Power Apps – Model Driven Apps – JavaScript Cheatsheet `JS`

FORM EVENTS ⓘ

```javascript
var Sdk = window.Sdk || {};

(function () {

    // Code to run in the form OnLoad event
    this.formOnLoad = function (executionContext) {
        var formContext = executionContext.getFormContext();

        // Add your code from the other tables here

    }

    // Code to run in the column OnChange event
    this.attributeOnChange = function (executionContext) {
        var formContext = executionContext.getFormContext();

        // Add your code from the other tables here

    }

    // Code to run in the form OnSave event
    this.formOnSave = function (executionContext) {
        var formContext = executionContext.getFormContext();

        // Add your code from the other tables here

    }
}).call(Sdk);
```

GET CURRENT ROW DATA ⓘ

```javascript
var currentRow = formContext.data.entity.getEntityReference();

// Get row table type ex: "incident" or "account"
var currentRowEntityType = currentRow.entityType;

// Get row GUID ex: "{67e86a65-4cd6-ec11-a7b5-000d3a9c27d2}"
var currentRowId = currentRow.id;

// Get row GUID without brackets ex: "67e86a65-4cd6-ec11-a7b5-000d3a9c…"
var currentRowId2 = currentRow.id.replace(/{|}/g, '');

// Get row logical name ex: "67e86a65-4cd6-ec11-a7b5-000d3a9c27d2"
var currentRowName = currentRow.name;
```

READ VALUES FROM LOOKUP ⓘ

```javascript
var customer = formContext.getAttribute("customerid").getValue();

// Get row table type ex: "incident" or "account"
var customerEntityType = customer[0].entityType;

// Get row GUID ex: "{67e86a65-4cd6-ec11-a7b5-000d3a9c27d2}"
var customerId = customer[0].id;

// Get row logical name ex: "67e86a65-4cd6-ec11-a7b5-000d3a9c27d2"
var customerName = customer[0].name;
```

READ VALUES FROM COLUMN ⓘ

```javascript
// Get column value
var title = formContext.getAttribute("fieldname").getValue();

// Get choice value
var caseorigin = formContext.getAttribute("fieldname").getValue();

// Get choice text
var caseorigin = formContext.getAttribute("fieldname").getText();
```

SET FIELD VALUES ⓘ

```javascript
// Set lookup value
var lookupValue = new Array();
lookupValue[0] = new Object();
lookupValue[0].id = "a431636b-4cd6-ec11-a7b5-000d3a9c27d2";
lookupValue[0].entityType = "contact";
lookupValue[0].name = "Nancy Anderson (sample)"
formContext.getAttribute("customerid").setValue(lookupValue);

// Set choices values
formContext.getAttribute("multichoice").setValue([100000000,100000001,100
000002]);

// Set text value
formContext.getAttribute("textfield").setValue("Those are the steps");

// Set number value
formContext.getAttribute("numberfield").setValue(100);
```

READ VALUES FROM RELATED TABLES ⓘ

```javascript
// Basic retrieve
Xrm.WebApi.retrieveRecord("contact", customerId,
"?$select=firstname").then(
    function success(result) {
        console.log("Retrieved values: Name: " + result.firstname);
        // perform operations on record retrieval
    },
    function (error) {
        console.log(error.message);
        // handle error conditions
    }
);

// Using expand
Xrm.WebApi.retrieveRecord("contact", customerId,
"?$select=firstname&$expand=modifiedby($select=fullname;$expand=businessu
nitid($select=name))").then(
    function success(result) {
        console.log("Name: " + result.modifiedby.fullname);
        // perform operations on record retrieval
    },
    function (error) {
        console.log(error.message);
        // handle error conditions
    }
);
```

SHOW / HIDE FIELDS ⓘ

```javascript
//Show
formContext.getControl("caseorigincode").setVisible(true);

//Hide
formContext.getControl("caseorigincode").setVisible(false);
```

SHOW / HIDE SECTIONS ⓘ

```javascript
// Show section within a specified tab
var tab = formContext.ui.tabs.get("Summary");
var section = tab.sections.get("Timeline");
section.setVisible(true);

// Hide section within a specified tab
var tab = formContext.ui.tabs.get("Summary");
var section = tab.sections.get("Timeline");
section.setVisible(false);
```

SHOW / HIDE TABS ⓘ

```javascript
// Show tab
var tab = formContext.ui.tabs.get("Details");
tab.setVisible(true);

// Hide tab
var tab = formContext.ui.tabs.get("Details");
tab.setVisible(false);
```

SET REQUIRED FIELDS ⓘ

```javascript
// Set field as required
formContext.getAttribute("fieldname").setRequiredLevel("required");

// Set field as recommended
formContext.getAttribute("fieldname").setRequiredLevel("recommended");

// Set field as optional
formContext.getAttribute("fieldname").setRequiredLevel("none");
```

SET READ-ONLY FIELDS ⓘ

```javascript
// Set field read-only
formContext.getControl("caseorigincode").setDisabled(true);

// Set field editable
formContext.getControl("caseorigincode").setDisabled(false);
```

SET ALL FIELDS READ-ONLY IN SECTION

```javascript
this.disableSection = function(formContext, tab, section) {
    var section = formContext.ui.tabs.get(tab).sections.get(section);
    var controls = section.controls.get();
    var controlsLenght = controls.length;
    for (var i = 0; i < controlsLenght; i++) {
        controls[i].setDisabled(true);
    }
}

// call the function to disable all the fields in the section
Sdk.disableSection(formContext,"Summary","Case Details Summary");
```

SET ALL FIELDS READ-ONLY IN TAB

```javascript
this.disableTab = function(formContext, tab) {
    formContext.ui.tabs.get(tab).sections.forEach(function (section){
        section.controls.forEach(function (control) {
            control.setDisabled(true);
        })
    });
}

// call the function to disable all the fields in the section
Sdk.disableTab(formContext,"Summary");
```

FIELDS IN BPF (Business Process Flow) ⓘ

```javascript
// Add "header process_" to the field name

// Set field as required
formContext.getAttribute("header_process_fieldname").setRequiredLevel("re
quired");

// Set field read-only
formContext.getControl("header_process_fieldname").setDisabled(true);
```

REFRESH & SAVE THE FORM ⓘ

```javascript
// Save and refresh the form
formContext.data.refresh(true);

// Refresh the form (without saving)
formContext.data.refresh(false);
```

DIALOG ⓘ

```javascript
// alert dialog
var alertStrings = { confirmButtonLabel: "Yes", text: "This is an
alert.", title: "Sample title" };
var alertOptions = { height: 120, width: 260 };
Xrm.Navigation.openAlertDialog(alertStrings, alertOptions).then(
    function (success) {
        console.log("Alert dialog closed");
    },
    function (error) {
        console.log(error.message);
    }
);

// confirm dialog
var confirmStrings = { text:"This is a confirmation.",
title:"Confirmation Dialog" };
var confirmOptions = { height: 200, width: 450 };
Xrm.Navigation.openConfirmDialog(confirmStrings, confirmOptions).then(
function (success) {
    if (success.confirmed)
        console.log("Dialog closed using OK button.");
    else
        console.log("Dialog closed using Cancel button or X.");
});
```
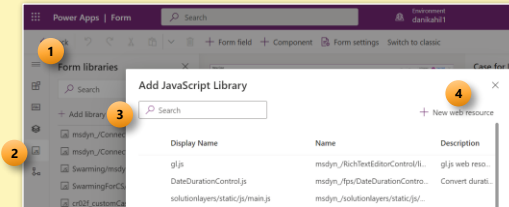
SET URL FOR IFRAME ⓘ

```javascript
// Set field read-only
formContext.getControl("iframe").setSrc(" https://danikahil.com/");
```
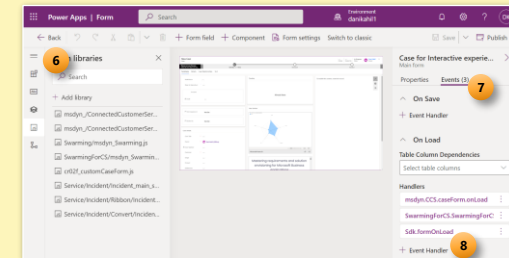
GENERAL JS CHEATSHEET

JavaScript (JS) Cheat Sheet Online (htmlcheatsheet.com)