

JSON API List Data Store

- [Introduction](#)
- [JSON API Properties](#)
 - [New feature in Joget DX version 8.1 onwards.](#)
 - [Change 1: New property Auto Handling Filters in JSON API List Data Store](#)
 - [Change 2: New row creation mapping method in JSON API List Binder](#)
 - [Change 3: New property Disable object keys as columns in JSON API List Binder](#)
 - [Configure JSON API](#)
- [Download Demo App](#)

New Feature

This is a new feature in Joget DX 8.

Introduction

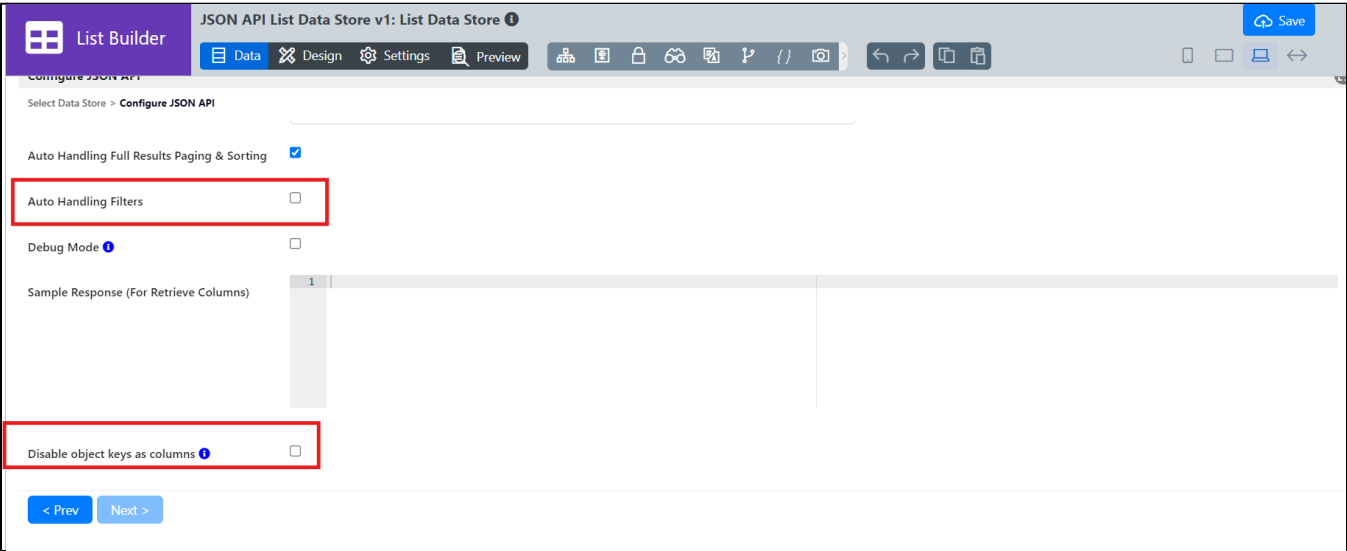
JSON API List Data Store allows one to populate a List using JSON calls.

JSON API Properties

New feature

New feature in **Joget DX version 8.1 onwards.**

1. Added new property **Auto Handling Filters** for JSON API List Binder and perform filtering using [CQengine](#)
2. Support using object key to create row.
3. Added new property **Disable object keys as columns** to join object key as single column value and object value as another column value.

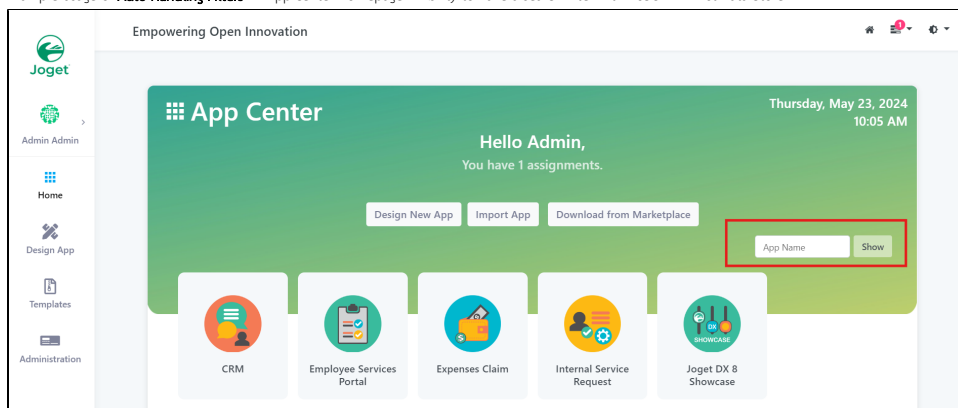


The screenshot shows the 'List Builder' interface for 'JSON API List Data Store v1: List Data Store'. The 'Configure JSON API' tab is active. Under 'Select Data Store > Configure JSON API', there are three settings: 'Auto Handling Full Results Paging & Sorting' (checked), 'Auto Handling Filters' (unchecked and highlighted with a red box), and 'Debug Mode' (unchecked). Below these is a 'Sample Response (For Retrieve Columns)' section with a table containing one row with the value '1'. At the bottom, 'Disable object keys as columns' (unchecked and highlighted with a red box) is visible. Navigation buttons '< Prev' and 'Next >' are at the bottom left, and a 'Save' button is at the top right.

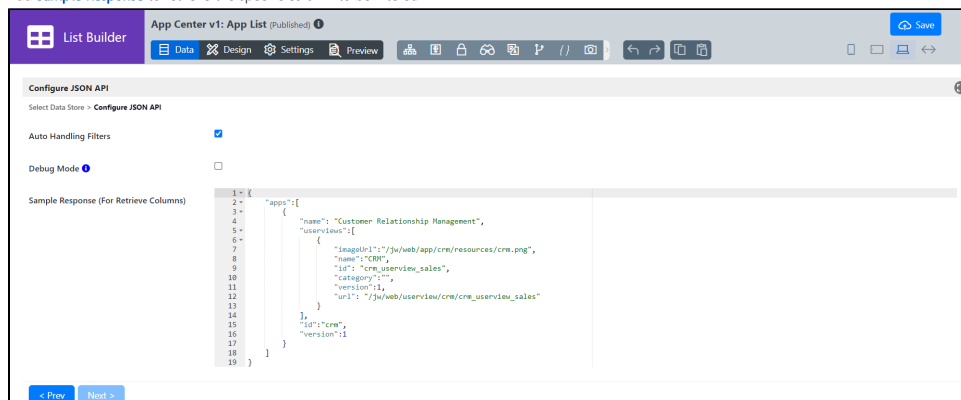
Figure 1 : Auto Handling Filters and Disable object keys as column in Joget DX version 8.1 onwards.

Change 1: New property **Auto Handling Filters** in JSON API List Data Store

- Once enabled, you can use the List Builder filter to filtering the JSON API response even the API end point does not support searching/filtering options.
- Currently, it support all the filter types in List Builder.
- Example usage of **Auto Handling Filters** in App center Homepage > Ability to have a search filter within JSON API List Data Store



- Configure JSON API for Auto Handling Filters
 - Open the List Builder in App center,
 - Click **Data > Configure JSON API**
 - Check the Auto Handling Filters box.
 - Add **Sample Response** to retrieve the specific column to be filtered



Change 2: New row creation mapping method in JSON API List Binder

- Before the change, rows only able to create through array in the JSON API response. Example, using **data** in **Base JSON Object Name** for **Multirow Data** field to create row

```
{
  data : [
    {
      key1 : "value1",
      key2 : "value2"
    }
  ]
}
```

- When the JSON API response does not having array but only containing object, it will not able to create row previously. Example:

```
{
  "data": {
    "key1": {
      "attr1": "Value 1",
      "attr2": "Value 2",
    },
    "key2": {
      "attr1": "Value 1",
      "attr2": "Value 2",
    }
  }
}
```

Let say, we want each key in **data** object to create as rows, we can use **data<>** in **Base JSON Object Name for Multirow Data** in this new change. It will tell the plugin to loop all the keys of **data** and create it as row.

- This changes also supporting inner object key as rows. Example:

```
{
  "key1" {
    "data": {
      "ckey1": {
        "attr1": "Value 1",
        "attr2": "Value 2",
      }
    }
  },
  "key2" {
    "data": {
      "ckey2": {
        "attr1": "Value 1",
        "attr2": "Value 2",
      }
    }
  }
}
```

We want to create row based on the **data** object keys. In this case, using **<>.data<>** in **Base JSON Object Name for Multirow Data**. The first **<>** is to tell it loop all the keys of root object, then **.data<>** is to tell it to create row based on object keys of **data** object.

Change 3: New property **Disable object keys as columns** in JSON API List Binder

- Before this changes, all the keys of object will be create as columns. Example:

```
{
  data : [
    {
      key1 : "value1",
      key2 : "value2"
      key3 : {
        ckey1 : "child value1",
        ckey2 : "child value2"
      }
    }
  ]
}
```

Will resulting columns **key1, key2, key3.ckey1, key3.ckey2**.

- In this new changes, once enabled **Disable object keys as columns**, for none **Base JSON Object Name for Multirow Data** object, it will join the object keys as single column and the value as another column. For the same response above, it will resulting column as **key1, key2, key3.KEY, key3.VALUE**. The value of **key3.KEY** will be **ckey1;ckey2** and value of **key3.VALUE** will be **child value1;child value2**

Configure JSON API

Configure JSON API

Select Data Store > Configure JSON API

JSON URL *

Call Type

POST

Body Type

Request Parameters

Request Parameters

NAME	VALUE

Request Headers

NAME	VALUE

Passover Current Request Cookies

☐

Base JSON Object Name for Multirow Data

Total Record Count JSON Object Name

Primary Key *

id

Auto Handling Full Results Paging & Sorting

☒

Debug Mode ?


☐

Sample Response (For Retrieve Columns)

1	
---	--

Figure 1: Configure JSON API

Name	Description
JSON URL	<div>URL to be called. Mandatory Field.</div> <div>//You may also insert the following URL parameters to enable pagination "https://example.com/api/data?pageSize={size}&startOffset={start}"</div> <div><div><div>i</div><div><ul style="list-style-type: none">• <code>pageSize={size}</code>: This parameter is intended to specify the number of items (data entries) to be returned in a single page or response. The actual value for <code>{size}</code> would be replaced with a numerical value indicating the desired page size.• <code>startOffset={start}</code>: This parameter is intended to specify the starting offset or index from where the data should be retrieved. The actual value for <code>{start}</code> would be replaced with a numerical value indicating the starting point for fetching data.</div></div></div>
Call Type	<ul style="list-style-type: none">• GET• POST• PUT• DELETE

Body Type (Only Applicable to Call type = POST or PUT)	Select the POST or PUT method: <ul style="list-style-type: none"> Request Parameters <ul style="list-style-type: none"> Add name(s) and value(s) to the request header <table border="1"> <thead> <tr> <th>Field</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>Name (or Type) of the Request Header</td> </tr> <tr> <td>Value</td> <td>Link or Value of the Request Header</td> </tr> </tbody> </table> Request Parameters as JSON Payload <ul style="list-style-type: none"> When POST Method is set to "POST Parameters", these parameters will be sent as a <code>UrlEncodedFormEntity</code>. When POST Method is set to "POST Parameters as JSON Payload", these parameters will be sent as a <code>StringEntity</code> in a form of an escaped JSON string. Custom JSON Payload <ul style="list-style-type: none"> Write your own JSON to be the payload. It will be sent as a <code>StringEntity</code>. This option is available only when "Custom JSON Payload" is selected. 	Field	Description	Name	Name (or Type) of the Request Header	Value	Link or Value of the Request Header
Field	Description						
Name	Name (or Type) of the Request Header						
Value	Link or Value of the Request Header						
Request Headers	Add name(s) and value(s) to the request header <table border="1"> <thead> <tr> <th>Field</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>Name (or Type) of the Request Header</td> </tr> <tr> <td>Value</td> <td>Link or Value of the Request Header</td> </tr> </tbody> </table>	Field	Description	Name	Name (or Type) of the Request Header	Value	Link or Value of the Request Header
Field	Description						
Name	Name (or Type) of the Request Header						
Value	Link or Value of the Request Header						
Passover Current Request Cookies	When checked, Current Request Cookies will be passed to the server with the request.						
Base JSON Object Name for Multirow Data	Name of the base JSON object (e.g. data).						
Total Record Count JSON Object Name	Total number of records in the JSON object (e.g. data.total)						
Primary Key	Unique Identifier of the JSON object (e.g. data.id). Mandatory Field.						
Auto Handling Full Results Paging & Sorting	When checked, This option enables automatic sorting for the results returned through the JSON URL. <div>  Uncheck this, if you are performing pagination. </div>						
Debug Mode	Show relevant debug entries in the server log for debugging purposes.						

Sample Response (for Retrieve Columns)

Enter a Sample Response of how the JSON object is formatted.

 Must insert a sample response into the field if you are performing pagination.

e.g.

JSON Sample Response

```

{
  "data": {
    "id": "G-001",
    "description": "",
    "name": "Managers",
    "organization.name": ""
  }
}

```

Download Demo App

JSON API List Data Store

Admin Admin

Home

Welcome

JSON API List Data Store

Thu, 20 Apr 2023

Home > Home > JSON API List Data Store

10

Show

	name	code
<input type="checkbox"/>	Afghanistan	AF
<input type="checkbox"/>	Åland Islands	AX
<input type="checkbox"/>	Albania	AL
<input type="checkbox"/>	Algeria	DZ
<input type="checkbox"/>	American Samoa	AS
<input type="checkbox"/>	Andorra	AD
<input type="checkbox"/>	Angola	AO
<input type="checkbox"/>	Anguilla	AI
<input type="checkbox"/>	Antarctica	AQ
<input type="checkbox"/>	Antigua and Barbuda	AG

243 items found, displaying 1 to 10.

«

<

1

2

3

4

5

6

7

8

>

»

CSV

Excel

XML

PDF

Powered by Joget




Figure 2: Download the demo app below to view how JSON API is used to populate a list.

- [app_kb_dx8_json_api_list_data_store.jwa](#)