

# Javascript API

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## AssignmentManager

- URL : /jw/js/json/util.js
- Auto included in all userview pages.
- Used to deal with assignment of a logged in user.

### completeAssignment(baseUrl, activityId, redirect)

#### Description

Completes an assignment with a specific process instance id & activity instance id

#### Parameters

- baseUrl - base URL of Joget Workflow, e.g., 'http://localhost/jw'
- activityId - activity instance id of the assignment to be completed
- redirect - a URL to redirect to after the assignment is completed (optional)

#### Sample code

```
AssignmentManager.completeAssignment('http://localhost/jw', '1_1_activity', 'http://localhost/completed.jsp');
```

### completeAssignmentWithVariable(baseUrl, activityId, variableData, redirect)

#### Description

Completes an assignment with a specific process instance id & activity instance id with option to set workflow variables

#### Parameters

- baseUrl - base URL of Joget Workflow, e.g., 'http://localhost/jw'
- activityId - activity instance id of the assignment to be completed
- variableData - variables to be set. All variable name must prefix with 'var\_'
- redirect - a URL to redirect to after the assignment is completed (optional)

#### Sample code

```
AssignmentManager.completeAssignmentWithVariable('http://localhost/jw', '1_1_activity', 'var_status=new&var_id=123', 'http://localhost/completed.jsp');
```

### getCurrentUsername(baseUrl, callback)

#### Description

Gets the current logged in username in Joget Workflow

#### Parameters

- baseUrl - base URL of Joget Workflow, e.g., 'http://localhost/jw'
- callback - a callback function after a successful call

#### Sample code

```
var callback = {  
  success : function(response){  
    //response.username  
    if(response.username != "roleAnonymous"){  
      console.log("Username is " + response.username);  
    }else{  
      console.log("User is anonymous");  
    }  
  }  
};  
AssignmentManager.getCurrentUsername('http://localhost/jw', callback);
```

### login(baseUrl, username, password, callback)

#### Description

Login the user in Joget Workflow

#### Parameters

- baseUrl - base URL of Joget Workflow, e.g., 'http://localhost/jw'
- username - username for user to login
- password - password for user to login
- callback - a callback function after a successful call (optional)

#### Sample code

```

var callback = {
  success : function(response){
    //response.username && response.isAdmin
    if(response.username != "roleAnonymous"){
      console.log("username (" + response.username + ") is " + ((response.isAdmin != undefined && response.isAdmin === "true")?"admin":"not an admin"));
    }else{
      console.log("Fail to login user!");
    }
  }
};
AssignmentManager.login('http://localhost/jw', 'admin', 'admin', callback);

```

### loginWithHash(baseUrl, username, hash, callback)

#### Description

Login the user with hash in Joget Workflow

#### Parameters

- baseUrl - base URL of Joget Workflow, e.g., 'http://localhost/jw'
- username - username for user to login
- hash - hashed password for user to login. (refer to Hashed Password)
- callback - a callback function after a successful call (optional)

#### Sample code

```

var callback = {
  success : function(response){
    //response.username && response.isAdmin
    if(response.username != "roleAnonymous"){
      console.log("username (" + response.username + ") is " + ((response.isAdmin != undefined && response.isAdmin === "true")?"admin":"not an admin"));
    }else{
      console.log("Fail to login user!");
    }
  }
};
AssignmentManager.loginWithHash('http://localhost/jw', 'admin', '14ACD782DCFEB2BCDE2B271CCD559477', callback);

```

### logout(baseUrl)

#### Description

Logs out the current logged in username in Joget Workflow

#### Parameters

- baseUrl - base URL of Joget Workflow, e.g., 'http://localhost/jw'

#### Sample code

```
AssignmentManager.logout('http://localhost/jw');
```

### withdrawAssignment(baseUrl, activityId)

#### Description

Withdraws an assignment with a specific activity instance id

Deprecated since v3, the concept of accept & withdraw assignment is removed.

Parameters

- baseUrl - base URL of Joget Workflow, e.g., 'http://localhost/jw'
- activityId - activity instance id of the assignment to be withdrawn

Sample code

```
AssignmentManager.withdrawAssignment('http://localhost/jw', '1_1_activity');
```

## ConnectionManager

- URL : /jw/js/json/util.js
- Auto included in all userview pages.
- Convenient method to do AJAX call.

ajaxJsonp(url, callback, params)

Description

Initiates Ajax call with JSONP

Parameters

- url - URL to initiate Ajax call
- callback - a callback function after a successful call (optional)
- params - parameters for the call (optional)

Sample code

```
var callback = {
  success : function(response){
    //do something
  }
};
ConnectionManager.ajaxJsonp('http://localhost/test', callback, 'id=4&name=test');
```

get(url, callback, params, xss)

Description

Initiates Ajax GET to a specific URL

Parameters

- url - URL for GET action
- callback - a callback function after a successful call (optional)
- params - parameters for the call (optional)
- xss - use when the URL is cross-domain (optional)

Sample code

```
var callback = {
  success : function(response){
    //do something
  }
};
ConnectionManager.get('http://localhost/test', callback, 'id=6&name=test', false);
```

### post(url, callback, params)

#### Description

Initiates Ajax POST to a specific URL

#### Parameters

- url - URL for GET action
- callback - a callback function after a successful call (optional)
- params - parameters for the call (optional)

#### Sample code

```
var callback = {
  success : function(response){
    //do something
  }
};
ConnectionManager.post('http://localhost/test', callback, 'id=6&name=test');
```

## FormUtil

- URL : /jw/js/json/formUtil.js
- Auto included in page using form.
- Convenient method to interact with form field.

### getField(fieldId)

#### Description

Used to gets the field object of a form field

#### Parameters

- fieldId - id of a form field

#### Sample code

```
var field = FormUtil.getField("field1");
$(field).val("test"); //set value
```

### getFieldsAsUrlQueryString(fields)

#### Description

Used to generates the fields value as url query parameter string

#### Parameters

- fields - an array contains objects with "field", "param" and "defaultValue" attributes.
  - field : id of a form field
  - param : parameter name to be used
  - defaultValue : value to be used when the field return empty value (Optional)

Sample code

```
var fields = [
  {"field": "field1", "param": "p_field1"},
  {"field": "field2", "param": "p_field2"},
  {"field": "field3", "param": "p_field3", "defaultValue": "default value"},
];

var queryString = FormUtil.getFieldsAsUrlQueryString(fields);
console.log(queryString); //p_field1=Field1%20value&p_field2=Field2%20value;Field2%20second%20value&p_field3=default%20value
```

### getGridCells(cellFieldId)

Description

Used to gets the cell objects of every rows of a grid field

Parameters

- cellFieldId - Grid Field Id and the cell id separated by a dot ".". Eg. gridId.cellId

Sample code

```
var cells = FormUtil.getGridCells("gridId.field1");
$(cells).each(function(){
  //do something
});
```

### getGridCellValues(cellFieldId)

Description

Used to gets the cell values of every rows of a grid field and return it in an array.

Parameters

- cellFieldId - Grid Field Id and the cell id separated by a dot ".". Eg. gridId.cellId

Sample code

```
var values = FormUtil.getGridCellValues("gridId.field1");
for (var i = 0; i < values.length; i++) {
  console.log(values[i]); //i equals to row number start from 0
}
```

### getValue(fieldId)

Description

Used to gets the value of a form field.

Parameters

- fieldId - id of a form field

Sample code

```
var value = FormUtil.getValue("field1");
```

## getValues(fieldId)

Description

Used to gets the values of a form field. Values will return in an array.

Parameters

- fieldId - id of a form field

Sample code

```
var values = FormUtil.getValues("field1");
for (var i = 0; i < values.length; i++) {
  console.log(values[i]);
}
```

## JPopup

- URL : /jw/js/json/ui\_ext.js
- Auto included in all userview pages.
- Convenient method to create/show/hide a popup dialog to display a page.

## create(id, title, width, height)

Description

Used to creates a popup dialog element.

Parameters

- id - an unique identifier of the popup dialog
- title - a title to display for on the top of popup dialog (Optional)
- width - width of the popup dialog box (Optional)
- height - height of the popup dialog box (Optional)

Sample code

```
JPopup.create("testPopup", "Test Popup Dialog");
```

## hide(id)

Used to hides a created and shown popup dialog element.

Parameters

- id - an unique identifier of the popup dialog

Sample code

```
JPopup.hide("testPopup");
```

## show(id, url, params, title, width, height, action)

### Description

Used to creates a popup dialog element.

### Parameters

- id - an unique identifier of the popup dialog
- url - an URL of a page to show in popup dialog
- params - a JSON object to pass parameter and its value (Optional)
- title - a title to display for on the top of popup dialog (Optional)
- width - width of the popup dialog box (Optional)
- height - height of the popup dialog box (Optional)
- action - Get/Post. Default to Post (Optional)

### Sample code

```
var params = {
  id : "1",
  name : "test"
};

JPopup.show("testPopup", "http://www.joget.org", params);
```

## UI

- URL : /jw/js/json/ui.js
- Auto included in all userview pages.
- Convenient method to retrieve value for UI usages.

## adjustPopUpDialog(dialogbox)

### Description

Used by system to align the popup dialog to the center of the screen.

### Parameters

- dialogbox - the popup dialog object

### Sample code

```
UI.adjustPopUpDialog(JPopup.dialogboxes["testPopup"]);
```

## escapeHTML(content)

### Description

Used to escapes HTML syntax in a value

### Parameters

- content - content to be escapes

### Sample code



```
var content = "<p>test content</p>";
var escapedContent = UI.escapeHTML(content);
console.log(escapedContent); // &lt;p&gt;test content&lt;/p&gt;
```

### getPopUpHeight(height)

#### Description

Used by the system to calculate the height of a popup dialog for current screen size to support mobile device.

#### Parameters

- height - Max height of the popup dialog. Default to "90%".

#### Sample code

```
var height = UI.getPopUpHeight("500px");
```

### getPopUpWidth(width)

#### Description

Used by the system to calculate the width of a popup dialog for current screen size to support mobile device.

#### Parameters

- width - Max width of the popup dialog. Default to "90%".

#### Sample code

```
var width = UI.getPopUpWidth("800px");
```

### usercontentParams()

#### Description

Used by system to gets the query parameters string that contains the meta of current useview theme in used.

#### Sample code

```
var url = "http://localhost/jw/form/embed?" + UI.useviewThemeParams();
```

## UrlUtil

- URL : /jw/js/json/util.js
- Auto included in all useview pages.
- Convenient method to deal with URL.

### constructUrlQueryString(params)

#### Description

Used to generate a query string based on a parameters object

#### Parameters

- params - an object contains all parameter as attribute name and its values in array

Sample code

```
var params = {
  "name" : ["joget"],
  "email" : ["info@joget.org", "test@joget.org"]
};
var queryString = Util.constructUrlQueryString(params);
console.log(queryString); // name=joget&email=info%40joget%2Eorg&email=test%40joget%2Eorg
```

## encodeURIComponent(url)

Description

Used to encodes the URL parameters in a URL.

Parameters

- url - URL with parameters to be encode. Note: it use "&" and "=" as separator.

Sample code

```
var url = "http://localhost/jw/test?name=joget&email=info@jogte.org&email=test@joget.org";

var encodedUrl = Util.encodeURIComponent(url);
console.log(encodedUrl); // http://localhost/jw/test?name=joget&email=info%40joget%2Eorg&email=test%40joget%2Eorg
```

## getUrlParams(url)

Description

Used to gets an object contains all parameter as attribute name and its value in an URL.

Parameters

- url - URL to be parses to retrieve all parameters and its value in array.

Sample code

```
var url = "http://localhost/jw/test?name=joget&email=info@jogte.org&email=test@joget.org";

var params = Util.getUrlParams(url);
console.log(params); // {"name" : ["joget"], "email" : ["info@joget.org", "test@joget.org"]}
```

## mergeRequestQueryString(queryString1, queryString2)

Description

Used to merge 2 URL query parameters strings into one query string.

Parameters

- queryString1 - first query parameters string
- queryString2 - second query parameters string. If a parameter is exist in both query strings, the value in second query string will override the first one.

Sample code

```
var q1 = "name=joget&email=info@jogte.org&email=test@joget.org";  
var q2 = "name=joget team&phone=012345678";  
  
var queryString = UrlUtil.mergeRequestQueryString(q1, q2);  
console.log(queryString); // name=joget%20team&email=info%40joget%2Eorg&email=test%40joget%2Eorg&phone=012345678
```