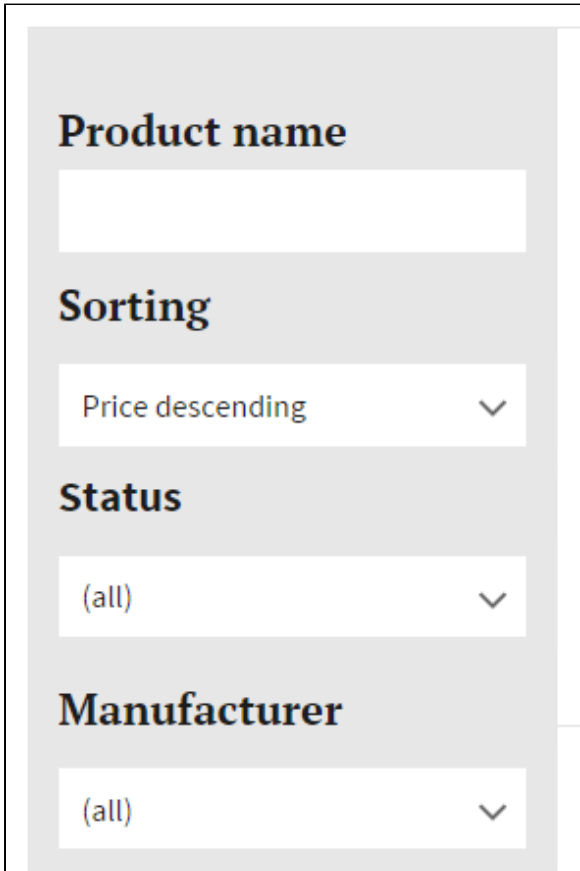


When displaying [products](#) on your [site](#), you may want to provide product filters to your [customers](#), i.e. so-called **faceted search**. For example, you may want to let your customers to filter products according to name, price ranges, stock availability, etc. You may also want your customers to be able to sort the products by their price.

In Kentico, you can create product filters using the [smart search](#) functionality.

A screenshot of a product filter sidebar. It contains four sections: 'Product name' with a text input field; 'Sorting' with a dropdown menu showing 'Price descending'; 'Status' with a dropdown menu showing '(all)'; and 'Manufacturer' with a dropdown menu showing '(all)'. Each dropdown menu has a downward arrow icon.

**Note:** This page describes how to create product filters using [locally stored search indexes](#) and [filters](#). Alternatively, you can set up advanced faceted navigation for products using [Azure Search](#). To see an example, refer to [Integrating Azure Search into pages](#).

To set up a product filter:

- Decide whether you want to:
  - Filter products based on a text property – typically, you use text filtering when you want to provide filtering by name. For this type of filtering, you use a text box.
  - Filter products based on an option property – suitable, for example, when you want to filter the stock availability, a manufacturer or a product parameter. For this type of filtering, you can use checkboxes, drop-down lists, etc.
- [Prepare the index](#)
- [Display the filter](#)
- [Display the filter results](#)

## Preparing the index

Prepare the index for the filter to be able to search in the specific database columns. If the field is a general page or SKU field (e.g., page name, description, manufacturer), you need to [set the fields in the Page class of the Pages module](#). On the other hand, if the field is a page type specific (e.g., the origin country of a coffee you sell that has its database column located in the **Coffee** page type), you need to [set the fields in the specific page type](#). After preparing the index, do not forget to [rebuild the index](#).

## Preparing the index for a general page or SKU field

1. Open the **Modules** application.
2. **Edit** (✎) the **Pages** module.
3. Switch to the **Classes** tab.
4. **Edit** (✎) the **Page** class.
5. Switch to the **Search** tab.
6. Click **Customize** and confirm the dialog.
7. On the row with the desired field name, select options for the required columns.
  - The field names correspond with database columns. Configure the fields that you want to search in your filter (for example *SKUName*).
  - For fields that you want to use in a filter with text input, select the [Content, Searchable and Tokenized](#) options in the **Local** section of the grid.
  - For fields that you want to use as options in a filter, select the *Searchable* and *Tokenized* options in the **Local** section of the grid.

✓ The **Tokenized** option is important for processing text containing spaces or other values that need to be broken into searchable tokens. You can leave the *Tokenized* option disabled for fields containing values without spaces.

8. Click **Save**.

The index now indexes and searches in the configured fields (database columns) as described in [Defining local page indexes](#).

## Preparing the index for a page type specific field

1. Open the **Page types** application.
2. **Edit** (✎) the specific page type.
3. Switch to the **Search fields** tab.
4. On the row with the desired field name, select the required columns.
  - The field names correspond with database columns. Configure the fields that you want to search in your filter (for example *CoffeeFarm*).
  - For fields that you want to use in a filter with text input, select the [Content, Searchable and Tokenized](#) options in the **Local** section of the grid.
  - For fields that you want to use as options in a filter, select the *Searchable* and *Tokenized* options in the **Local** section of the grid.

✓ The **Tokenized** option is important for processing text containing spaces or other values that need to be broken into searchable tokens. You can leave the *Tokenized* option disabled for fields containing values without spaces.

5. Click **Save**.

The index now indexes and searches in the configured fields (database columns) as described in [Defining local page indexes](#).

## Rebuilding the index

You need to refresh the index to include [the configured fields](#).

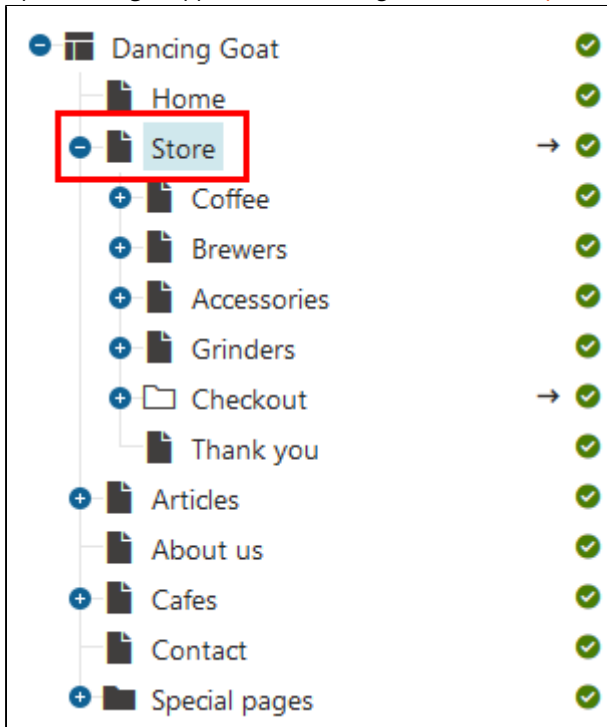
1. Open the **Smart search** application.
2. On the **Local indexes** tab, edit your search index.
3. Click **Rebuild**.

The index is now rebuilt and contains all the needed data.

## Placing the filter web part

To place the filter on a page, place the **Smart search filter** web part on the page and enter its properties:

1. Open the **Pages** application and navigate to the [main products page](#).



- If you have not created any product structure yet, [create a new page](#) of the **Page (menu item)** page type in the **Pages** application.



2. On the **Properties -> Template** tab, if the template is not ad-hoc (the name is not in the form: "Ad-hoc: *name of the page*"), click **Clone template as ad-hoc** to create a template based on the template of the parent page.

Page Design Form **Template** Analytics

**Save**

### Template

☐ Inherit from parent  
☒ Use own page template

Ad-hoc: Store **Select**

**Save as new template**  
**Edit template properties**

### Page nesting

☒ Use page template settings (Only the nearest master page)  
☐ None  
☐ Only the nearest master page  
☐ Specific ancestor pages

3. (Optional) If you want to modify the template of the page, click **Edit template properties** and in the **Edit page template** dialog, switch to the **Layout** tab.
  - See [Managing page templates](#) to learn more information about modifying page templates.
4. To display the field of the filter, place the **Smart search filter** web part on the **Design** tab.
5. Edit the properties of the **Smart search filter** according to your needs:
  - If you want to filter products based on a text, enter the following properties:

Field	Value
Filter mode	<i>Text box</i>
Values	Type the desired field name is the database column name in which the filter will search. For example: <i>DocumentName</i>
Filter clause	<i>Must</i>
Field is conditional	<i>Yes (selected)</i>

- If you want to filter products based on an option, enter the following properties:

Field	Value

Filter mode	Specify how the filter look like.  For example: <i>Dropdown list</i>
Filter auto postback	Specify whether the filter automatically reloads results when changed.
Values	Type the desired field name is the database column name in which the filter will search.  For example: <i>DocumentName</i>
Field is conditional	<i>No (cleared)</i>

#### Public status filter

To create a filter displaying products according to products' public statuses, set also the following properties:

Field	Value
Query name	<p>Create a new query:</p> <p><b>Query name:</b> set a query name, for example <i>SelectPublicStatusesFilter</i></p> <p><b>Query type:</b> <i>Query text</i></p> <p><b>Requires transaction:</b> <i>No (cleared)</i></p> <p><b>Query text:</b></p> <pre>SELECT '', '', '(all)' UNION SELECT 'SKUPublicStatusID', '(int)' + CONVERT (varchar(10), PublicStatusID), PublicStatusDisplayName FROM COM_PublicStatus WHERE (##WHERE##) AND PublicStatusEnabled = 1 ORDER BY (##ORDERBY##)</pre>
Query WHERE condition	<pre>PublicStatusSiteID = {% CurrentSiteID %}</pre>
Filter status	<i>Must</i>
Filter is conditional	<i>Yes (selected)</i>

#### Manufacturer filter

To create a filter displaying products according to products' manufacturers, set also the following properties:

Field	Value
Query name	<p>Create a new query:</p> <p><b>Query name:</b> set a query name, for example <i>ManufacturerFilterQuery</i></p> <p><b>Query type:</b> <i>Query text</i></p> <p><b>Requires transaction:</b> <i>No (cleared)</i></p> <p><b>Query text:</b></p> <pre></pre>

	<pre>SELECT '', '', '(all)' UNION SELECT 'SKUManufacturerID', '(int)' + CONVERT(varchar(10), ManufacturerID), ManufacturerDisplayName FROM COM_Manufacturer WHERE (##WHERE##) AND ManufacturerEnabled = 1 ORDER BY (##ORDERBY##)</pre>
Query WHERE condition	<pre>ManufacturerSiteID = {% CurrentSiteID %}</pre>
Filter clause	<i>Must</i>
Filter is conditional	<i>Yes (selected)</i>

#### Sort filter

To create a filter displaying products sorted according to products' prices, set also the following properties:

Field	Value
Values	<i>SKUPrice DESC;;Price descending</i> <i>SKUPrice;;Price ascending</i>
Filter clause	<i>None</i>
Filter is conditional	<i>No (cleared)</i>

#### Stock filter

To create a filter displaying products according to products' availability in stock, set also the following properties:

Field	Value
Values	<i>-SKUAvailableItems;[* TO (int)0];Only in stock</i>
Filter clause	<i>None</i>
Filter is conditional	<i>Yes (selected)</i>



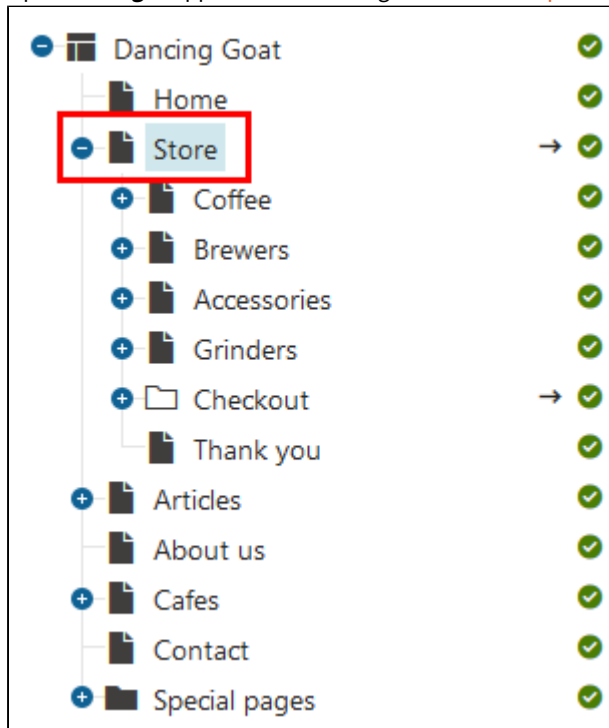
You can also create a filter displaying products according to a specific product parameter (a [product page type](#) field). See [the sample Dancing Goat site](#) for other examples of filtering based on a product parameter.

#### 6. **Save & Close** the web part properties dialog.

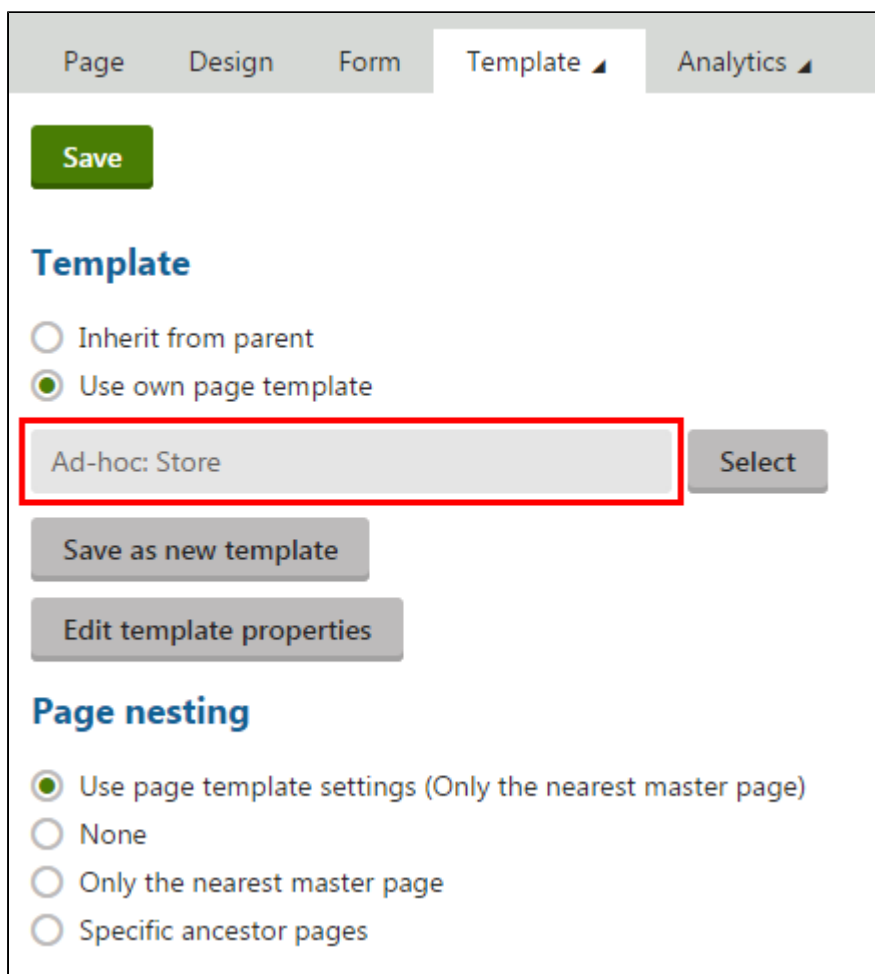
The system places the web part on the page and customers can filter your products (however, the results are not displayed anywhere yet).

## Displaying the filter results

1. Open the **Pages** application and navigate to the [main products page](#).



- If you have not created any product structure yet, [create a new page](#) of the **Page (menu item)** page type in the **Pages** application.
2. On the **Properties -> Template** tab, if the template is not ad-hoc (the name is not in the form: "Ad-hoc: *name of the page*"), click **Clone template as ad-hoc** to create a template based on the template of the parent page.



Page Design Form **Template** Analytics

**Save**

### Template

☐ Inherit from parent  
☒ Use own page template

Ad-hoc: Store **Select**

Save as new template

Edit template properties

### Page nesting

☒ Use page template settings (Only the nearest master page)  
☐ None  
☐ Only the nearest master page  
☐ Specific ancestor pages

- (Optional) If you want to modify the template of the page, click **Edit template properties** and in the **Edit page template** dialog, switch to the **Layout** tab.
  - See [Managing page templates](#) to learn more information about modifying page templates.
- To display product data, place the **Smart search results** web part on the **Design** tab.
- Edit the properties of the **Smart search results** according to your needs:

Field	Value
Web part control ID	Name the web part. For example: <i>SmartSearchProductList</i>
Indexes	Select the index name used when deciding whether to product with a text or with an option. For example: <i>DancingGoat.Pages</i>
Path	Type <i>./%</i> to display all pages on levels in the product tree below the product listing page.
Page types	Select those page types which are then displayed. Typically, select all product page types.
Search options	Specify what syntax the search recognize. See <a href="#">Smart search syntax</a> to learn more information.



Transformation	Select the transformation you created for the product listing pages.  For example: <i>DancingGoat.Transformations.SmartSearchProductList</i>
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6. **Save & Close** the web part properties dialog.
7. Edit the **Smart search filter** web part which should display the filtered data in the just created **Smart search results** web part.
8. In the **Search dialog web part ID** field, type the name (web part control ID) of the **Smart search results** web part (for example, *SmartSearchProductList*).
9. Click **Save & Close**.
  - Repeat the steps 7–9 for every **Smart search filter** web part that displays the filtered data in the **Smart search results** web part.

The system places the web part on the page and customers can filter your products.



To add the product detail page, see [Configuring product pages](#). To combine it with the product filter, leave the **Transformation** field empty and select only the **Selected item transformation** field.