

Calculation Field

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Introduction

Calculation Field allows you to perform a series of arithmetic computations to a set or a series of fields.

The Calculation Field is only available on **Professional** and **Enterprise** Edition.

Get Started

The easiest way to see how the Advanced Grid works is to use the existing built-in App Expenses Claims and look at an existing form in the app. Here are the steps:

1. Start the **Joget Server** and open the **App Center**.
2. Log in as **admin** and click on the pencil icon on the **Expenses Claim** to open the Design App. (see Figure 1)

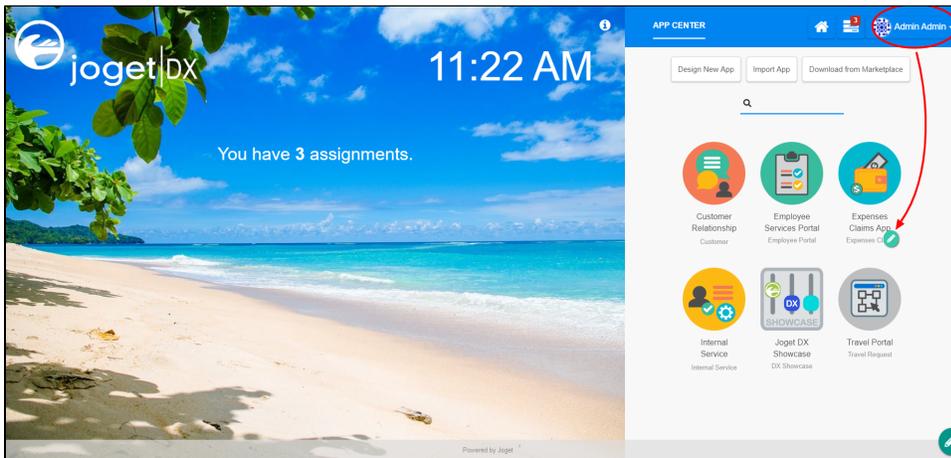


Figure 1

3. Under **FORMS** column, click on **Expense Claim Form** (see Figure 2)

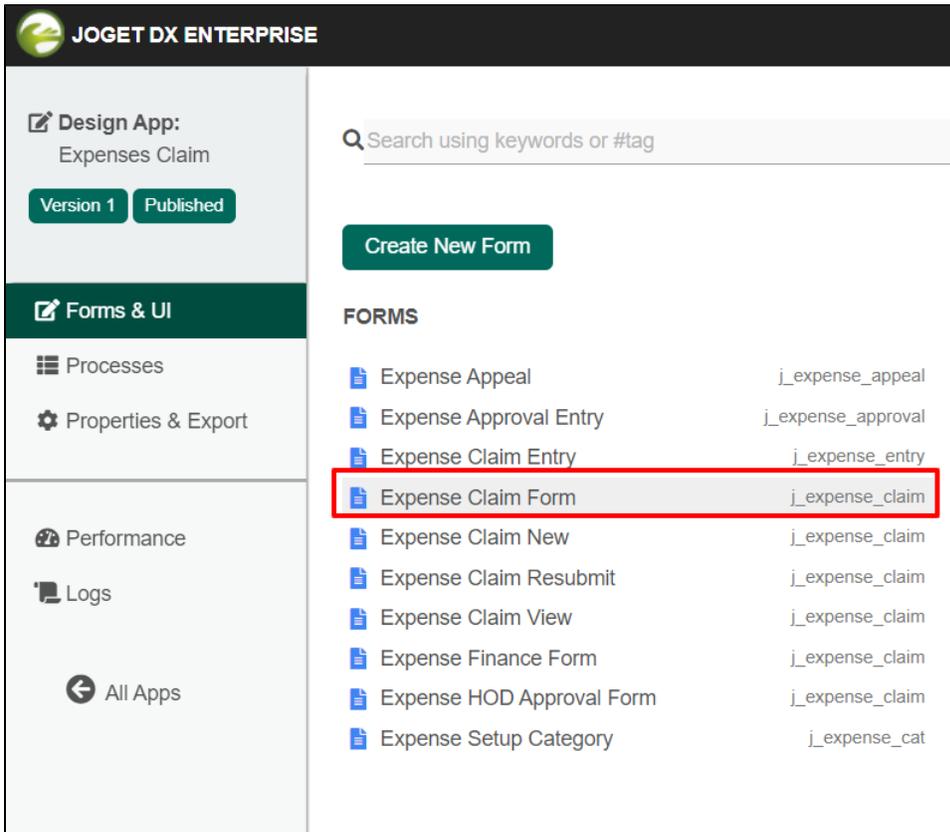


Figure 2

4. Hover the mouse over the **Calculation Field** labeled **Total Amount \$** on the canvas and click on **Edit** to open up the Edit Calculation Field properties.
5. Take note of the **Variables** field. The **spECD** value is referring to another field within the form (see Figure 3).

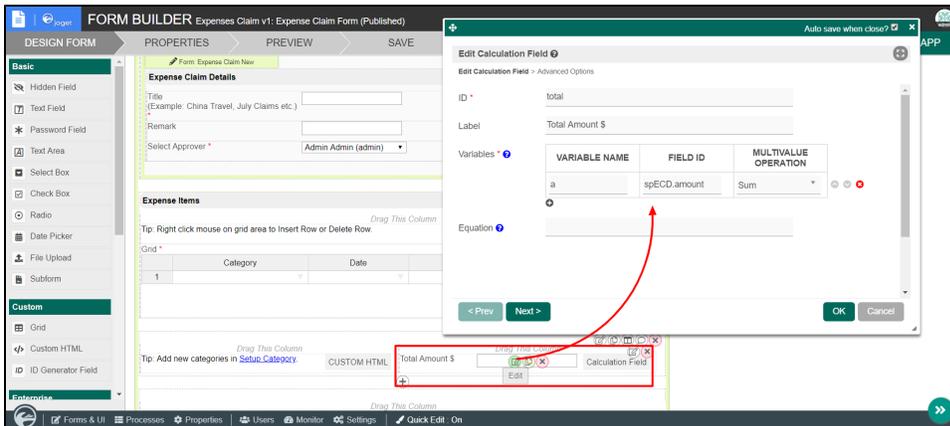


Figure 3

6. **Hover** the mouse over the **Grid** element on the canvas **above** the **Calculation Field** and click on **Edit** to open up the Edit Grid properties (see Figure 4).

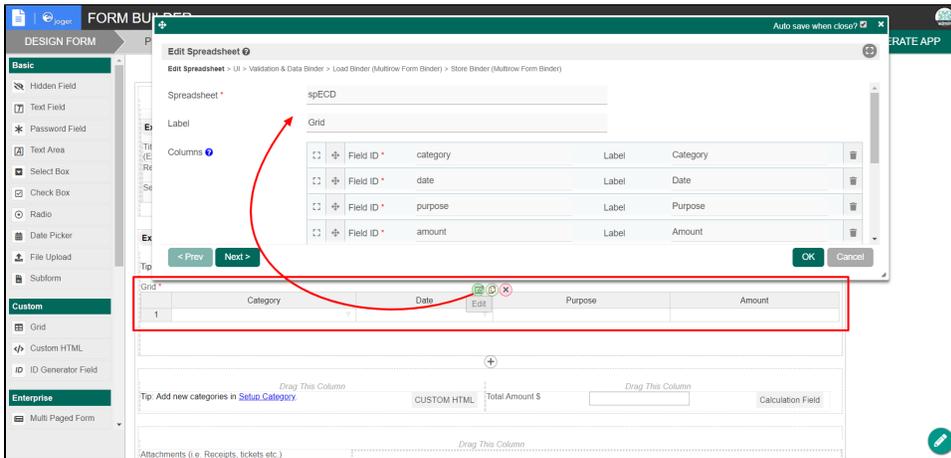


Figure 4

7. In Figure 5, we are summing at a specific column from a Form Grid.

Form Grid ID: **spECD**

Column in Form Grid: **amount**

Field ID to be filled in: **spECD.amount**

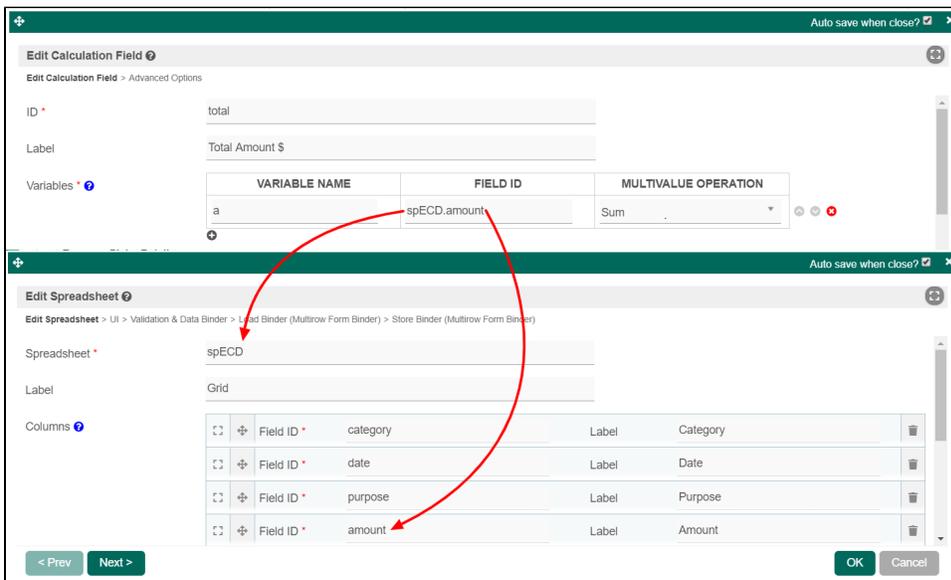


Figure 5

8. Click on **Preview** and enter values into the **Amount** column in the Grid to see the Total Amount \$ automatically adds the values.

Calculation Field Properties

Edit Calculation Field

+
Auto save when close?
✕

Edit Calculation Field ⊞

Edit Calculation Field > Advanced Options

ID *

Label

Variables * ?

VARIABLE NAME	FIELD ID	MULTIVALUE OPERATION
+		

Equation ?

< Prev
Next >
OK
Cancel

Name	Description								
ID	<p>Element ID (By declaring as "total", a corresponding database table column "c_total" will be created)</p> <p>Please see Form Element for more information about defining the ID and list of reserved IDs.</p>								
Label	Element Label to be displayed to end user.								
Variables	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f0f0f0;"> <th style="width: 15%;">Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Variable Name</td> <td> <p>Declare a name to store current row equation result.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p>i Examples</p> <ul style="list-style-type: none"> subtotal discountPercent charges </div> </td> </tr> <tr> <td>Field ID</td> <td> <p>Form Field ID to retrieve.</p> <p>If you are totaling a form grid column, use this format: formGridId.columnId where the first part before the decimal tells Joget which form grid to use and the second part after the decimal tells Joget which column is the specified form grid to use for calculation.</p> </td> </tr> <tr> <td>Multivalue Operation</td> <td> <ul style="list-style-type: none"> Sum Avg Min Max </td> </tr> </tbody> </table>	Name	Description	Variable Name	<p>Declare a name to store current row equation result.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p>i Examples</p> <ul style="list-style-type: none"> subtotal discountPercent charges </div>	Field ID	<p>Form Field ID to retrieve.</p> <p>If you are totaling a form grid column, use this format: formGridId.columnId where the first part before the decimal tells Joget which form grid to use and the second part after the decimal tells Joget which column is the specified form grid to use for calculation.</p>	Multivalue Operation	<ul style="list-style-type: none"> Sum Avg Min Max
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Multivalue Operation	<ul style="list-style-type: none"> Sum Avg Min Max 								

Equation	<p>Arithmetic operation using the variables declared above.</p> <div style="border: 1px solid #ccc; padding: 10px; margin-bottom: 10px;"> <p>i Example</p> <ul style="list-style-type: none"> • subtotal - (subtotal * discountPercent / 100) • subtotal - discountAmount • subtotal - charges (Correct) • subtotal-charges (Wrong) </div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>i Important Notes</p> <ul style="list-style-type: none"> • It is important to include spacing in between operators. • The position and spacing of all elements of an equation must be exactly as they are to appear in printed form. </div>
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Advanced Options

Data

Data

Validator ▼

Name	Description
Validator	<p>Attach a Form Validator plugin to validate the input value.</p> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>i When will validation takes place?</p> <p>Validation will takes place whenever form is submitted except when it is submitted as "Save as Draft".</p> </div>

Format

Format

Formatting Style * US Style Formatting (1,000.00) ▼

Number of Decimal *

Prefix

Postfix

Use Thousand Separator?

Store as Numeric Value?

Name	Description
Formatting Style	<ul style="list-style-type: none"> • US Style Formatting (1,000.00) • European Formatting (1.000,00)
Number of Decimal	Number of Decimal
Prefix	Prefix of the calculated value
Postfix	Postix of the calculated value
Use Thousand Separator?	Thousand Separator toggle.
Store as Numeric Value?	Toggle to store as numeric value instead of a string

UI

UI

Hidden?

Display as Label?

Name	Description
Hidden?	Shows this element to the end user.
Display as Label?	Displays the value of the element as plain text.

Workflow

Workflow	
Workflow Variable	<input type="text"/>

Name	Description
Workflow Variable	<p>If the form is part of a workflow process, upon saving of the form (by clicking on "Save as Draft" or "Save" button). The value in this input field will be saved into the corresponding workflow variable named here.</p> <div><p> Using a non-existent Workflow Variable name</p><p>You will get the following warning with the name printed out (e.g. status) in the server log if you attempt to map to a non-existent Workflow Variable.</p><pre>context attribute status does not exist in process context - adding new attributes to the process context is not allowed</pre></div>