

# 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)

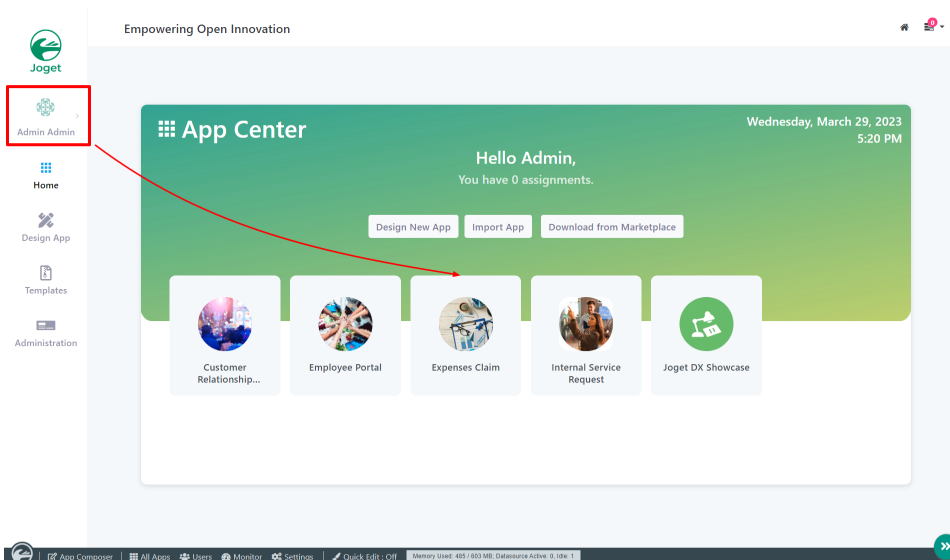


Figure 1

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

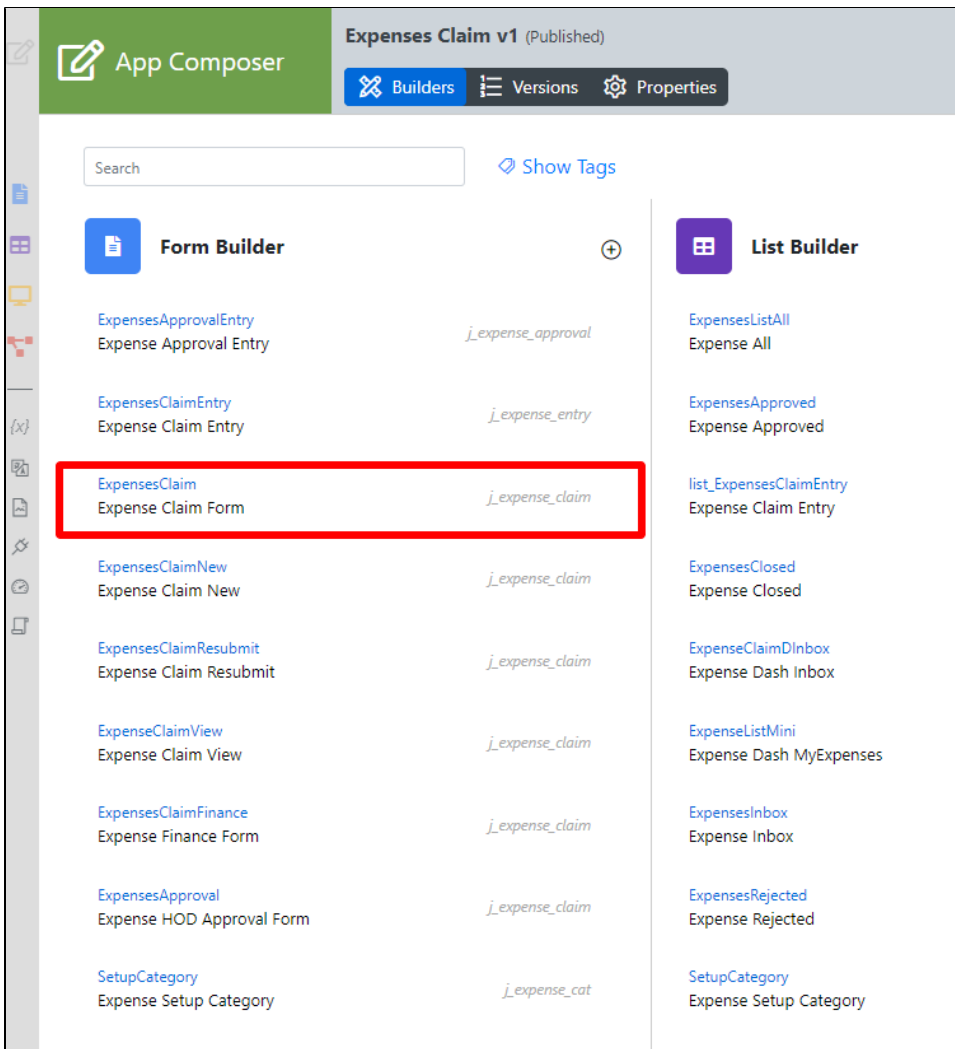


Figure 2

4. Click on the **Calculation Field** labelled **Total Amount \$** on the canvas to open up the Configure Calculation Field properties.
5. Take note of the **Variables** field. The **spECD** value is referring to another field within the form (see Figure 3).

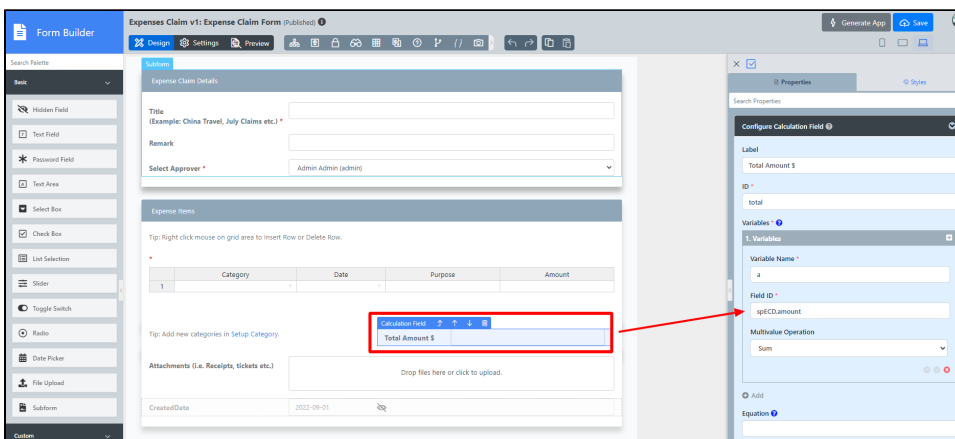


Figure 3

6. Click on the **Grid** element to open the Edit Grid properties (see Figure 4).

The screenshot shows the 'Expense Claim System' interface. On the left, the 'Expense Items' section displays a table with columns: Category, Date, Purpose, and Amount. A red box highlights the 'spECD' spreadsheet in the 'Expense Items' section. A red arrow points from this box to the 'spECD' entry in the 'Configure Spreadsheet' panel on the right. The 'Configure Spreadsheet' panel shows the 'spECD' spreadsheet selected, with columns for 'Field ID' and 'Label'. The 'Field ID' column contains 'category', 'date', 'purpose', and 'amount'. The 'Label' column contains 'Category', 'Date', 'Purpose', and 'Amount'.

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 Figure 6: **spECD.amount**

The screenshot shows the 'Configure Spreadsheet' panel. The 'spECD' spreadsheet is selected. The 'Columns' section shows a list of fields with their 'Field ID' and 'Label'. The 'Field ID' column contains 'category', 'date', 'purpose', and 'amount'. The 'Label' column contains 'Category', 'Date', 'Purpose', and 'Amount'. A red box highlights the 'amount' field ID in the 'Columns' section.

Figure 5

**Configure Calculation Field** ?

**Label**

Total Amount \$

**ID \***

total

**Variables \*** ?

**1. Variables** +

**Variable Name \***

a

**Field ID \***

spECD.amount

**Multivalue Operation**

Sum

⏮ ⏭ ⏸

Figure 6

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

Configure Calculation Field ?

Label

Total Amount \$

ID \*

total

Variables \* ?

1. Variables

Variable Name \*

a

Field ID \*

spECD.amount

Multivalue Operation


Sum

+ Add

Equation ?

Name	Description								
Label	Element Label to be displayed to end user.								
ID	Element ID (By declaring as "total", a corresponding database table column "c_total" will be created)  Please see <a href="#">Form Element</a> for more information about defining the ID and list of reserved IDs.								
Variables	<table><tr><th>Name</th><th>Description</th></tr><tr><td>Variable Name</td><td>Declare a name to store the current row equation result.<div><div><div></div><div>Examples</div></div><ul style="list-style-type: none"><li>• subtotal</li><li>• discountPercent</li><li>• charges</li></ul></div></td></tr><tr><td>Field ID</td><td>Form Field ID to retrieve.  If you are totalling a form grid column, use this format: <b>formGridId.columnId</b> 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.</td></tr><tr><td>Multivalue Operation</td><td><ul style="list-style-type: none"><li>• Sum</li><li>• Avg</li><li>• Min</li><li>• Max</li></ul></td></tr></table>	Name	Description	Variable Name	Declare a name to store the current row equation result. <div><div><div></div><div>Examples</div></div><ul style="list-style-type: none"><li>• subtotal</li><li>• discountPercent</li><li>• charges</li></ul></div>	Field ID	Form Field ID to retrieve.  If you are totalling a form grid column, use this format: <b>formGridId.columnId</b> 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.	Multivalue Operation	<ul style="list-style-type: none"><li>• Sum</li><li>• Avg</li><li>• Min</li><li>• Max</li></ul>
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 **FORMAT**

**Formatting Style \***

US Style Formatting (1,000.00)

**Number of Decimal \***

2

**Prefix**


**Postfix**

☐ **Use Thousand Separator?**

☐ **Store as Numeric Value?**

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

Name	Description
Workflow Variable	<p data-bbox="240 499 1446 548">If the form is part of a workflow process, upon saving the form (by clicking on the "Save as Draft" or "Save" button). The value in this input field will be saved into the corresponding workflow variable named here.</p> <div data-bbox="245 569 1484 848"><div data-bbox="261 590 298 625"></div><div data-bbox="310 590 591 613">Using a non-existent Workflow Variable name</div><p data-bbox="310 636 1219 659">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><div data-bbox="321 680 1463 779"><pre data-bbox="326 695 1393 747">context attribute status does not exist in process context - adding new attributes to the process context is not allowed</pre></div></div>