README - Flokzu in General

warning on changing tasks names with script / visibility changes

\times do NOT do this

unlike form fields where name can be altered but "identity" retained (info on how system handles change in field name)

a different task name is equivalent to different task

if instances already exists in task and scripts / visibility changed then this affects those tasks

BUT

if task name is changed then changes to scripts and/or fields visibility do **not** carry over

(ie. you are stuck with instances behaving as they did with previously named tasks - ito script and fields)

this is especially problematic for new scripts or form fields and devastating if new form fields are used in flow (at gateways) will have to introduce an additional tasks directly afterwards where this new field can then be set correctly (since wont appear in renamed task)

✓ when to do this

- 1. as long as no changes in script / fields also introduced
- 2. no instances existing in task (or will be created while in updates development)

tip for during staggered deployment (with mutiple versions)

create tasks eg "INTERAL end of deployment $v\{$ $\}$ phase $\{$ $\}$ " at desired stages of v1 assigned to development team

when flow then duplicated to configure next version "blockers" present (update name $v\{+1\}$) this way able to manage various stages **and** versions of deployment

warning of field visibility at step that prevents scripts from executing

as default make all fields "involved" in script Editable at given task and use script to set as hidden or read-only

reason being

- 1. script can retrieve value form read-only field (.getFieldValue) but is unable to update (.setFieldValue) read-only
- 2. script cannot retrieve nor update hidden fields

warning on field visibility at step that prevents user interaction

field hidden at task and required by script

at given task



field set to hidden
expect script to make required
but fails

```
function showField(){
    var show = Flokzu.getFieldValue([[Show Other]]);
    if (show === true){Flokzu.setRequired([[Other]])}
    // else {Flokzu.setHidden([[Other]])}
    }
Flokzu.onInit(showField);
Flokzu.onChange([[Show Other]], showField);
```

NOTICE: does not work with or without "else" condition

after deployment



field read-only at task and required with script

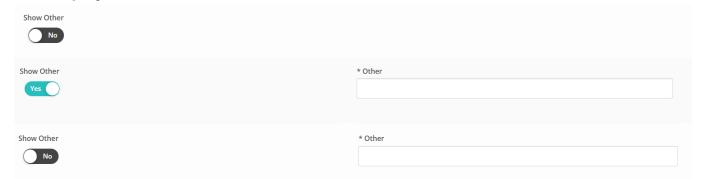
at given task

Show Other (Yes/No)			
			Editable
Other (Text)			
			Read-only

field set to read-only expect script to make required semi-succeeds

```
function showField(){
   var show = Flokzu.getFieldValue([[Show Other]]);
   if (show === true){Flokzu.setRequired([[Other]])}}
Flokzu.onInit(showField);
Flokzu.onChange([[Show Other]], showField);
```

after deployment



could be result of no else condition to reset / change field visibility demonstrated below

field read-only at script and hidden or required with script

at given task



field set to read-only expect script to make required OR hide succeeds

```
function showField(){
    var show = Flokzu.getFieldValue([[Show Other]]);
    if (show === true){Flokzu.setRequired([[Other]])}else {
Flokzu.setHidden([[Other]]) }
    }
    Flokzu.onInit(showField);
Flokzu.onChange([[Show Other]], showField);
```

after deployment



and continues to work with every change therefore require else condition

NOTICE

same behavior when using editable

RULE OF THUMB

have all fields "used" in script set to editable and let script dictate whether hidden, read-only or required

ALTHOUGH

able to use read-only fields if only requirement is to "fetch field value" Flokzu.getFieldValue

THEREFORE

if you were planning to set the fields to read-only in script

how to set up External Forms from other processes to interact with current one

external form can be specified in this way s/t they auto-populate when said external form is initialized

in main form

- set all fields involved to editable NOTE: for those fields where plan to set hidden and ONLY use .getFieldValue instead of duplicating work can be hidden at step
- 2. use script to update field with link to external form

```
function externalForm(){
    var id = $('#fkz_ref').text();
    var number = Flokzu.getFieldValue([[Number]]);
    var name = Flokzu.getFieldValue([[Name]]);
    var surname = Flokzu.getFieldValue([[Surname]]);
    var fullname = name + ' ' + surname;
    var first = 'https://app.flokzu.com/public/----?Number=';
    var second = '&Name=';
    var third = '&ID=';
    var URL = first.concat(number, second, fullname, third, id);
    // ALTERNATIVE FORMAT using text field instead of weblink
    // required for cases where https: contains blank spaces
    // var link = '<a href="' + URL + '">Nanme of Link</a>';
    Flokzu.setFieldValue([[External Link]], URL); //
Flokzu.setFieldValue([[External Link]], link);
    // Flokzu.setHidden([[External Link]]); // POST-TESTING
}
Flokzu.onInit(externalForm);
// Flokzu.onChange([[ ]], externalForm);
```

in external form

3. create all fields that will be required for url to populate editable

4. include field to hold (current) external form process identifier integer

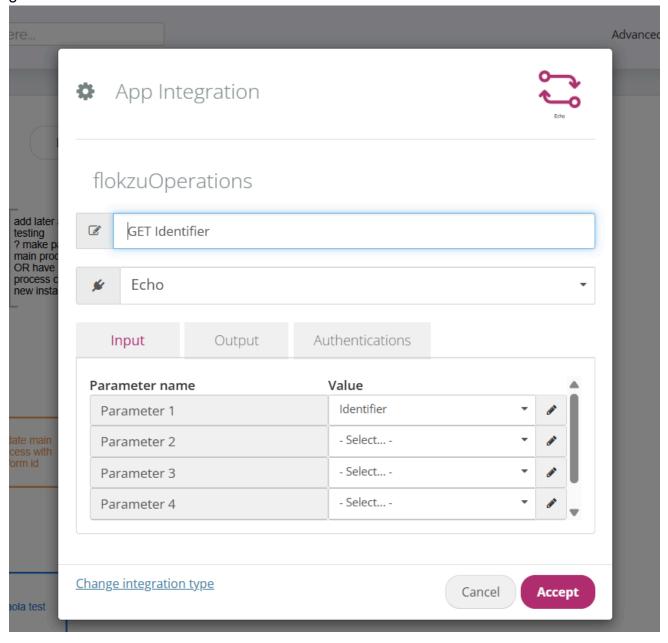
hide

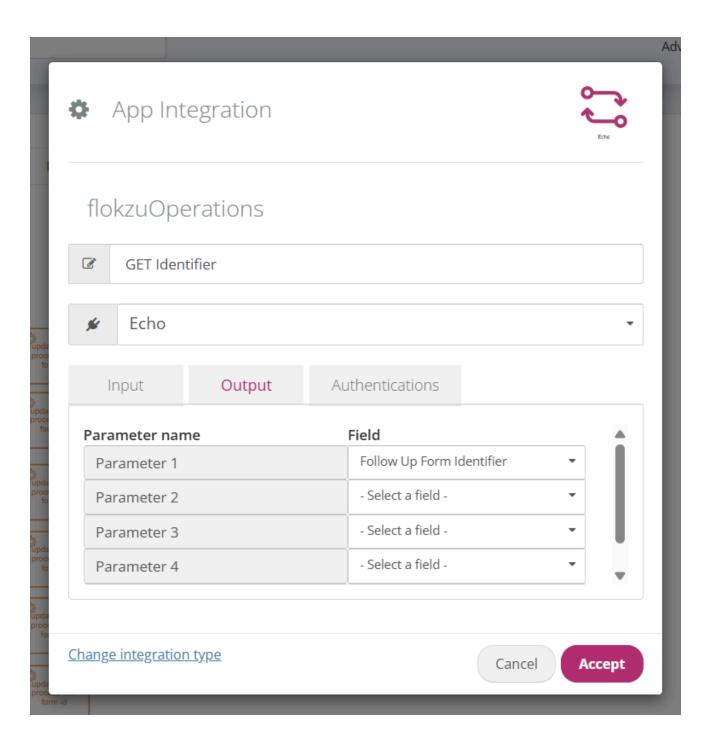
Flokzu backend able to update hidden fields

5. retrieve form fields from url using script

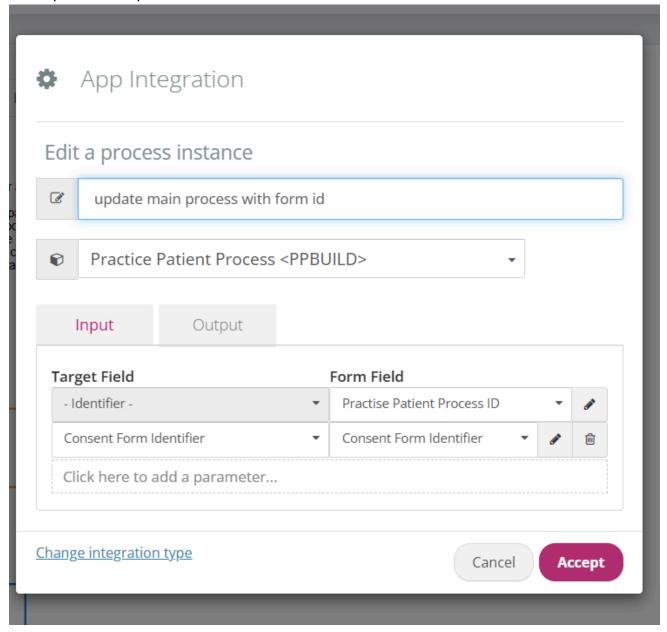
```
// EXAMPLE
// https://app.flokzu.com/public/----?Number=123&Name=Me&ID=3
$.urlParam = function(name){ // dont touch!!!!
            var results = new RegExp('[\?&]' + name + '=
([^&#]*)').exec(window.location.href);
            console.log(results);
            if (results == null){
               return null;
            }
            else {
               return decodeURI(results[1]) || 0;
}
        }
function Defaultfields(){
    var number= $.urlParam('Number');
    var name= $.urlParam('Name');
    var id = $.urlParam('ID');
console.log(number);
    Flokzu.setFieldValue([[Number]], number);
    // Flokzu.setReadOnly([[Number]]); // POST-TESTING
    Flokzu.setFieldValue([[Name & Surname]], name);
    // Flokzu.setReadOnly([[Name & Surname]]); // POST-TESTING
    Flokzu.setFieldValue([[Main Process ID]], id);
    // Flokzu.setHidden([[Main Process ID]]); // POST-TESTING
}
Flokzu.onInit(Defaultfields);
```

6. get form id





7. then update main process



test

- 8. create instance and move to task of interest
- 9. check in main form field with link to external form updated
- 10. open newly generated link and verify fields that should have auto-populated as expected
- 11. complete external form
- 12. refresh main process task and verify external form instance id updated as expected
- 13. once that is satisfied and to script <u>in main form</u> and <u>in external form</u>]] to set hidden / read only

how field visibility may prevent script form executing / user interaction

fields updated by script

must be editable at that task where script runs

conditionally visible fields

must be editable at that task where script runs

cannot have hidden field be set to required by script (user cannot interact) therefore for fields that appear based on values of other fields must be editable and then hidden by script

fields from which values retrieved by script

must be editable or read-only and then set to hidden when initiated

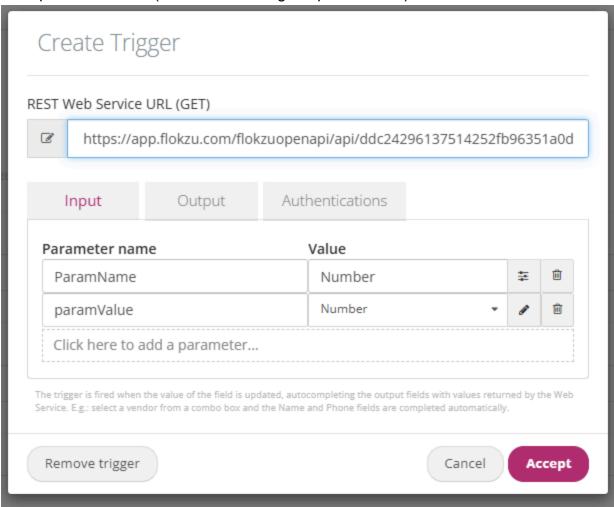
BUT

fields updated from database

can be hidden

when setting up db interaction from form field (trigger) input

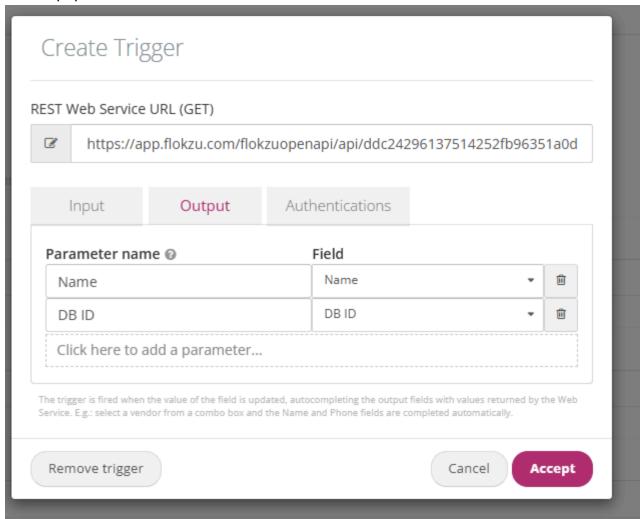
lookup value from db (recommend using unique identifier)



set up in field "Number"

output

how to populate fields



NB Parameter name should match db column name exactly

WARNING

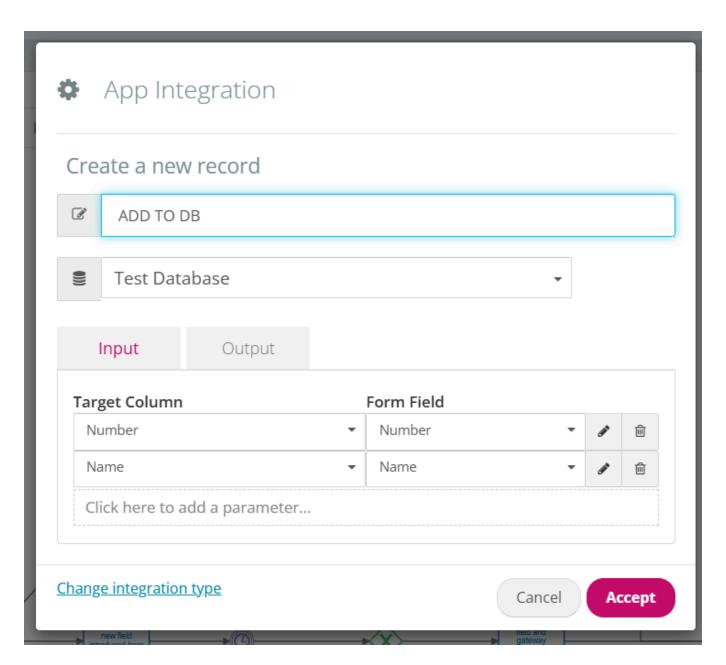
trying to populate the db ID field this way does **not** work whereas <u>and return db id to form</u> does work therefore consider flow of <u>add to / edit record in db</u>

adding and editing instances in db after task

NOTICE

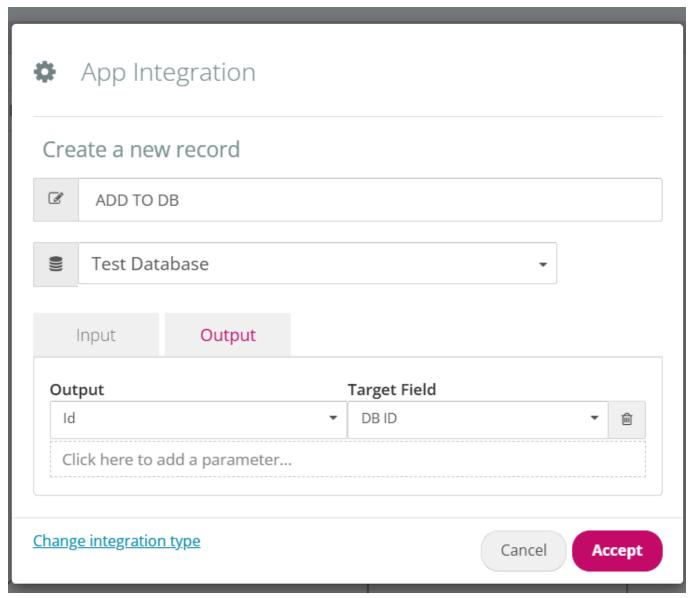
fields used to store db primary key must be integer and can be hidden throughout

add record to db

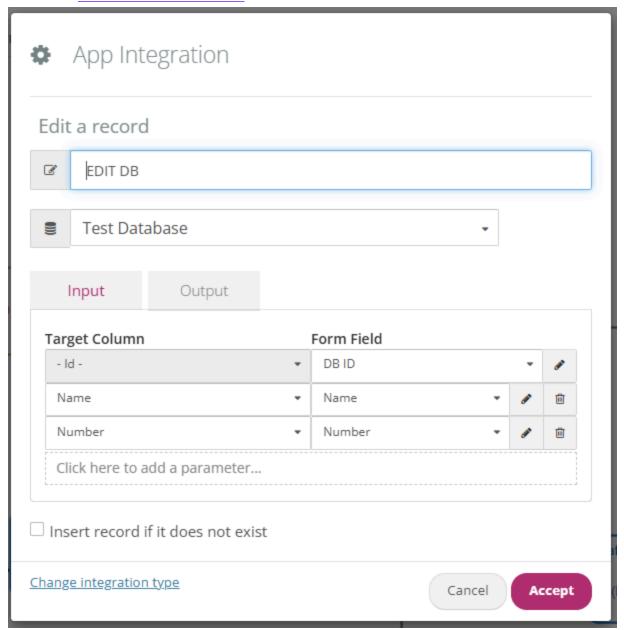


and return db id to form

field can be set hidden



edit record based on db id

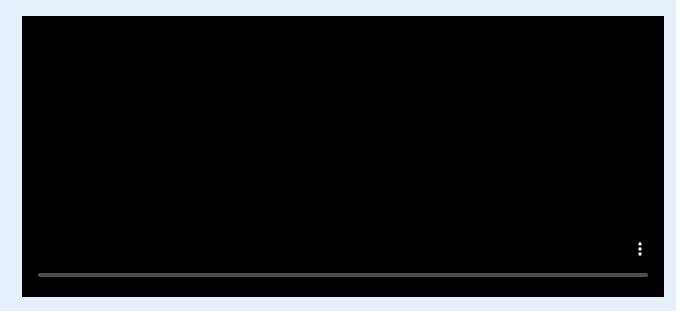


add to / edit record in db

since when setting up db interaction from form field (trigger) > output fails to update ID field (even when et to editable in task) use this flow

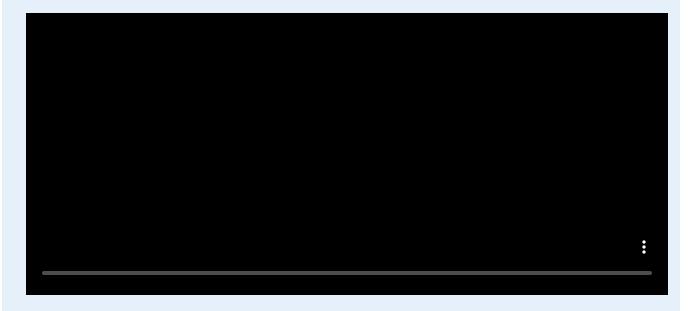


and <u>populate db ID field in form</u> with newly created db id which can then be used to edit record in <u>edit record based on db id</u>



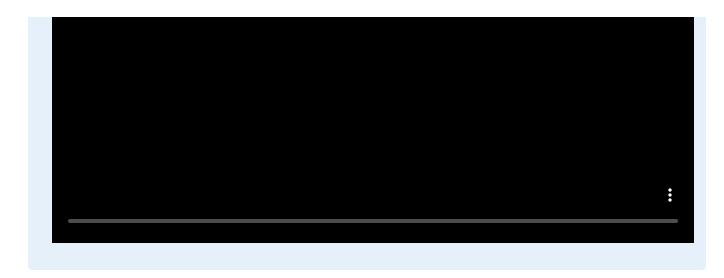
if previous record

unique identifier found in <u>fetch db id (if exists)</u>
therefore db id field populated from <u>and populate db ID form field</u>
which can then edit record in <u>add to / edit record in db</u> instead of adding new (but assuming no fields changed essentially does nothing)
so that changes can be made at same location as with case where no record found in <u>edit record based on db id</u>



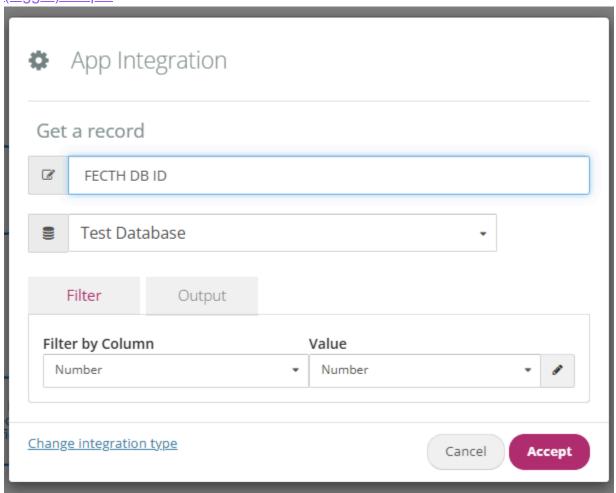
NOTICE

works (updates id ID field) even if field used as unique identifier null

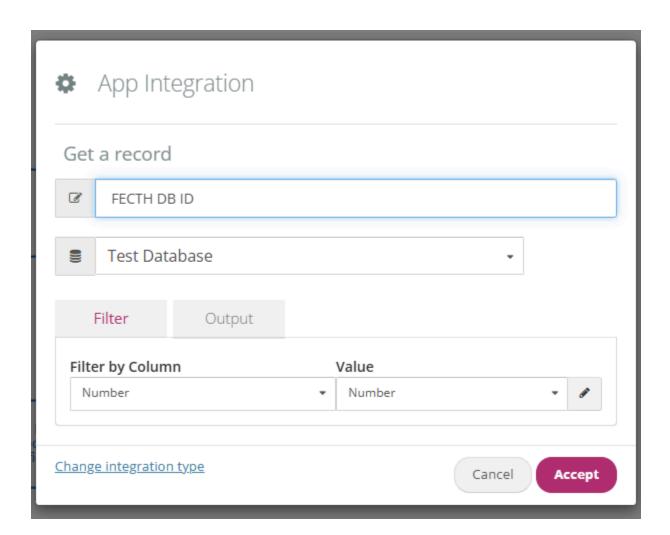


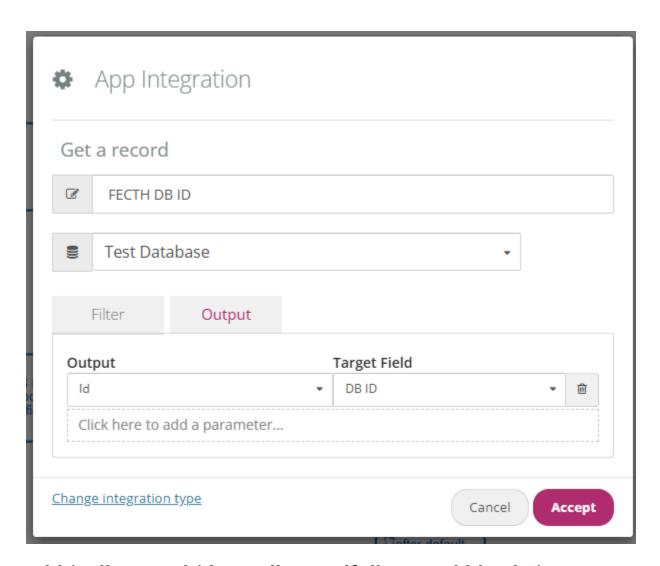
fetch db id (if exists)

NB use same field as "unique identifier" in <u>when setting up db interaction from form field</u> (<u>trigger</u>) > input

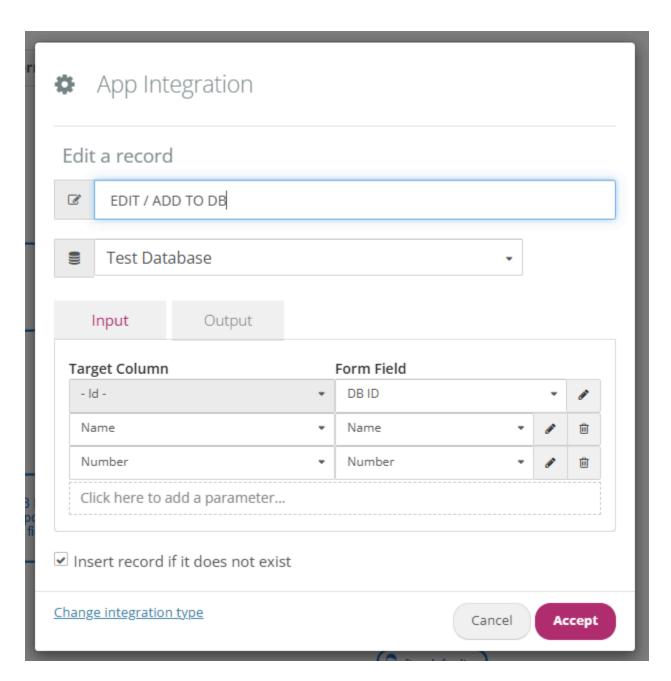


and populate db ID form field

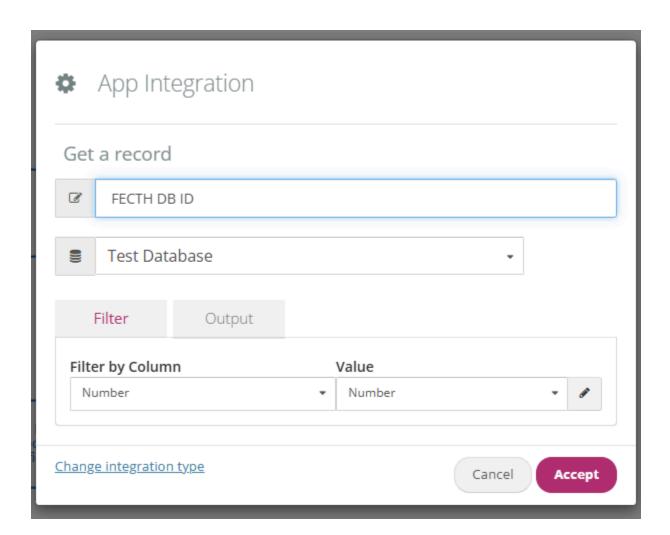


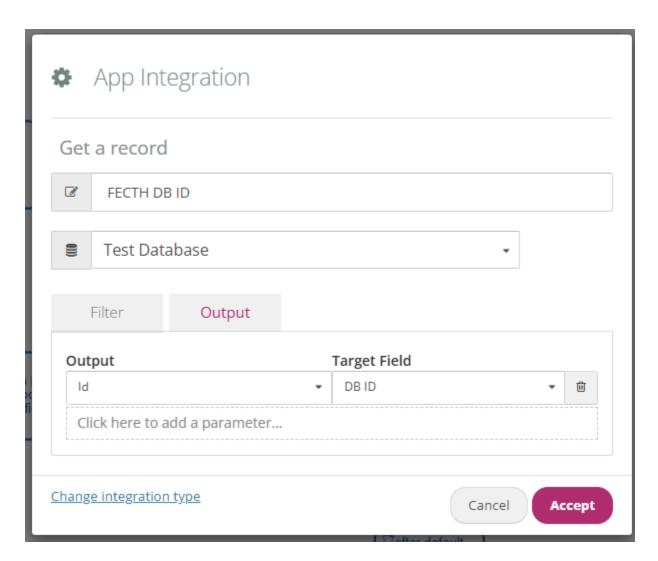


add / edit record (depending on if db record id exist)



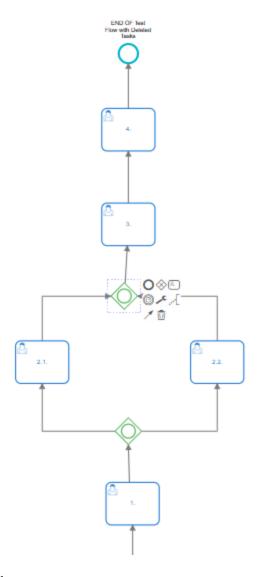
populate db ID field in form





info on how system behaves when task in flow deleted

before



after

NOTICE gateways also removed



tasks prior to alteration

tasks in 1. continued with *updated* flow (--> 2.1. --> 3.) hence

previously created tasks follow newest flow

instances existing in deleted task

tasks in 2.2. (ie. tasks 1. and 2.1. completed) remain in inbox and continue with *previous* flow

since parallel task (2.1.) already completed and waiting at inclusive gateway therefore

deletion of parallel flow (inclusive gateway) will not cause error in flow even if existing (in use) tasks removed

instances existing in parallel to deleted task

tasks in 2.1. (ie. tasks 1. and 2.2. completed) remain in inbox and continue *updated* flow (no loner requiring parallel tasks 2.2. to be completed before progressing to tasks 3.)

info on how system behaves with auto-completed tasks ito gateways

links closely to info on how system behaves with new form field used in gateway

when tasks auto-completed values in fields at last update "saved" as if task completed ie. values set / updated in tasks but not submitted will pull through to rest of process upon auto-completing

WARNING

can be problematic if user alters a field value (eg. drop down) which is later used for gateway condition without updating other fields that may be used in this flow

EXAMPLE:

require user to complete a date field and then update dropdown to "dates specified" so that flow can skip a later task where this to be completed

how this fails:

user updates the dropdown but does not specify a date the tasks is then not re-initialized later on and date cannot be set for this instance

SOLUTIONS

NOTICE

should be used exclusively

use script to set fields required based on gateway-used field value

```
function setRequired() {
    var option = Flokzu.getFieldValue([[Dropdown]]);

    if (option) {
        if (option === "Values Updated") {
            Flokzu.setRequired([[Value 1]]);
            Flokzu.setRequired([[Value 2]]);
        }
    }
}
Flokzu.onChange([[Dropdown]], setRequired);
```

TIP

format document so that "Dropdown" is above all other fields

so that user updates this field first which then determines field visibility of those below

WARNING

tasks completed on timer can do so even if required fields are empty

use script to revert gateway-used field value as desired if required fields not updated

```
function forceValue() {
    var v1 = Flokzu.getFieldValue([[Value 1]]);
    var v2 = Flokzu.getFieldValue([[Value 2]]);
    var option = Flokzu.getFieldValue([[Dropdown]]);

    // Check if either is empty, null, or undefined
    if (!v1 || !v1) {
        // Only reset if the status is not already "Values Not Updated"
        if (statusField !== "Values Not Updated") {
            Flokzu.setFieldValue([[Dropdown]], "Values Not Updated");
            Flokzu.log("Please add the Value 1 and Value 2 fields before altering this dropdown");
        }
    }
}
Flokzu.onChange([[Dropdown]], forceValue);
```

TIP

format document so that "Dropdown" is **below** all other fields so that user attempts to update this field last (and unable to do so if required fields not populated)

NB

explain in field description

eg. "Please update xyz before updating this field value"

WARNING

task with required field autocomplete if still blank

info on how system behaves with new form field used in gateway

{tested for tasks in inbox and at timers}

able to update gateway conditions to use new form field for all instances existing before this gateway

but should not delete field from form previously used

as soon as process is updated (to include new field) this field will be present in previously existing instances as well and can therefore be used in gateways

BUT

CRITICAL TO

set default value which is used to direct flow at gateway to flow in which tasks appears where this new field can be updated and "default flow" expected

WARNING

if no condition in one of the exclusive gateway flows then system followed that path even when condition of other flow met

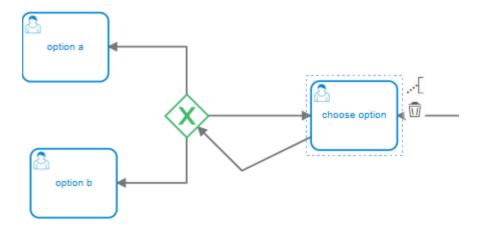
NOTICE

not always the case

able to follow flow where condition met and only if not met follow no-condition flow when exclusive gateway linear



but fails with recursive loops



info on how system handles change in field name

{tested for tasks in inbox and at timers}

WARNING

have to manually update the scripts

NOTE

although field name does not update for instances in timer as soon as moves out of this field name altered and should be referenced to as new field name in communication eg. {{Updated Field Name}} if old file name used then section of email will be blank