

JSON Tool

Definition

The **JSON Tool** enables one to issue a JSON web service call, and to save the returned data into Joget's form data and/or into the process's workflow variable.

Configure JSON Tool

Configure JSON Tool > Store To Form > Store To Workflow Variable

JSON URL *

Call Type

GET

Request Headers

Name

Value

+

No Response Expected

☐

Debug Mode

☐

Figure 1: JSON Tool Properties - Configure JSON Tool

| Name | Description |
|----------------------|---|
| JSON URL | URL to be called. |
| Call Type | <ul style="list-style-type: none">GETPOST |
| POST Method | <ul style="list-style-type: none">POST ParametersPOST Parameters as JSON PayloadCustom JSON Payload |
| POST Parameters | <p>When POST Method is set to "POST Parameters", these parameters will be sent as a <code>UrlEncodedFormEntity</code>.</p> <p>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.</p> |
| Custom JSON Payload | <p>Write your own JSON to be the payload. It will be sent as a <code>StringEntity</code>.</p> <p>This option is available only when "Custom JSON Payload" in selected.</p> |
| Request Headers | Add name(s) and value(s) to the request header. |
| No Response Expected | <p>Check if no response is expected, so that even if there is a response, this tool will simply ignore it.</p> <p>Using this option will also disable "store to form" and "store to workflow variable" properties.</p> |
| Debug Mode | Show relevant debug entries in the server log for debugging purposes. |

Store To Form

Configure JSON Tool > Store To Form > Store To Workflow Variable

Form

Form 1

Base JSON Object Name for Multirow Data

apps

Field Mapping

| Field Name | JSON Object Name | |
|------------|------------------|--------|
| id | apps.id | ⬆️⬆️⬆️ |
| name | apps.name | ⬆️⬆️⬆️ |
| version | apps.version | ⬆️⬆️⬆️ |

+

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Next >

Submit

Figure 2: JSON Tool Properties - Store to Form

| Name | Description | | | | | | |
|---|---|------|-------------|------------|---------------|------------------|--------------------|
| Form | Target form to store data to. | | | | | | |
| Base JSON Object Name for Multirow Data | Name of the object that contains an array to be based on. | | | | | | |
| Field Mapping | Mapping with JSON data with Form fields. <table><tr><th>Name</th><th>Description</th></tr><tr><td>Field Name</td><td>Form field ID</td></tr><tr><td>JSON Object Name</td><td>JSON property name</td></tr></table> | Name | Description | Field Name | Form field ID | JSON Object Name | JSON property name |
| Name | Description | | | | | | |
| Field Name | Form field ID | | | | | | |
| JSON Object Name | JSON property name | | | | | | |

Store To Workflow Variable

Configure JSON Tool > Store To Form > Store To Workflow Variable

Workflow Variable Mapping

Workflow Variable

JSON Object Name

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Submit

Figure 3: JSON Tool Properties - Store to Workflow Variable

| Name | Description | |
|---------------------------|-------------------|-------------------------|
| Workflow Variable Mapping | Name | Description |
| | Workflow Variable | Workflow Variable Name. |
| | JSON Object Name | JSON property name. |

In figure 2 and 3, one will need to specify on how to treat the returned data. The returned data may be saved as form data or/add to be saved into process's workflow variable. The example used in this article shows on how one can store multi-row data into a form data table.

Sample JSON API: <http://localhost:8080/jw/web/json/apps/published/userviews>

Sample JSON Result:

```
{
  "apps": [{
    "id": "crm",
    "name": "CRM",
    "userviews": [{
      "id": "crm_userview_sales",
      "description": "",
      "name": "CRM: Sales Force Automation",
      "url": "/jw/web/userview/crm/crm_userview_sales",
      "version": 1
    }],
    "version": 1
  }, {
    "id": "hr_expense",
    "name": "HR Expenses Claim App",
    "userviews": [{
      "id": "hr_expense_userview",
      "description": "",
      "name": "HR Expenses Claim App for Admin",
      "url": "/jw/web/userview/hr_expense/hr_expense_userview",
      "version": 2
    }],
    "version": 2
  }, {
    "id": "isr",
    "name": "Internal Service Request",
    "userviews": [{
      "id": "isr",
      "description": "",
      "name": "Internal Service Request App",
      "url": "/jw/web/userview/isr/isr",
      "version": 1
    }],
    "version": 1
  }, {
    "id": "ims",
    "name": "Simple Invoicing",
    "userviews": [{
      "id": "ims",
      "name": "Simple Invoicing",
      "url": "/jw/web/userview/ims/ims",
      "version": 1
    }],
    "version": 1
  }
]}
```

Json Tool App

Admin Admin

Welcome

Home > Manage Form 1 > Manage Form 1

Manage Form 1

Manage Form 1 6

Populate JSON Data

10 Show

| | Date Created | Date Modified | id | name | version | |
|--------------------------|---------------------|---------------------|------------|--------------------------|---------|------|
| <input type="checkbox"/> | 27-10-2015 08:55 AM | 27-10-2015 08:55 AM | crm | CRM | 1 | Edit |
| <input type="checkbox"/> | 27-10-2015 08:55 AM | 27-10-2015 08:55 AM | hr_expense | HR Expenses Claim App | 2 | Edit |
| <input type="checkbox"/> | 27-10-2015 08:55 AM | 27-10-2015 08:55 AM | ims | Simple Invoicing | 1 | Edit |
| <input type="checkbox"/> | 27-10-2015 08:55 AM | 27-10-2015 08:55 AM | isr | Internal Service Request | 1 | Edit |
| <input type="checkbox"/> | 27-10-2015 08:55 AM | 27-10-2015 08:55 AM | json1 | Json Tool App | 1 | Edit |
| <input type="checkbox"/> | 27-10-2015 08:55 AM | 27-10-2015 08:55 AM | mcrm | Simple CRM | 1 | Edit |

6 items found, displaying all items.

1

CSV | Excel | XML | PDF

New Delete

Figure 4: Sample JSON data saved in Joget form data table

You can download the test app from [APP_json1-1-20151026181405.jwa](#).

Related Tutorials

- [Configure JSON Tool based on the JSON data structure](#)