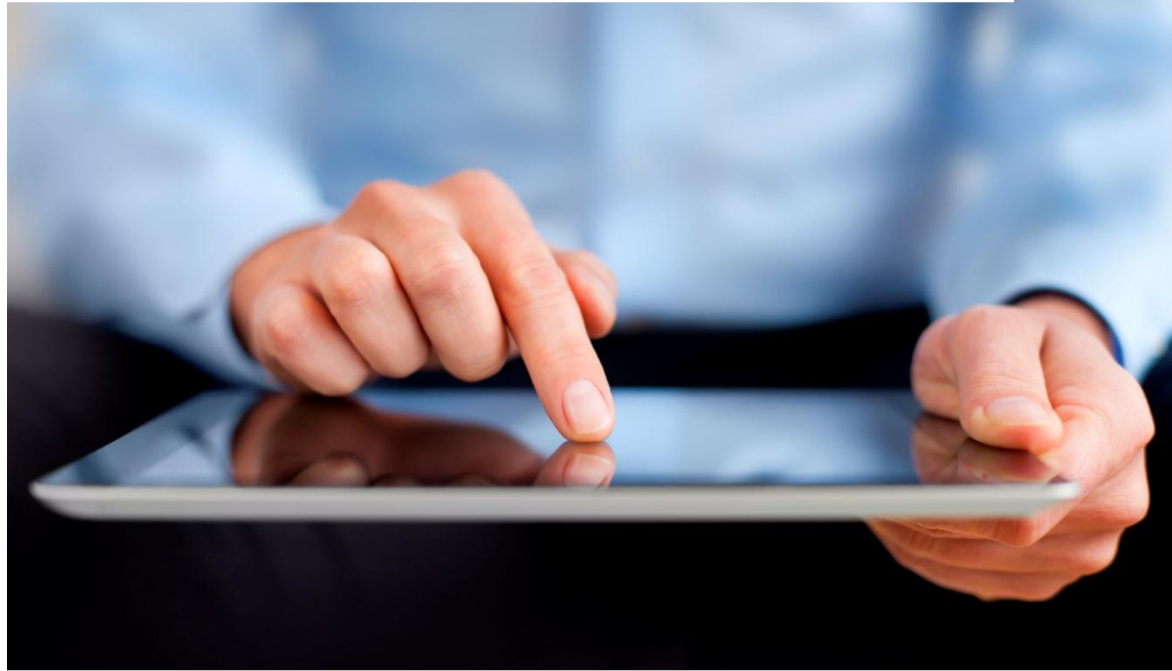




2019

# Feature Deep Dive Quick Reference



Custom Validations

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## I. Purpose

The purpose of this document is to serve as a reference for the examples demonstrated during the feature deep-dive session. The information contained in this Quick Reference should assist you in configuring scenarios using the features covered in the session. This document should be used in conjunction with the recording of the corresponding feature deep-dive session on our [YouTube channel](#).

## II. Form - Register New Member

### A. Question - First Name

member\_information Show all questions on one page

---

Type	Short ▾
Caption	First Name
Question Name	first_name <span style="float: right;">i</span>
Supporting text / Instructions	Enter additional text
	<input checked="" type="checkbox"/> Required
	<input type="checkbox"/> Hidden <span style="float: right;">i</span>

---

**Advanced Operations**

Add Dynamic Operations using JavaScript (advanced validations and operations dependent on other question in this form, e.g. calculations)

Operation	Validation ▾ <small>This will show an error message to the user if their answer does not match the criteria in the JS below</small>	<a href="#">Tutorial</a>
Javascript	<pre>var nameLength = tw.member_information.first_name.value.length;  if (nameLength &lt; 3    nameLength &gt; 50) {   throw "Member's first name must be between 3 and 50 characters long"; }</pre>	

if (tw.member\_information.first\_name.value.length; < 3 || tw.member\_information.first\_name.value.length; > 50) // if this length is less than 3 characters or more than 50, the validation message will be displayed.

```
{
  throw "Member's first name must be between 3 and 50 characters long";
}
```

## B. Question – Last Name

The screenshot shows the configuration interface for a question titled 'Last Name'. The 'Type' is set to 'Short'. The 'Caption' is 'Last Name'. The 'Question Name' is 'last\_name'. The 'Supporting text / Instructions' is 'Between 3 and 50 characters'. The 'Required' checkbox is checked, and the 'Hidden' checkbox is unchecked. Under 'Advanced Operations', the 'Add Dynamic Operations using JavaScript' checkbox is checked. The 'Operation' is set to 'Validation'. The 'Javascript' field contains the following code:

```
var nameLength = tw.member_information.last_name.value.length;
if (nameLength < 3 || nameLength > 50) {
  throw "Member's first name must be between 3 and 50 characters long";
}
```

There is a 'Tutorial' link next to the Javascript field. At the bottom right, there are 'Cancel' and 'Save' buttons.

```
if (tw.member_information.last_name.value.length < 3 || tw.member_information.last_name.value.length > 50) { // if this length is less than 3 characters or more than 50, the validation message will be displayed.
```

```
  throw "Member's first name must be between 3 and 50 characters long";
```

```
}
```

### C. Question – Registration Date

The screenshot shows the configuration for a 'Date only' question named 'registration\_date'. The caption is 'Registration Date'. Under 'Advanced Operations', the 'Validation' operation is selected with the following JavaScript code:

```

var today = new Date();

if (tw.member_information.registration_date.value > today)
{
    throw "The registration date cannot be in the future";
}
    
```

Buttons for 'Cancel' and 'Save' are visible at the bottom right.

`var today = new Date();` //creates a variable called today which holds today’s date

`if (tw.member_information.registration_date.value > today)` //if the registration date is greater than (after) today’s date, the validation message will be displayed.

```

{
    throw "The registration date cannot be in the future";
}
    
```

### D. Question – Phone Number

The screenshot shows the configuration for a 'Short' question named 'member\_contact'. The caption is 'Phone Number'. Under 'Advanced Operations', the 'Validation' operation is selected with the following JavaScript code:

```

if (isNaN(tw.member_contact.phone_number.value))
{
    throw "Please only include digits in the phone number";
}

if (tw.member_contact.phone_number.value.length !== 10)
{
    throw "The phone number needs to be 10 digits";
}
    
```

Buttons for 'Cancel' and 'Save' are visible at the bottom right.

//There are two validations for this question

if (isNaN(tw.member\_contact.phone\_number.value)) //if the response to this question is not a number, the validation message will be displayed

```
{
  throw "Please only include digits in the phone number";
}
```

if (tw.member\_contact.phone\_number.value.length !== 10) //if the length of the input is not 10, the validation message will be displayed

```
{
  throw "The phone number needs to be 10 digits";
}
```

## E. Question – Confirm Phone Number

The screenshot shows the configuration interface for a question titled "Confirm Phone Number". The question type is "Short". The question name is "confirm\_phone\_number". The supporting text/instructions field contains "Enter additional text". The "Required" checkbox is checked, and the "Hidden" checkbox is unchecked. Under the "Advanced Operations" section, the "Add Dynamic Operations using JavaScript" checkbox is checked. The "Operation" is set to "Validation". The JavaScript code in the text area is:
 

```
if (tw.member_contact.confirm_phone_number.value != tw.member_contact.phone_number.value)
{
  throw "The confirmation phone number entered is not equal to the phone number entered above";
}
```

 The "Add Response Validation" checkbox is unchecked. The interface includes "Cancel" and "Save" buttons at the bottom right.

if (tw.member\_contact.confirm\_phone\_number.value != tw.member\_contact.phone\_number.value) //if the confirm phone number is not equal to the phone number, the validation message will be displayed.

```
{
  throw "The confirmation phone number entered is not equal to the phone number entered above";
}
```

## F. Question – How many of the children are boys?

S2 Family Information  
family\_information

Show all questions on one page

Q5 How many children do you have?

number\_of\_children

Required

Type: Whole number

Caption: How many of your children are boys?

Question Name: number\_of\_boys

Supporting text / Instructions: Enter additional text

Required

Hidden

Minimum:  Maximum:

**Advanced Operations**

Add Dynamic Operations using JavaScript (advanced validations and operations dependent on other question in this form, e.g. calculations)

Operation: Validation This will show an error message to the user if their answer does not match the criteria in the JS below

JavaScript: 

```
if (tw.family_information.number_of_boys.value > tw.family_information.number_of_children.value)
{
  throw "The number of boys cannot be more than the total number of children";
}
```

[Tutorial](#)

if (tw.family\_information.number\_of\_boys.value > tw.family\_information.number\_of\_children.value) //if the number of boys is greater than the number of children, the validation message will be displayed.

{

throw "The number of boys cannot be more than the total number of children";

}

## G. Question – Medical Condition

Caption: Medical Condition  
 Question Name: med\_condition  
 Supporting text / Instructions: Enter additional text  
 Required  
 Hidden  
 Options:  
 Yes   
 No   
  
 Advanced Operations  
 Add Dynamic Operations using JavaScript (advanced validations and operations dependent on other question in this form, e.g. calculations)  
 Operation: Validation This will show an error message to the user if their answer does not match the criteria in the JS below  
 Javascript:
 

```

if (tw.child_info.current.description.hasAnswer && tw.child_info.current.med_condition.value == "No")
{
  throw "There is a description for medical condition but this answer is No. Either change this to Yes or delete the description.";
}

if (!tw.child_info.current.description.hasAnswer && tw.child_info.current.med_condition.value == "Yes")
{
  throw "There is no description for medical condition and this answer is Yes. Either change this to No or add the description.";
}

```

**//This validation can be used as a work around for using skip logic in a repeat section.**

**if (tw.child\_info.current.description.hasAnswer && tw.child\_info.current.med\_condition.value == "No") //If there is an answer to the description of the medical condition and the medical condition question is answered 'No', the validation message will be displayed.**

```
{
```

```
  throw "There is a description for medical condition but this answer is No. Either change this to Yes or delete the description.";
```

```
}
```

**if (!tw.child\_info.current.description.hasAnswer && tw.child\_info.current.med\_condition.value == "Yes") //If there is no answer to the description of the medical condition and the medical condition question is answered 'Yesx', the validation message will be displayed.**

```
{
```

```
  throw "There is no description for medical condition and this answer is Yes. Either change this to No or add the description.";
```

```
}
```