{{project.name}}





|  |  |  |
| --- | --- | --- |
| **Version** | **Author** | **Date** |
| 1.0 | {{config.author.name}}{{config.author.email}} | {{config.generation\_date }} |

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# Project general description

Project references for the created flow:

* Project name: **{{project.name}}**
* Project key: **{{project.key}}**

{{if project.short\_desc != }}

* Project short description:

{{project.short\_desc}}

{{endif project.short\_desc}}

{{if project.long\_desc != }}

* Description:

{{project.long\_desc}}

{{endif project.long\_desc}}

* Status: **{{project.status}}**
* Current git branch: **{{project.current.git.branch}}**

{{if project.tags.list !=}}

* Tags: **{{project.tags.list}}**

{{endif project.tags.list}}

* Created by {{project.creation.user}} on the {{project.creation.date}}
* Last Modification by {{ project.last\_modification.user}} on the {{project.last\_modification.date}}

# Graphical Representation of the Flow

{{flow.picture.full.portrait}}

# Datasets

List all the datasets in the flow.

{{foreach $dataset in flow.datasets}}

### {{$dataset.name}}

Summarized information about your dataset {{$dataset.name}}:

{{if $dataset.short\_desc != }}

* Short description**:**

{{$dataset.short\_desc}}

{{endif $dataset.short\_desc}}

{{if $dataset.long\_desc != }}

* Description**:**

{{$dataset.long\_desc}}

{{endif $dataset.long\_desc}}

{{if $dataset.tags.list != }}

* Tags**: {{$dataset.tags.list}}**

{{endif $dataset.tags.list}}

{{if $dataset.data\_steward != None}}

* Data Steward: **{{$dataset.data\_steward}}**

{{endif $dataset.data\_steward}}

{{if $dataset.is\_foreign == Yes}}

* This dataset has not been created in this project. Its origin project is **{{$dataset.project.name}}**

{{endif $dataset.is\_foreign}}

{{if $dataset.type == Files in Folder}}

* This dataset is unstructured and stored in the following managed folder:

{{foreach $source in $dataset.containing.folder}}

 {{$source.name}}

{{endforeach $source}}

{{endif $dataset.type}}

#### Status of the dataset {{$dataset.name}}

Characteristics of the dataset {{$dataset.name}}:

{{if $dataset.is\_foreign == Yes}}

* Source project name: **{{$dataset.project.name}}**

{{endif $dataset.is\_foreign}}

* Type: **{{$dataset.type}}**
* Connection: **{{$dataset.connection}}**
* Total Size: **{{$dataset.status.total\_size}}**
* Record Count: **{{$dataset.status.record\_count}}**

{{if $dataset.is\_partitioned == Yes}}

* Partition Count: **{{$dataset.status.partition\_count}}**

{{endif $dataset.is\_partitioned}}

* Created by {{$dataset.creation.user}} on the {{$dataset.creation.date}}
* Last Modification by {{$dataset.last\_modification.user}} on the {{$dataset.last\_modification.date}}

#### Related Recipes

The dataset {{$dataset.name}} relates to the following recipes.

{{if $dataset.parent.all.count != 0 }}

Parent Recipe

List of recipes with {{$dataset.name}} as an output:

{{foreach $parent in $dataset.parent.all}}

* {{$parent.name}} ({{$parent.type}})

{{endforeach $parent}}

{{endif $dataset.parent.all.count}}

{{if $dataset.successors.all.count != 0 }}

Successor Recipes

List of recipes with {{$dataset.name}} as an input:

{{foreach $successor in $dataset.successors.all}}

* {{$successor.name}} ({{$successor.type}})

{{endforeach $successor}}

{{endif $dataset.successors.all.count}}

#### Schema

{{if $dataset.schema.columns.count == 0 }}

This dataset doesn’t have any schema

{{endif $dataset.schema.columns.count }}

{{if $dataset.schema.columns.count != 0 }}

Schema details of the dataset.

|  |  |  |
| --- | --- | --- |
| ****Column Name**** | Column Type | Description |

{{foreach $column in $dataset.schema.columns}}

|  |  |  |
| --- | --- | --- |
| ****{{$column.name}}**** | {{$column.type}} | {{$column.description}} |

{{endforeach $column}}

{{endif $dataset.schema.columns.count }}

{{endforeach $dataset}}

{{if flow.folders.count != 0}}

# Managed folders

List all the managed folders in the flow.

{{foreach $folder in flow.folders}}

### {{$folder.name}}

Summarized information about the managed folder {{$folder.name}}:

{{if $folder.short\_desc != }}

* Short Description:

{{$folder.short\_desc}}

{{endif $folder.short\_desc}}

{{if $folder.long\_desc != }}

* Description:

{{$folder.long\_desc}}

{{endif $folder.long\_desc}}

{{if $folder.tags.list != }}

* Tags: **{{$folder.tags.list}}**

{{endif $folder.tags.list}}

{{if $folder.is\_foreign == Yes}}

* This folder has not been created in this project. Its origin project is **{{$folder.project.name}}**

{{endif $folder.is\_foreign}}

#### Status

Characteristics of the managed folder {{$folder.name}}:

* full\_id: **{{$folder.full\_id}}**
* Type: **{{$folder.type}}**
* Connection: **{{$folder.connection}}**

{{if $folder.is\_partitioned == Yes}}

* Folder is partitioned

{{endif $folder.is\_partitioned}}

* Created by {{$folder.creation.user}} on the {{$folder.creation.date}}
* Last Modification by {{$folder.last\_modification.user}} on the {{$folder.last\_modification.date}}

{{ if $folder.files\_in\_folder.datasets.count != 0 }}

#### Derived datasets

List of the datasets in the managed folder:

{{foreach $dataset in $folder.files\_in\_folder.datasets}}

* {{$dataset.name}}

{{endforeach $dataset}}

{{endif $folder.files\_in\_folder.datasets.count}}

#### Related Recipes

List of the recipes related to the managed folder.

{{if $folder.parent.recipes.count != 0 }}

Parent Recipe

Recipe with {{$folder.name}} as an output:

{{foreach $parent in $folder.parent.recipes}}

* {{$parent.name}} ({{$parent.type}})

{{endforeach $parent}}

{{endif $folder.parent.recipes.count}}

{{if $folder.successors.all.count != 0 }}

Successor Recipes

List of recipes with {{$folder.name}} as an input:

{{foreach $successor in $folder.successors.all}}

* {{$successor.name}} ({{$successor.type}})

{{endforeach $successor }}

{{endif $folder.successors.all.count}}

{{endforeach $folder}}

{{endif flow.folders.count}}

{{if flow.recipes.count != 0}}

# Recipes

List all the recipes in the flow.

{{ foreach $recipe in flow.recipes }}

### {{ $recipe.name }}

Summarized information about the recipe {{$recipe.name}}.

{{if $recipe.short\_desc != }}

* Short description:

{{$recipe.short\_desc}}

{{endif $recipe.short\_desc}}

{{if $recipe.long\_desc != }}

* Description:

{{$recipe.long\_desc}}

{{endif $recipe.long\_desc}}

{{if $recipe.tags.list != }}

* Tags**: {{ $recipe.tags.list}}**

{{endif $recipe.tags.list}}

#### Status

Characteristics of the recipe {{$recipe.name}}:

* Type: **{{$recipe.type}}**
* Created by {{$recipe.creation.user}} on the {{$recipe.creation.date}}
* Last Modification by {{$recipe.last\_modification.user}} on the {{$recipe.last\_modification.date}}

#### Inputs / Outputs

{{if $recipe.inputs.all.count != 0 }}

List of the inputs of the recipe:

{{foreach $input in $recipe.inputs.datasets}}

* Dataset {{$input.name}} ({{ $input.type }})

{{endforeach $input }}

{{foreach $input in $recipe.inputs.folders}}

* Folder {{$input.name}} ({{ $input.type }})

{{endforeach $input }}

{{foreach $input in $recipe.inputs.models}}

* Saved Model {{$input.name}} ({{ $input.active\_version.name }})

{{endforeach $input }}

{{foreach $input in $recipe.inputs.model\_evaluation\_stores }}

* Model Evaluation Store {{$input.name}}

{{endforeach $input }}

{{endif $recipe.inputs.all.count}}

{{if $recipe.outputs.all.count != 0 }}

List of the outputs of the recipe:

{{foreach $output in $recipe.outputs.datasets}}

* Dataset {{$output.name}} ({{ $output.type }})

{{endforeach $output }}

{{foreach $output in $recipe.outputs.folders}}

* Folder {{$output.name}} ({{ $output.type }})

{{endforeach $output }}

{{foreach $output in $recipe.outputs.models}}

* Saved Model {{$output.name}} ({{ $output.active\_version.name }})

{{endforeach $output }}

{{foreach $output in $recipe.outputs.model\_evaluation\_stores }}

* Model Evaluation Store {{$output.name}}

{{endforeach $output }}

{{endif $recipe.outputs.all.count}}

{{if $recipe.type == Prepare }}

#### Prepare Steps

|  |  |
| --- | --- |
| Type | Comment |

{{ foreach $step in $recipe.prepare.steps }}

|  |  |
| --- | --- |
| {{ $step.type }} | {{ $step.comment }} |

{{ endforeach $step }}

{{ endif $recipe.type }}

{{ if $recipe.is\_join == Yes }}

#### Join

{{ foreach $join in $recipe.joins }}

{{ $join.type }} {{ $join.left\_dataset.name }} - {{ $join.right\_dataset.name }} {{ $join.condition\_mode }}

|  |  |  |
| --- | --- | --- |
| Left input | Condition | Right input |

{{ foreach $condition in $join.conditions }}

|  |  |  |
| --- | --- | --- |
| {{ $condition.left\_column.name }} | {{ $condition.description }} | {{ $condition.right\_column.name }} |

{{ endforeach $condition}}

{{ if $recipe.type == Join }}

{{ if $recipe.left\_unmatched\_output.name != }}

Unmatched rows from {{$join.left\_dataset.name}} are saved in the dataset {{$recipe.left\_unmatched\_output.name}}

{{ endif $recipe.left\_unmatched\_output.name }}

{{ if $recipe.right\_unmatched\_output.name != }}

Unmatched rows from {{$join.right\_dataset.name }} are saved in the dataset {{$recipe.right\_unmatched\_output.name}}

{{ endif $recipe.right\_unmatched\_output.name }}

{{ endif $recipe.type }}

{{ endforeach $join }}

{{ endif $recipe.is\_join }}

{{ if $recipe.type == Generate features }}

#### Data Relationships

{{ if $recipe.cutoff\_time != }}

Cutoff time: **{{ $recipe.cutoff\_time }}** (in {{ $recipe.primary\_dataset }})

{{ endif $recipe.cutoff\_time }}

{{ foreach $data\_relationship in $recipe.data\_relationships }}

**{{ $data\_relationship.left\_dataset.name }} ({{$data\_relationship.left\_dataset.participant\_index}}) - {{ $data\_relationship.right\_dataset.name }} ({{$data\_relationship.right\_dataset.participant\_index}})**

Relationship type: **{{ $data\_relationship.type }}**

|  |  |  |
| --- | --- | --- |
| {{ $data\_relationship.left\_dataset.name }} | Condition | {{ $data\_relationship.right\_dataset.name }} |

{{ foreach $condition in $data\_relationship.conditions }}

|  |  |  |
| --- | --- | --- |
| {{ $condition.left\_column.name }} | {{ $condition.description }} | {{ $condition.left\_column.name }} |

{{ endforeach $condition}}

{{ if $data\_relationship.right\_dataset.time\_index !=}}

Time settings

* Time index: **{{ $data\_relationship.right\_dataset.time\_index }}** (in {{ $data\_relationship.right\_dataset.name }})

{{ foreach $time\_window in $data\_relationship.right\_dataset.time\_windows }}

* Time window: **{{ $time\_window.from }} to {{ $time\_window.to }} {{ $time\_window.units }}** before cutoff time

{{ endforeach $time\_window}}

{{ endif $data\_relationship.right\_dataset.time\_index }}

{{ endforeach $data\_relationship }}

#### Feature Transformations

{{ if $recipe.feature\_transformations.general !=}}

General: {{ $recipe.feature\_transformations.general }}

{{ endif $recipe.feature\_transformations.general }}

{{ if $recipe.feature\_transformations.categorical !=}}

Categorical: {{ $recipe.feature\_transformations.categorical }}

{{ endif $recipe.feature\_transformations.categorical }}

{{ if $recipe.feature\_transformations.date !=}}

Date: {{ $recipe.feature\_transformations.date }}

{{ endif $recipe.feature\_transformations.date }}

{{ if $recipe.feature\_transformations.numerical !=}}

Numerical: {{ $recipe.feature\_transformations.numerical }}

{{ endif $recipe.feature\_transformations.numerical }}

{{ if $recipe.feature\_transformations.text !=}}

Text: {{ $recipe.feature\_transformations.text }}

{{ endif $recipe.feature\_transformations.text }}

{{ endif $recipe.type }}

{{ if $recipe.is\_code\_recipe == Yes }}

#### Code

{{ if $recipe.has\_code\_env == Yes }}

Code env: {{ $recipe.code\_env }}

{{ endif $recipe.has\_code\_env }}

|  |
| --- |
| {{ $recipe.payload }} |

{{ endif $recipe.is\_code\_recipe }}

{{ if $recipe.type == Filter / Sample }}

{{ if $recipe.is\_filtered == Yes }}

{{ if $recipe.is\_sampled == Yes }}

The recipe filters and samples the input dataset

{{ endif $recipe.is\_sampled }}

{{ if $recipe.is\_sampled == No }}

The recipe filters the complete input dataset

{{ endif $recipe.is\_sampled }}

{{ endif $recipe.is\_filtered }}

{{ if $recipe.is\_filtered == No }}

{{ if $recipe.is\_sampled == Yes }}

The recipe samples the input dataset but does not apply any filter

{{ endif $recipe.is\_sampled }}

{{ if $recipe.is\_sampled == No }}

The recipe neither filters nor samples the input dataset

{{ endif $recipe.is\_sampled }}

{{ endif $recipe.is\_filtered }}

{{ endif $recipe.type }}

{{ if $recipe.type == Group }}

Group keys: {{ $recipe.group\_keys }}

{{ endif $recipe.type }}

{{ if $recipe.type == Distinct }}

Distinct keys: {{ $recipe.distinct\_keys }}

{{ endif $recipe.type }}

{{ if $recipe.type == Split }}

Split mode: {{ $recipe.split\_mode }}

{{ endif $recipe.type }}

{{ if $recipe.type == Stack }}

Stacking mode: {{ $recipe.stack\_mode }}

{{ endif $recipe.type }}

{{ if $recipe.type == Push to Editable }}

Unique keys: {{ $recipe.unique\_keys }}

{{ endif $recipe.type }}

{{ if $recipe.type == Window }}

#### Windows

|  |  |
| --- | --- |
| Window name | Partitioning columns |

{{ foreach $window in $recipe.windows }}

|  |  |
| --- | --- |
| {{ $window.name }} | {{ $window.partitioning\_columns }} |

{{ endforeach $window }}

{{ endif $recipe.type }}

{{ if $recipe.type == Sort }}

#### Sorted Columns

|  |  |
| --- | --- |
| Column name | Sorting direction |

{{ foreach $column in $recipe.sorting\_columns }}

|  |  |
| --- | --- |
| {{ $column.name }} | {{ $column.direction }} |

{{ endforeach $column }}

{{ endif $recipe.type }}

{{ if $recipe.type == Top N }}

#### Top rows and sorting direction

Top rows: {{ $recipe.top\_rows.count }}

Bottom rows: {{ $recipe.bottom\_rows.count }}

|  |  |
| --- | --- |
| Column name | Sorting direction |

{{ foreach $column in $recipe.sorting\_columns }}

|  |  |
| --- | --- |
| {{ $column.name }} | {{ $column.direction }} |

{{ endforeach $column }}

{{ endif $recipe.type }}

{{ if $recipe.type == Pivot }}

#### Parameters

Row identifier: {{ $recipe.row\_identifiers }}

Pivots: {{ $recipe.pivots }}

Populate content: {{ $recipe.populated\_columns }}

{{ endif $recipe.type }}

{{ endforeach $recipe }}

{{ endif flow.recipes.count}}

{{ if flow.models.count != 0}}

# Saved Models

List all the saved models in the flow.

{{ foreach $model in flow.models}}

### {{ $model.name }}

Summarized information about the saved model {{$model.name}}:.

{{if $model.short\_desc != }}

* Short Description:

{{$model.short\_desc}}

{{endif $model.short\_desc}}

{{if $model.long\_desc != }}

* Description:

{{$model.long\_desc}}

{{endif $model.long\_desc}}

{{if $model.tags.list != }}

* Tags: **{{$model.tags.list}}**

{{endif $model.tags.list}}

{{if $model.is\_foreign == Yes}}

* This saved model has not been created in this project. Its origin project is **{{$model.project.name}}**

{{endif $model.is\_foreign}}

#### Status

Model id: {{ $model.id }}

Active version: {{ $model.active\_version.name }}

#### Related Recipes

List of the recipes related to the saved model.

{{if $model.parent.recipes.count != 0 }}

Parent Recipe

Recipe with {{$model.name}} as an output:

{{foreach $recipe in $model.parent.recipes}}

* {{$recipe.name}} ({{$recipe.type}})

{{endforeach $recipe}}

{{endif $model.parent.recipes.count}}

{{if $model.successors.recipes.count != 0 }}

Successor Recipes

List of recipes with {{$model.name}} as an input:

{{foreach $recipe in $model.successors.recipes}}

* {{$recipe.name}} ({{$recipe.type}})

{{endforeach $recipe}}

{{endif $model.successors.recipes.count}}

{{endforeach $model}}

{{endif flow.models.count}}

{{if flow.model\_evaluation\_stores.count != 0}}

# Model Evaluation Stores

List all the model evaluation stores in the flow.

{{ foreach $mes in flow.model\_evaluation\_stores }}

### {{ $mes.name }}

Summarized information about the model evaluation store {{ $mes.name }}.

{{if $mes.short\_desc != }}

* Short description:

{{$mes.short\_desc }}

{{endif $mes.short\_desc}}

{{if $mes.long\_desc != }}

* Description:

{{$mes.long\_desc}}

{{endif $mes.long\_desc}}

{{if $mes.tags.list != }}

* Tags**: {{ $mes.tags.list}}**

{{endif $mes.tags.list}}

#### Related Recipes

List of the recipes related to the model evaluation store.

{{if $mes.parent.recipes.count != 0 }}

Parent Recipe

Recipe with {{$mes.name}} as an output:

{{foreach $recipe in $mes.parent.recipes}}

* {{$recipe.name}} ({{$recipe.type}})

{{endforeach $recipe}}

{{endif $mes.parent.recipes.count}}

{{if $mes.successors.recipes.count != 0 }}

Successor Recipes

List of recipes with {{$mes.name}} as an input:

{{foreach $recipe in $mes.successors.recipes}}

* {{$recipe.name}} ({{$recipe.type}})

{{endforeach $recipe}}

{{endif $mes.successors.recipes.count}}

{{endforeach $mes}}

{{endif flow.model\_evaluation\_stores.count}}

{{ if flow.labeling\_tasks.count != 0}}

# Labeling Tasks

List all the labeling tasks in the flow.

{{ foreach $labeling\_task in flow.labeling\_tasks }}

### {{ $labeling\_task.name }}

Summarized information about the labeling task {{$labeling\_task.name}}.

{{if $labeling\_task.short\_desc != }}

* Short description:

{{$labeling\_task.short\_desc}}

{{endif $labeling\_task.short\_desc}}

{{if $labeling\_task.long\_desc != }}

* Description:

{{$labeling\_task.long\_desc}}

{{endif $labeling\_task.long\_desc}}

{{if $labeling\_task.tags.list != }}

* Tags**: {{ $labeling\_task.tags.list}}**

{{endif $labeling\_task.tags.list}}

#### Status

Characteristics of the labeling task {{$labeling\_task.name}}:

* Type: **{{$labeling\_task.type}}**
* Created by {{$labeling\_task.creation.user}} on the {{$labeling\_task.creation.date}}
* Last Modification by {{$labeling\_task.last\_modification.user}} on the {{$labeling\_task.last\_modification.date}}

#### Inputs / Outputs

{{if $labeling\_task.inputs.all.count != 0 }}

List of the inputs of the labeling task:

{{foreach $input in $labeling\_task.inputs.datasets}}

* Dataset {{$input.name}} ({{ $input.type }})

{{endforeach $input }}

{{foreach $input in $labeling\_task.inputs.folders}}

* Folder {{$input.name}} ({{ $input.type }})

{{endforeach $input }}

{{endif $labeling\_task.inputs.all.count}}

{{if $labeling\_task.outputs.datasets.count != 0 }}

List of the outputs of the labeling task:

{{foreach $output in $labeling\_task.outputs.datasets}}

* Dataset {{$output.name}} ({{ $output.type }})

{{endforeach $output }}

{{endif $labeling\_task.outputs.datasets.count}}

{{endforeach $labeling\_task}}

{{endif flow.labeling\_tasks.count}}

# Deployment and Monitoring

## Implementation Details

* The flow can be found here: {{config.project.link}}
* The name of the generated file is: {{config.output\_file.name}}

## Version Control

* The flow was executed with the following version of DSS: {{config.dss.version}}