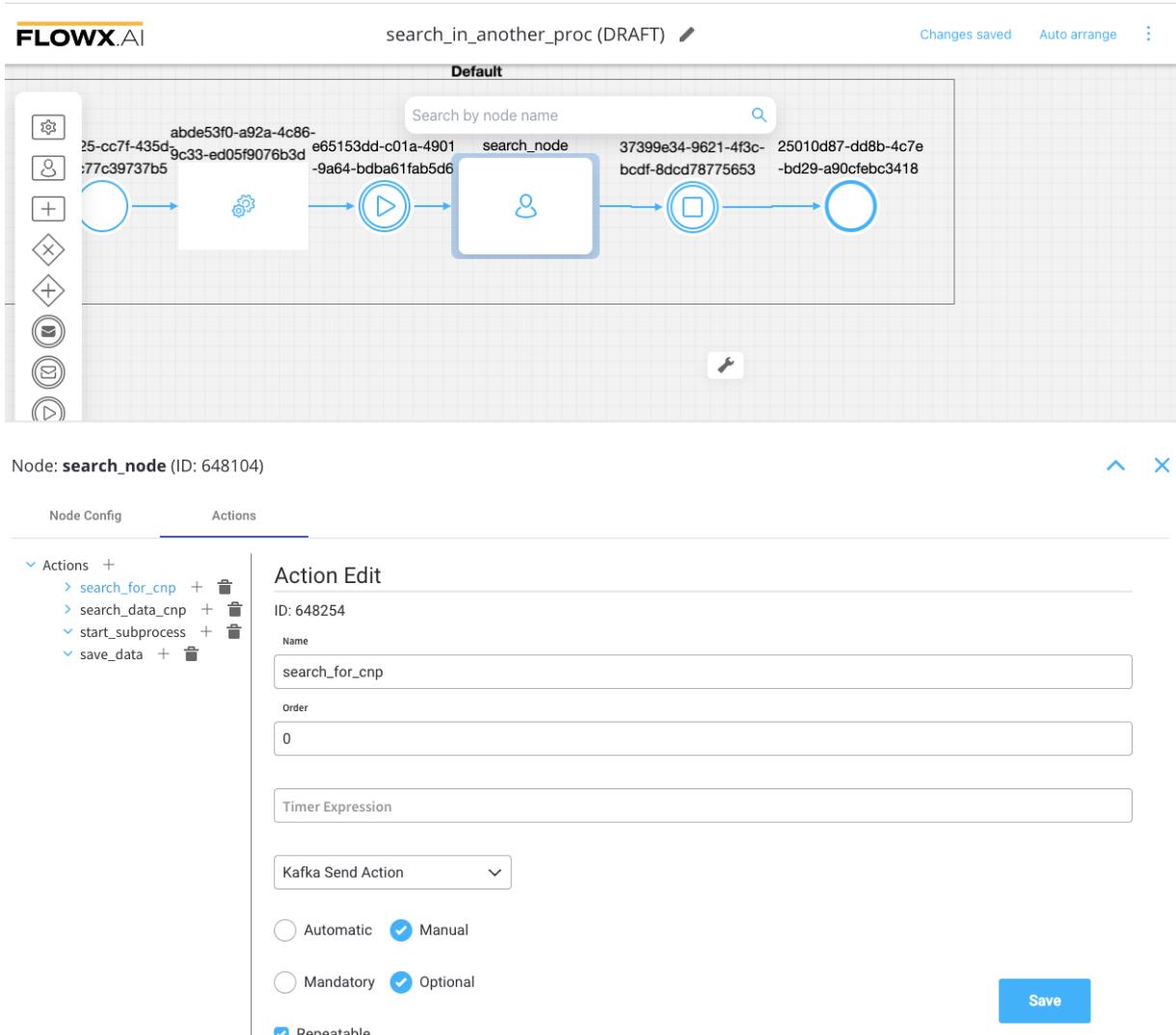
- search for data in other processes
- display results about other processes where the search key was found

## 1. Create a process using

The fallback content to display on prerendering

## 2. From the newly created process where you want to perform the search, add a **Task node**.

## 3. Configure a send event via a **Kafka send action**.



## 4. Configure the following items:

- **Topic name** - the Kafka topic on which the search service listens for requests; ! respect the **naming pattern**
- **Data to send** - (key) - used when data is sent from the frontend via an action to validate the data (you can find more information in the User Task configuration section)
- **Headers** - required
- **Body message:**
  - **searchKey** - it will hold the result received from the elastic search
  - **value** - value of the key
  - **processDefinitionNames** - the process definition names where to perform the search
  - **processStartDateAfter** - the service will look into process definitions created after the defined date

```
{  
  "searchKey": "application.client.name",  
  "value": "12344",  
  "processStartDateAfter": "formatDeDataStandard", (opt)  
  "processStartDateBefore": "formatDeDataStandard", (opt)  
  "processDefinitionNames": [ "processDef1", "processDef2"  
,  
  "status": [ "ANY", ... ]  
}
```

- Example (dummy values extracted from a process):

## Topics

```
ai.flowx.in.qa.data.search.v1
```

## Message

```
1  {
2    "searchKey": "application.client.identificationData.lastName",
3    "value": "${searchValue2}",
4    "processDefinitionNames": ["silviu_add_data_process"],
5    "processStartDateAfter": "2022-08-24T13:31:47.912524Z"
6 }
```

## Advanced configuration

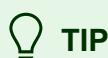
Show Headers

```
1  {"processInstanceId": ${processInstanceId}, "destinationId": "search_node", "callbacksForAction": "search_for_cnp"}]
```

## Data to send

 Add KeySave

5. A custom microservice (a core extension) will receive this event and will search the value of the process in the elastic search.
6. It will respond to the engine via a Kafka topic.



**TIP**

The topic must be defined in the **Node config** of the **User task** where you previously added the Kafka Send Action.

The **body message** of the response will look like this:

**!** If there is no result:

```
{  
  "searchKey": "application.client.name",  
  "result": [],  
  "processStartDate": date,  
  "tooManyResults": true|false  
}
```

- Example (dummy values extracted from a process):



To access the view of your process variables, tokens and subprocesses go to **FLOWX.AI Designer > Active process > Process Instances**. Here you will find the response.

Process definition: **search\_in\_another\_proc** Active process instance: **a4001bf0...**

Variables Tokens Subprocesses

```
processInstanceId: 665918
* searchResult:
  searchKey: "application.client.identificationData.personalIdentificationNumber"
  result: null
  tooManyResults: false
  resultsNumber: 0
  tokenId: 665970
  searchValue2: "test test"
  tokenUuid: "b0238259-5784-47bc-ad26-086736079d67"
  webSocketPath: "/ws/updates/process"
  processInstanceUuid: "a4001bf0-6c87-4197-be13-8111bce14850"
  webSocketAddress: "wss://public.qa.flowxai.dev/a4001bf0-6c87-4197-be13-8111bce14850"
```

**! If there is a list of results:**

```
"searchKey": "application.client.name"
"result": [
  {
    "processInstanceUUID": "UUID",
    "status": "CREATED",
    "processStartDate": date,
    "data" : {"all data in elastic for that
process"}
  ],
  "tooManyResults": true|false
}
```

**NOTE:** You will receive up to 50 results - if `tooManyResults` is true.

- Example (dummy values extracted from a process):

Process definition: **search\_in\_another\_proc** Active process instance: **5929721e...** □

Variables Tokens Subprocesses

```
processInstanceId: 665917
searchResult:
  searchKey: "application.client.identificationData.personalIdentificationNumber"
  result:
    0: Object {"processInstanceUUID": "16ce7721-97a0-40be-b88b-61d6e906d208", "state": "FINISHED", "processStartDate": "2022-09-13T13:59:56.131Z", "data": {"application": {"client": "1: Object {"processInstanceUUID": "c8716ea6-0b3b-448d-a814-c84db6347ff7", "state": "FINISHED", "processStartDate": "2022-09-13T14:28:48.988Z", "data": {"application": {"client": "2: Object {"processInstanceUUID": "11f0503b-fd25-4e38-8744-42cef8838fbc", "state": "FINISHED", "processStartDate": "2022-09-13T14:44:59.061Z", "data": {"application": {"client": "tooManyResults: false
resultsNumber: 3
redirectUrl: "https://designer.flowxai.dev/processes/instance?processUuid=11f0503b-fd25-4e38-8744-42cef8838fbc"
tokenId: 665969
searchValue2: "1871201460000"
tokenUuid: "a057acf5-36ea-4d10-abbd-35c062398ebc"
webSocketPath: "/ws/updates/process"
processInstanceId: "5929721e-1a5a-4ebd-87d5-72aab51928f"
webSocketAddress: "wss://public.qa.flowxai.dev/5929721e-1a5a-4ebd-87d5-72aab51928f"
```

Let's go now through the steps needed to deploy and set up the service:

» [Search data service setup guide](#)

Was this page helpful?