


The CMSDataGrid control displays page data in a customizable table.

- Provides a built-in data source for loading Kentico pages from the database. You do not need to write code for retrieving and binding the data.
- You can use the Visual Studio DataGrid designer to set up the appearance and behavior of the grid.


 **Inherits from:** [BasicDataGrid](#)
Web part equivalent (portal engine): Grid

Getting started

The tutorial shows how to use the CMSDataGrid to display a table containing all products from the Products section of the sample Corporate Site (CMS.Smartphone, CMS.Laptop, CMS.Software, CMS.Ebook and CMS.Product pages):

1. Create a new **Web form** in your web project.
2. Switch to the **Design** tab and drag a **CMSDataGrid** control from the toolbox onto the form.
3. Set the following properties for the CMSDataGrid:

- **ClassNames:** cms.smartphone;cms.laptop;cms.software;cms.ebook;cms.product
- **Path:** /Products/%

 This tells the control which page types to read and specifies the **Path** to the products section.

4. Right-click the CMSDataGrid on the form, select **AutoFormat...** and choose a scheme.
5. Right-click the CMSDataGrid again, select **Show Smart Tag** and then **Property Builder**.
 - The **CMSDataGrid1 Properties** dialog opens.
6. On the **General** tab, check **Allow sorting**.
7. Switch to the **Columns** tab and uncheck **Create columns automatically at run time**.
8. Add a new **Bound Column** from the **Available columns** list to the **Selected columns** list. Enter the following values into the appropriate fields:
 - **Header text:** Name
 - **Data Field:** SKUName
 - **Sort expression:** SKUName
9. Add another **Bound column**. Enter the following values in the appropriate fields:
 - **Header text:** Price
 - **Data Field:** SKUPrice
 - **Sort expression:** SKUPrice
10. Click **OK**.
11. Save the web form.
12. Right-click the web form in the Solution explorer and select **View in Browser**.

The resulting page displays a table similar to the following (depending on the chosen scheme):

Name	Price ▼
Apple MacBook Pro MC723LL/A	2199
HP EliteBook 8440p WJ681AW	1899
Dell XPS 15z	1596.99
HTC Sensation	799.99
Apple iPhone 4	759.99
Samsung Google Nexus S	599.99
Motorola Atrix 4G	529.98
Apple iPad 2	510.99
Microsoft Office Professional 2010	499.99
BlackBerry Torch 9800	459.99
Apple iPhone 3GS	424.99
Microsoft Windows 7 Ultimate	319.99
1 Hour of Web Development Consulting	150
Gold partner membership for 1 year	100
Silver partner membership for 1 year	60
Operating System Installation	49.99
Kentico CMS Information Sources	1

Configuration

You can set the following properties for the CMSDataGrid control:

CMSDataGrid properties	Description	Sample value
DataBindByDefault	Indicates whether the control automatically performs data binding during the Init event. (Inherited from BasicDataGrid)	
HideControlForZeroRows	Indicates whether the control should be hidden when no data is loaded. The default value is False. (Inherited from BasicDataGrid)	
PageSize	Sets the number of rows displayed per page.	
ProcessSorting	Indicates whether the control processes the grid sorting in the DataView instead of on the SQL level. (Inherited from BasicDataGrid)	
RelatedData	Custom data connected to the object. (Inherited from BasicDataGrid)	
SelectedItemTransformationName	Name of the transformation applied to selected items. Enter the transformation name in format <i><page type code name>.<transformation name></i> .	
SetFirstPageAfterSortChange	Indicates if the page index resets to the first page when sorting is changed. (Inherited from BasicDataGrid)	
SortAscending	Indicates whether the grid sorting is in ascending order. The default value is True. (Inherited from BasicDataGrid)	

SortField	Gets or sets the sort field. Allows you to set the default sort field. (Inherited from BasicDataGrid)	"NewsReleaseDate"
ZeroRowsText	Text shown if no records are found. This text is not visible when the control is hidden by the HideControlForZeroRows property. (Inherited from BasicDataGrid)	"No records found"

Page filtering properties	Description	Sample value
CheckPermissions	<p>Indicates if the control checks the permissions of the user viewing the page. If the value is <i>false</i> (default value) no permissions are checked.</p> <p>If true, the control only loads pages for which the user viewing the page has read permissions.</p>	
ClassNames	<p>Specifies which page types the control loads and displays. Identify page types through their code names, separated by semicolons (;).</p> <p>You can use the * wildcard as a substitute for any number of characters. For example <i>Product.*</i> includes the page types <i>Product.Camera</i>, <i>Product.CellPhone</i>, <i>Product.Computer</i> etc.</p> <p>If the property is left empty, the control retrieves all page types by default. In the case of menu and navigation controls, only <i>CMS.Menuitem</i> pages are loaded by default.</p> <p>Note: If the control loads all page types (empty value), only the data from the <i>View_CMS_Tree_Joined</i> and the <i>COM_SKU</i> table (for product pages) are available in the retrieved data. The specific fields of individual page types are not included. You need to keep this in mind when writing the code of transformations, WHERE conditions, ORDER BY expressions etc.</p>	"cms. news" "cms. news; cms. article"
CombineWithDefaultCulture	<p>Indicates whether the control loads pages from the website's default culture version if the required pages are not available in the user's selected culture.</p> <p>Only applies if you do not set the TreeProvider property manually.</p>	
CultureCode	Specifies the culture code of the pages that the control loads. If not specified, the control automatically uses the preferred culture of the user viewing the page.	"en-us"
DataSource	Allows you to manually assign a DataSet or DataTable containing the pages that the control displays. You do not need to set this property for standard scenarios.	
FilterOutDuplicates	Indicates if the control filters out duplicated (linked) pages from the data.	
MaxRelativeLevel	<p>Specifies the maximum number of content tree sub-levels from which the control displays pages. This number is relative, i.e. counted from the location of the page where the control is placed, not from the root of the website.</p> <p>Enter -1 to load all child pages.</p>	
Path	<p>Path of the pages that the control loads.</p> <p>See: Writing page path expressions</p>	
SelectOnlyPublished	If enabled, the control only loads published pages.	
TreeProvider	Gets or sets the <i>TreeProvider</i> object used by the control to access page data. If you do not assign a TreeProvider object, the control automatically creates a new instance.	

Page relationship properties	Description	Sample value
RelationshipWithNodeGUID	<p>If set, the control only loads pages that are related to the page with the specified Node GUID. You can find the Node GUID of pages on the Properties -> General tab in the Pages application.</p> <p>Enter <code>"11111111-1111-1111-1111-111111111111"</code> to dynamically load pages related to the current page.</p>	"36f8c4bc-f702-4736-8a25-a82295668794"
RelatedNodesOnTheLeftSide	<p>Determines whether the page specified through the RelationshipWithNodeGUID property is on the left or right side of the relationship.</p> <ul style="list-style-type: none"> • If true, the control displays pages on the right side of the relationship. • If false, the control displays pages on the left side of the relationship. 	
RelationshipName	Specifies the type of the page relationship. Enter the code name of the relationship.	"isrelatedto"

CMS Base control properties	Description	Sample value
CacheDependencies	<p>List of the cache keys on which the control's cached data depends. When the specified cache items change, the control clears its cache.</p> <p>Each item (dependency) must be on one line.</p> <p>If you leave this property empty, the control uses default dependencies.</p> <p>See also: Setting cache dependencies, Configuring caching</p>	cms.user all
CacheItemName	<p>Sets the name of the cache key used to store the control's content. If you leave the value empty, the system generates a default name containing variables, such as the control ID, the selected culture and the name of the user who loaded the page.</p> <p>The system cache is shared by all pages in your application, so cache item names representing different data must be unique globally. If you have multiple controls that load the same data, you can share the cache keys between the controls (optimizes loading of content and avoids redundant data in the cache).</p> <p>If the content displayed by the control depends on variables, such as URL parameters, you can set a custom name dynamically in the page's code behind.</p> <p>See also: Caching the data of page components, Configuring caching</p>	"CMSRepeaterNews" + Request.QueryString["id"].ToString()
CacheMinutes	<p>Sets the number of minutes for which the control caches content retrieved from the database.</p> <ul style="list-style-type: none"> • 0 indicates that control does not cache content • -1 indicates that the control uses the site-level content caching settings <p>Allows you to set up caching of content so that the control doesn't have to retrieve content from the database on each request.</p> <p>The caching mechanism uses absolute expiration time. This means that cache items expire after a specified time period even if the page containing the control wasn't requested.</p> <p>See also: Caching the data of page components, Configuring caching</p>	

FilterControl	Gets or sets the filter control used to limit the data read by the control.	
FilterName	Gets or sets the code name of the filter control used to limit the data read by this control.	
OrderBy	Gets or sets the ORDER BY clause of the SQL query that the control uses to load data.	"NewsReleaseDate DESC"
SelectedColumns	Database table columns that the control loads for pages, separated by commas (,). If null or empty, the control loads all available columns.	
SiteName	Specifies the code name of the Kentico website for which the control loads data.	
StopProcessing	If true, the control stops all processing — does not load or display any data or other HTML output.	
TopN	Specifies the maximum number of database records that the control loads.	
WhereCondition	Gets or sets the WHERE clause of the SQL query that the control uses to loads data.	"Product Price > 100"



Note: The CMSDataGrid is derived from the ASP.NET DataGrid control, so you can also set any of the [base properties](#).

Appearance and styling

You can modify the appearance of the CMSDataGrid control by setting the standard properties available for the [ASP.NET DataGrid](#) control (inherited through the BasicDataGrid).

A common way to set the appearance of DataGrid controls is to assign a skin through the **SkinID** property. You can define skins in *.skin* files under individual themes in the **App_Themes** folder. See the [.NET Skins and Themes](#) documentation for more information.