

# List Grid

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## Introduction

The **List Grid** is best described similar to a **Form Grid**, but with the capability to add new records from a **Datalist** instead.

The Advanced Grid is only available on **Professional** and **Enterprise** Edition.

## Get Started

The easiest way to see how the List Grid works is to create a new app. Here are the steps:

1. Start the **Joget Server** and open the **App Center**.
2. Log in as **admin** and click on the **Design New App** button. (see Figure 1)

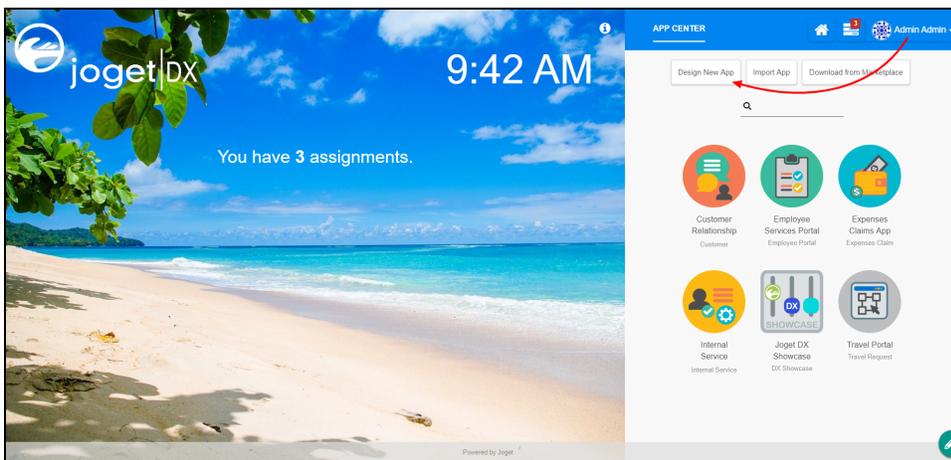


Figure 1

3. Fill up the **App Details** as follows and click **Save** (see Figure 2):
  - i. App ID: **listgrid**
  - ii. App Name: **List Grid**

The image shows a web interface for designing a new application. At the top, there is a dark green header with the text "DESIGN NEW APP" in white. Below the header is a light gray section titled "APP DETAILS". Under this section, there are three rows of input fields. The first row has the label "App ID" and the value "listgrid". The second row has the label "App Name" and the value "List Grid". Below these fields is a link that says "Show Advanced Options". At the bottom of the form, there are two green buttons: "Save" and "Cancel".

Figure 2

4. You will be directed to the **Design App**. Click on the **Create New Form** button and fill up the Form Details as follows (see Figure 3):
  - a. Form ID: **formA**
  - b. Form Name: **Form A**
  - c. Table Name: **lg\_a**

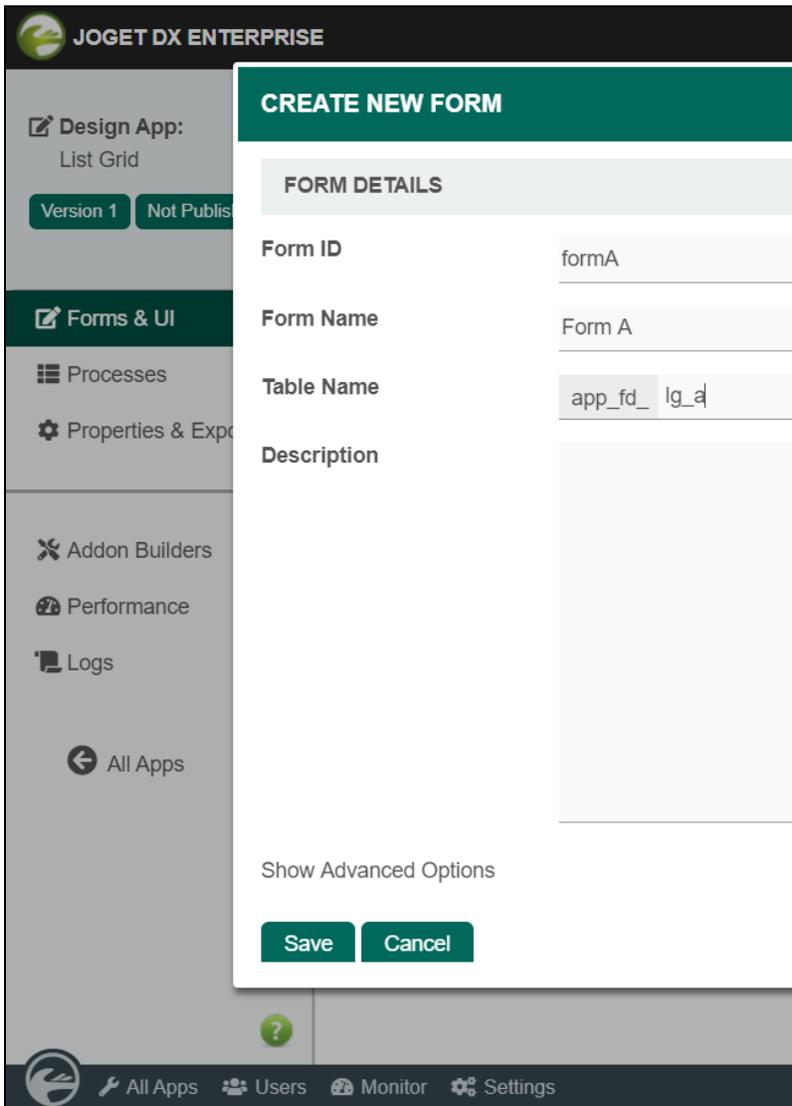


Figure 3

5. Click on **Save** and you will be directed to the **Form Builder**.
6. Drag and drop a **Text Field** element on to the canvas.
7. **Hover** the mouse over the **Text Field** element on the canvas and click on **Edit** to open up the Edit Text Field properties.
8. Fill up the **Edit Text Field** properties as follows and click on **OK** (see Figure 4):
  - i. ID: **name**
  - ii. Label: **Name**

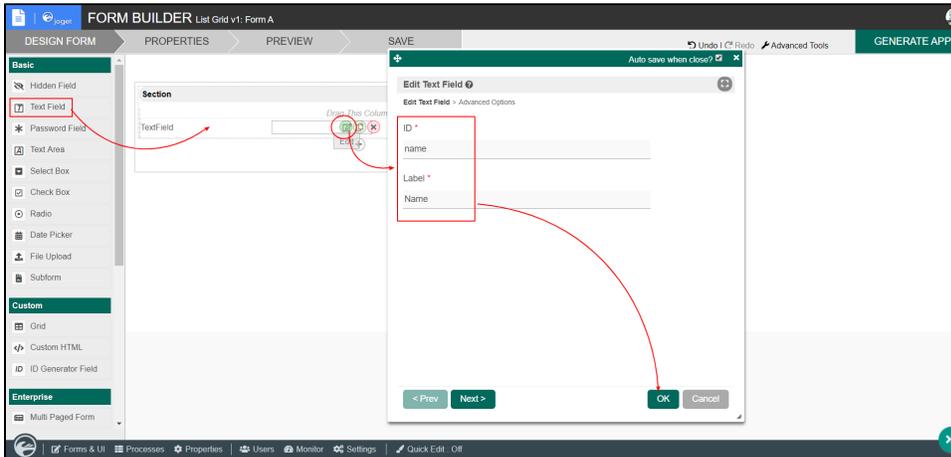


Figure 4

9. Click on **Save** on the **Form Builder**.
10. Click on **Generate App**, select **Generate CRUD** and click **OK** (see Figure 5)
11. Once the **App Generator** is complete, click on the link to launch the userview.
12. Click on **New** button and **Save** at least 2 records of data (see Figure 5)

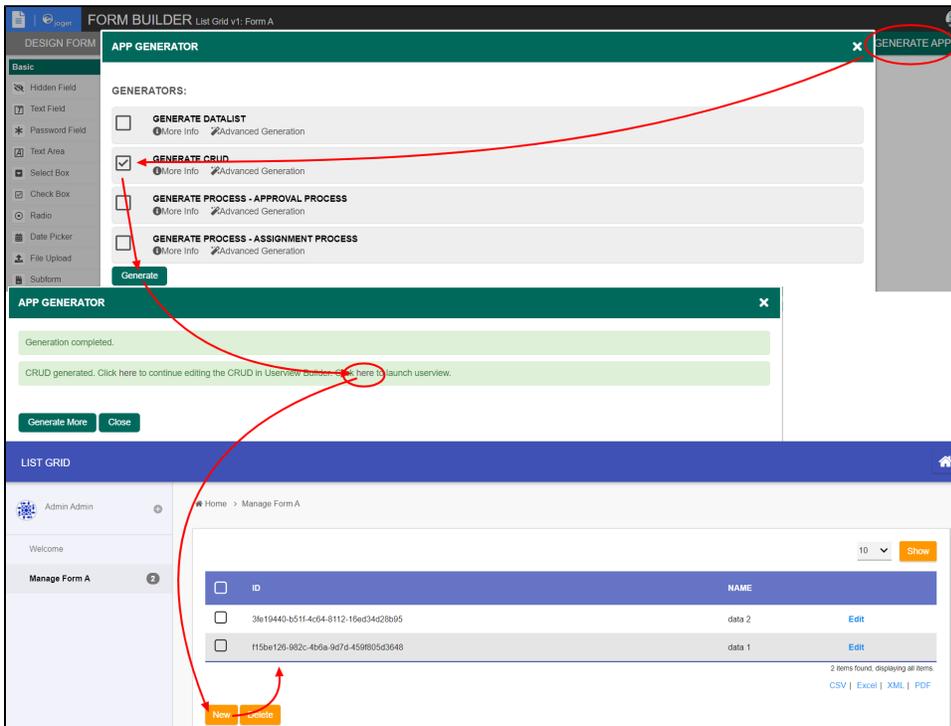


Figure 5

13. Head back to the **Design App**.
14. Click on the **Create New Form** button and fill up the Form Details as follows:
  - a. ID: **formB**
  - b. Form Name: **Form B**
  - c. Table Name: **lg\_b**
15. Click on **Save** and you will be directed to the **Form Builder**.
16. Drag and drop a **List Grid** element on to the canvas.
17. **Hover** the mouse over the **List Grid** element on the canvas and click on **Edit** to open up the Edit List Grid properties.

18. Fill up the **Edit List Grid** properties as follows and click on **Next** (see Figure 6):

- a. Datalist: **List - Form A**
- b. Columns:

Field ID	Label
name	Name

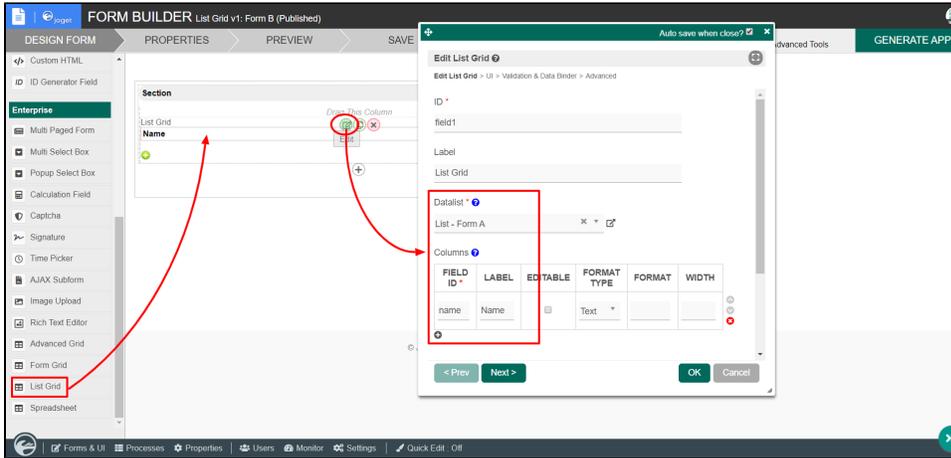


Figure 6

19. Click on **Preview**, click on the **plus** sign on the List Grid and it will open up a popup list displaying the data you recently entered in step 12. Tick any number of rows and click **Submit** button. The name of the data selected will be displayed in the List Grid.

## List Grid Properties

### Edit List Grid

+
Auto save when close? 
✕

**Edit List Grid** ?
⌵

Edit List Grid > UI > Validation & Data Binder > Advanced

ID \*

Label

Datalist \* ?  ✕ 🔗

Columns ?

FIELD ID *	LABEL	EDITABLE	FORMAT TYPE	FORMAT	WIDTH
name	Name	<input type="checkbox"/>	Text ▾	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>

⬆ ⬇ ✕ ⬆

< Prev
Next >

OK
Cancel

Name	Description										
ID	<p>Element ID (By declaring as "account", a corresponding database table column "c_account" will be created)</p> <p>Please see <a href="#">Form Element</a> for more information about defining the ID and list of reserved IDs.</p>										
Label	Element Label to be displayed to the end-user.										
Datalist	Datalist to display for selection.										
Columns	<p>The columns defined here must be correspondent to the Data List chosen above.</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Value</td> <td> <p>Field ID of the target form.</p> <p>Example:</p> <p>In the "Account" form sourced in the Datalist "Account Listing", there are Form Elements with the ID "id", and "accountName".</p> </td> </tr> <tr> <td>Label</td> <td>Column Label.</td> </tr> <tr> <td>Editable</td> <td>Yes/No</td> </tr> <tr> <td>Format Type</td> <td> <p>If you would like to format the returned value, you may make use of the format type.</p> <p>Default choice: Text</p> <p><b>Available Format Types</b></p> <ul style="list-style-type: none"> <li>• <b>Text</b> - formats the value as text</li> <li>• <b>HTML</b> - outputs data as HTML</li> <li>• <b>Multiple lines text</b> - maintains the spacing formatting for multiple lines text, such as TextArea.</li> <li>• <b>Decimal</b> - formats as a decimal. 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Original Date and New Date formats are expected in the "Format" field.</li> </ul> <div style="border: 1px solid blue; padding: 5px; margin: 10px 0;"> <p><b>Format:</b> (original format) (new format)</p> <p><u>Example of usage:</u></p> <p><b>Original value:</b> 5/23/2012</p> <p><b>Expected value:</b> 2012/5/23</p> <p><b>Format :</b> M/d/yy/M/d</p> <p><b>Note:</b> Please refer to <a href="#">Java SimpleDateFormat</a> for date format.</p> </div> <ul style="list-style-type: none"> <li>• <b>File</b> - Show the value as a link to the attachment. <b>Form Def ID</b> is expected in the "Format" field.</li> </ul> <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p> <b>Expected Form Def ID</b></p> <p>Specify the <b>Form Def ID</b> that contains the actual <b>File Upload</b> form element.</p> </div> <ul style="list-style-type: none"> <li>• <b>Image</b> - Show the value as a thumbnail of the attachment. <b>Form Def ID</b> is expected in the "Format" field.</li> </ul> <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p> <b>Expected Form Def ID</b></p> <p>Specify the <b>Form Def ID</b> that contains the actual <b>Image Upload / File Upload</b> form element.</p> </div> <ul style="list-style-type: none"> <li>• <b>Options</b> - Show the label of a multiple-choice element given the value given. <b>Form Def ID</b> is expected in the "Format" field.</li> </ul> <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p> <b>Expected Form Def ID</b></p> <p>Specify the <b>Form Def ID</b> that contains the actual <b>Select Box / Radio / CheckBox</b> form element.</p> </div> </td></tr></tbody> </table>	Name	Description	Value	<p>Field ID of the target form.</p> <p>Example:</p> <p>In the "Account" form sourced in the Datalist "Account Listing", there are Form Elements with the ID "id", and "accountName".</p>	Label	Column Label.	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Format	Depending on your chosen Format Type, an additional argument may be entered here.										
Width	<p>Column width in characters.</p> <div style="border: 1px solid #ccc; height: 20px; width: 100%; margin-top: 5px;"></div>										

		Sample
		200px

UI

Sorting

+

**UI**

Edit List Grid > **UI** > Validation & Data Binder > Advanced

**Sorting**

Enable Sorting Feature

Field ID for Sorting

Name	Description
Enable Sorting Feature	Determines if the ordering of rows is to be enforced.
Field ID for Sorting	Field to keep the ordering sequence; must correspond with a field id in the target form.

List

**List**

Insert Button Label

Name	Description
Insert Button Label	Insert Button Label

Form

**Form**

Form to Edit Row 

Form Submit Button Label (Normal Mode)

Form Submit Button Label (Readonly Mode)

Display field as Label when readonly?

Name	Description
Form to Edit Row	After the addition of row, the user may edit the record row by opening it in the Form defined here.
Form Submit Button Label (Normal Mode)	The label of the Submit button in normal mode.
Form Submit Button Label (Readonly Mode)	The label of the Submit button in read-only mode.
Display field as Label when readonly?	Displays the value of the element as plain text when an element is set to "Readonly".

**Grid**

Grid	
Readonly	<input type="checkbox"/>
Disable Add Feature	<input type="checkbox"/>
Disable Delete Feature	<input type="checkbox"/>
Delete confirmation message	<input type="text" value="Delete row?"/>
Show Row Numbering?	<input type="checkbox"/>
Paging Size	<input type="text" value="20"/>
Popup Dialog Height	<input type="text" value="500"/>
Popup Dialog Width	<input type="text" value="900"/>

Name	Description
Readonly	Determines if the element is editable.
Disable Add Feature	Determines if a new row can be added.
Disable Delete Feature	Determines if a row can be removed.
Delete confirmation message	Confirmation message when deleting a row.
Show Row Numbering?	Show an additional column on the leftmost to denote numbering.
Paging Size	Items to be displayed per page.
Popup Dialog Height	Height in character <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p><b>Sample</b></p> <p>500px</p> </div>
Popup Dialog Width	Width in character <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p><b>Sample</b></p> <p>90%</p> </div>

## Validation & Data Binder

### Validation

### Validation

Validator

Unique Column ?

Min Number of Row Validation (Integer)

Max Number of Row Validation (Integer)

Error Message

Name	Description
Validator	Attach a Validator plugin to validate the input value. <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p><span style="font-size: 1.2em; color: blue;">i</span> <b>When will validation takes place?</b></p> <p>Validation will take place whenever a form is submitted except when it is submitted as "Save as Draft".</p> </div>
Unique Column	Column/Field ID to identify record ID.
Min Number of Row Validation (Integer)	Min Number of Row Validation (Integer)
Max Number of Row Validation (Integer)	Max Number of Row Validation (Integer)
Error Message	Error message to be shown when row requirements set above is not met.

**Data Binder**

### Data Binder

Load Binder

Store Binder

Name	Description
Load & Save Binder	<p><b>Load Binder</b> allows you to customize the method for data retrieval to populate the list grid in the form.</p> <p><b>Save Binder</b> allows you to customize the method on how the list grid row records are saved to.</p> <p>This option is empty by default. An empty binder means that the list grid records will be saved/loaded as a JSON format in the parent form &amp; database table. See the list of available <a href="#">Form Binders</a>.</p>

The recommended binder to use is the [Multirow Form Binder](#) so that each record is saved into a child database table via a subform definition. The binder will update the foreign key "parent id" into each child record to point to the parent database table.

#### Child Form Data Deletion Options

### Child Form Data Deletion Options

*Please note that these options will be override if a higher level value is set.*

Delete Associated Grid Data?

Delete Associated Child Form Data?

Delete Files?

Abort Related Running Processes?

Name	Description
Delete Associated Grid Data?	<p>If the popup form has a grid element(s), this option will delete the inner grid data.</p> <div style="border: 1px solid orange; padding: 5px;"> <p><b>Caution</b></p> <p>These 3 options: (Delete Associated Grid Data, Delete Associated Child Form Data, Delete Files), in combination, does apply to nested grid/child elements.</p> <p>These options traverse the entire form tree. Upon encountering a 'false' condition, it will move on to the next grid/child element.</p> <p>Example: Consider that the popup form has a form grid, form grid has a subform, subform has a file upload element with <i>abc.pdf</i>. If all options are checked, <i>abc.pdf</i> will be deleted. If all except ONE of the options is checked, <i>abc.pdf</i> will NOT be deleted.</p> </div>
Delete Associated Child Form Data?	<p>If the popup form has a child element(s), this option will delete the child data.</p> <div style="border: 1px solid orange; padding: 5px;"> <p><b>Caution</b></p> <p>These 3 options: (Delete Associated Grid Data, Delete Associated Child Form Data, Delete Files), in combination, does apply to nested grid/child elements.</p> </div>
Delete Files?	<p>If the popup form contains a file upload element, this option will delete the actual uploaded file(s).</p> <div style="border: 1px solid orange; padding: 5px;"> <p><b>Caution</b></p> <p>These 3 options: (Delete Associated Grid Data, Delete Associated Child Form Data, Delete Files), in combination, does apply to nested grid/child elements.</p> </div>
Abort Related Running Processes?	<p>If there are process instances related to the deleted row, these options will abort those process instances.</p>

Advanced

## Advanced

Edit List Grid > UI > Validation & Data Binder > **Advanced**

URL Request  
Parameters for  
Datalist

PARAMETER *	FIELD ID	DEFAULT VALUE
<input type="text"/>	<input type="text"/>	<input type="text"/>

Name	Description								
URL Request Parameters for Datalist	Refine the target Data List selections by defining the filter criteria here. <table border="1"><thead><tr><th>Name</th><th>Description</th></tr></thead><tbody><tr><td>Parameter</td><td>Target Data List filter parameter name</td></tr><tr><td>Field ID</td><td>Current form element field ID</td></tr><tr><td>Default Value</td><td>Default Value for the search parameter</td></tr></tbody></table>	Name	Description	Parameter	Target Data List filter parameter name	Field ID	Current form element field ID	Default Value	Default Value for the search parameter
Name	Description								
Parameter	Target Data List filter parameter name								
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## Download Demo App

- Demo app for List Grid: [APP\\_list\\_grid\\_dx\\_kb.jwa](#).
- Demo app using JDBC in List Grid: [APP\\_list\\_grid\\_multitrow\\_jdbc\\_dx\\_kb.jwa](#) (using MySQL syntax).