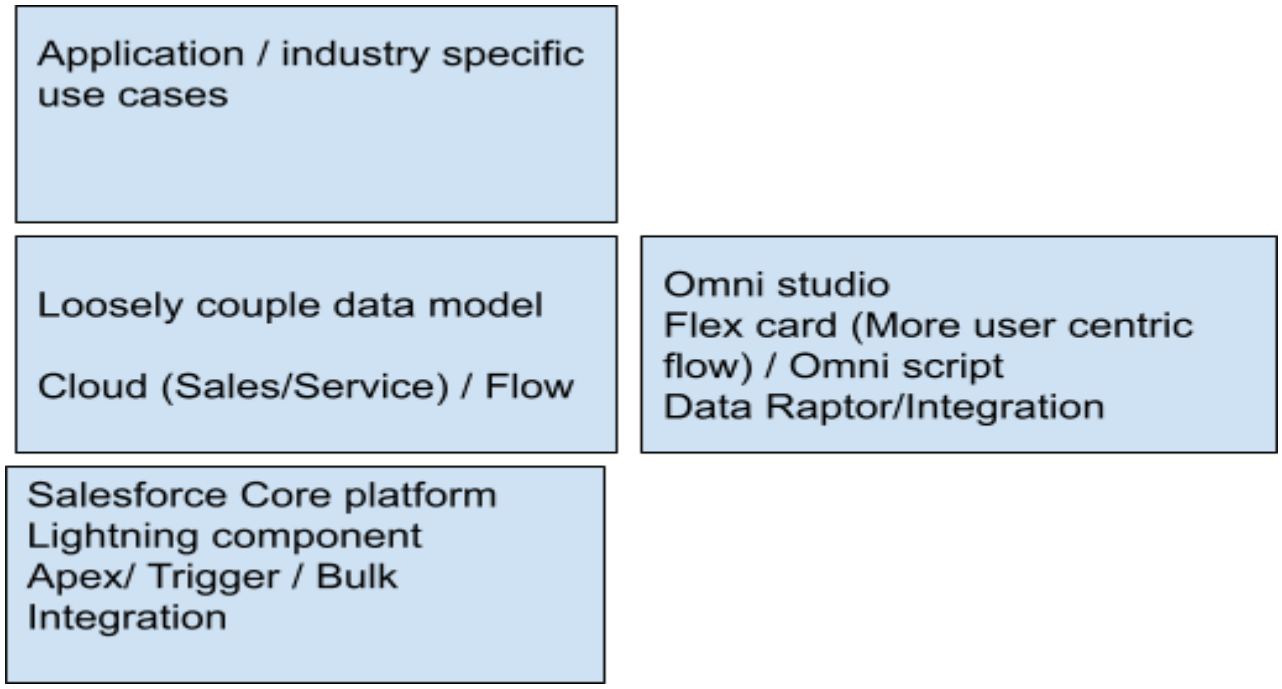

Vlocity

Vlocity: Vlocity is a leading industry-specific cloud and mobile software provider
It is a managed package on top of the salesforce cloud.



Application:

Media and entertainment sector :

Vlocity Clickstream Analytics:
Vlocity Clickstream Analytics provides actionable insight into customer-facing business processes, enabling executives and analysts with metrics on the timing, integration, and outcomes of sales and services interactions).

Communication sector :

Vlocity Communications includes Sales, Marketing, Service, Retail, EPC, CPQ, Contract and Order Management applications.

Energy sector :

Health sector

Vlocity Health Insurance builds on the flexibility of the Salesforce Platform to drive the entire health insurance customer journey. Cloud apps that are enterprise-scale solutions designed to run and replace the Front and Mid Office for health plans

Insurance sector :

Velocity's omni channel solutions for the entire customer journey, from quote to service and claims).

Government sector:

(Vlocity Public Sector delivers modern applications for government contact centers, case management, and the administration of housing and human services programs that are 100% additive to Salesforce Service Cloud and Community Cloud

Utilities :

Component: (this component bundle call as omni studio(declarative approaches))
========= > **Home/record/ lightning app builder / community** <==========
Velocity card / flex card / vlocity flex card **(front-end)(only to show some data)**

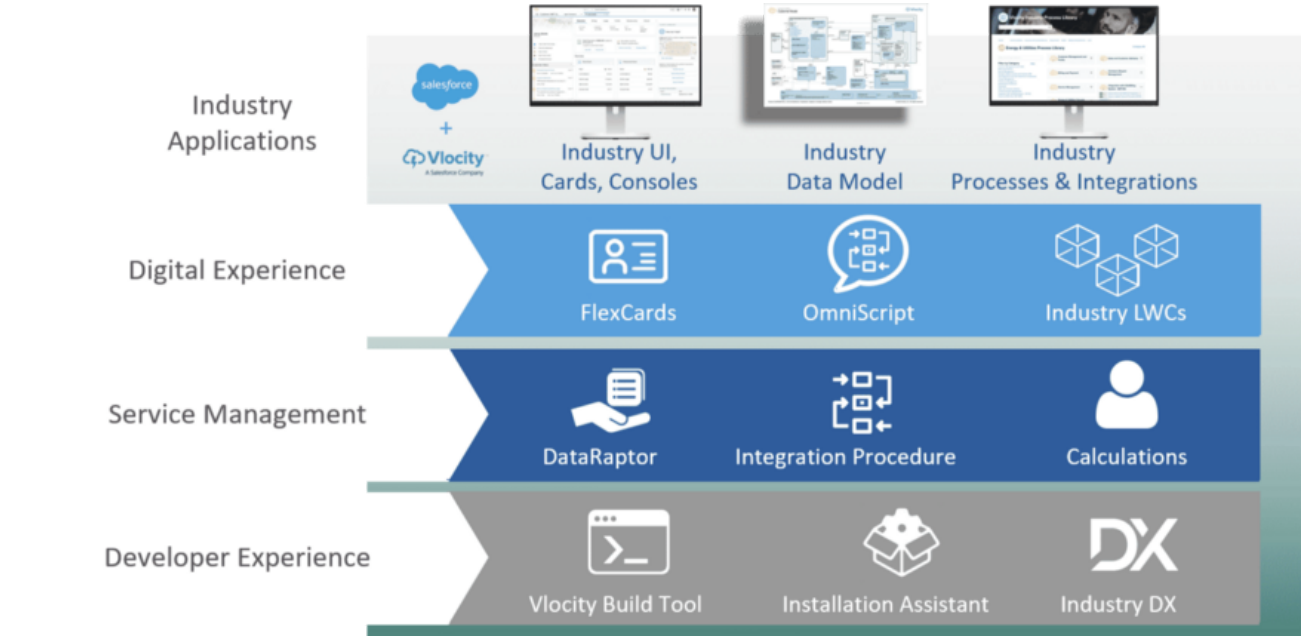
OmniScript (back-end) **(Business flow)**

Vlocity integration procedures **(data-load) (Apex class) (Complex logic)**
DataRaptors **(data-load) (simple logic) (lightning data services)**

Vlocity calculation matrix
Vlocity calculation procedure

Industry console
Process engine

ClickStream Analytics
IDX Build tool / IDX Workbench



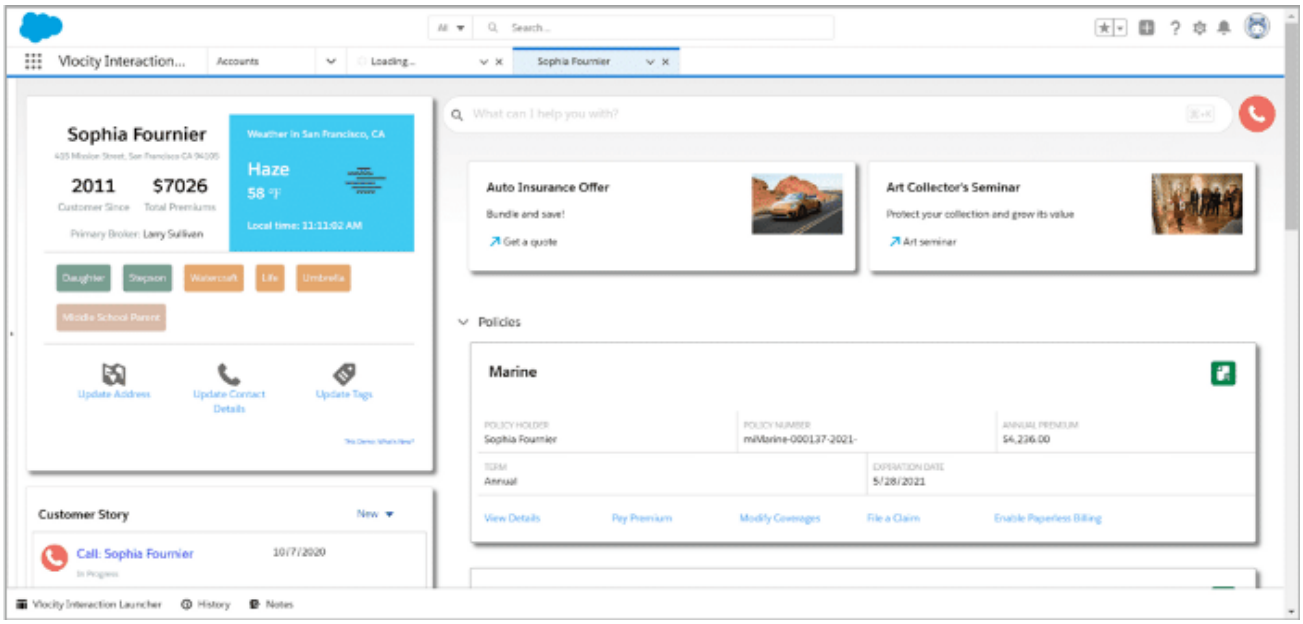
Detail Description:

Vlocity template: How data will be displayed {i mean one common format to show result}
Vlocity layout::: hold multiple cards in one layout.
Velocity card ::: mobile/Desktop/ IPAD page look, preview (FLEX CARD) **(Output)**
Omnistudio Flex card : more interactive ui
FLYOUT : kind of pop up which will show more information when we click action item
Pass data from parent card to child card {records} {Account:Name}

Flex card : view the data in card format (**u can filter incoming data here also state wise so what action need to be taken for particular data information can be done**)

State : what are the information u wanna see in the flex card

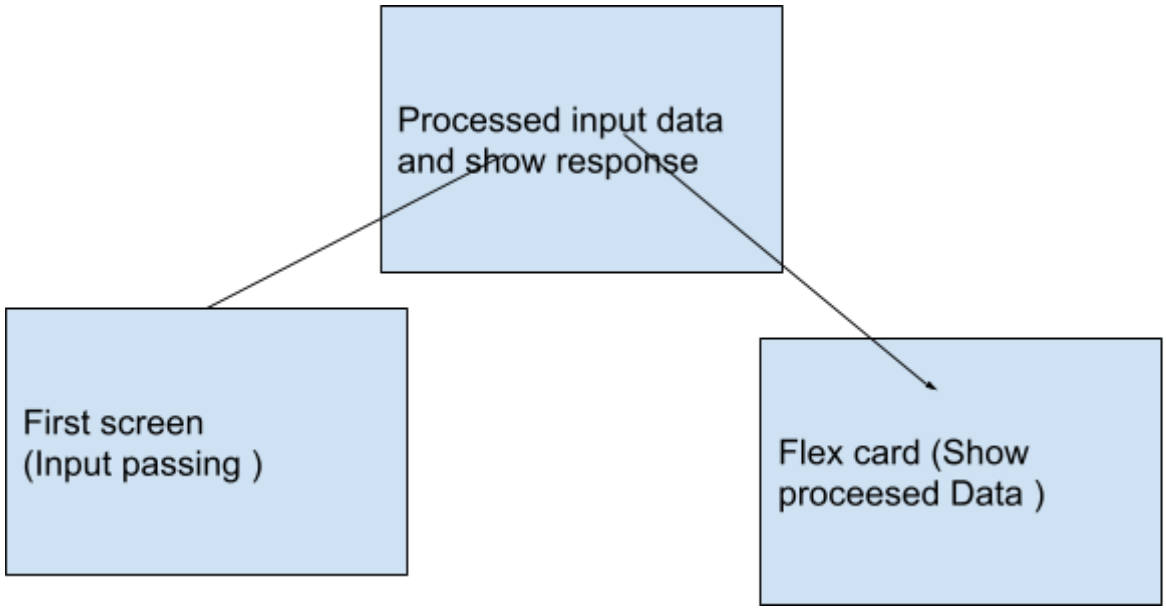
Action : what are the action u wanna see with the data state information



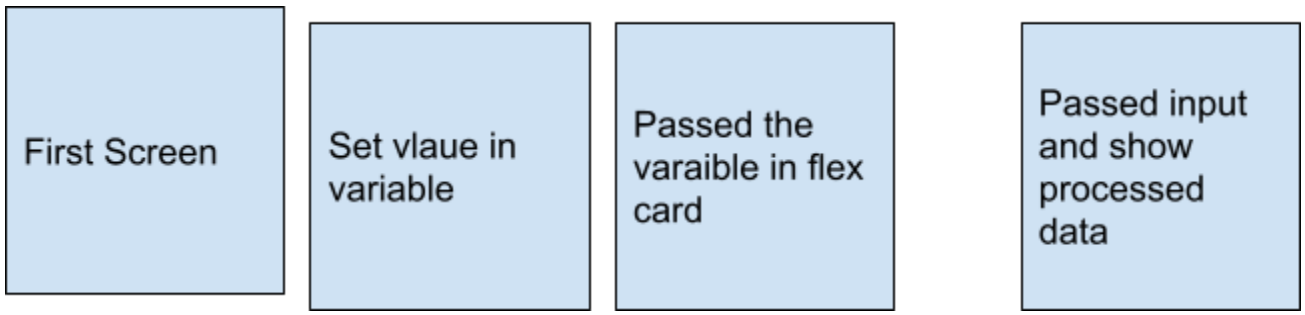
If we want to pass any input from flex card
Then input Map
Id {{param.Id}}

TestVariable

Param.id
Vlocity flex card is a kind of separate output sourcing so you need to define source by passing the input parameter.
It doesn't work in the process where we get response from one screen and show the output in flex card
E.g:



No it doesn't work in this way as i said while loading flex card it has separated outsourcing
So



OmniScript :: similar to flow :: more enhanced customer context centric experience
Support condition business logic, exception flow, document integration and customer branding etc
Series of action users need to perform to complete a business logic.

Example:
PRE POPULATED FIELD(Extract data raptors from salesforce))
Load data while searching (Integration procedure) (GOOGLE SEARCH) **(Input)**

Mode
Design : Build / Property / setup
Preview : Debug

Width Adjustment : Automatically
Preview device mode : mobile / laptop/ tablet

Version / Activation

Build Element :

1) Action :: (Email, PDF, Remote, HTTP)
2) Display :: output (image. Screen)
3) Function :: Aggregate, formula, conditional message, geolocation
4) Group :: Grouping items (Step, radio group, block, action block)
5) Input :: All input elements
6) Omniscript :: reusable omniscript

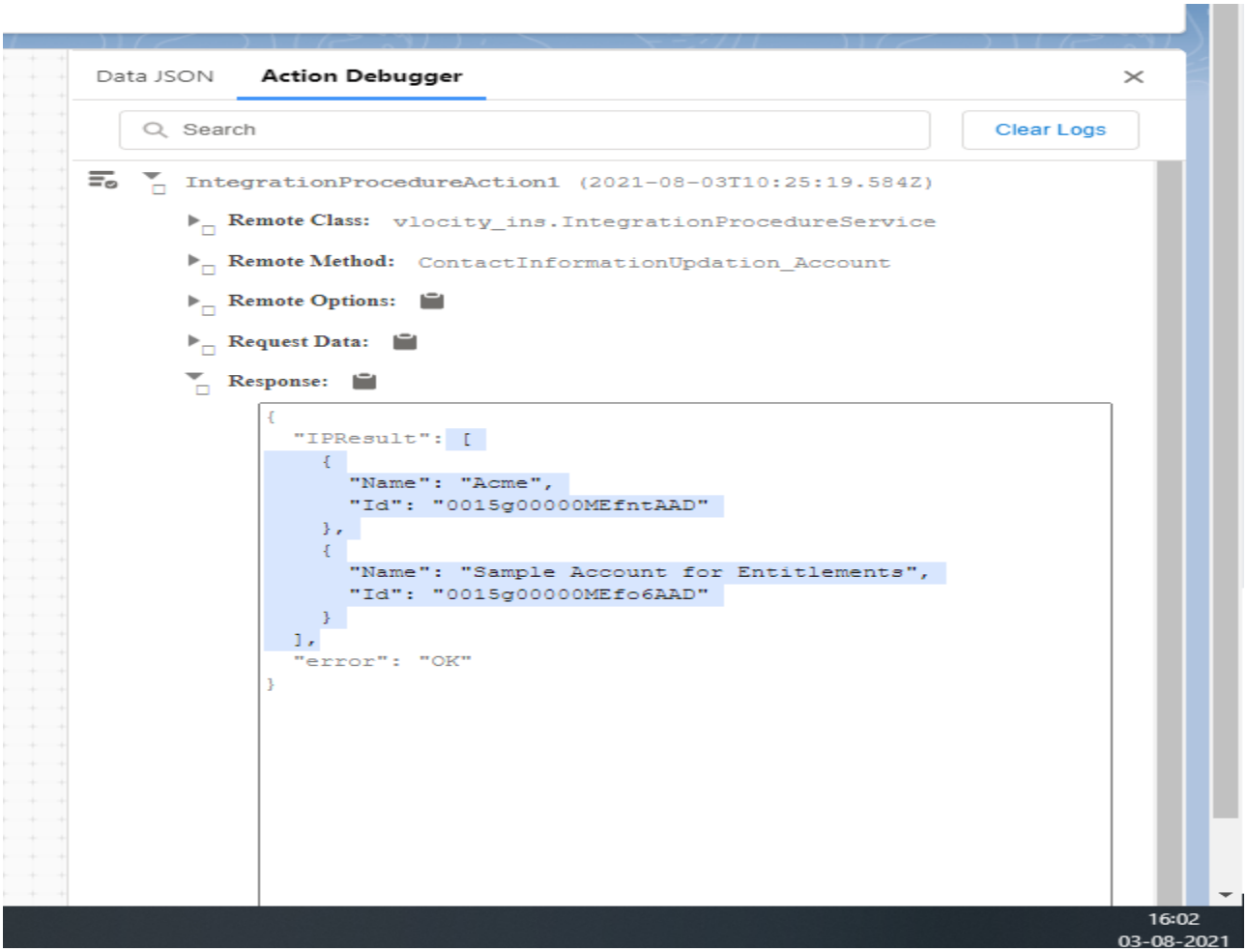
Name : API

Label: Field Label

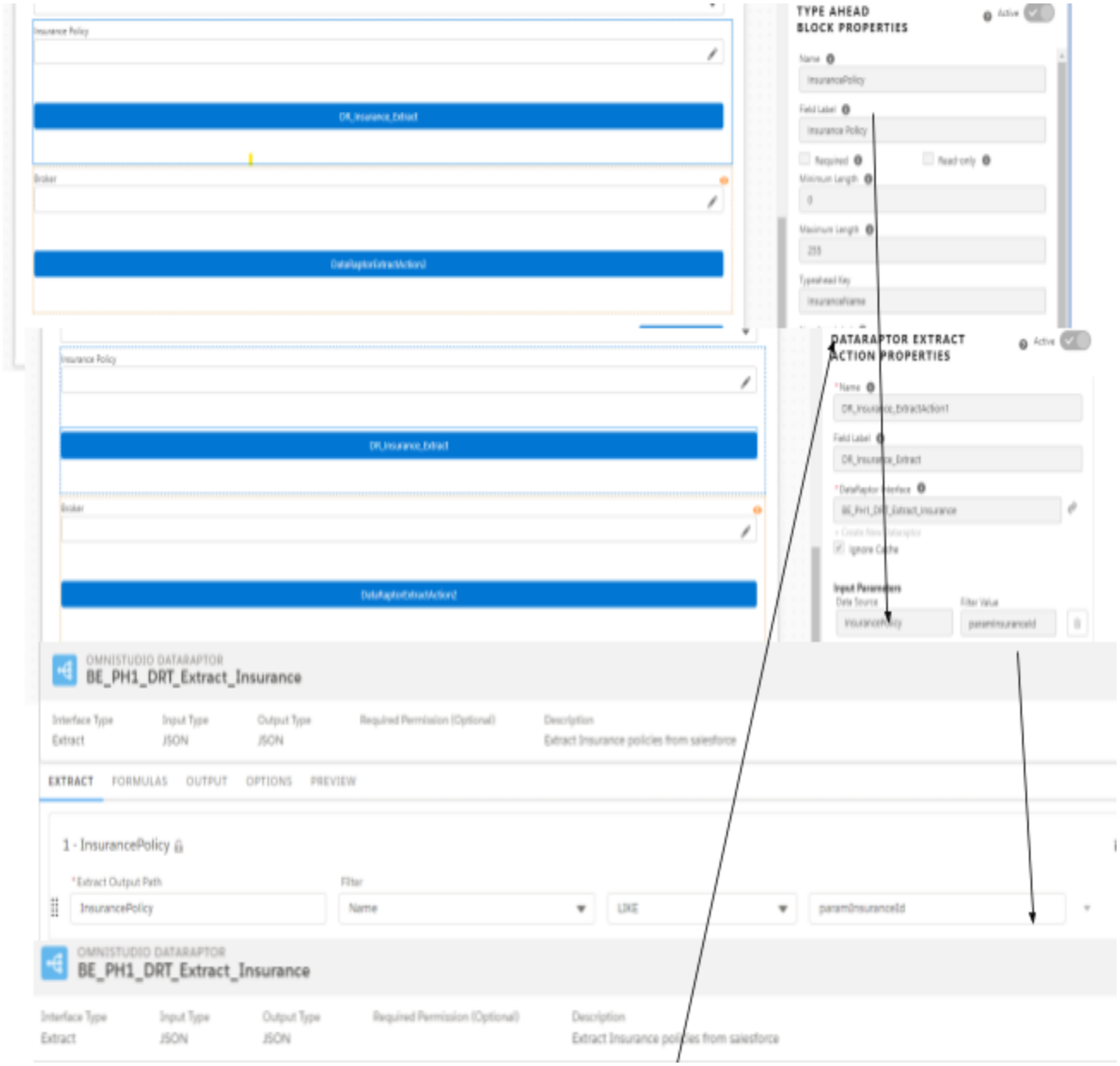
Field Property :
Field dependency : condition : if: true
HIde of field in jSON format
Required / help text / Validation
Restriction

Grouping:
Steps : Screen : step chart : in setup

TypeHead: Searching : (Type and searching)
In response node data should be list<object> format



Key that u gonna use to : in this case Just **Name**
In IP input: just type TypeHead1 as input

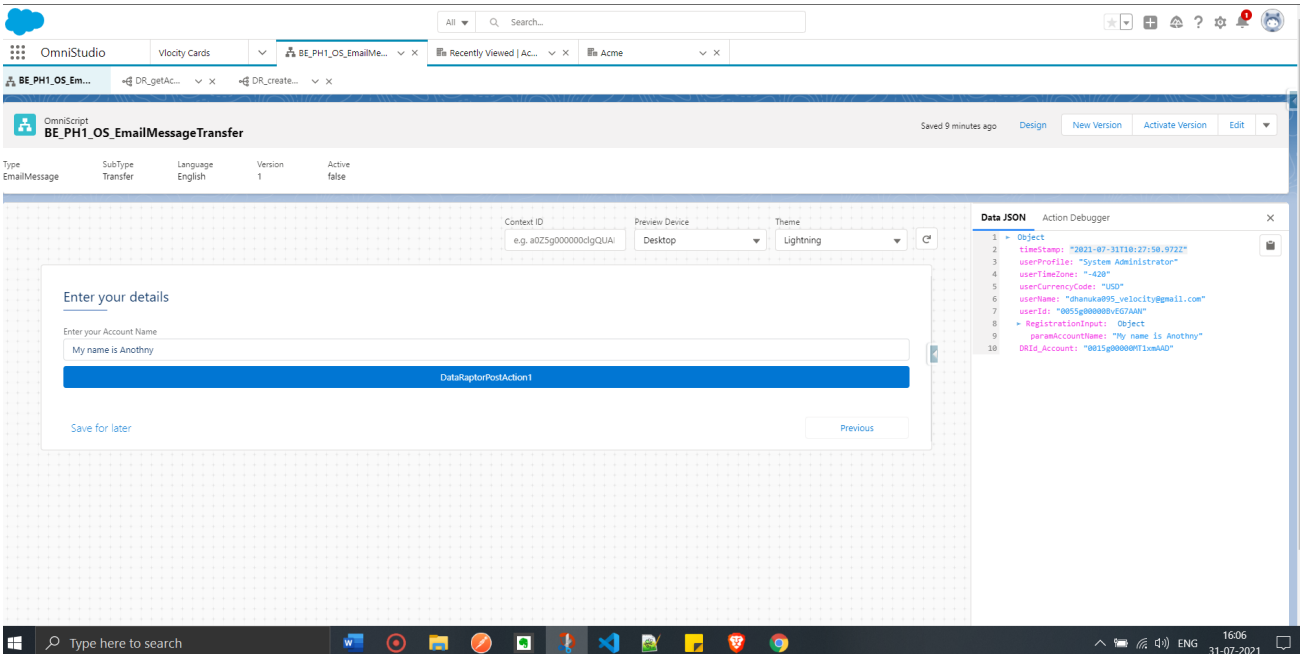

Insurance Policy
DR_Insurance_Extract
Broker
DataRaptorExtractAction2
TYPE AHEAD
BLOCK PROPERTIES
Active
Name
InsurancePolicy
Field Label
Insurance Policy
Required
Read only
Minimum Length
0
Maximum Length
255
Typeahead Key
insuranceName
DATARAPTOR EXTRACT
ACTION PROPERTIES
Active
*Name
DR_Insurance_ExtractAction1
Field Label
DR_Insurance_Extract
*DataRaptor Interface
BE_PH1_DRT_Extract_Insurance
Ignore Cache
Input Parameters
Data Source
Filter Value
insuranceId
OMNISTUDIO DATARAPTOR
BE_PH1_DRT_Extract_Insurance
Interface Type
Input Type
Output Type
Required Permission (Optional)
Description
Extract
JSON
JSON
Extract Insurance policies from salesforce
EXTRACT
FORMULAS
OUTPUT
OPTIONS
PREVIEW
1 - InsurancePolicy
*Extract Output Path
Filter
InsurancePolicy
Name
LIKE
paramInsuranceId
OMNISTUDIO DATARAPTOR
BE_PH1_DRT_Extract_Insurance
Interface Type
Input Type
Output Type
Required Permission (Optional)
Description
Extract
JSON
JSON
Extract Insurance policies from salesforce

Input:
Field:
Picklist value : objectname.fieldName
Lookup field: for lookup field user can not type anything they can only select available value for that u need to pass the value
So 2 option : -

1) **Provide default value or**
2) **Provide lookup filter value that value can come from dataraptor and assigned through type head or normal text earlier (set value and pass in filter)**

Action:
Set value
Set Error
HTTP action: call HTTP API
Remote action : execution of Apex class
PDF Action
Email Action
Navigate Action: where to direct/Redirect(dataraptor name (i guess it contains id) or ip response id)
Refresh/ Reload

Example:
User will give Account number if account number present then fetch account and contact details else show error



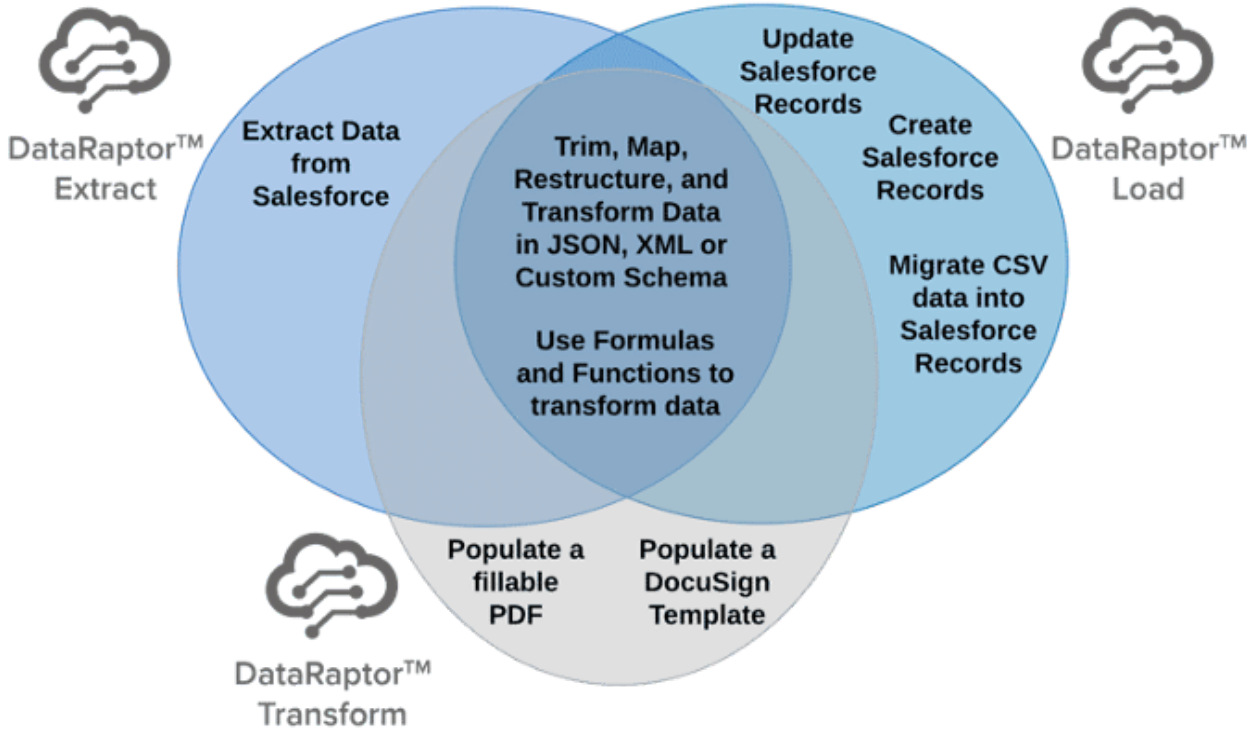
DataRaptors :: is one of declarative tool :: that is used to supply data to omniscripts and omni flex card and write data from omniscript and flexcard back to salesforce **(IMPORT-EXPORT Functionality available)**

Note: it Run synchronously

Type of DataRaptors:

1) Data Raptor Turbo Extract : get data from single object **(single)**
2) Data Raptor Extract : get data from one or more salesforce object **(parent, child)**
3) Data Raptor Load : save the data in one or more salesforce object **(Updating/creating/Migrating)**
4) Data Raptor Transform : manipulate data (Transform xml to JSON)**(JSON-JSON)(JSON-PDF)**

Ex: pdf generation and data show

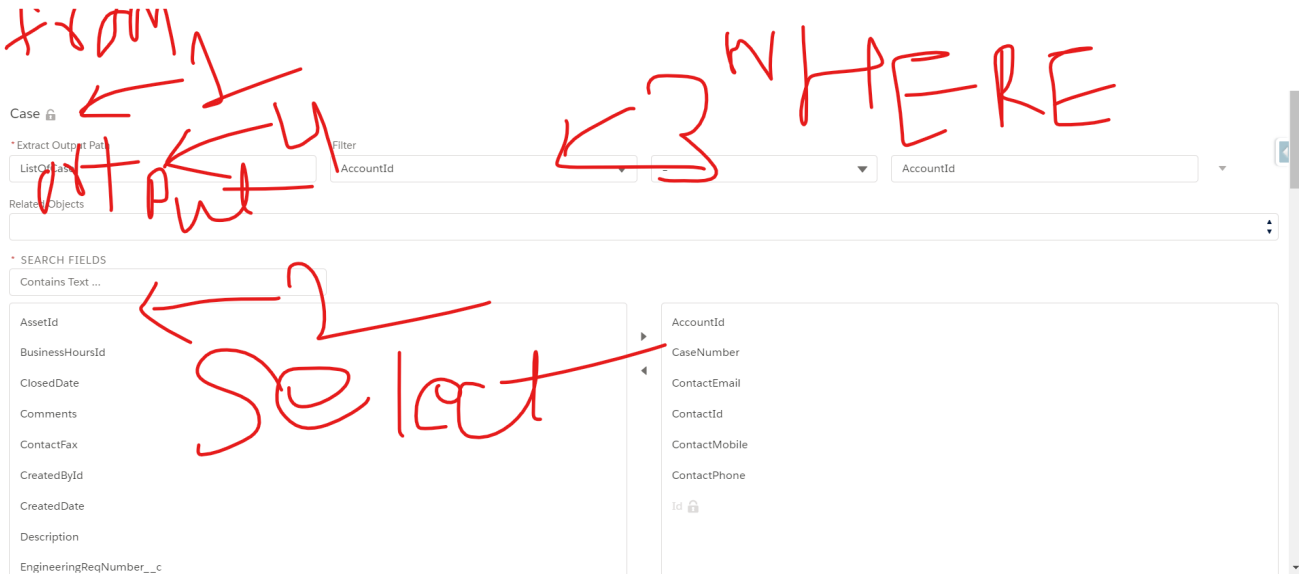


Extract: for multiple related query use : feature to map in right way
And keep **extract json path and output json path** same (OR u can use **quick match** option)
And to transform the data either use formula field or transform key value pair option

Example: (Turbo Extract)

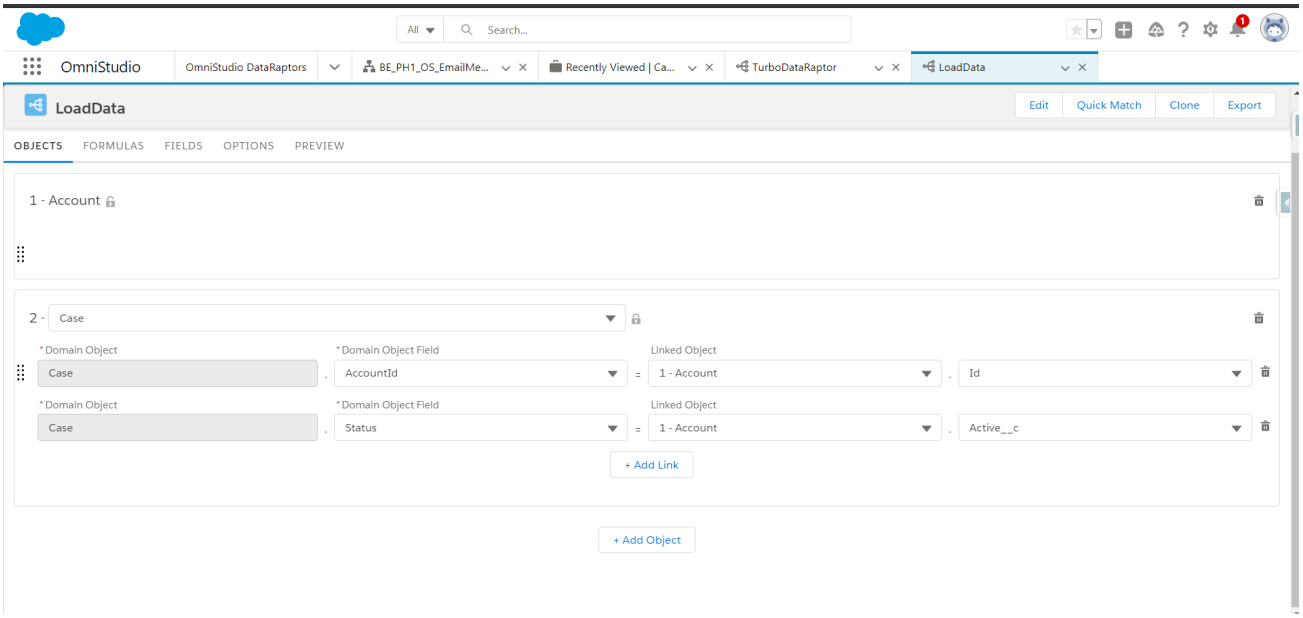
```
public class GetCaseInformation {

   public static List<Case> getCaseInformation(String AccountId){
      //return [select id, CaseNumber from Case where Account.Id =
'0015g00000MEfntAAD']
       List<Case> li =  [select id, CaseNumber from Case where Account.Id =: AccountId];
       System.debug('List of case' + li);
       return li;
   }
```

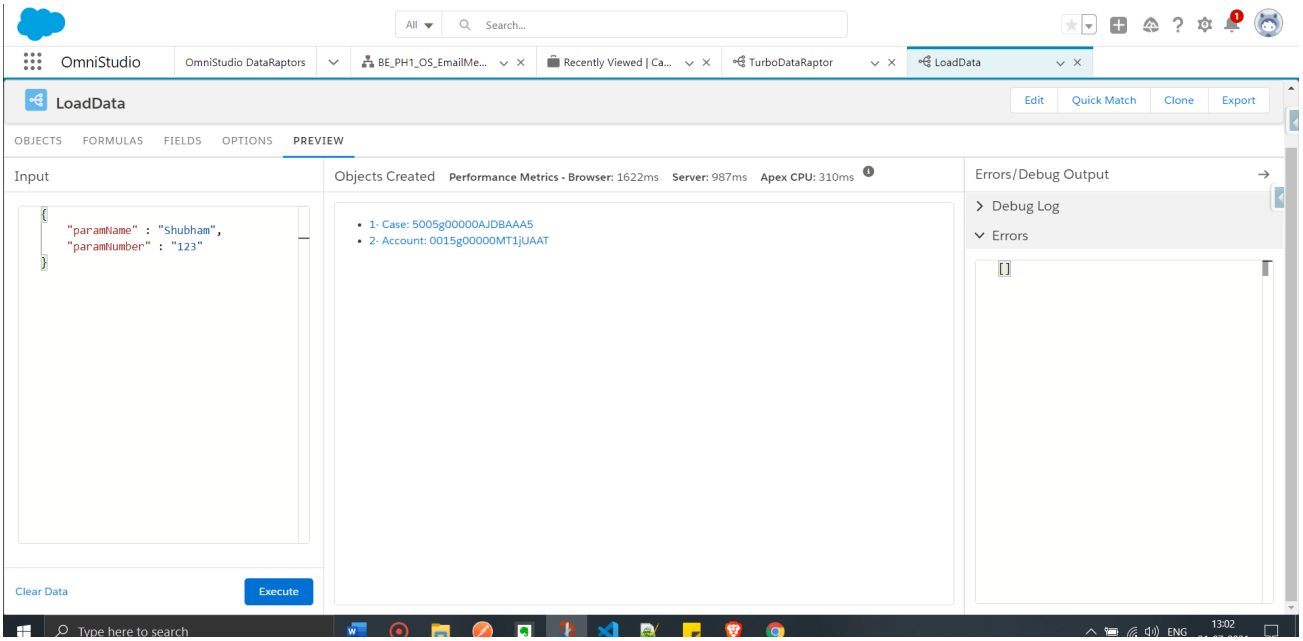
}



5:) you can also perform **limit, order by, offset** function and **AND, OR query**

Load Data: (u can utilize valid json for quick match)
Single Object single record
Single object multi record
Multiple object single record
Multiple Object multi record





is lookup for finding relevant data and then updating the data

Transform data: to get index value use **formula** and **pipe** option and index **start from 1**
Remember formula store value use as input in input json extract
1. Object to List Format: https://github.com/TheVishnuKumar/Omn...

2. Object List to List of Items:

https://github.com/TheVishnuKumar/Omn...

3. Object List to Multi-Select Value: https://github.com/TheVishnuKumar/Omn...

4. Data Value Conversion: https://github.com/TheVishnuKumar/Omn...

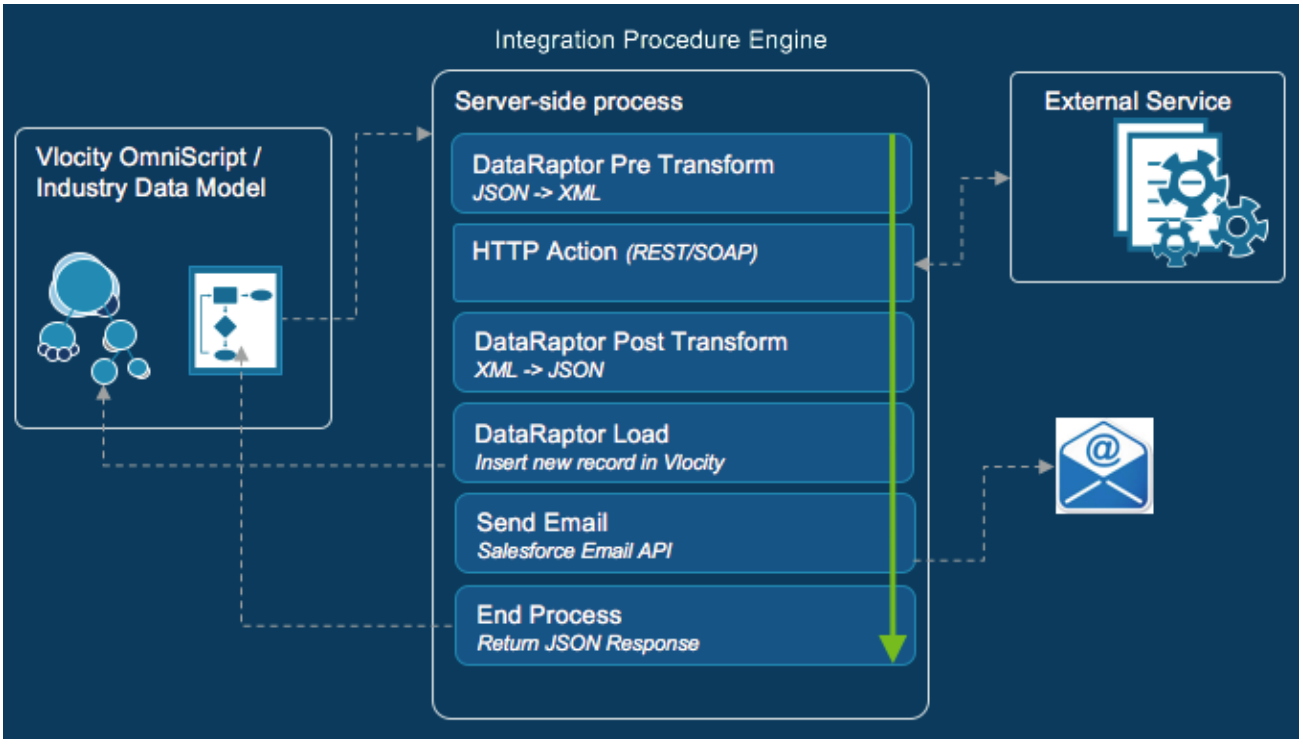
5. Object to Different Object Formation: https://github.com/TheVishnuKumar/Omn...

6. List of Item to Object: https://github.com/TheVishnuKumar/Omn...

7. Object to List of Item Using Index: https://github.com/TheVishnuKumar/Omn...

8. JSON to XML: https://github.com/TheVishnuKumar/Omn...

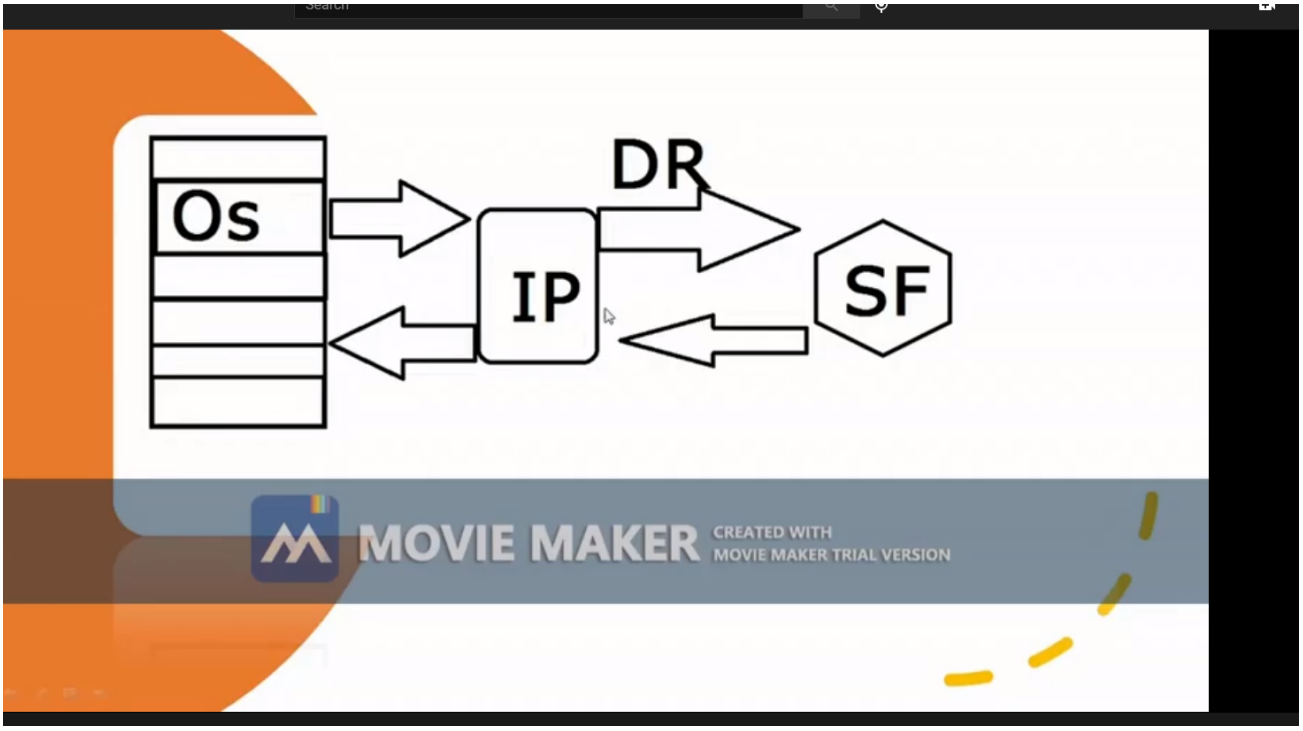
Vlocity integration procedures:



integration (club data raptors) (Not database.insert, just insert)
Platform event
Named Credential ::: end url, username, password
Batch processing
Error Handling
Call Any API

Response Action:
Send data to Omniscript

Example:
Setvar
LoadDataraptor
responseAction



URL parameter use directly : e.g: contextId
ScreenParameter : Step1:Text1
----------> NO %
←---------- Yes %

Remote action through integration procedure : calling apex class through IP

Remote action : execution of Apex class :: Apex class data fetching
We need to implement velocity interface first
Then we need to check method whether right method execution is happening or not
Then we need to allow them to execute method
Then we need to return the data in JSON format

Velocity calculation matrix :: (permutation and computation)
Coverage ⇒ premium ⇒ calculation procedure → calculation matrix
Complex Business logic

Console: All in one

Project explore: club all component together

Deploying Omnistudio items :
Salesforce provides two tools specifically for **Vlocity deployments.**
IDX BUILD : CLI Based tools
IDX Workbench : Manage and deploy (CLI and GUI)

Yml.xml : package.json

Source
Repos
Target

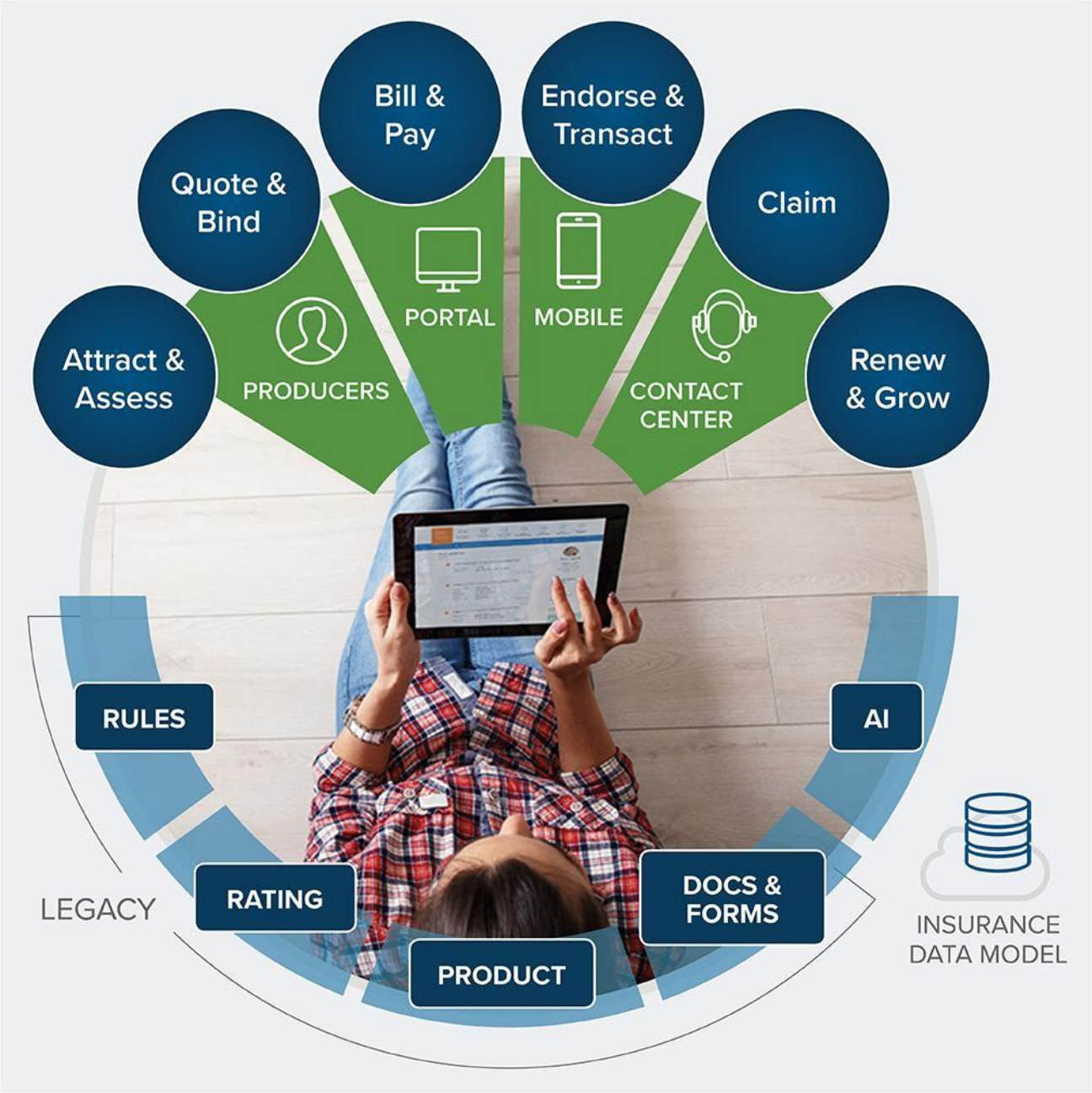
Project : all component (what component u need)

IDX Workbench ==========> retrieve files
Add them into local repo
Push the code

==========

The Basic Structure of the
Vlocity Insurance Customer Model,
the Vlocity Insurance Billing and Payments Model,
and the Vlocity Insurance Policy Administration model.

==========



Record Data Activity: General Question:

URl : No need just use variable name
Screen : ScreenName:CompoentApiName
% ::: value ::: Payload/ remote action:- :: %Node:Key%
: ::: Grouping key accessing with name
. ::: Object Name.fieldName ::: Source

Note: (PASSING VALUE)
API Name of input field in OMNIScript : holds data/ reference of that input value
Extract Output Path : is how output of data stored (variable basically) (list of)
INPUT JSON PATH : is how we will pass the data (parameter basically)
OUTPUT JSON Path : where variable data will be store in JSON format

For formula also : defining variable in formula used as param variable and will pass the data from json
And outcome of formula will be stored in a variable and will be used as inputJSONpath

How to pass an input to a dataraptor through an omniscript?
Ans: Define input parameter
In extract dataraptor u can use this:
DataSource: from where we are getting the value (API NAME OF that) (value could be hardcoded also)
FilterValue: paramValue (that will use in data raptor) **(assignement dont use %)**
Value coming than use % (--> NO) (<-- yes)
Dataloader load value without %% from os (mean os to dataraptor just use path)

But for **load raptor** there is no datasource and filter value so use InputJSONPATH
That u use while loading data raptor
Same will be defined in input API Name
Same will be defined in loadDataRaptor JSON Node
And pass additional parameter

How to use the output of a dataRaptor in an omniscript?
Ans: to use output, create a text input value and use %Account:Name% in value

How to show a record id in an omniscript that was created through data raptors?
Use that instance with %%

How to use omni script in a custom button / vlocity action / omniaction ?

Embed the code after /lightning/

/lightning/cmp/vlocity_ins__vlocityLWCOmniWrapper?c__target=c:emailMessageTransferEnglish&c__layout=lightning&c__tabIcon=custom:custom18&c__ContextId={!EmailMessage.Id}

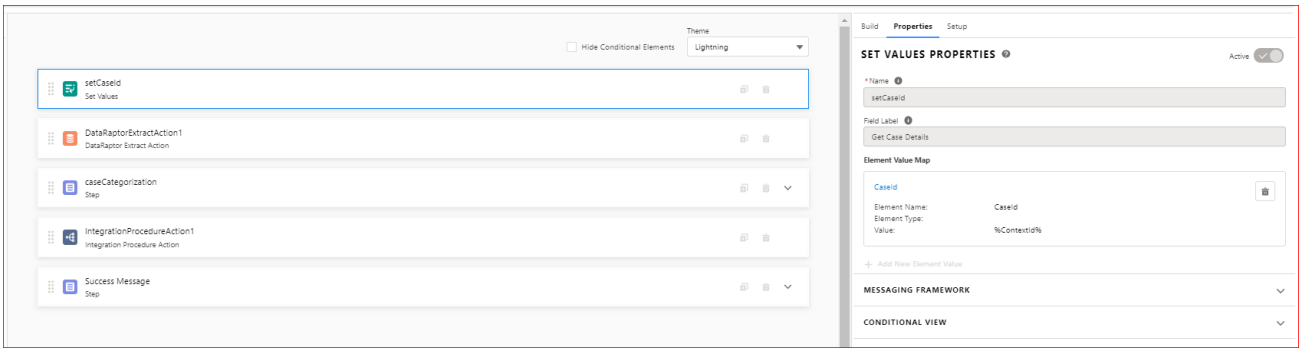
How to pass record id/ context id into a button ? &c__variable ={!}

Through URL:

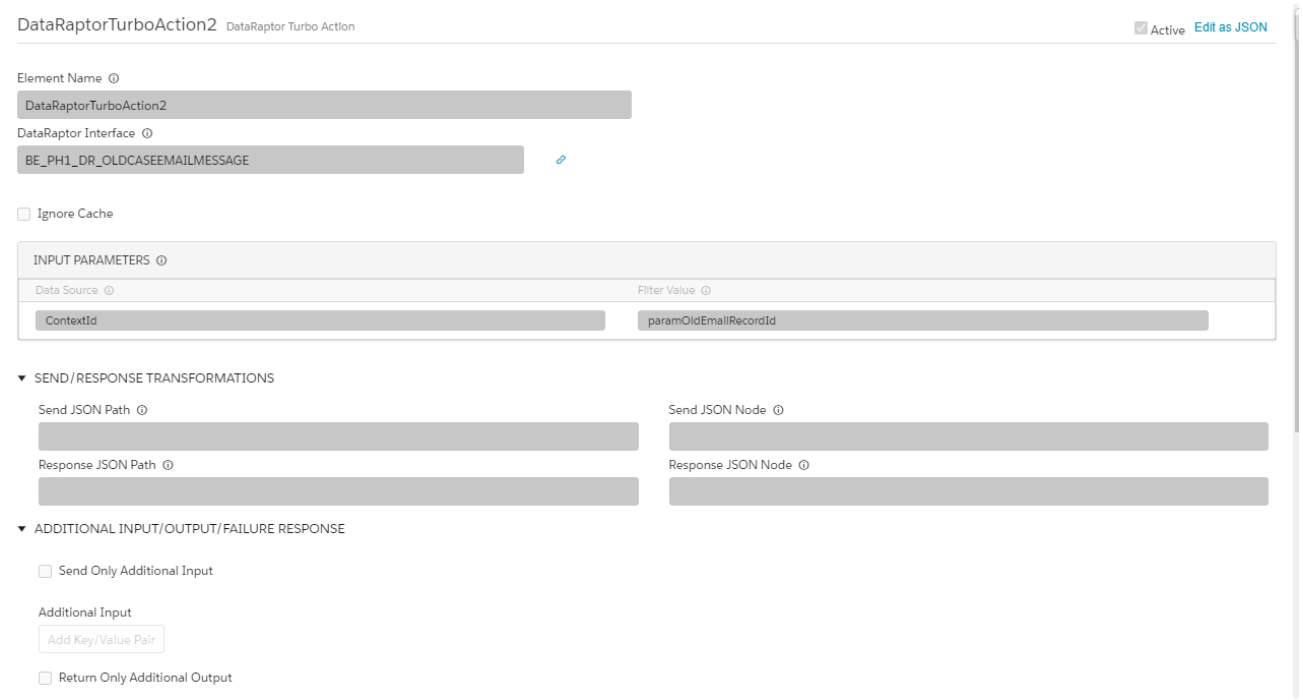
c__ContextId = and usage **%ContextId%** and in datasource **ContextId**

How to set context id variable value into an omniscript?

(loaded while component loaded and can pass the value from URl also)



How to pass context id into integration procedure?

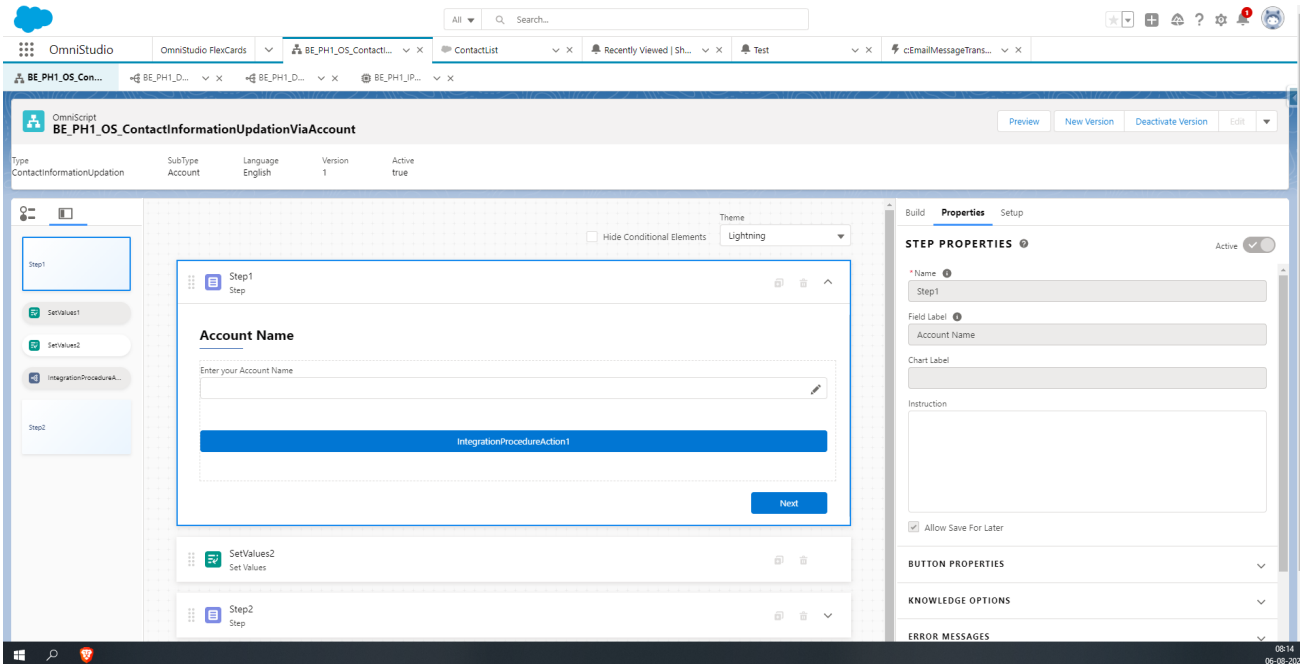


How to set the predefined static value and dynamic value?

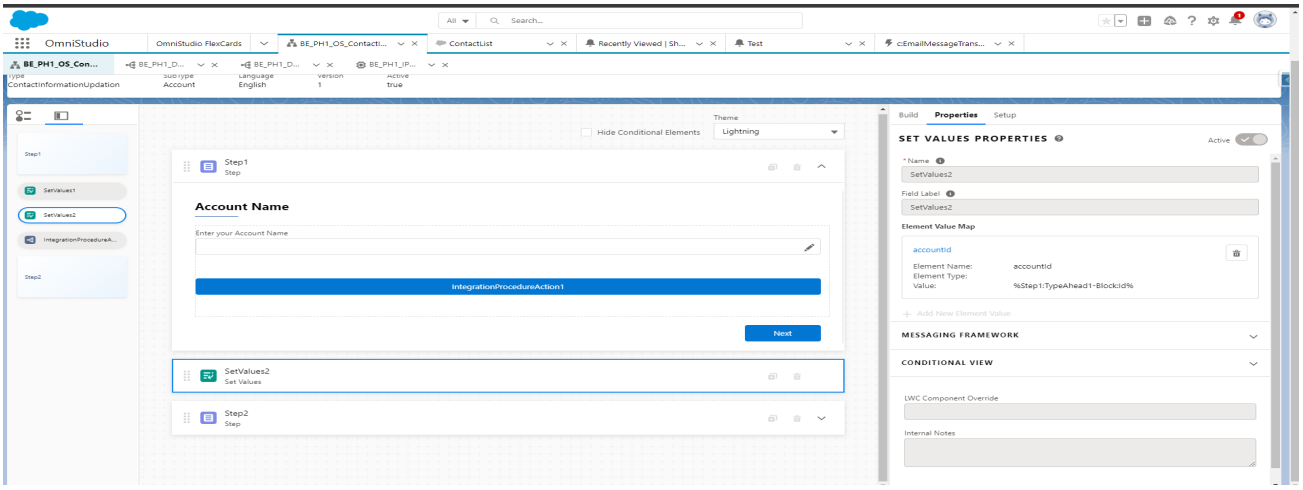
Static value: you can use set variable

For Omniscript:

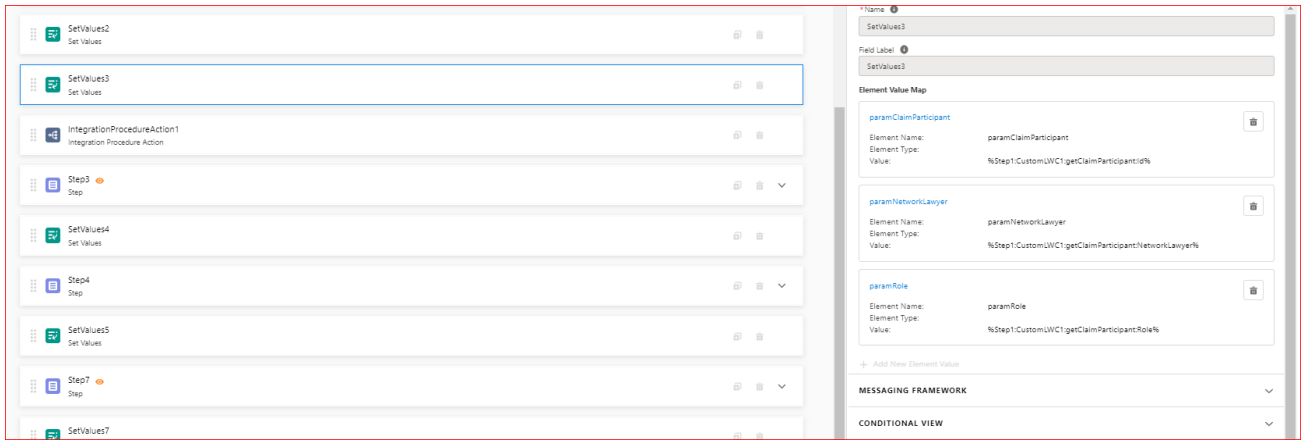
First Screen:

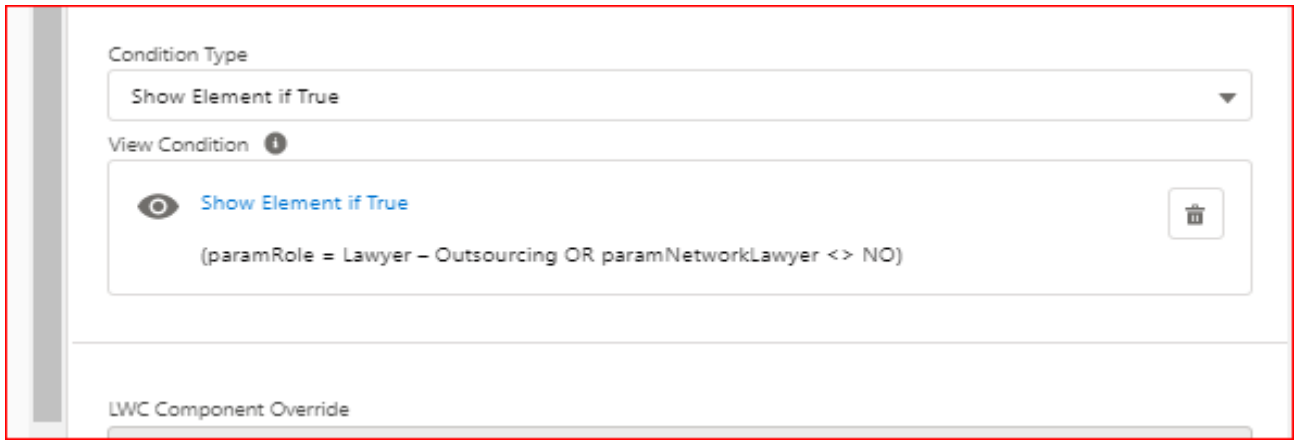


Set value in variable

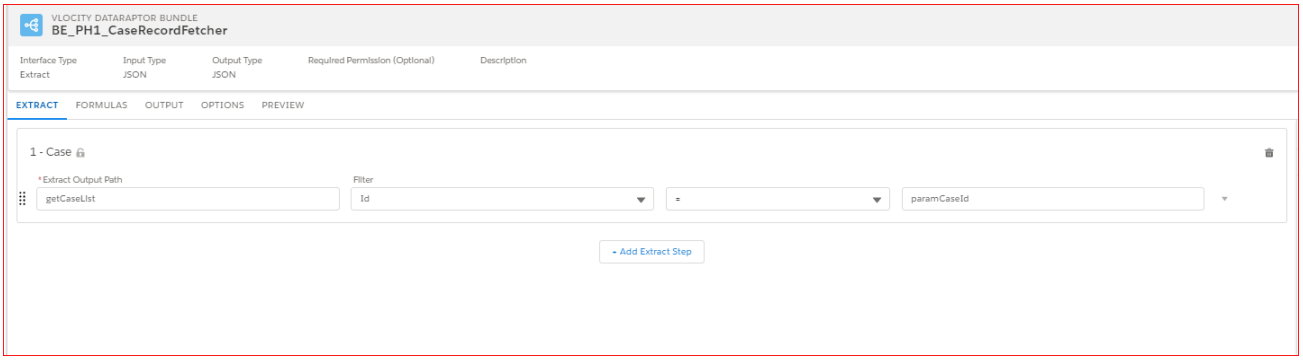


How to use set variables in an omniscript/ dataraptor/ integration procedure ?
Note: when u set static variable in set node, in further using
you don't need to define setValue:node in omniscript
In os: setvalue doesn't work so pass name of variable (accountId)
Whereas in Integration procedure, yes you need to use set:node
And in IP with node name (setvalue1:accountId)
For omniscript:

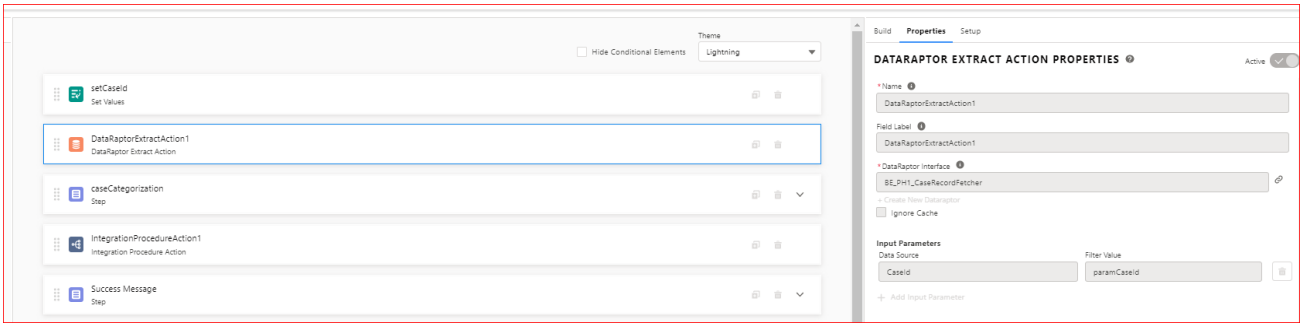


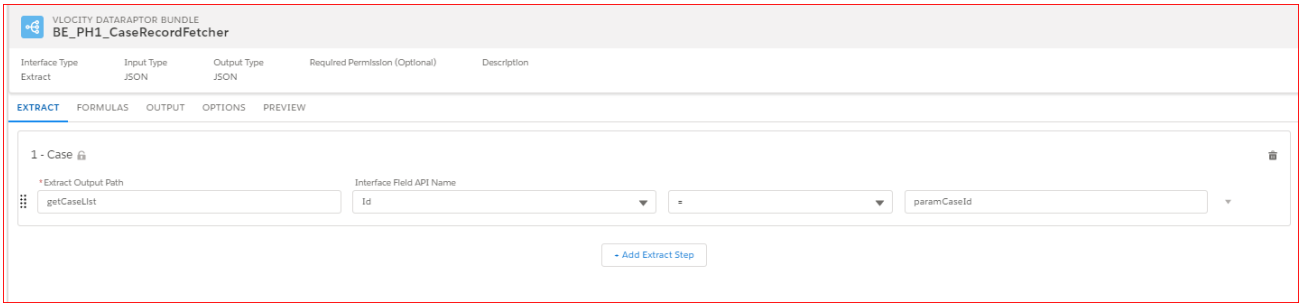


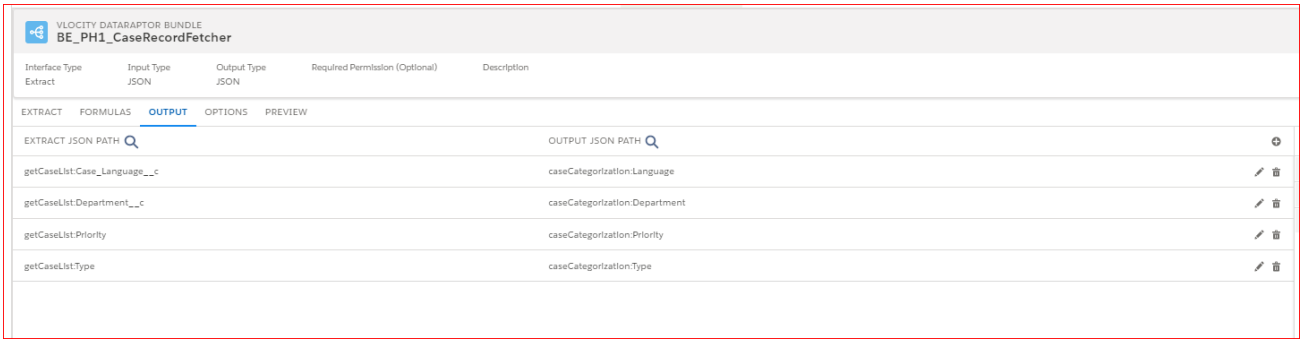
For data Raptor: For Integration Procedure:-
for set variable :-
this is the way for set variable and for direct screen input chck(screen input in ip section)

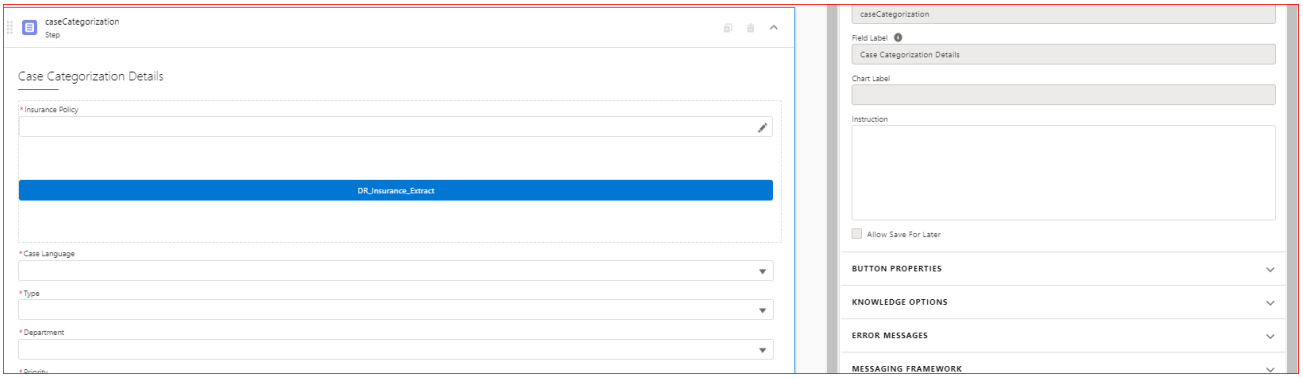


Dynamic value from user database: for that u need to use data raptor and in extract data raptor define output json path as screen element value.

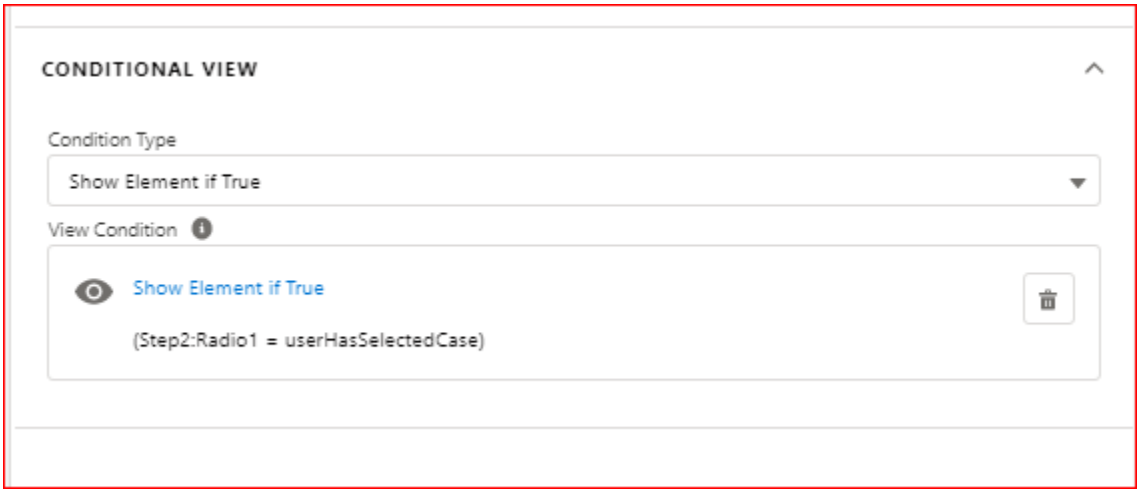




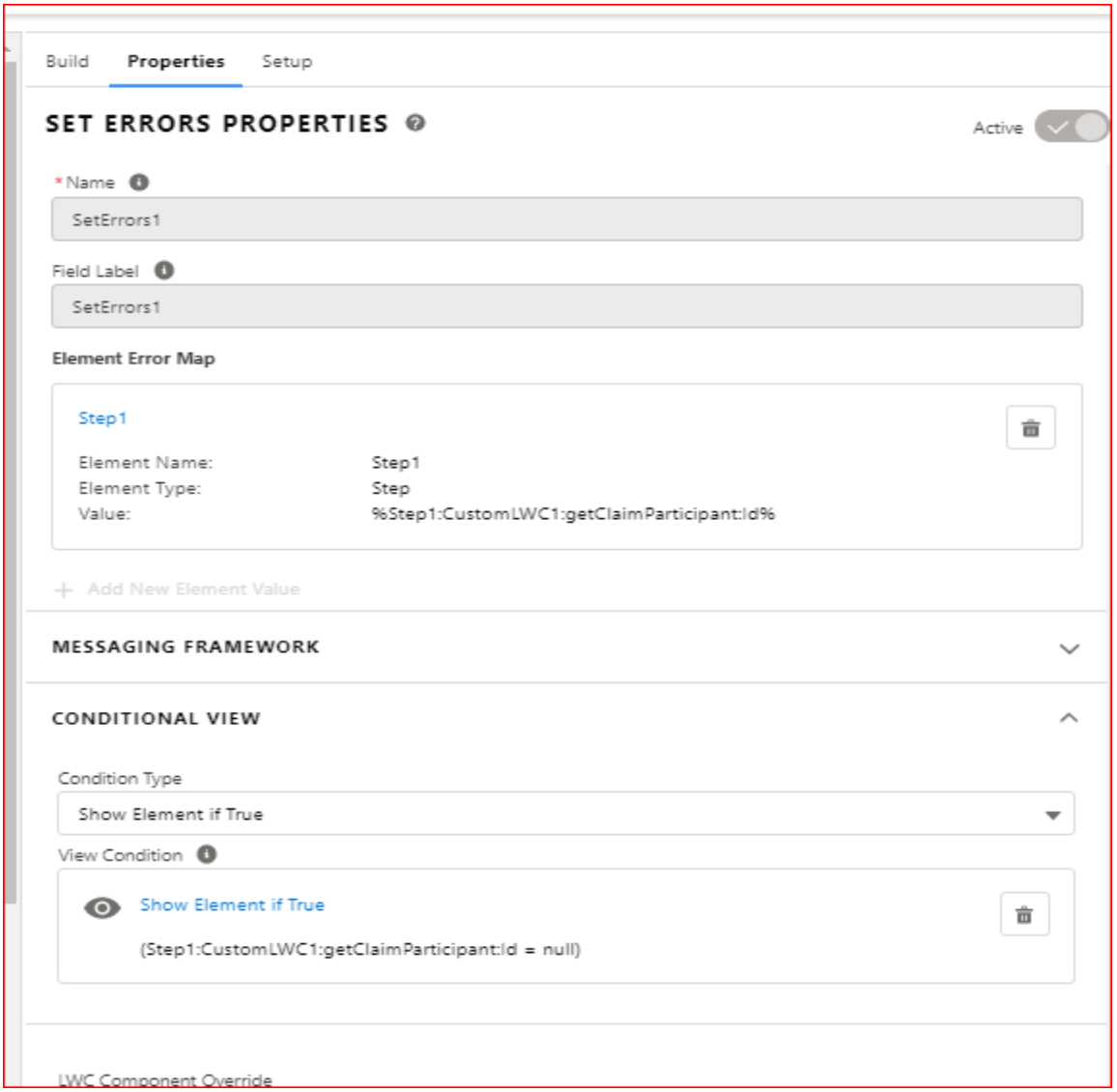




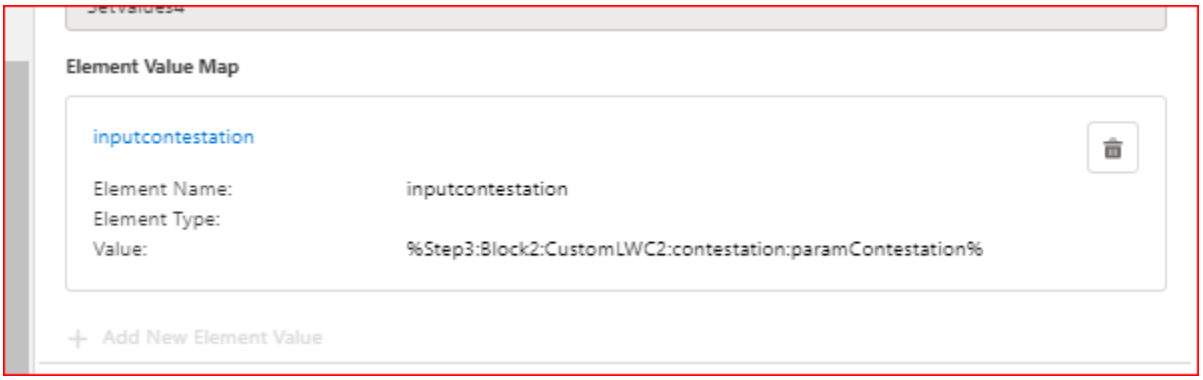
How to use conditions in an omniscript?

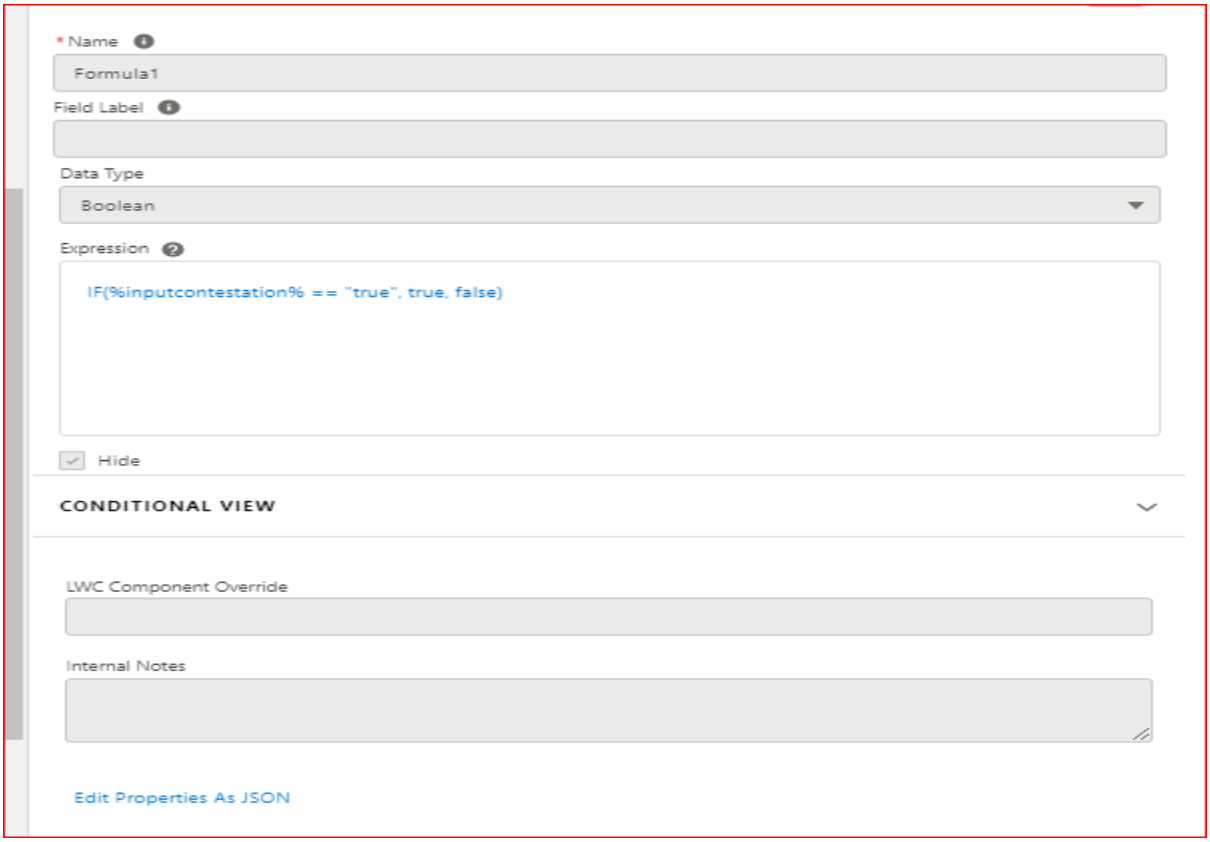


How to set Error in omniscript?

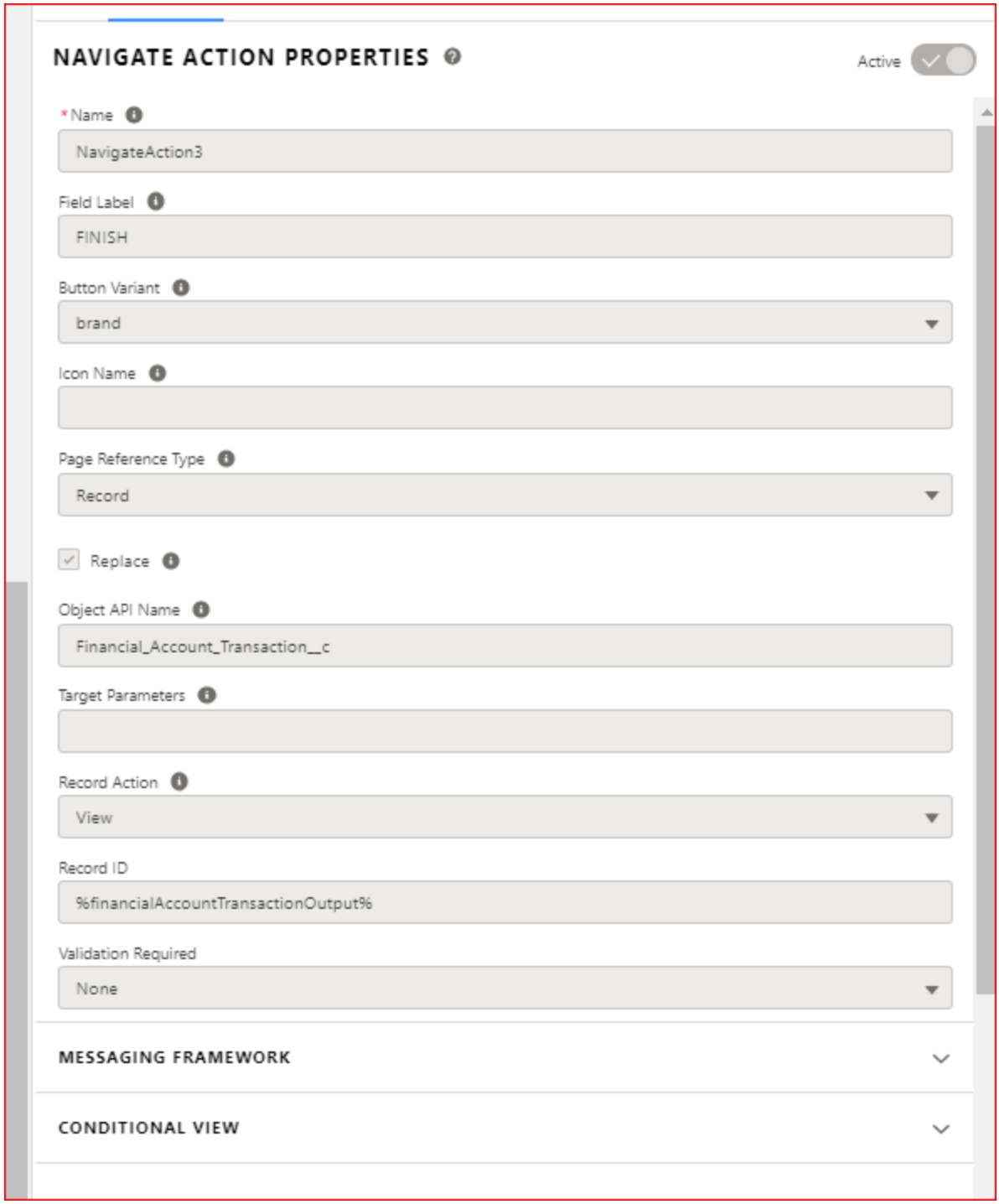


How to use formulas in an omniscript ?





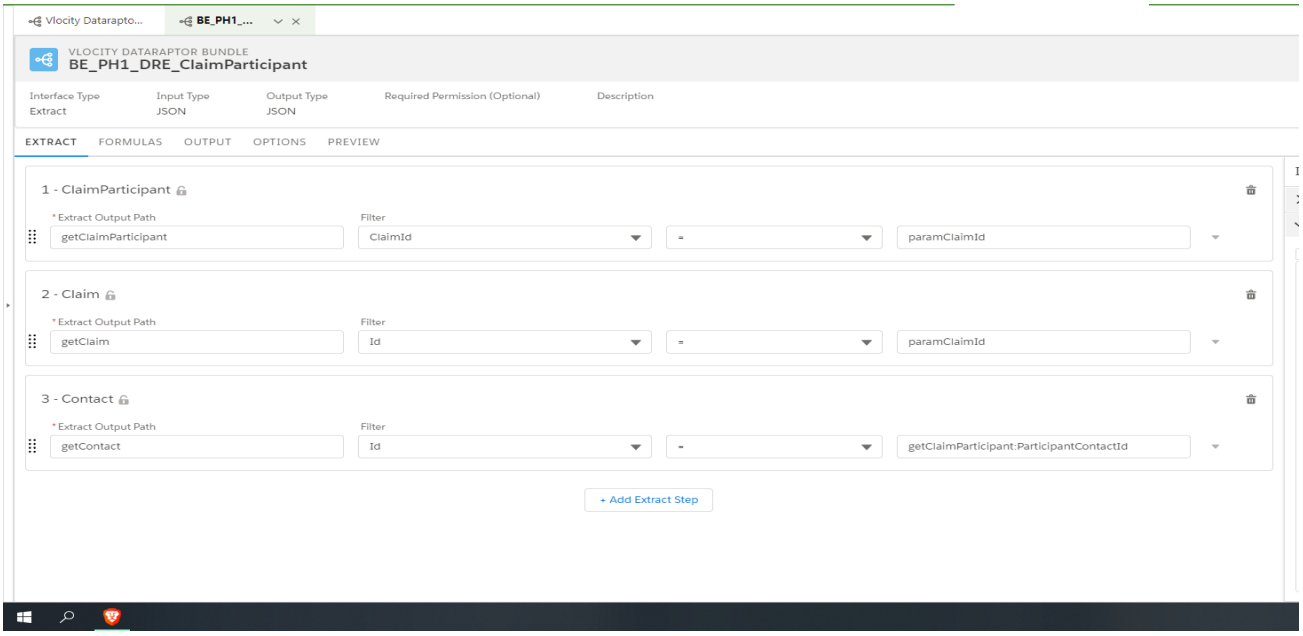
How to navigate in omniscript?

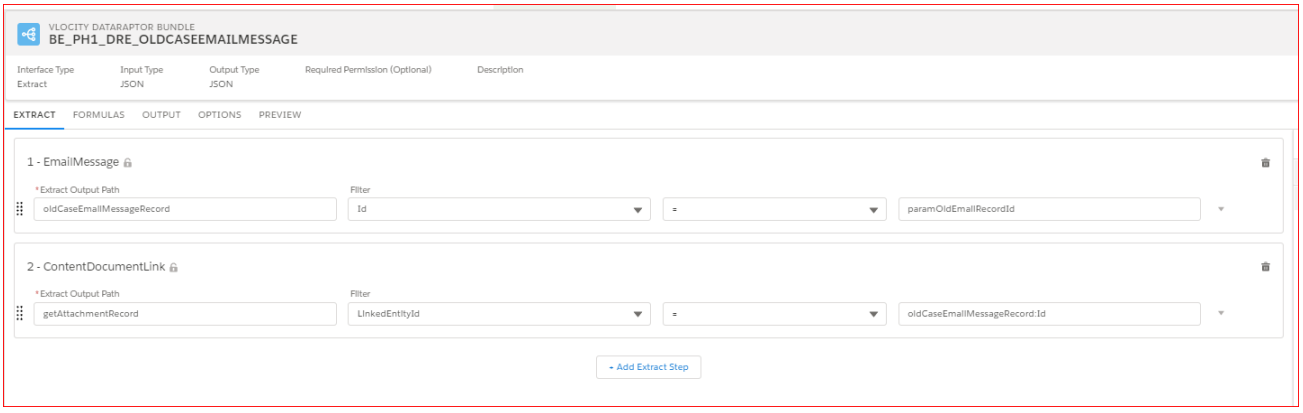

NAVIGATE ACTION PROPERTIES
Active
*Name
NavigateAction3
Field Label
FINISH
Button Variant
brand
Icon Name
Page Reference Type
Record
Replace
Object API Name
Financial_Account_Transaction__c
Target Parameters
Record Action
View
Record ID
%financialAccountTransactionOutput%
Validation Required
None
MESSAGING FRAMEWORK
CONDITIONAL VIEW

Data Raptor:

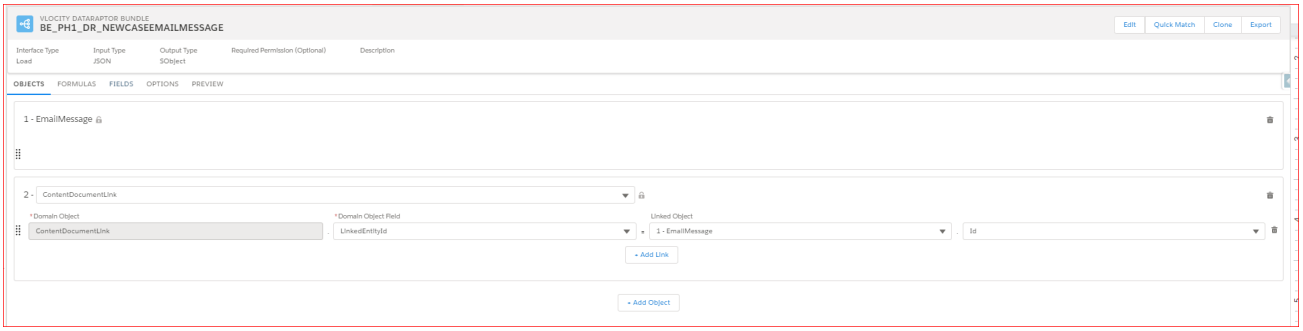
How to set value directly from Omniscript to data raptor?
Just Use JSON input without using %% e.g: selected:node

Multiple query inside an Extract Data Raptor:





Loading Data in Multiple Object Together :

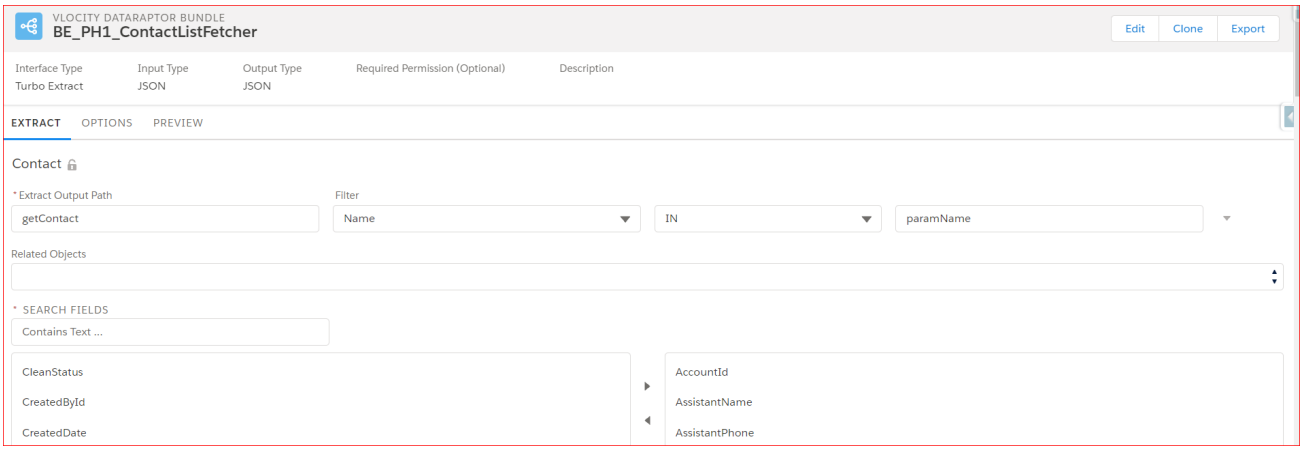


IN Operator in DataRaptor:

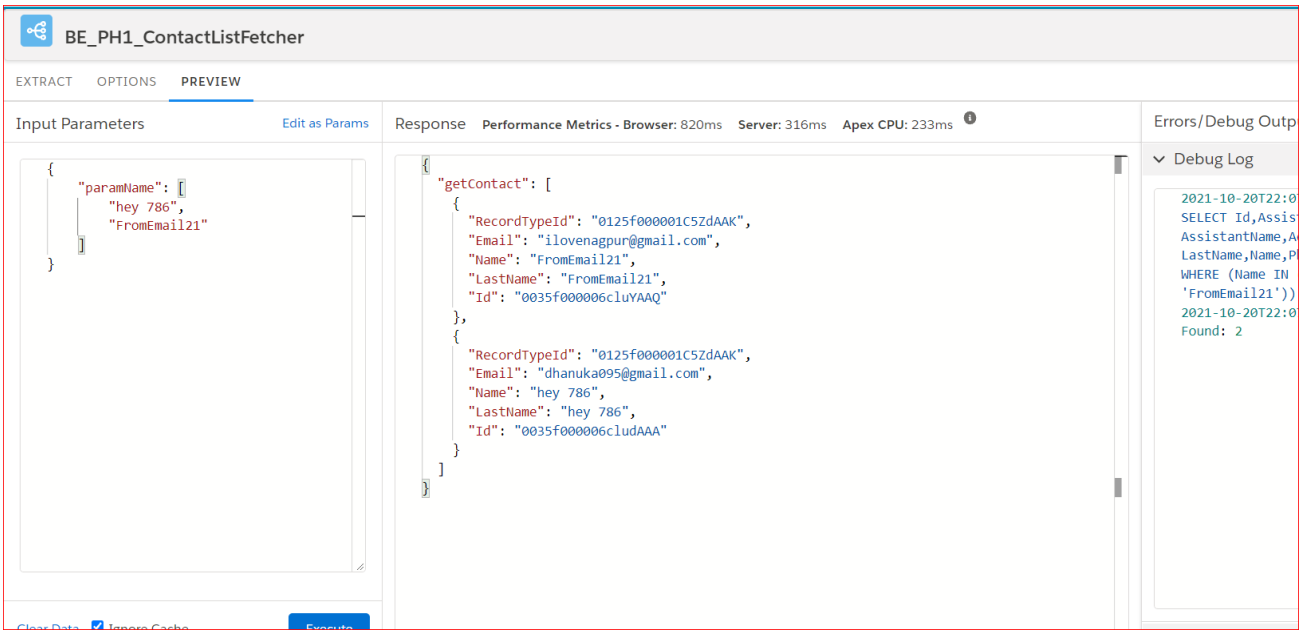
It is only available in turbo data raptor.

And the way to use it in:-

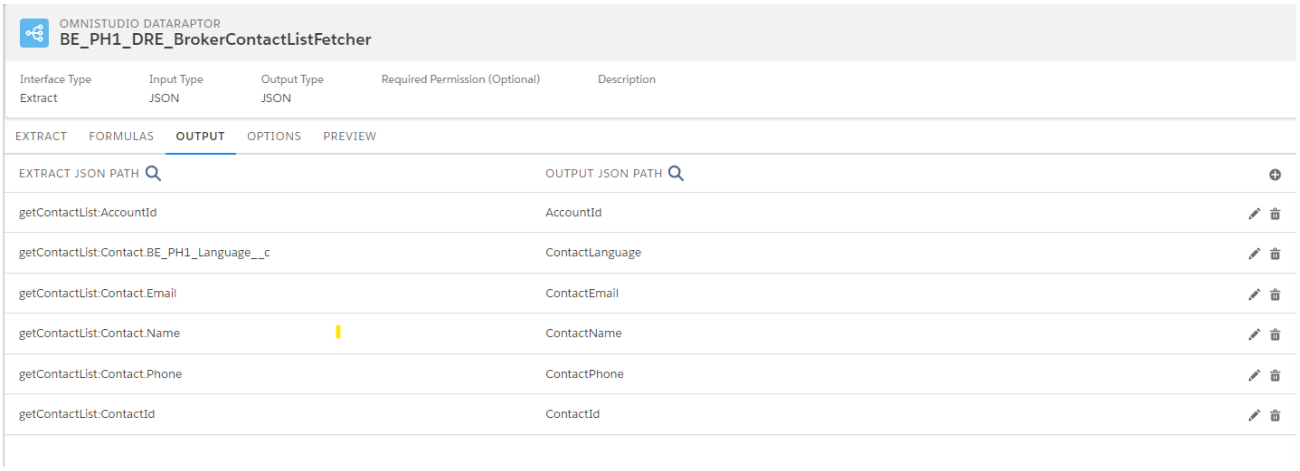
Screenshot1:

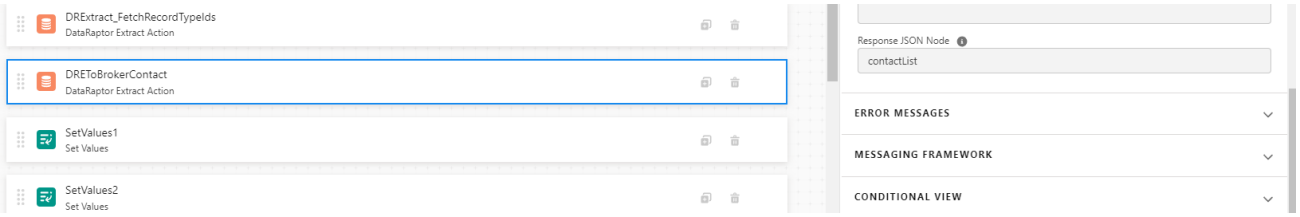


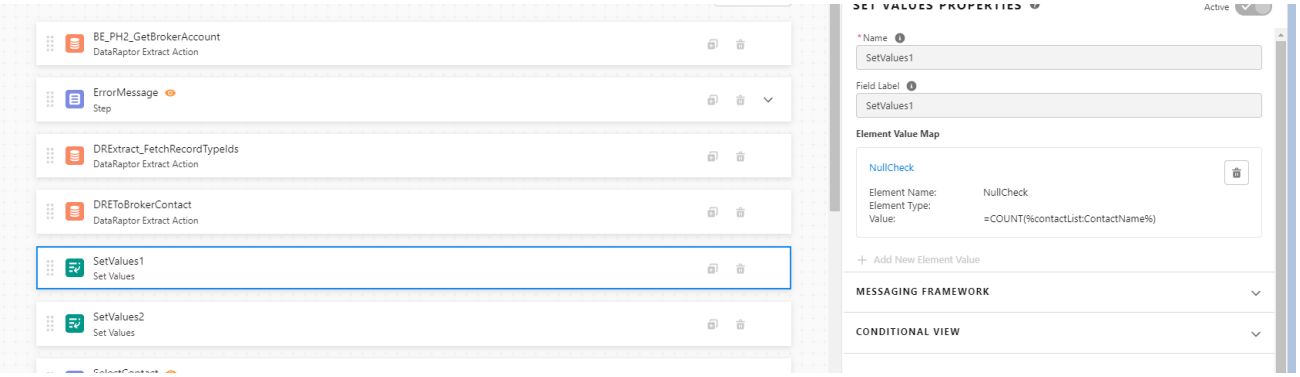
Screenshot2:-

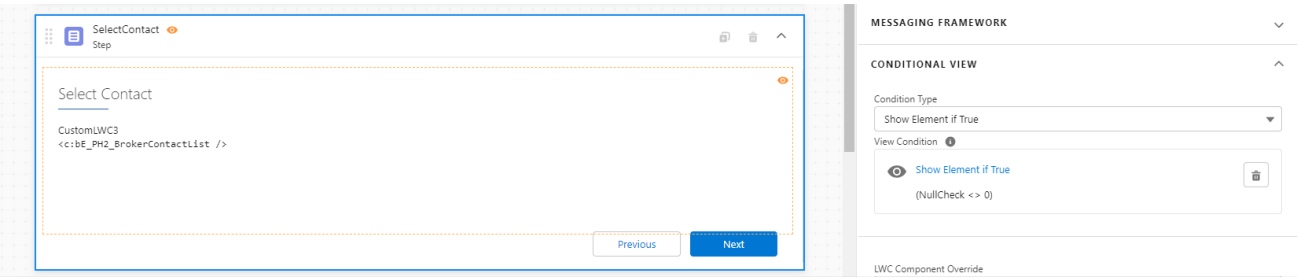


Null value Check In Dataraptor:-

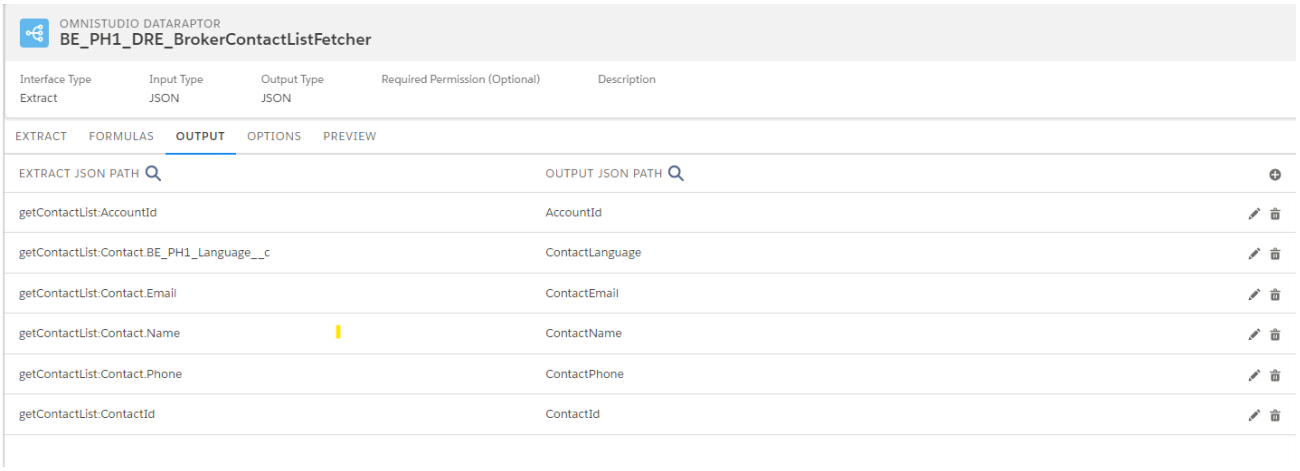


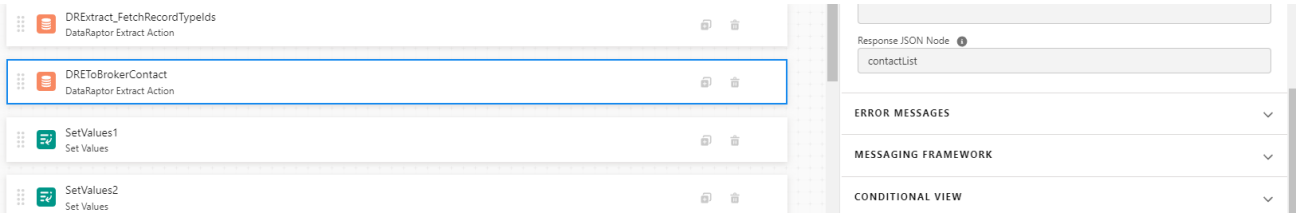


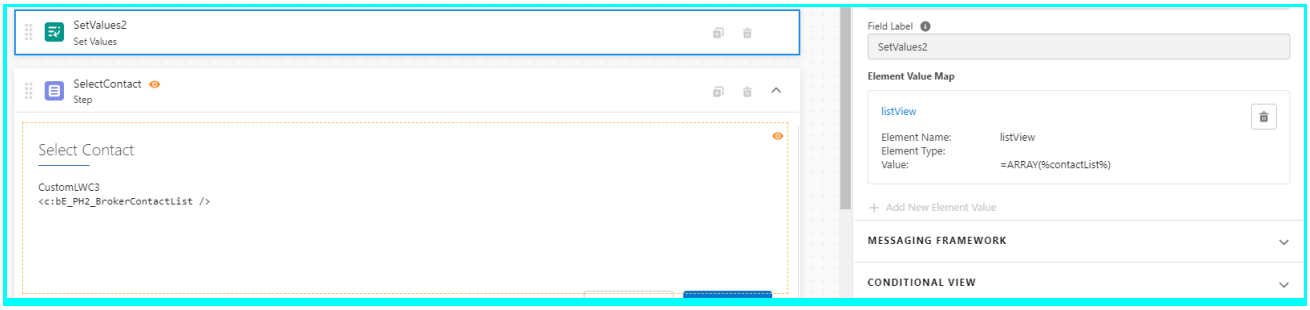


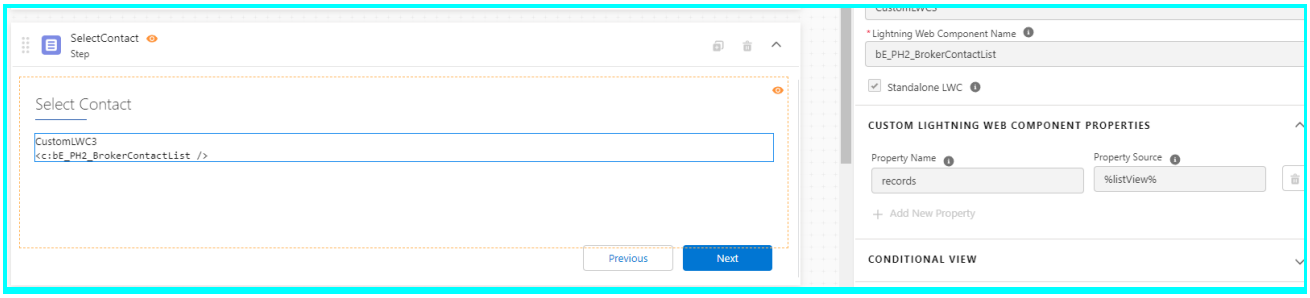


Dataraptor JSON output converting Into ARRAY:-









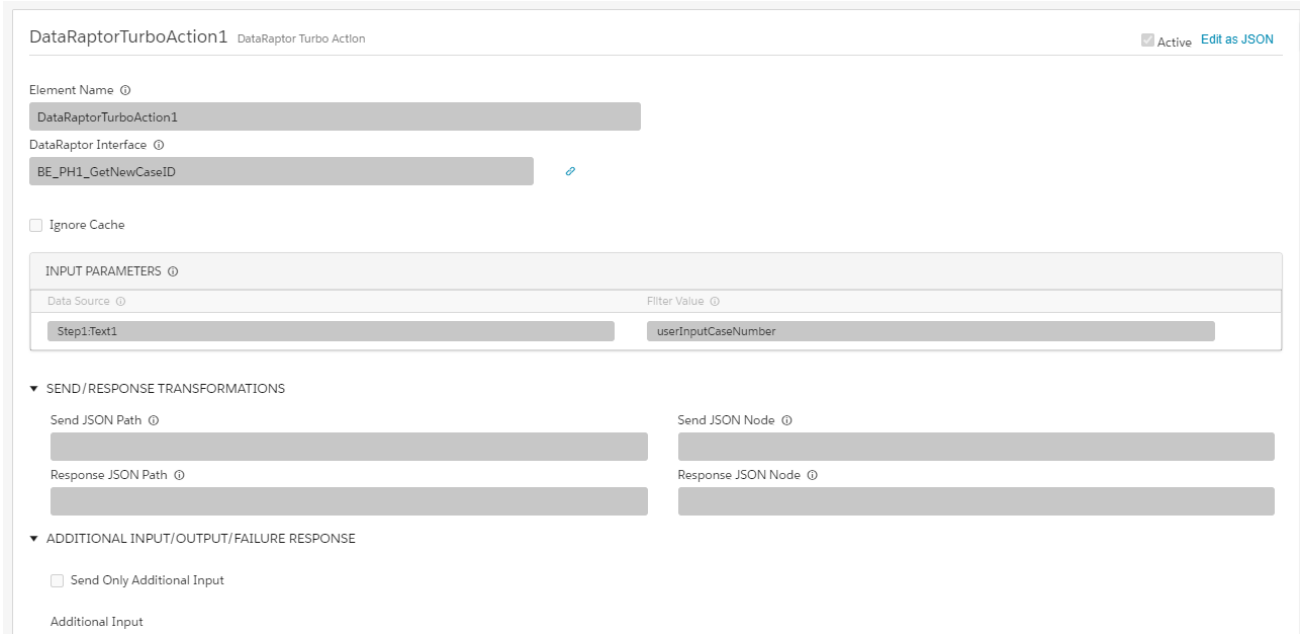
Note:-

flexcard automatically do the conversion

And in integration procedure we need to use set variable

Integration Procedure:

How to take screen input and pass into dataraptor via IP? **Screen:component**

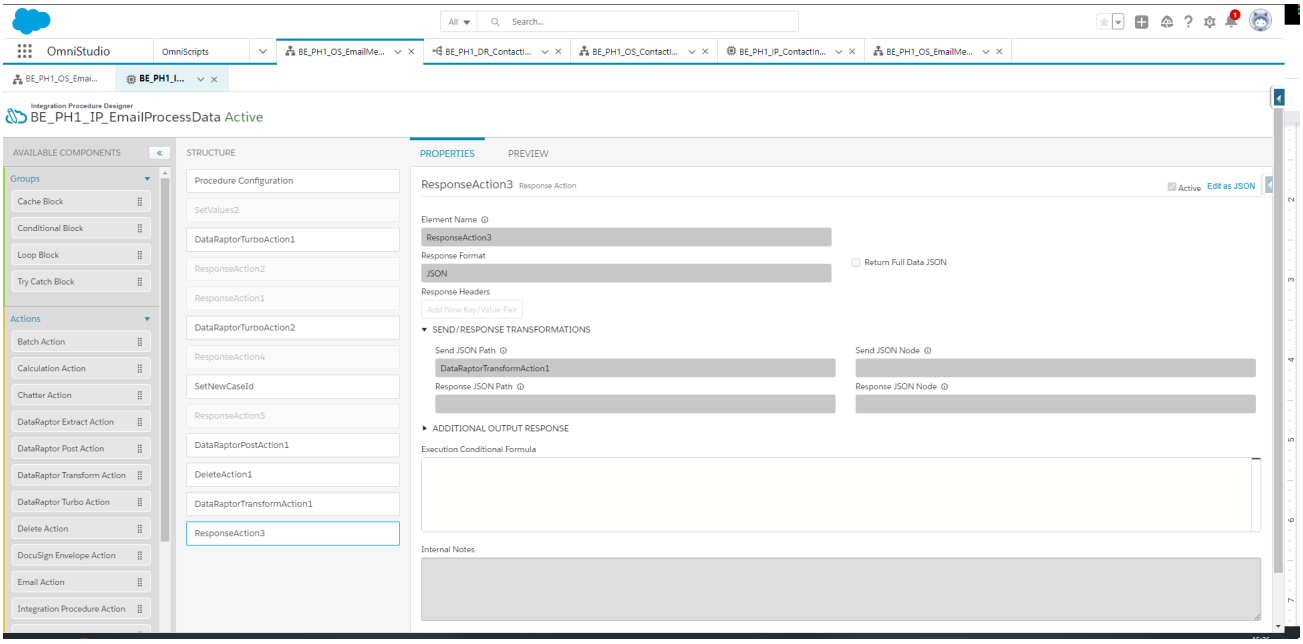


How to show output into screen via IP? Need to use response Action

Two point Needs to be noted down:

1) **Use data transform before sending data back to omniscript**
2) **Or only send node that is required to send**

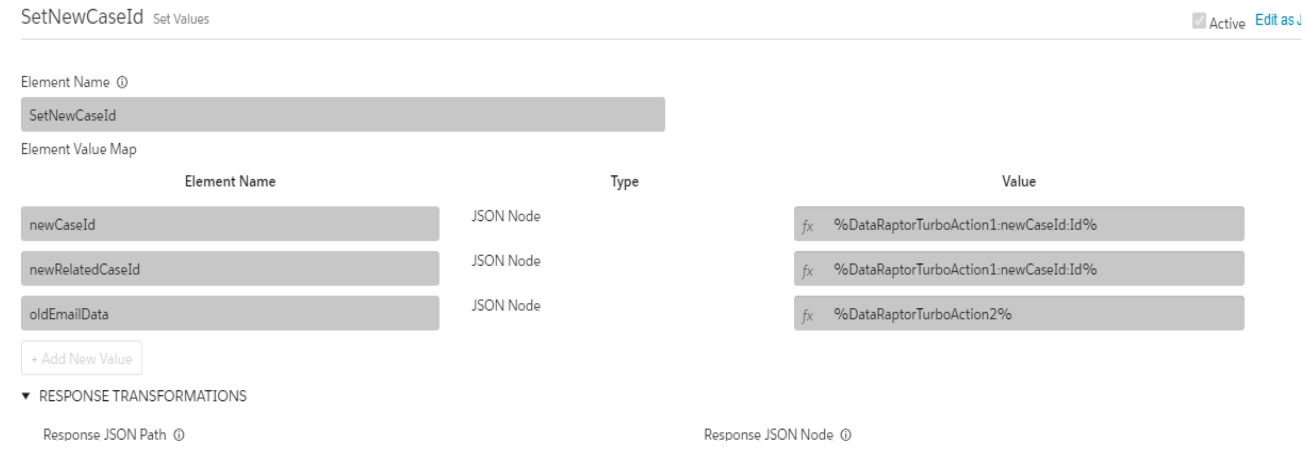
Using data transform:



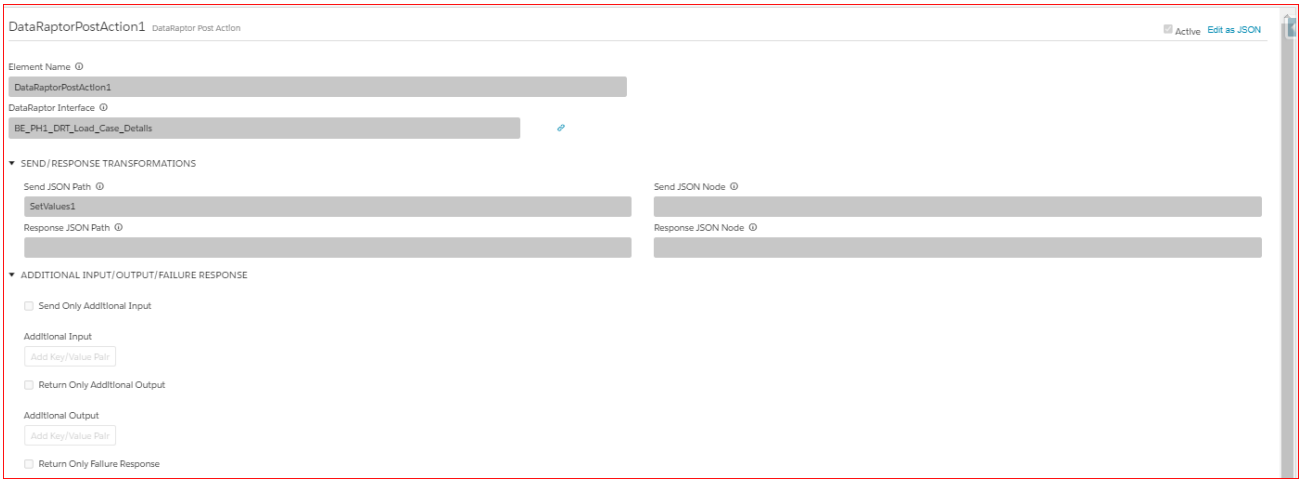
Will be done like what output we are getting in DataRaptor if no additional node %Email_Message:Id% for **record redirecting**

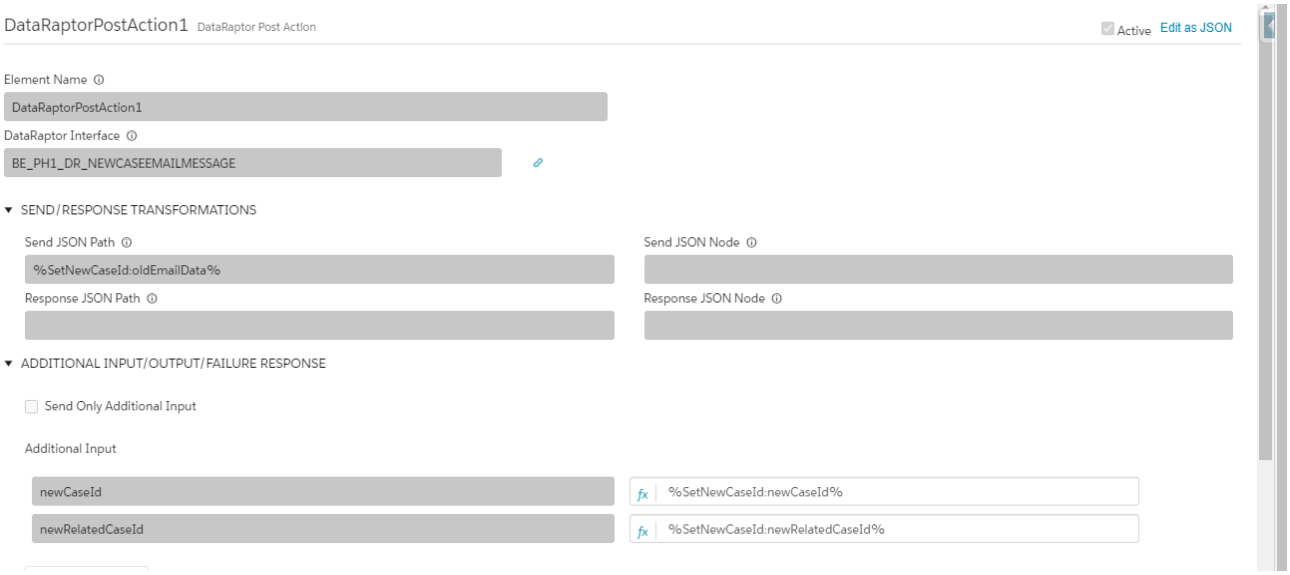
Using node only:

How to set value in IP to pass into load raptor?



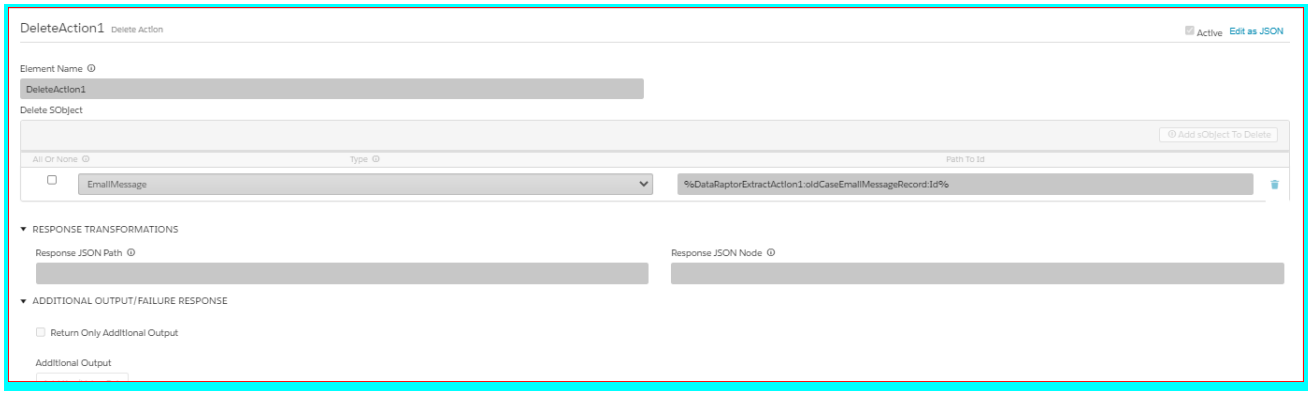
How to pass JSON input into load data raptor through ip with additional input?





Condition in IP:

Delete Action :

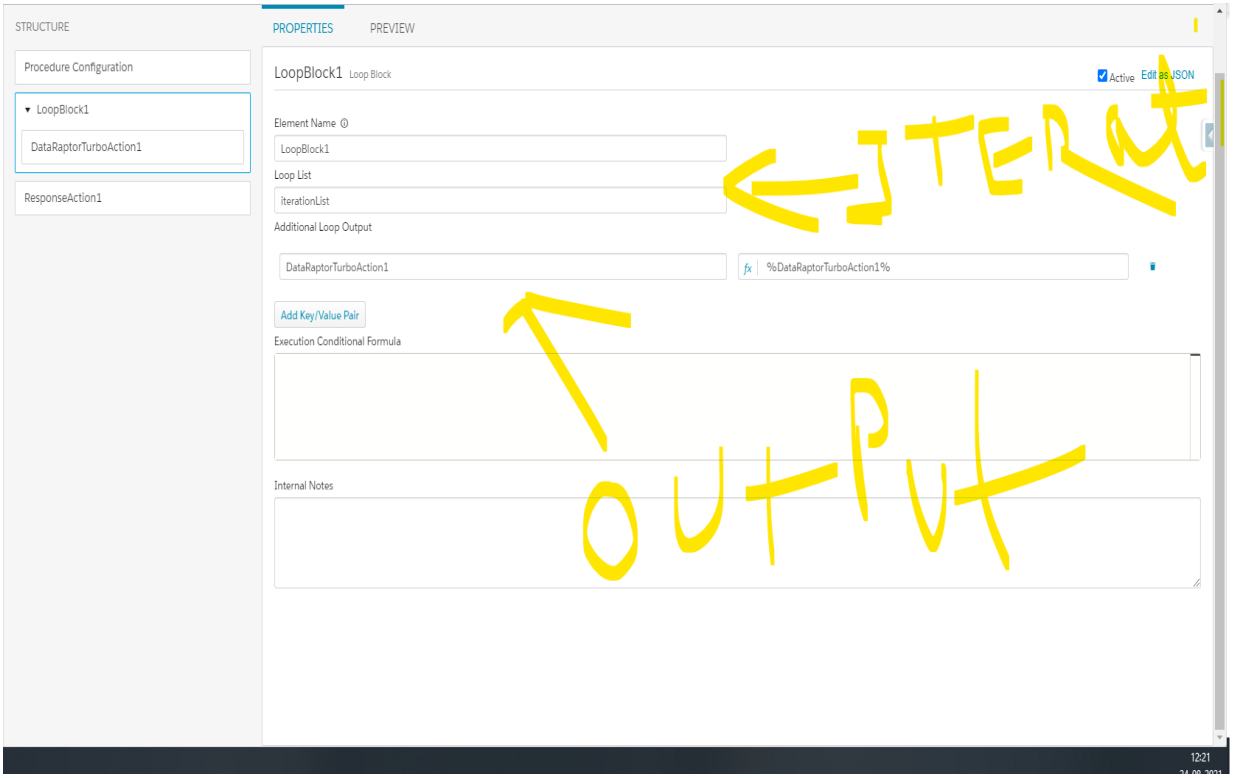


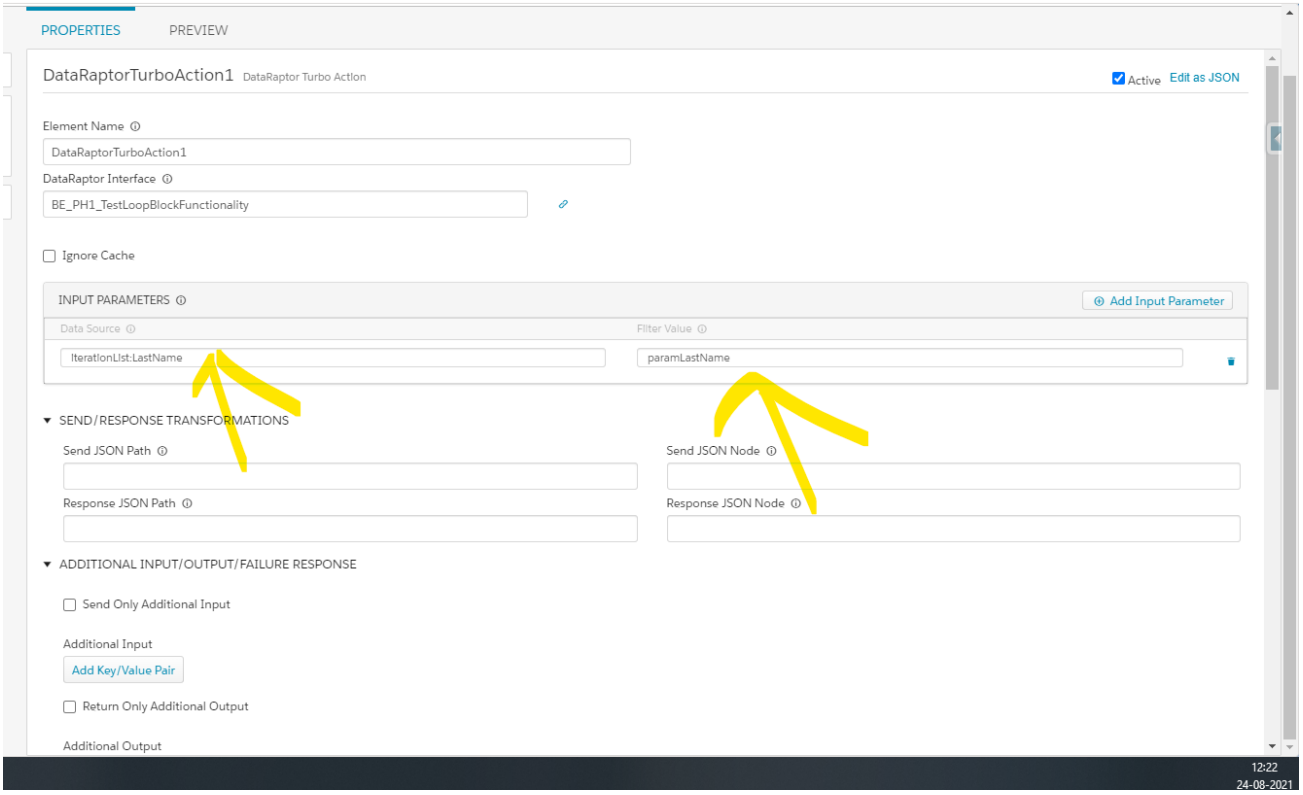
LOOP BLOCK:

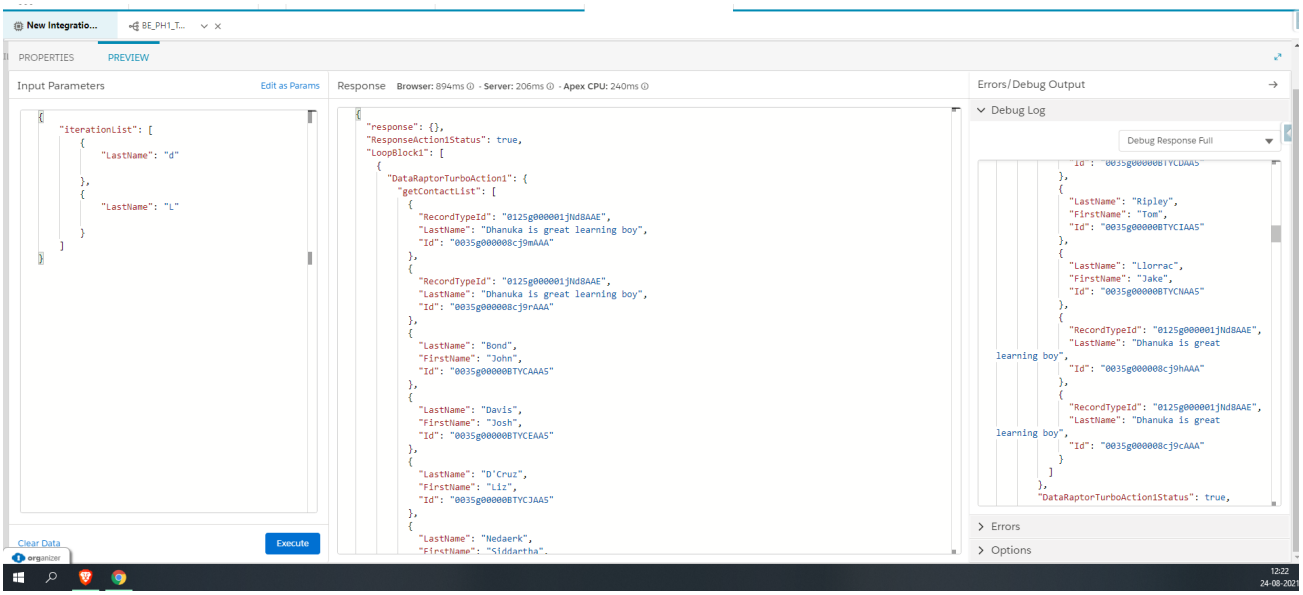
```
for(Integer i: getContactList){
        if(i==2){
                List<Contact> Li = [[select id from Contact where Name =: i ];
                return li;
        }
}
```

```
for(Integer i: getContactList){ ==============> Loop Block
        if(i==2){               =============> Conditional Block
        List<Contact> Li = [[select id from Contact where Name =: i ]; => dataraptor
                return li;      ==============> Loop Block
        }
}
```

Example:



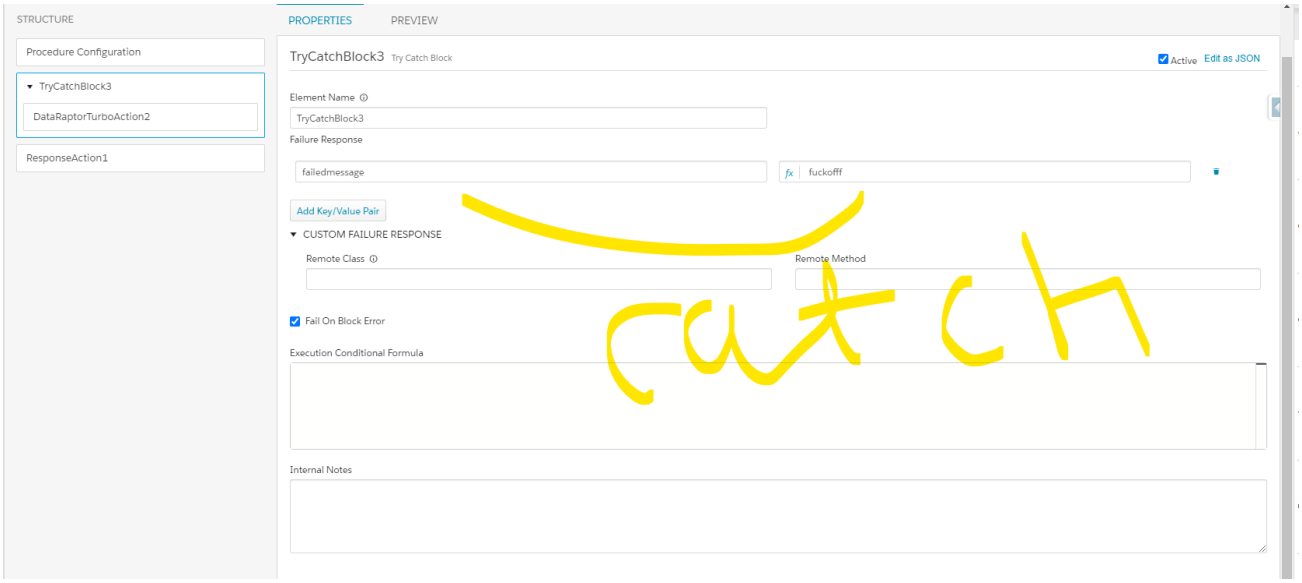

PROPERTIES
PREVIEW
DataRaptorTurboAction1
DataRaptor Turbo Action
Active
Edit as JSON
Element Name
DataRaptorTurboAction1
DataRaptor Interface
BE_PH1_TestLoopBlockFunctionality
Ignore Cache
INPUT PARAMETERS
Add Input Parameter
Data Source
Filter Value
IterationList:LastName
paramLastName
SEND/RESPONSE TRANSFORMATIONS
Send JSON Path
Send JSON Node
Response JSON Path
Response JSON Node
ADDITIONAL INPUT/OUTPUT/FAILURE RESPONSE
Send Only Additional Input
Additional Input
Add Key/Value Pair
Return Only Additional Output
Additional Output
12:22
24-08-2021

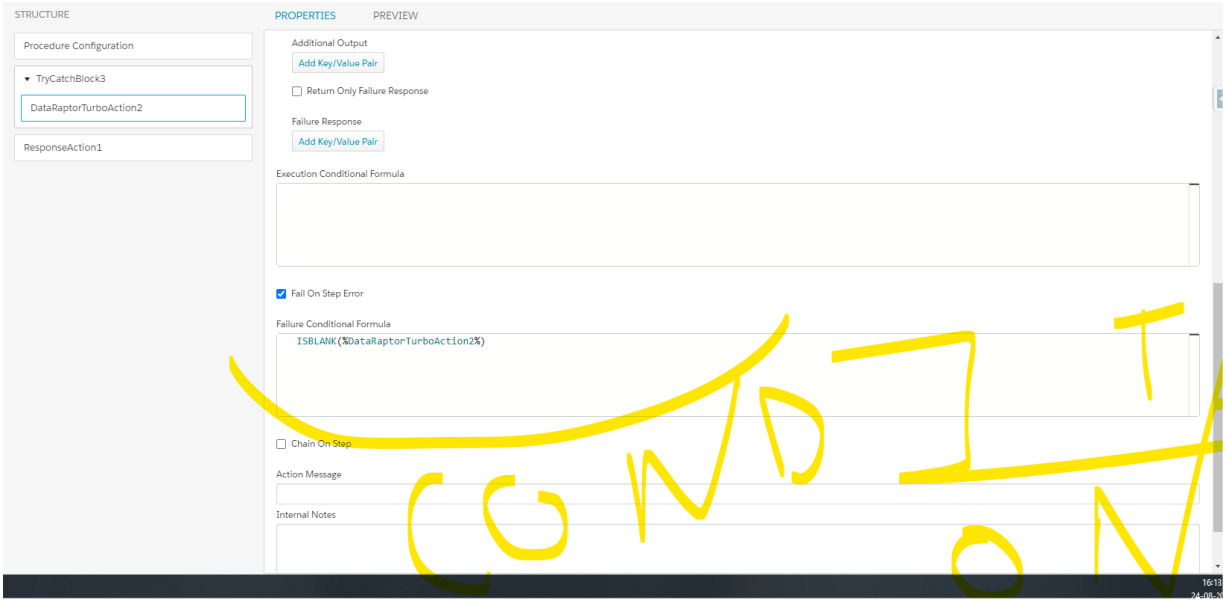

New Integratio...
BE_PH1_T...
PROPERTIES
PREVIEW
Input Parameters
Edit as Params
{
"iterationList": [
{
"LastName": "d"
},
{
"LastName": "L"
}
]
}
Clear Data
Execute
Response
Browser: 894ms · Server: 206ms · Apex CPU: 240ms
{
"response": {},
"ResponseAction1Status": true,
"LoopBlock1": [
{
"DataRaptorTurboAction1": {
"getContactList": [
{
"RecordTypeId": "0125g000001jNd8AAE",
"LastName": "Dhanuka is great learning boy",
"Id": "0035g000008cj9mAAA"
},
{
"RecordTypeId": "0125g000001jNd8AAE",
"LastName": "Dhanuka is great learning boy",
"Id": "0035g000008cj9rAAA"
},
{
"LastName": "Bond",
"FirstName": "John",
"Id": "0035g00000BTYCAAA5"
},
{
"LastName": "Davis",
"FirstName": "Josh",
"Id": "0035g00000BTYCEAA5"
},
{
"LastName": "D'Cruz",
"FirstName": "Liz",
"Id": "0035g00000BTYCJAA5"
},
{
"LastName": "Nedaerk",
"FirstName": "Siddartha",
Errors/Debug Output
Debug Log
Debug Response Full
"LastName": "Ripley",
"FirstName": "Tom",
"Id": "0035g00000BTYCIAA5"
"LastName": "Llorrac",
"FirstName": "Jake",
"Id": "0035g00000BTYCNAA5"
"RecordTypeId": "0125g000001jNd8AAE",
"LastName": "Dhanuka is great learning boy",
"Id": "0035g000008cj9hAAA"
"RecordTypeId": "0125g000001jNd8AAE",
"LastName": "Dhanuka is great learning boy",
"Id": "0035g000008cj9cAAA"
"DataRaptorTurboAction1Status": true,
Errors
Options

Try catch Block:

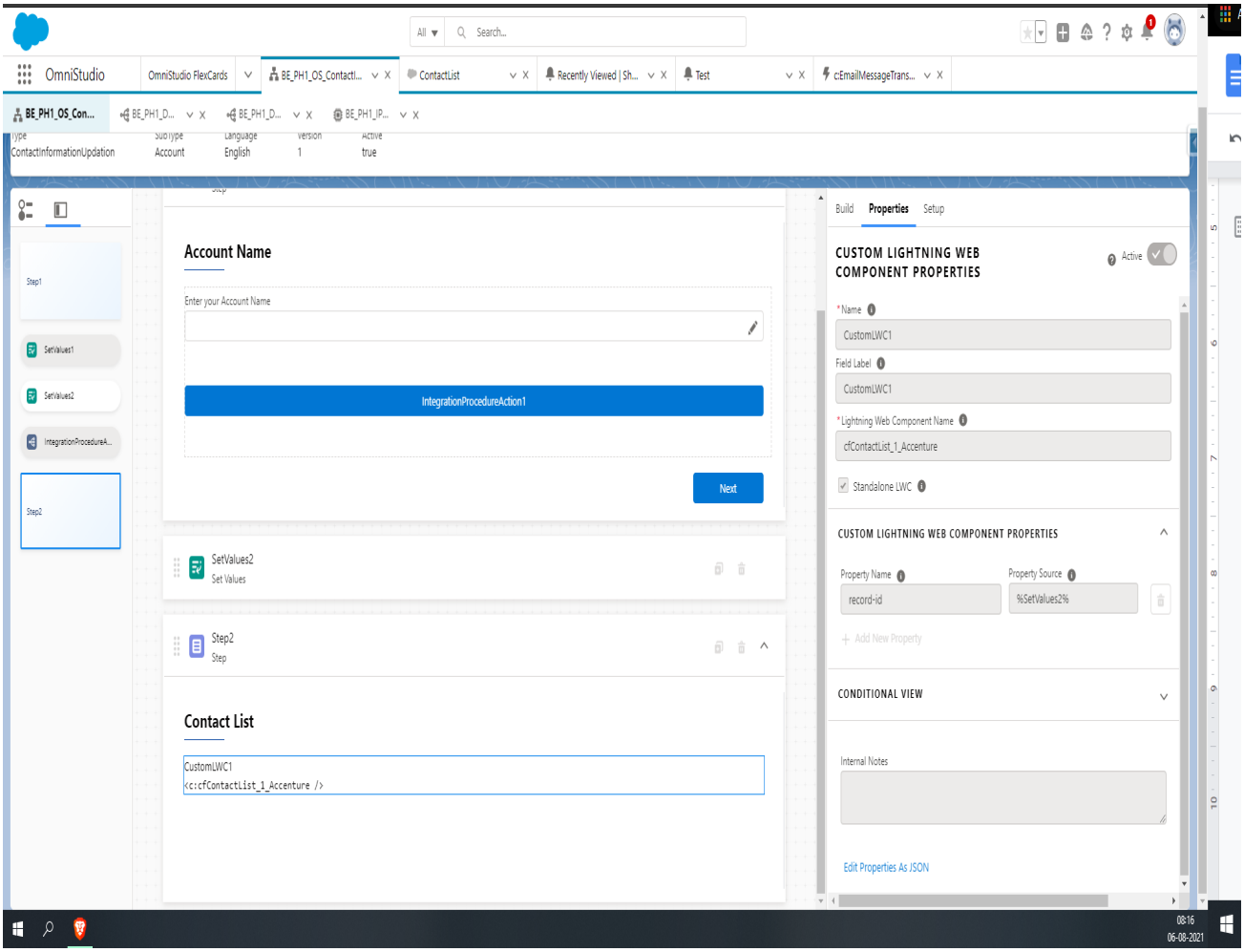
try{ if(x!= Null) { System.debug(“”); }}
catch(Exception e){ System.debug(Exception e); }

Try{ **==========> on data raptor**
if(x!= Null){ System.debug(“”); }}
catch(Exception e){ **==========> on try block**
System.debug(Exception e); }

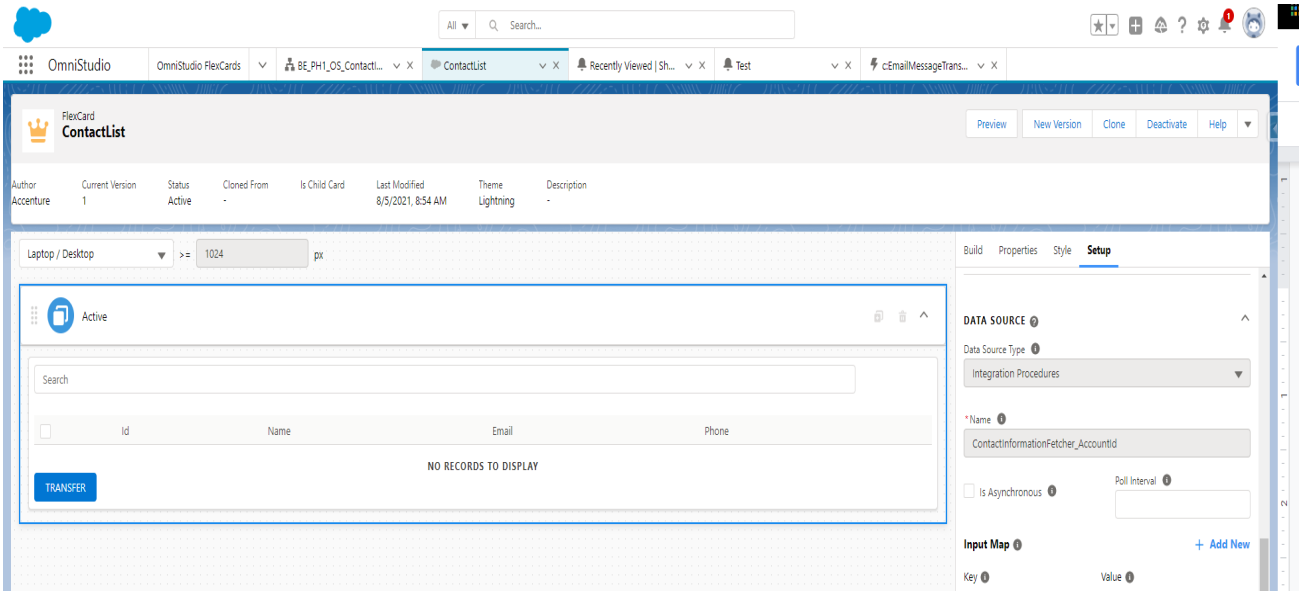




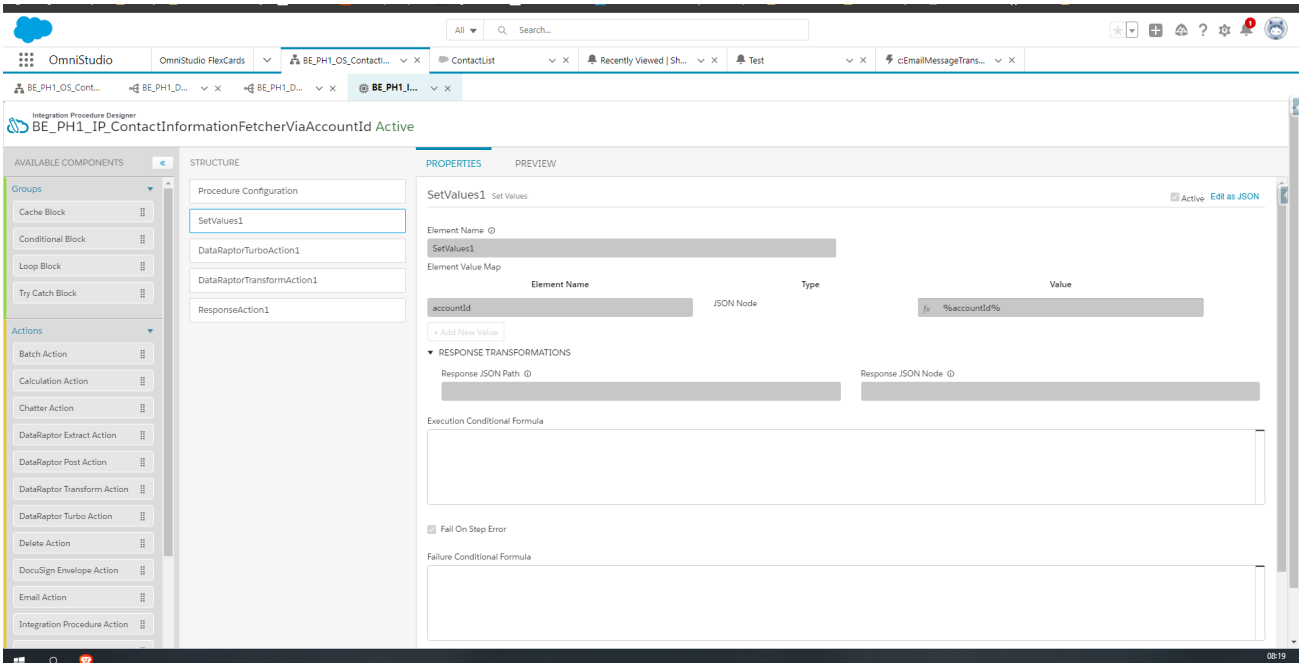
Passed variable in flex card



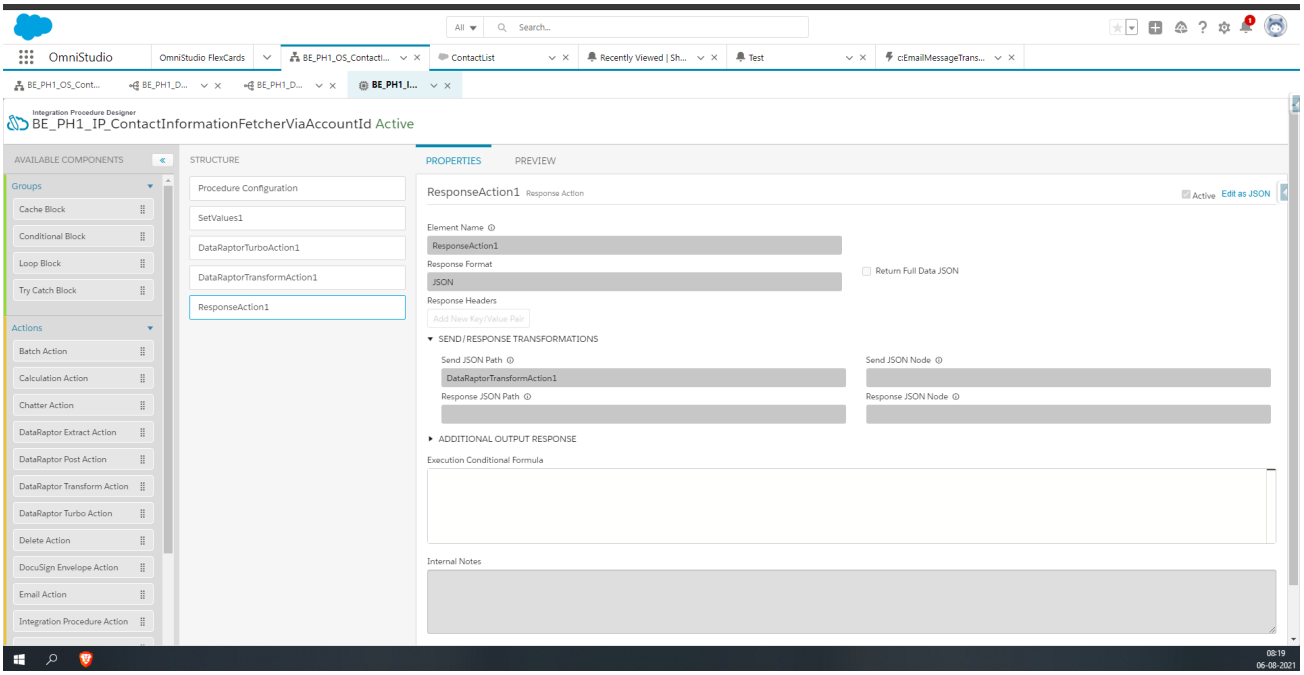
Passed input in integration procedure via flex card

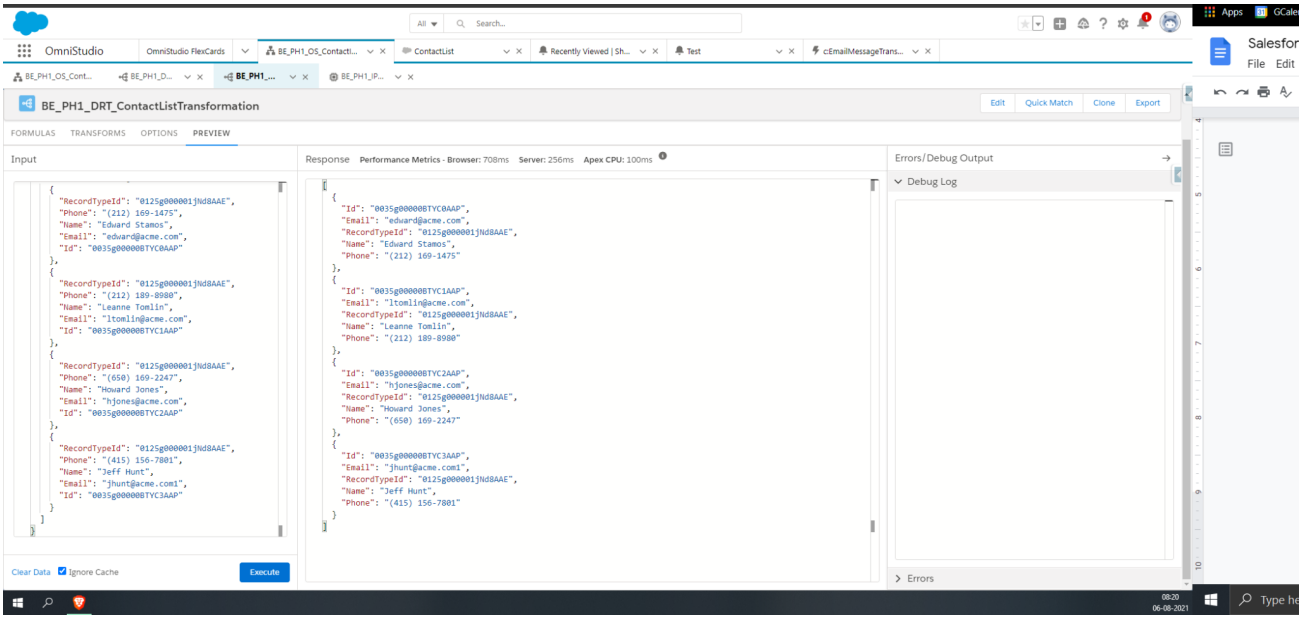


Processed input variable in integration procedure



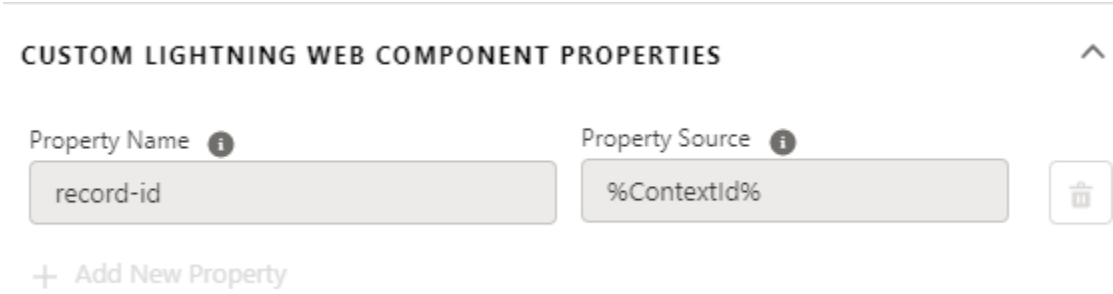
Proceed output data through integration procedure (transform, [{},{},{}])



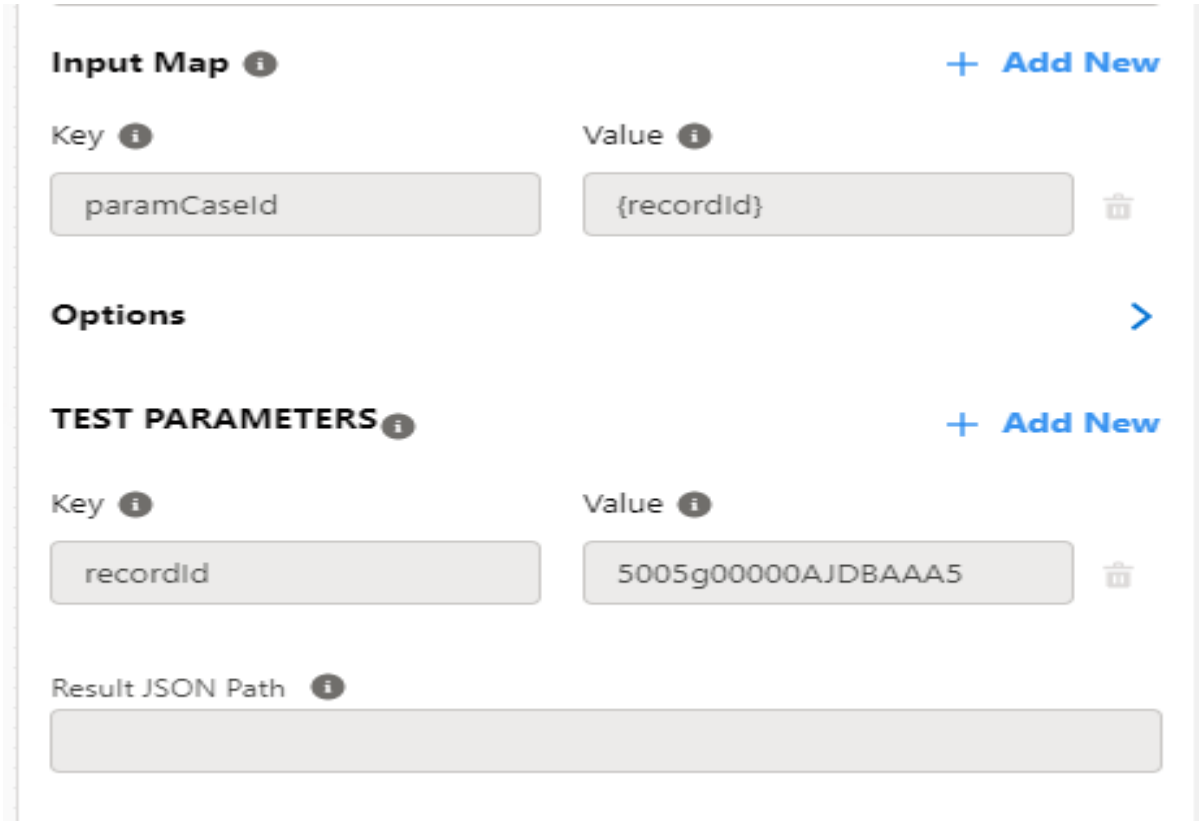


Or u can use Result JSON PATH Option in flex card.

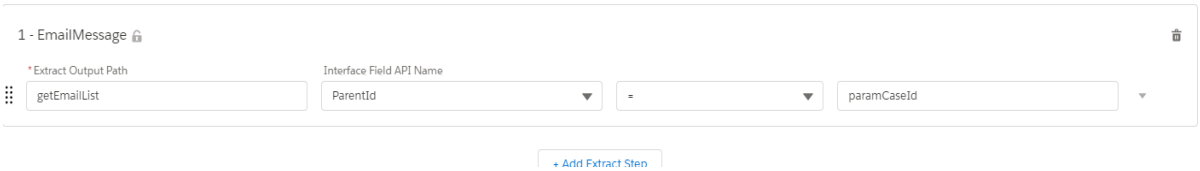
Set value passing in flex card : record-id %%



Pass value in IP : accountId {recordId}

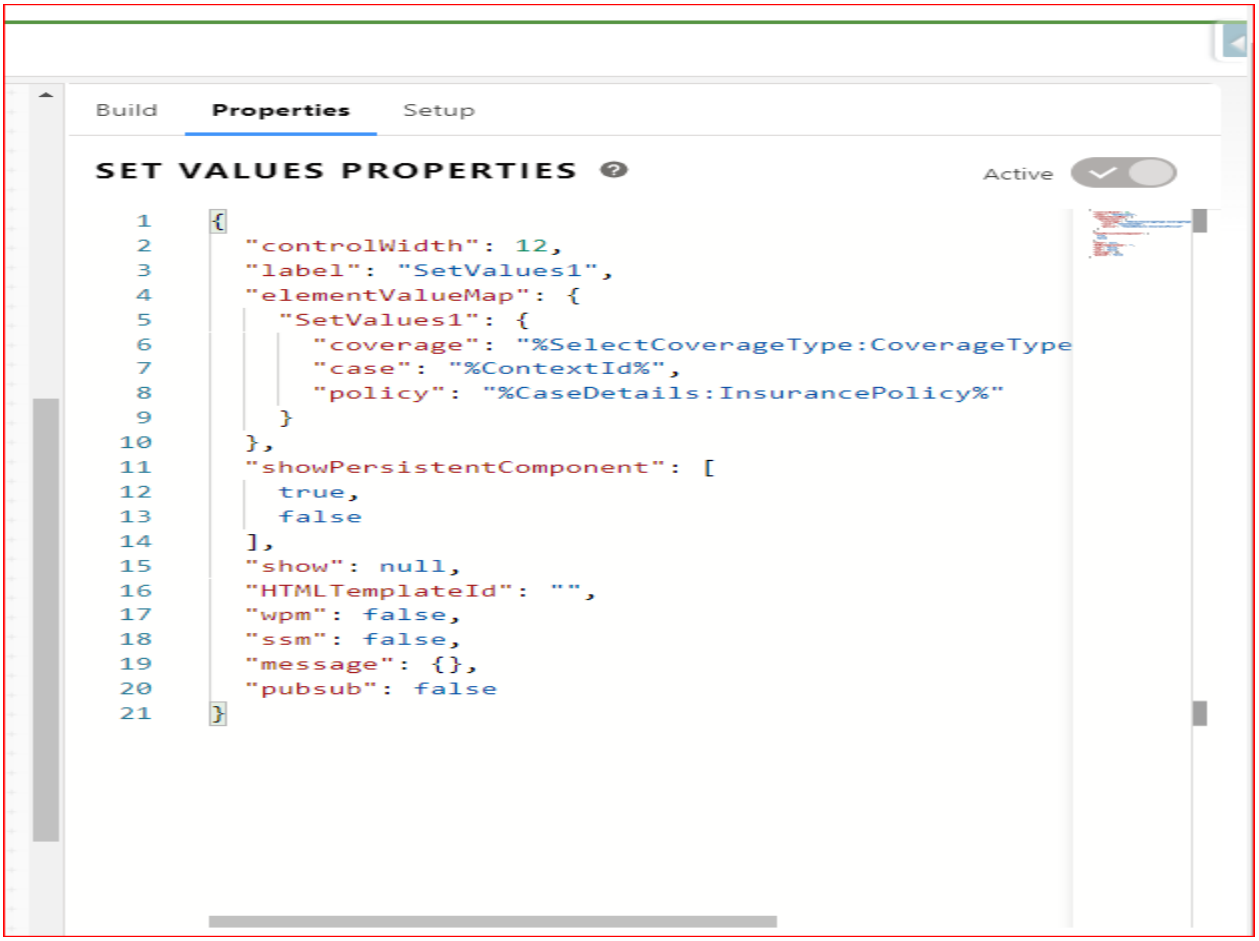


In dataraptor:



How to Pass attributes with multiple values from OS to flexcard?

First set the dynamic value or static value in set node: through JSON Editor



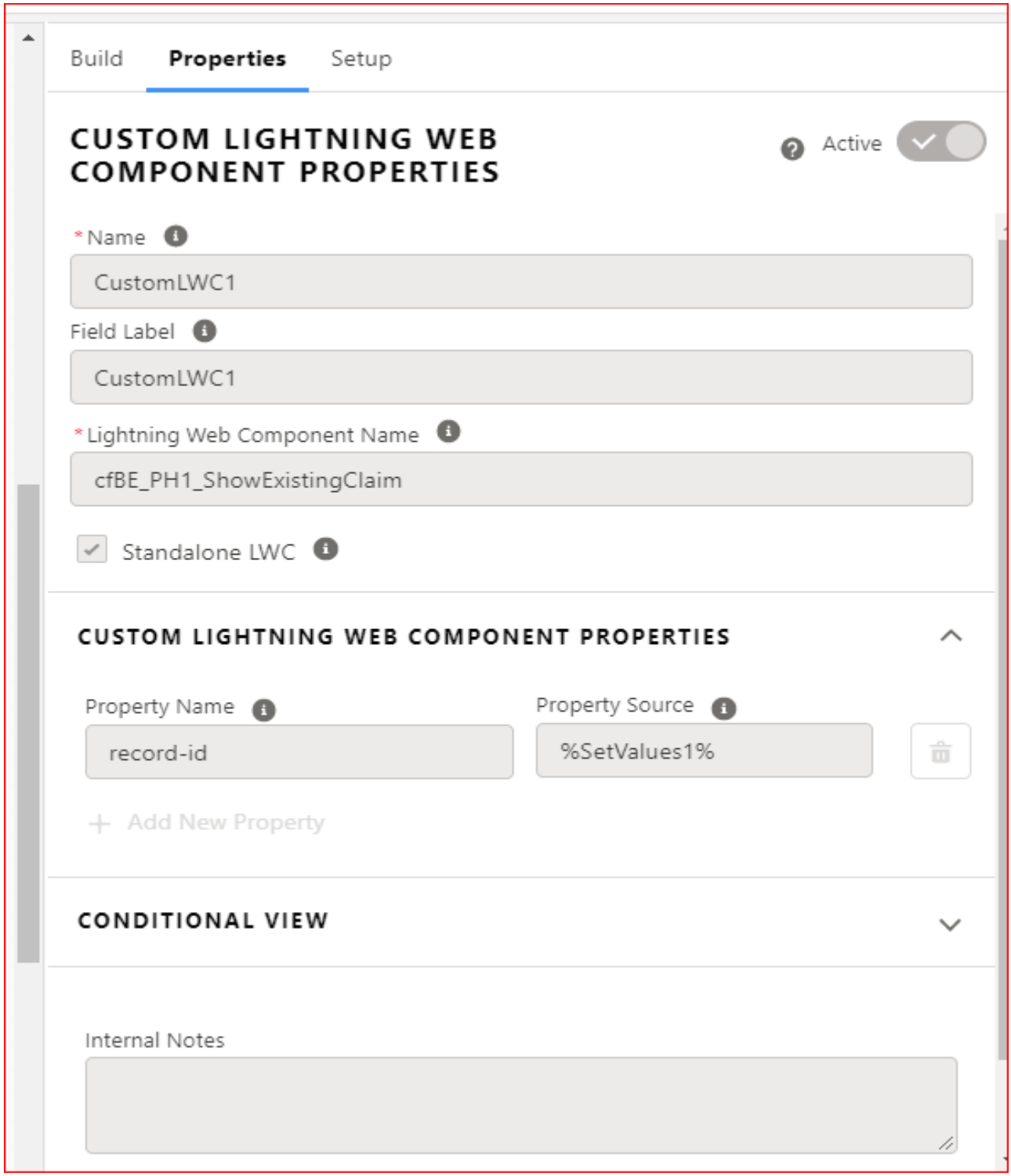
Build **Properties** Setup

SET VALUES PROPERTIES

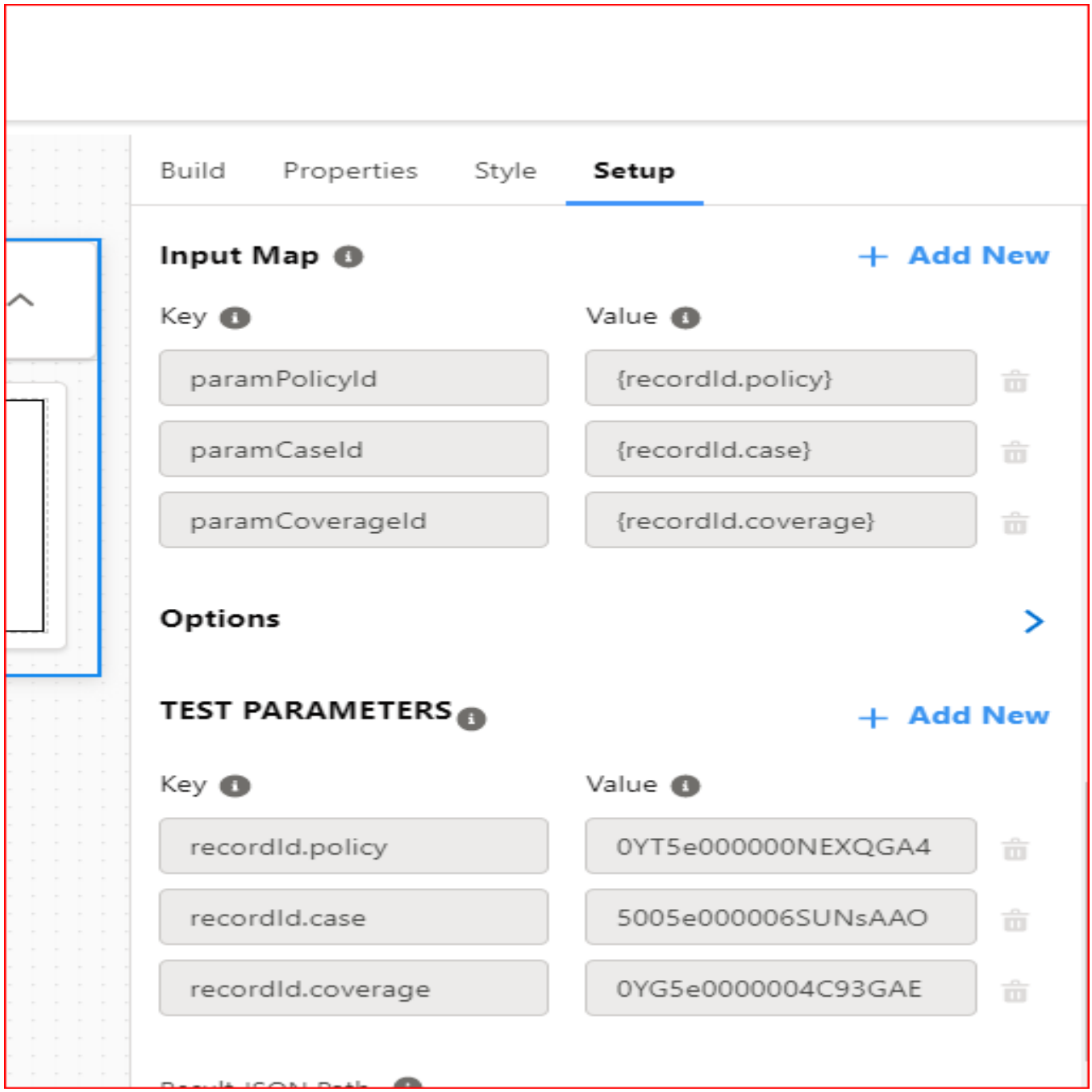
Active

```
{
  "controlWidth": 12,
  "label": "SetValues1",
  "elementValueMap": {
    "SetValues1": {
      "coverage": "0YG5e0000004C93GAE",
      "case": "5005e000006SUNsAAO",
      "policy": "0YT5e000000NEXQGA4"
    }
  },
  "showPersistentComponent": [
    true,
    false
  ],
  "show": null,
  "HTMLTemplateId": "",
  "wpm": false,
  "ssm": false,
```

Second map with record-id variables:-

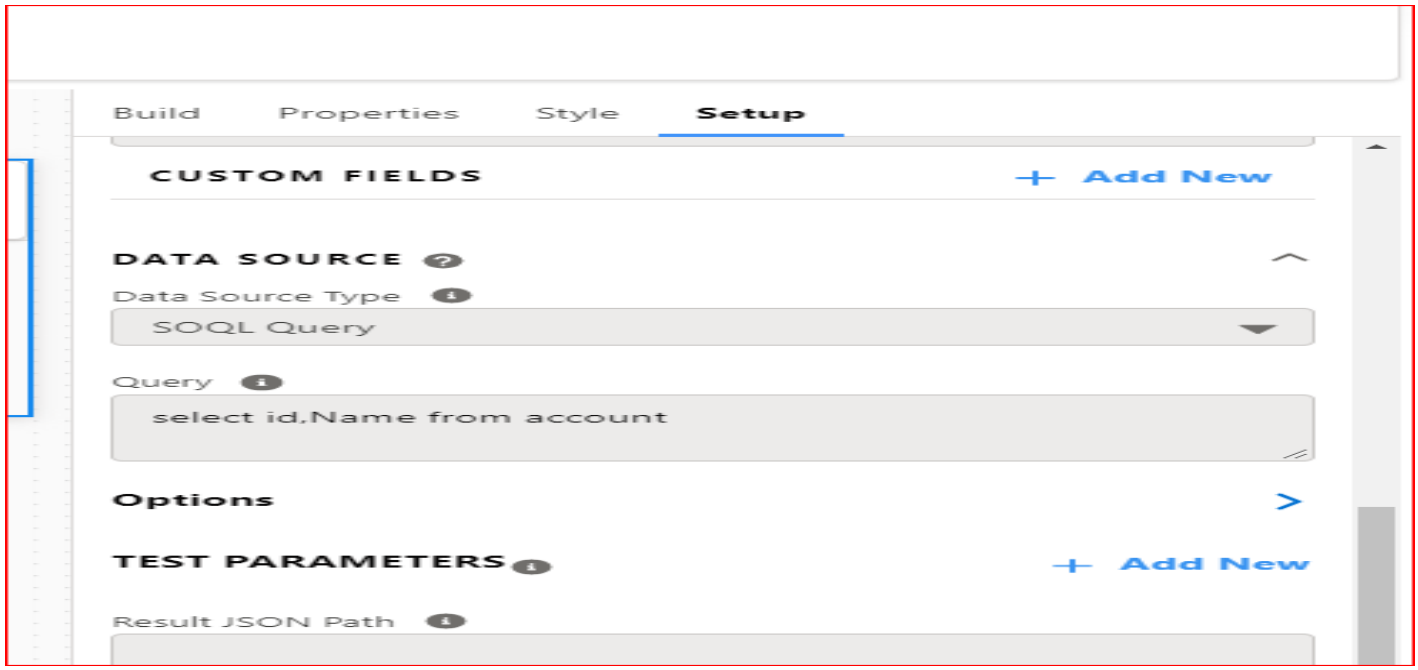


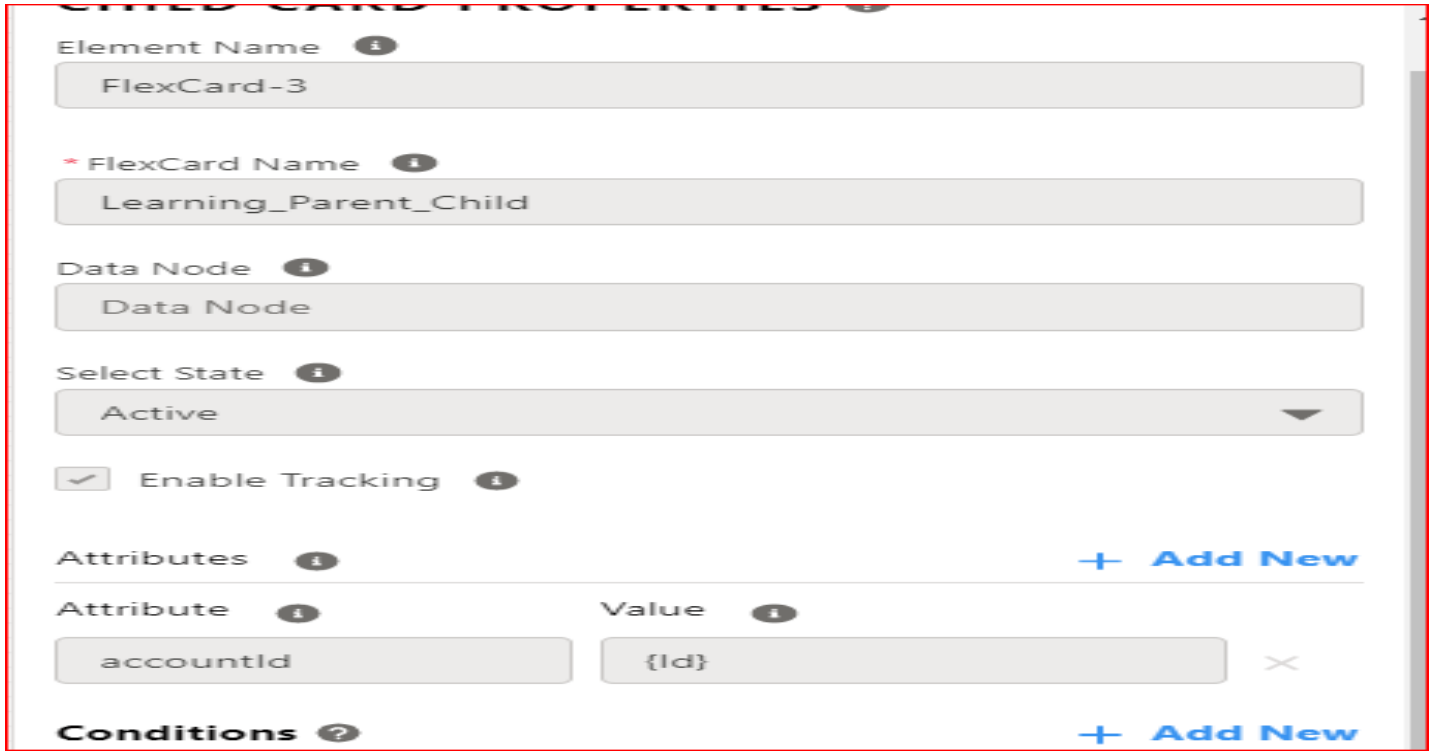
Third in flex card use as parent child relationship:



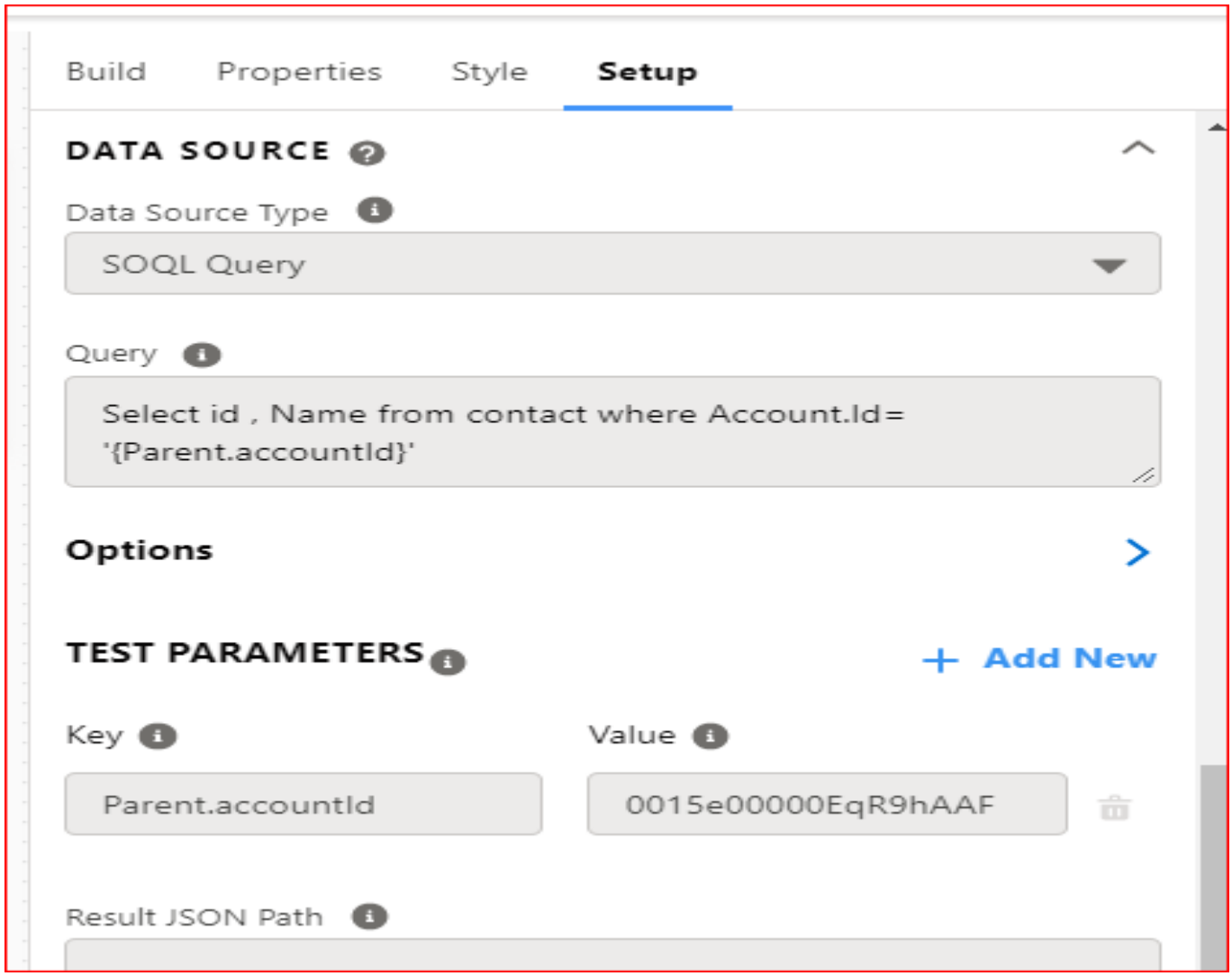
How to pass data from flex card to child flex card:-

Parent card:





Child card:-


Build
Properties
Style
Setup
DATA SOURCE
Data Source Type
SOQL Query
Query
Select id , Name from contact where Account.Id=
'{Parent.accountId}'
Options
TEST PARAMETERS
Add New
Key
Value
Parent.accountId
0015e00000EqR9hAAF
Result JSON Path

Data transfer in between component:

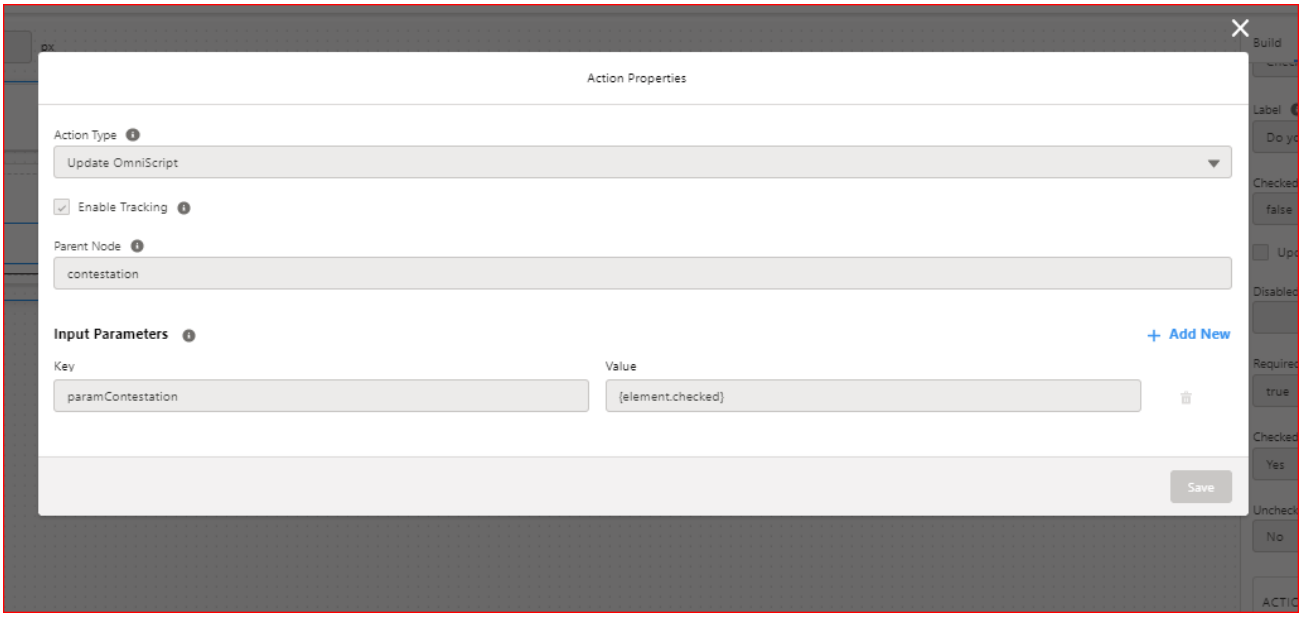
Action element :

- **Update in omniscript**
- **Update in card and then fire the event**
- **launch new omniscript in flyout or in new tab**

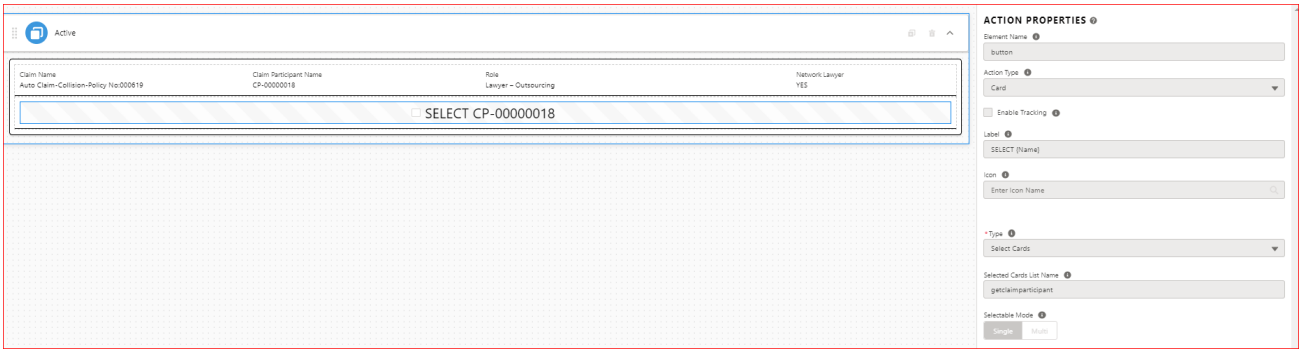
update omniscript :

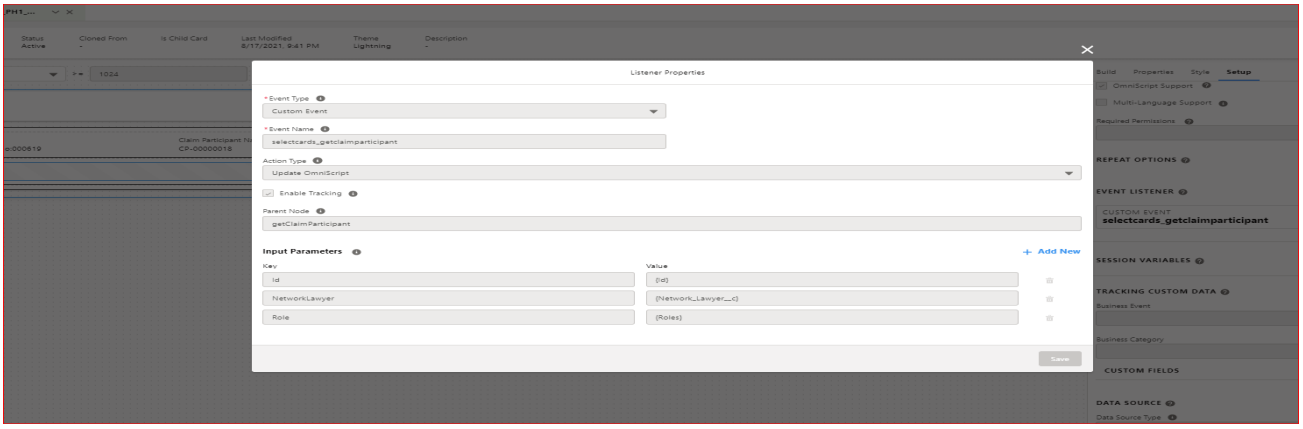
define parent node and path **(here parent node is step2 and path is Text1)**
it will come in step1:custom list value
"Step1":{"CustomLWC1":{"Step2":{"Text1":

Checkbox example:



Update in card and then fire the event to update omniscript :

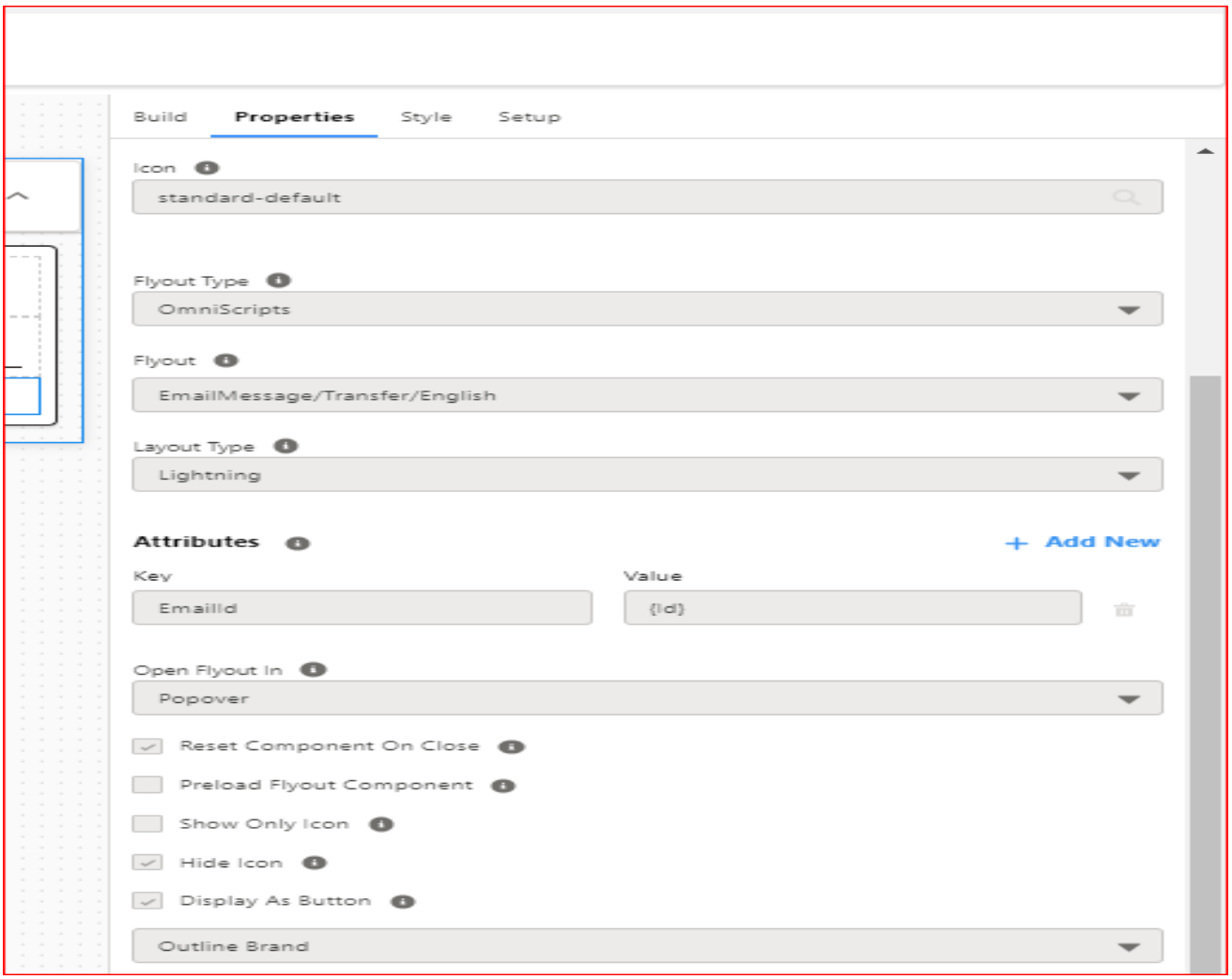




launch new omniscript in flyout or in new tab

define contextId {Id}

and use that %contextId%



And use EmailId in wherever u want (Omniscript / IP)

Normally : (reverse way)
FlexCard to OmniScript: **record-id** **{}**
And in omniscript: **%record-id%**

---

input in flex card: for data table use **records**
In Datatable: records, {records} {records[0]}
for output field use **key name** it will automatically iterate [{"key":value}{}]
define action item on that and use **{id}** to pass that particular select **record value**

Data Passing :

---

flex card works in data list format. It means [{},{},{}]
custom lwc works in object list format [**getList:[{},{}]]**

SOME KEY POINTS

First disable your cache logging

To preview flex card in omniscript you need to activate it
For any changes you need to recompile it **(deactivate->recompile, recompile in omniscript and refresh in button)**

When u define custom lightning web component, it doesn't work in version
Use Only the name

If same result you are getting again and again after disabling and enabling it again
Then turn on your debug mode and clear your storage

Standalone LWC (Check box importance)
Else it will be treated as parent child component

CUSTOM LWC INSIDE AN OMNISCRIPT

Prerequisites:

In metadata:

```
<runtimeNamespace>vlocity_cmt</runtimeNamespace>
<runtimeNamespace>vlocity_ins</runtimeNamespace>
```

Metafile configuration: (run time name space)

dataPassingInLwc.html 1 | dataPassingInLwc.js | dataPassingInLwc.js-meta.xml 1

force-app > main > default > lwc > dataPassingInLwc > dataPassingInLwc.js-meta.xml > LightningComponentBundle

```
1  <?xml version="1.0" encoding="UTF-8"?>
2  <LightningComponentBundle xmlns="http://soap.sforce.com/2006/04/metadata">
3      <apiVersion>52.0</apiVersion>
4      <isExposed>true</isExposed>
5      <targets>
6          <target>lightning__AppPage</target>
7          <target>lightning__HomePage</target>
8          <target>lightning__RecordPage</target>
9      </targets>
10     <runtimeNamespace>vlocity_cmt</runtimeNamespace>
11     <runtimeNamespace>vlocity_ins</runtimeNamespace>
12 </LightningComponentBundle>
```

inJS:

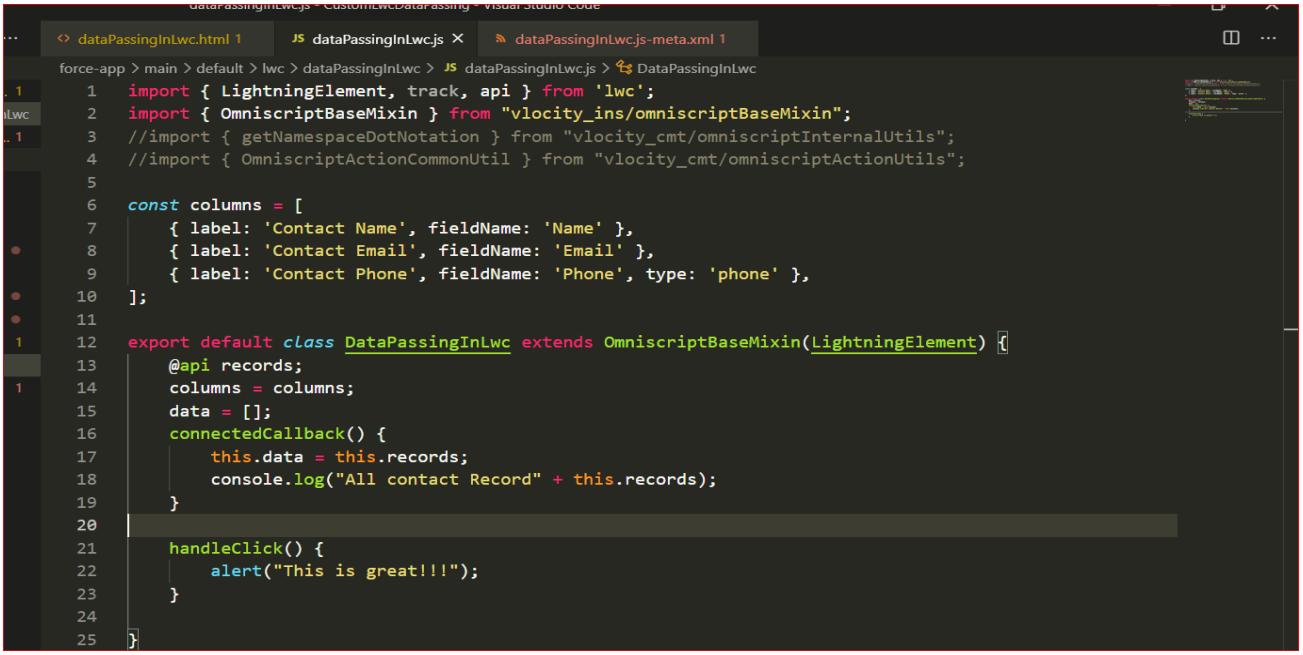
```
import { OmniscriptBaseMixin } from
"vlocity_ins/omniscriptBaseMixin";
```

```
import { getNamespaceDotNotation } from "vlocity_cmt/omniscriptInternalUtils";
import { OmniscriptActionCommonUtil } from "vlocity_cmt/omniscriptActionUtils";
```

Wrapper

```
export default class TestingOfFlexCard extends
OmniscriptBaseMixin(LightningElement) {}
```

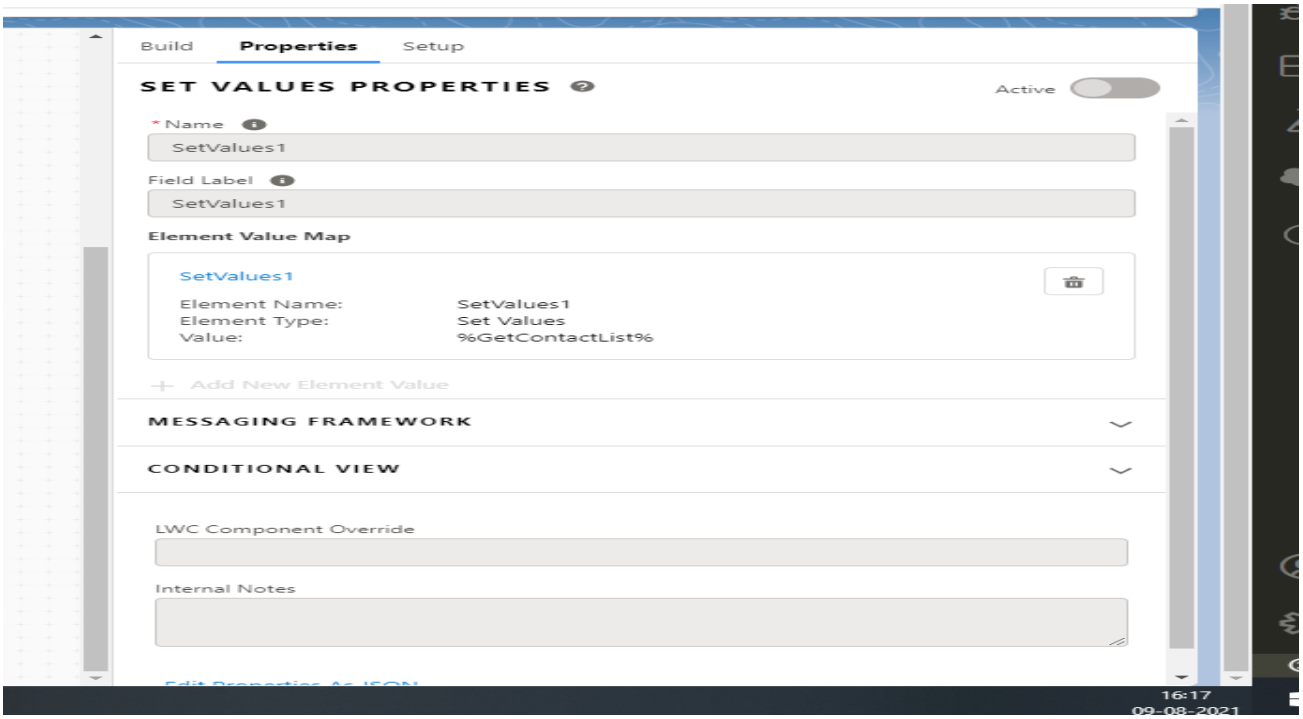
Javascript model: (import, wrapper, api decorator, connected call back method)

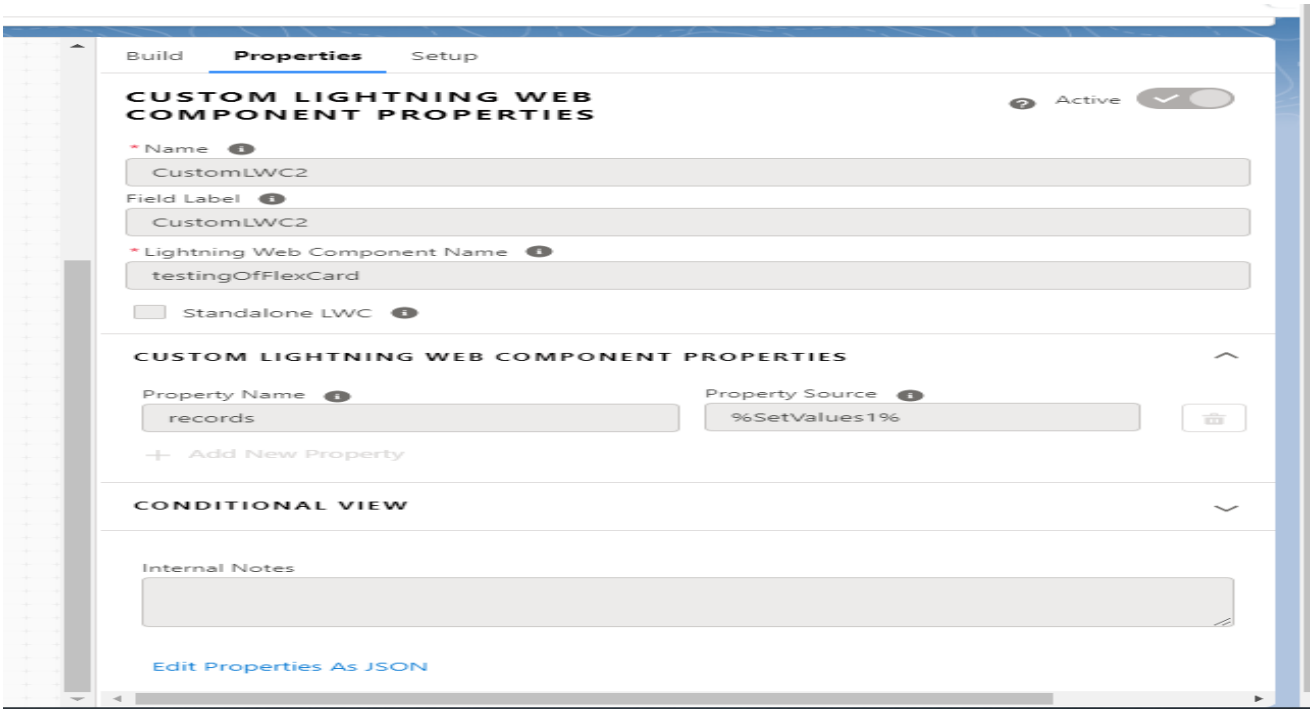


HTMl Model:

How to pass data from OS screen to Custom LWC?

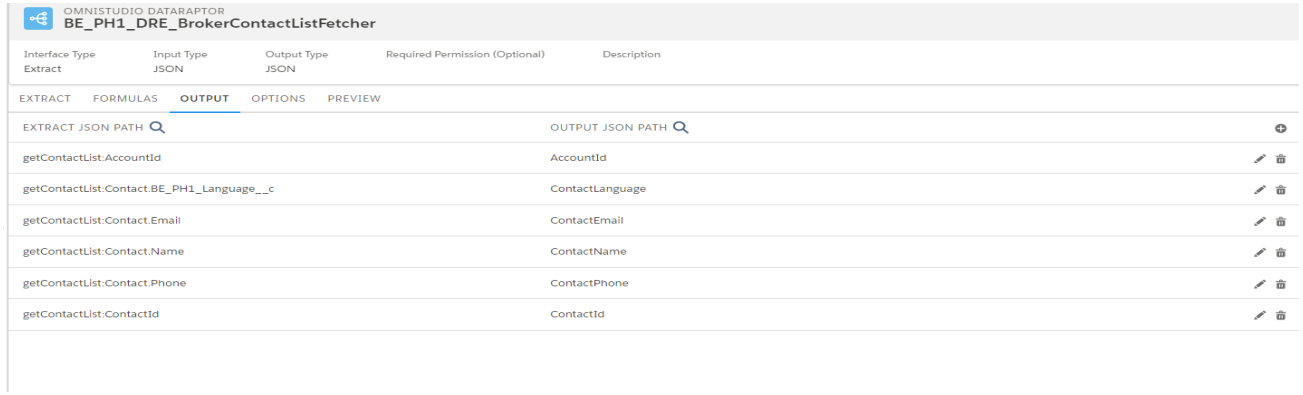
As i said, it works in object list format so

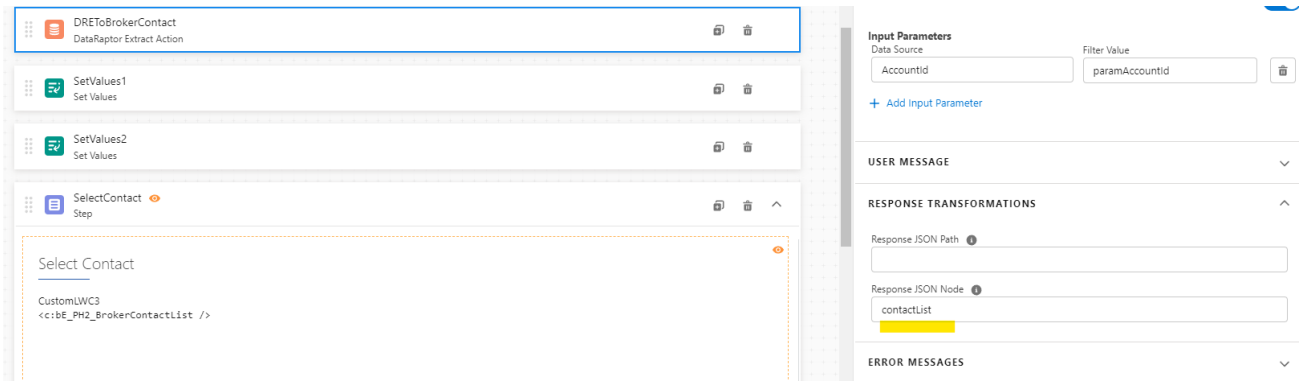


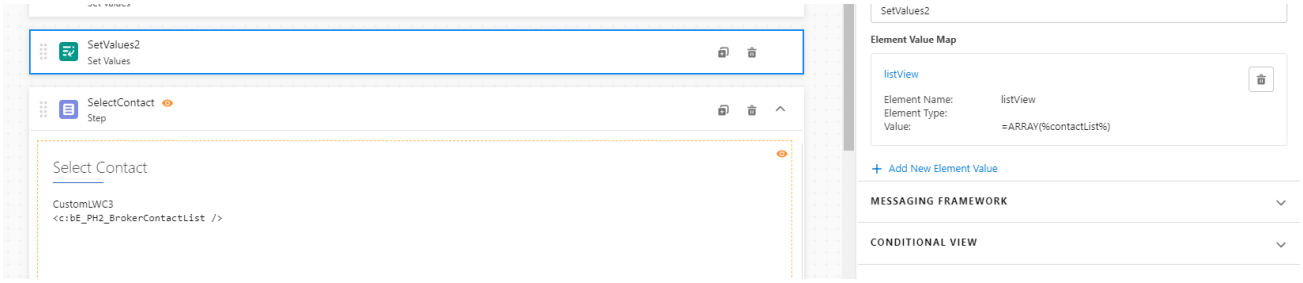


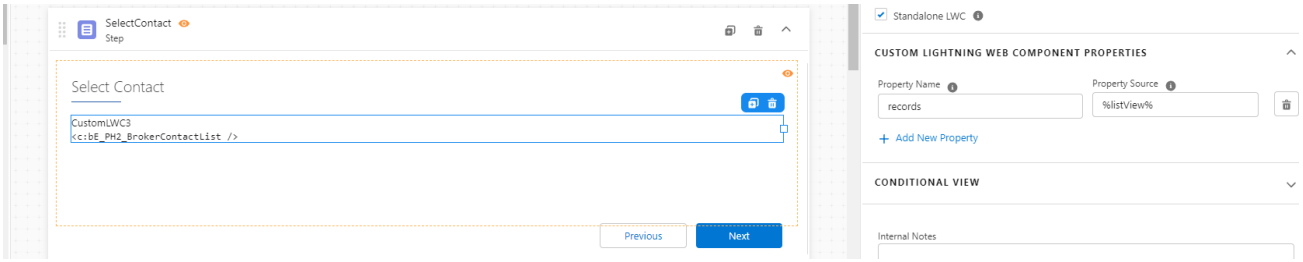
Please Note that it doestnot work When we are having one record because itcomes in object format and data in datatable performed in Array list format.

So entire structure would be like:-









You can pass entire JSON data as well and processing of that.

```
 @api _omniJsonData
 @api _customers;
connectedCallback(){
      var arr = [];
      this._omniJsonData=this.omniJsonData;
      this._customers = this._omniJsonData.result;
}
```

Processing of data with a particular node:-

```
1   import { LightningElement, track, api } from 'lwc';
2   import { OmniscriptBaseMixin } from "vlocity_ins/omniscriptBaseMix
3   const columns = [
4       { label: 'Contact Name', fieldName: 'Name' },
5       { label: 'Contact Email', fieldName: 'Email' },
6       { label: 'Contact Phone', fieldName: 'Phone', type: 'phone' },
7   ];
8   export default class TestingOfFlexCard extends OmniscriptBaseMixin
9       columns = columns;
10      data = [];
11      @track areDetailsVisible = true;
12      @api records
13      connectedCallback() {
14          console.log("this.cryptoName", this.records);
15      }
16
```

```
}];*/
export default class BE_PH2_BrokerContactList extends OmniscriptBaseMixin(LightningElement) {
    columns = columns;
    //data = data;
    @api records;
    data = [];

    connectedCallback() {
        this.data = this.records;
        console.log("All contact Record" + this.records);
    }
    handleRowSelection = event => {
        var el = this.template.querySelector('lightning-datatable');
        var selected = el.getSelectedRows()[0];
        console.log(JSON.parse(JSON.stringify(selected)));
        this.omniApplyCallResp({
            "selectedRow": selected

        })
    }
}
```

Remember to assign records in connected callback method

Processing of data with a custom attribute:-

Custom attribute passed from os to custom lwc
Property name : Name
Propery Source : Source

```
let parms = this.omniJsonDef.propSetMap.customAttributes;
      //  Find the values in the list (don't want to be fussy about the order)
      parms.forEach((val) => {
        if (val.name === "headers") {
          this.parms_headers = val.source;
          console.log('Headers = ' + this.parms_headers);
        }
}
```

@api directly assign

Special case: How to pass **record** and **column** of data table from os to custom lwc?

Data : u pass in normal array format {record}

CoumnName:-

Column name passing in array format from set value

```
let columns = [
    { label: 'Contact Name', fieldName: 'ContactName' },
    { label: 'Contact Phone', fieldName: 'ContactPhone', type: 'phone' },
    { label: 'Contact Email', fieldName: 'ContactEmail' },
    { label: 'Contact Language', fieldName: 'ContactLanguage' },
 ];
console.log(JSON.stringify(columns));
column = JSON.stringify(columns);
console.log(JSON.parse(column));
console.log('<------------>>');
```

Column name passing in string format

```
headers=[];
parms_headers = 'Name, Email';
parms_headers.split(',').forEach((item,i)=>{
        var x = {};
        x.label =i;
        x.fieldName = item.trim();
        headers.push(x);
});
console.log('Headers:'+JSON.stringify(headers));
console.log('<------------>>');

headers=[];
parms_label = 'Contact Name, Contact Phone';
parms_fieldName = 'ContactName, ContactPhone';
array_label = parms_label.split(",");
array_fieldName = parms_fieldName.split(",");
console.log(array_label);
console.log(array_fieldName);


parms_label.split(',').forEach((item,i)=>{
        var x = {};
        x.label =array_label [i].trim();
        x.fieldName = array_fieldName[i].trim();
        headers.push(x);
});
console.log('Headers:'+ JSON.stringify(headers));
head= JSON.stringify(headers);
console.log(JSON.parse(head));
```

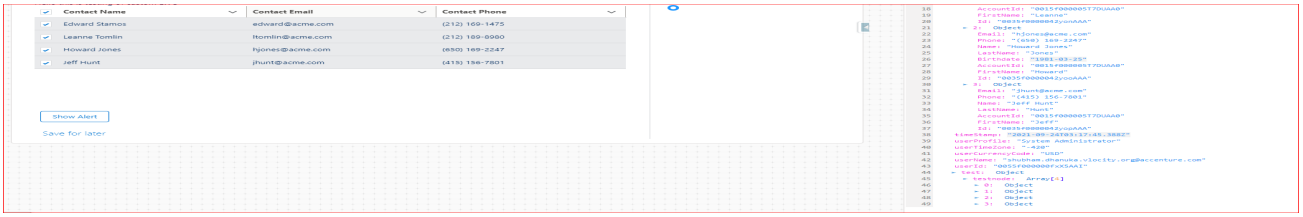
How to get back data from Custom LWC to OS screen Back?

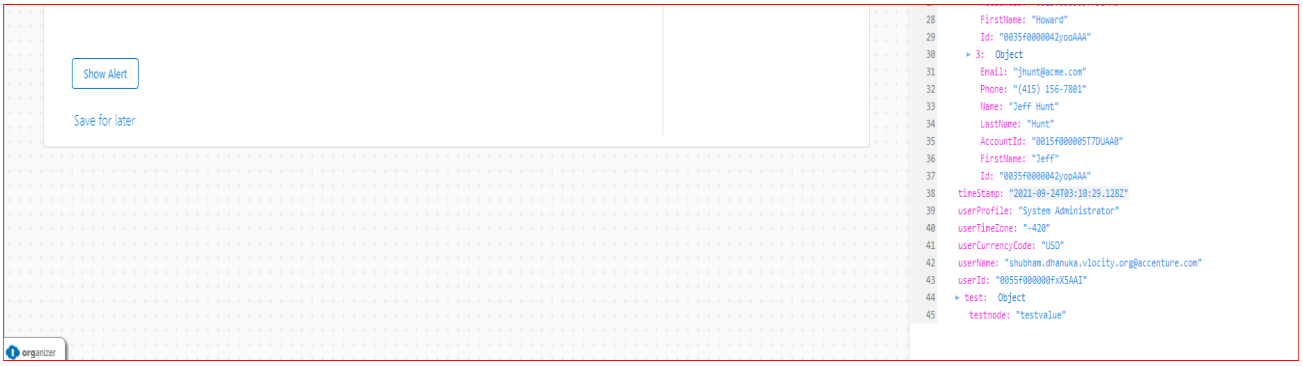
You need to use this function and in this function you need to pass nodes and data values.

`this.omniApplyCallResp()`

```
    handleClick() {
        alert("This is great!!!");
        this.omniApplyCallResp({
            "test": { "testnode": "testvalue" }
        });
    }
}
```

```
    handleClick() {
        alert("This is great!!!");

        var el = this.template.querySelector('lightning-datatable');
        console.log(el);
        var selected = el.getSelectedRows();
        console.log(selected);
        this.omniApplyCallResp({
            "test": { "testnode": selected }
        });
    }
}
```



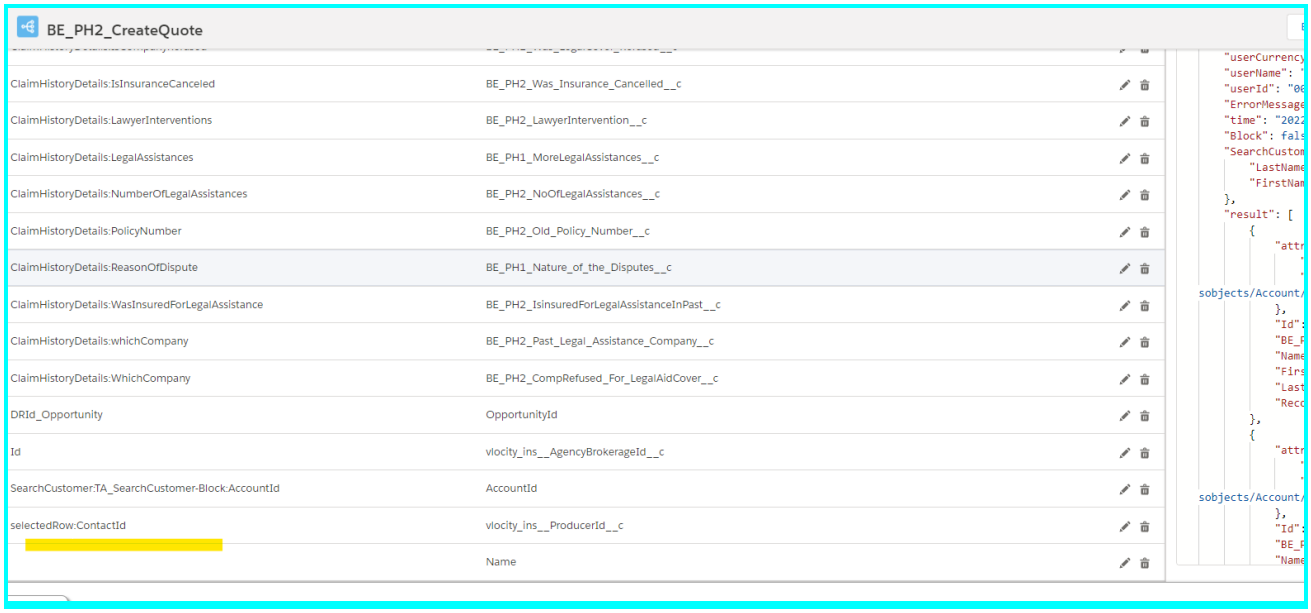


Note:

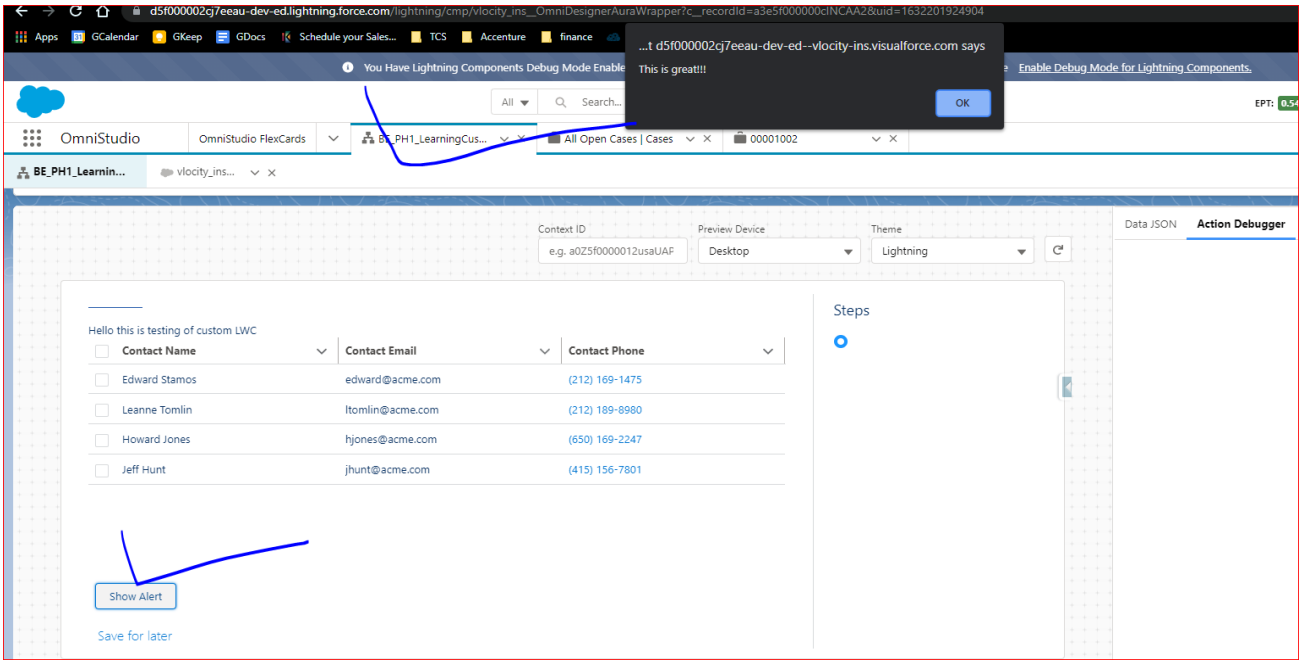
For multiple parameter passing or different attribute passing code is in code learning note

How to processed data fruther in OS?

```
export default class BE_PH2_BrokerContactList extends OmniscriptBaseMixin(LightningElement) {
    columns = columns;
    //data = data;
    @api records;
    data = [];

    connectedCallback() {
        this.data = this.records;
        console.log("All contact Record" + this.records);
    }
    handleRowSelection = event => {
        var el = this.template.querySelector('lightning-datatable');
        var selected = el.getSelectedRows()[0];
        console.log(JSON.parse(JSON.stringify(selected)));
        this.omniApplyCallResp({
            "selectedRow": selected

        })
    }
}
```



Button in omniscript / toast msg in omniscript: Use custom LWC



More button like navigation work and setting up the value other than any custom.

Cancel Button in omniscript:-

In setup of omniscript cancel button there to deactivate and navigate

Update Omniscript is not getting refreshed if we deselect it again:

refresh the event or omniscript

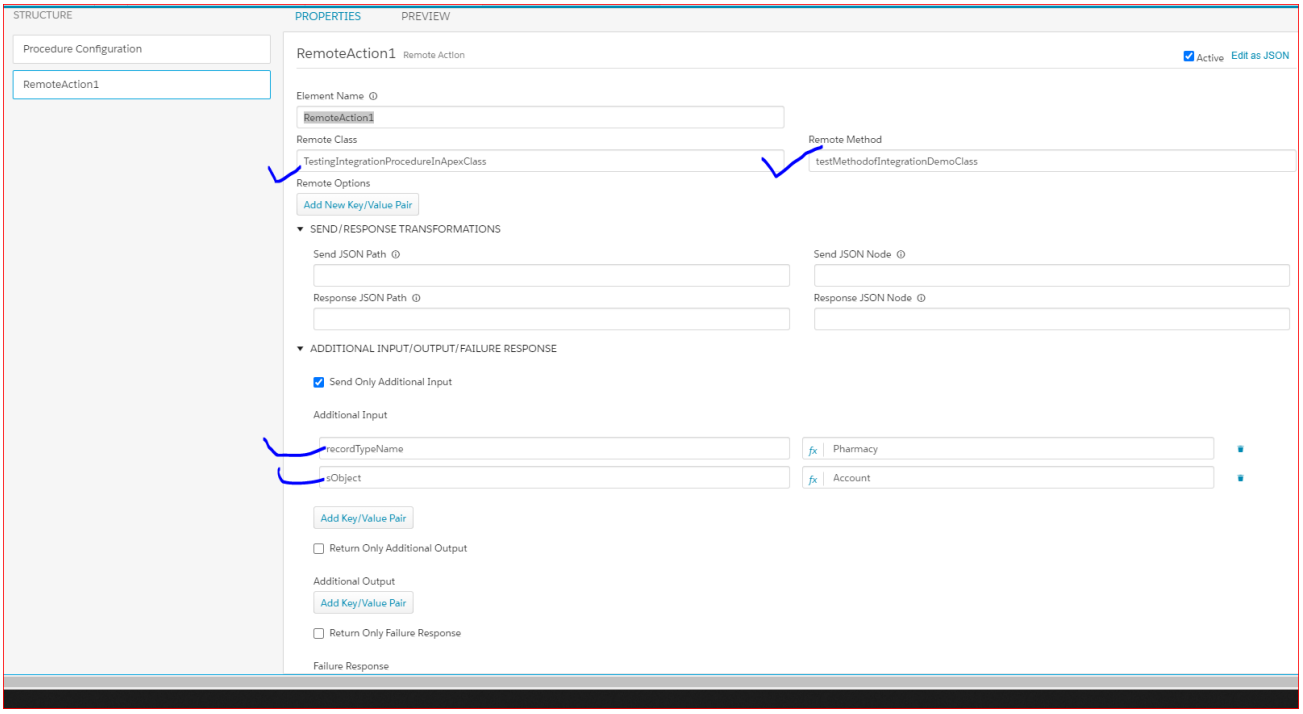
General Note:

target config in metadata
record design like aura

This are reusable property can be used in lightning app builder page layout for reference to pass or value to pass

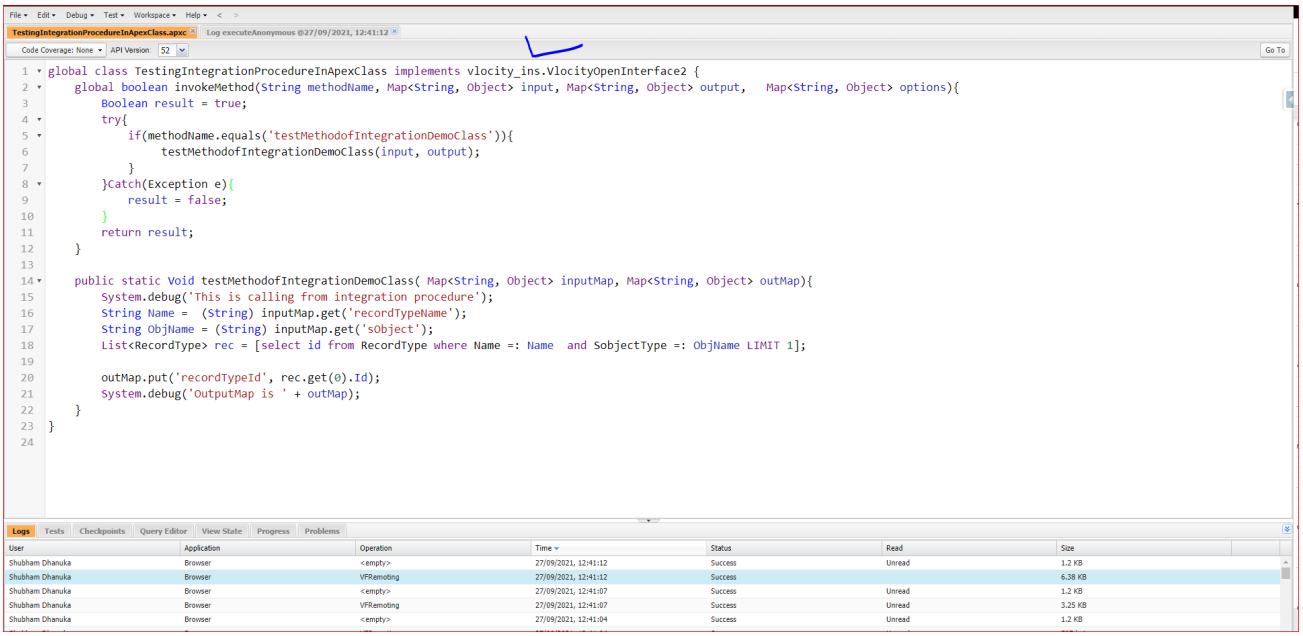
Calling Apex Class in Integration procedure:

Passing Parameter:



Receiving output:

ApexClassHandling:



Code:

```
global class TestingIntegrationProcedureInApexClass implements vlocity_ins.VlocityOpenInterface2 {
 global boolean invokeMethod(String methodName, Map<String, Object> input, Map<String, Object> output, Map<String, Object> options){
  Boolean result = true;
      try{
         if(methodName.equals('testMethodofIntegrationDemoClass')){
            testMethodofIntegrationDemoClass(input, output);
         }
      }Catch(Exception e){
         result = false;
      }
      return result;
   }
   public static Void testMethodofIntegrationDemoClass( Map<String, Object> inputMap, Map<String, Object> outMap){
      System.debug('This is calling from integration procedure');



      String Name =  (String) inputMap.get('recordTypeName');
      String ObjName = (String) inputMap.get('sObject');
      List<RecordType> rec = [select id from RecordType where Name =: Name  and SobjectType =: ObjName LIMIT 1];
      outMap.put('recordTypeId', rec.get(0).Id);
      System.debug('OutputMap is ' + outMap);
   }
}
```

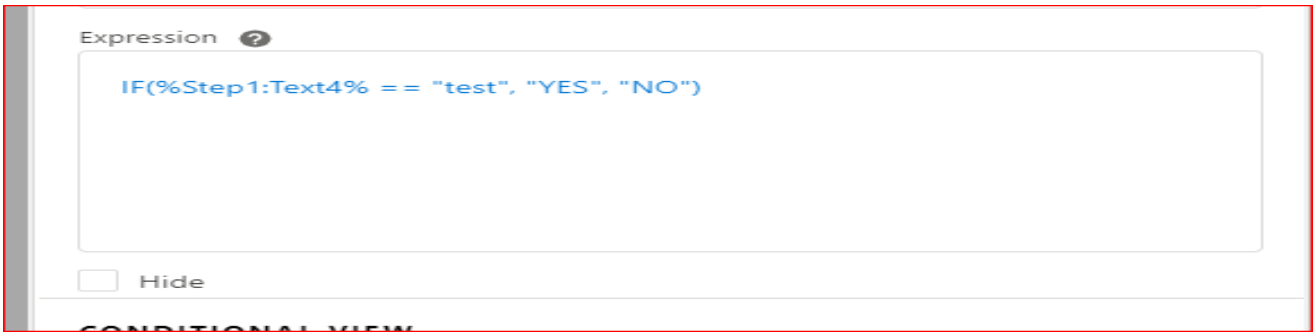
Note: Sample code has also downloaded

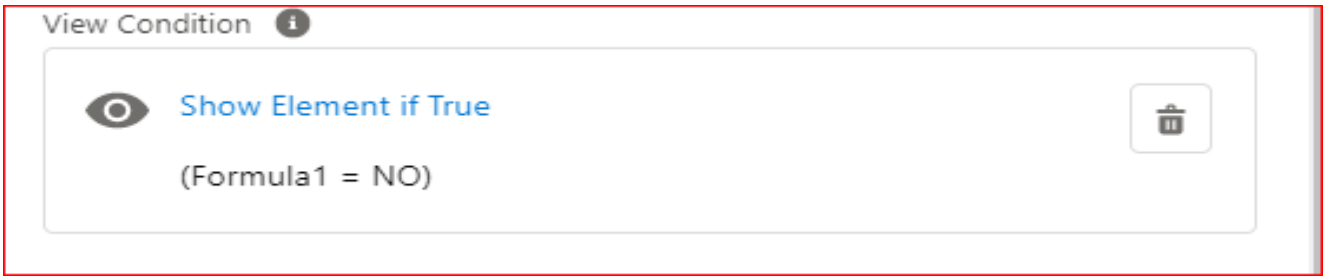
To use it further output of apex class:
Use element name and item
Example:
RemoteAction1:recordTypeId

General Question resolve: General Hack ::: Element Learning :::

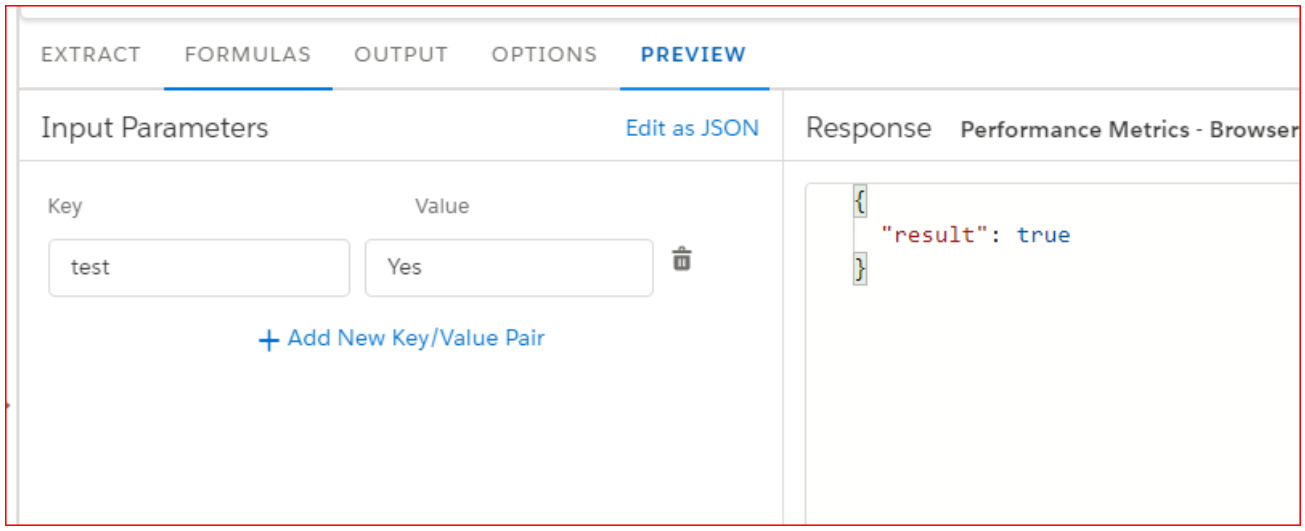
FORMULA in OS:-

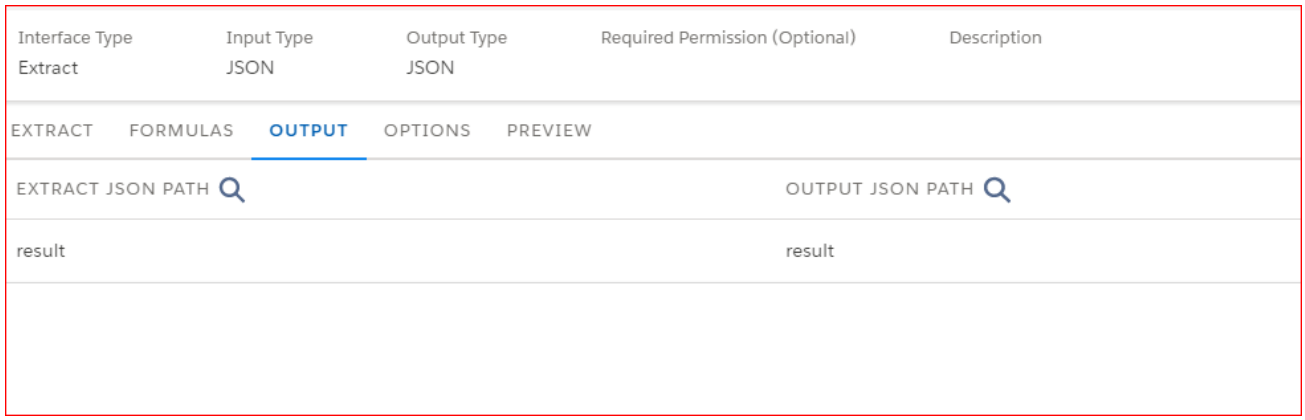
It is the same as in the validation rule, U need to convert your value into string format and then compare.





Formula in DataRaptor:





DataRaptor Awsm checkpoint Learning:

Note: it is as easy to manipulate the list like as easy to manipulate with data List. Query

Parent/Child Query:

Note: u are not able to see in extractor still u can use it.
By using standard way r.field_Name

Related object fetch by passing id:

name:Id in where clause

Doable things:

Control on Output of data type
Transformation of data
Validation of data

Integration Procedure Awsm Checkpoint learning:

Send response path, Send response node
Receive response path, receive response node

Condition formula
Setback error

Array Element:

How to access particular index element from a list
Here indexing starts from 1
And to access it, nodename |1 (**node_name|(pipe symbol and index))**

In Flexcard:-

records (entire database records),
record (current record),
record[0] (iteration record)

Card State:

1) Active State ::: Can we used when we have data (Active State)
2) InActive State ::: Can we used when we don't have data (Make sure to check the checkbox (grey out indicator))

Action. pop over (vlocity action) (button vlocity) => flex card (launch omniscript) Vlocity action

Standard Class:

1)Duplicate Check: standard class (Find duplicate)
2) Approval Process: standard class (Approval)
3) Notification : standard class (Messaging.customNotification)
4) Email: standard class (Messaging.sendEmail)
5) Email inbound : (Messaging.InboundEmailHandler)
6) standard class (Process Instance)
7) Pattern Matching: (Matcher)

Object:

1) Task: creating task (field will be created on activity object)
2) Note: creating notes
3) EmailMessage: creating email
(attachment linking will be on content document link)
4) Action Plan : creating action plan template
(id will be taken from Action Plan Template Version)

Select Element:

Suppose before loading anything if we set the value contextId and context id is not there or it wasn't loaded then it will throw an error so how to overcome?
Ans: Use Condition block to check the value first, same we do in template:if block

Typehead new :

So it is kind of label that is used to pass null value if user are not able to find what they are looking into the list
Based on this both the way at frontend and backend we can configure based on condition block

To find where dataraptor is used ??

```
String dataRaptorname = 'TEST_Dataraptor';

for(vlocity_ps__Element__c omniElement : [SELECT Id,vlocity_ps__OmniScriptId__r.Name,vlocity_ps__OmniScriptId__r.vlocity_ps__IsProcedure__c,vlocity_ps__PropertySet__c FROM vlocity_ps__Element__c WHERE vlocity_ps__Type__c LIKE '%Dataraptor%'])
{
if(omniElement.vlocity_ps__PropertySet__c.contains(dataRaptorname))
{
  System.debug('--->'+omniElement.vlocity_ps__OmniScriptId__r.Name);
}
}
```

Form : <vlocity namespace>__Element__C e.g:- vlocity_ins_element__c

And by using idx workbench also we can see where these component are used.

Update record iteration without loop getting all the id :

By using the update element in flow, it will do the SOSL Query

Find all Contact records where AccountId Equals {!$Record.Id}

Task :

u cant create any custom field on task object, you have to create all those filed on activity object.

Activity date: is the due date field on task object coming from activity object.

Record triggering flow:

Record triggering flow automatically fires when we do updation in record

AutoLaunched flow:

Autolaunched flow does not fire itself so u need to explicitly call the flow

It can either be a process builder or trigger itself or class.

Since process builder now gonna deprecated so better to use trigger or class and code would be something like this:-

```
Flow.Interview flowInterval =
Flow.Interview.createInterview('BE_PH1_InternalRequestAfterAppProcess',
new Map<String,Internal_request__c>{'NewInternalRequestRecord'=>irRecord});
flowInterval.start();
```

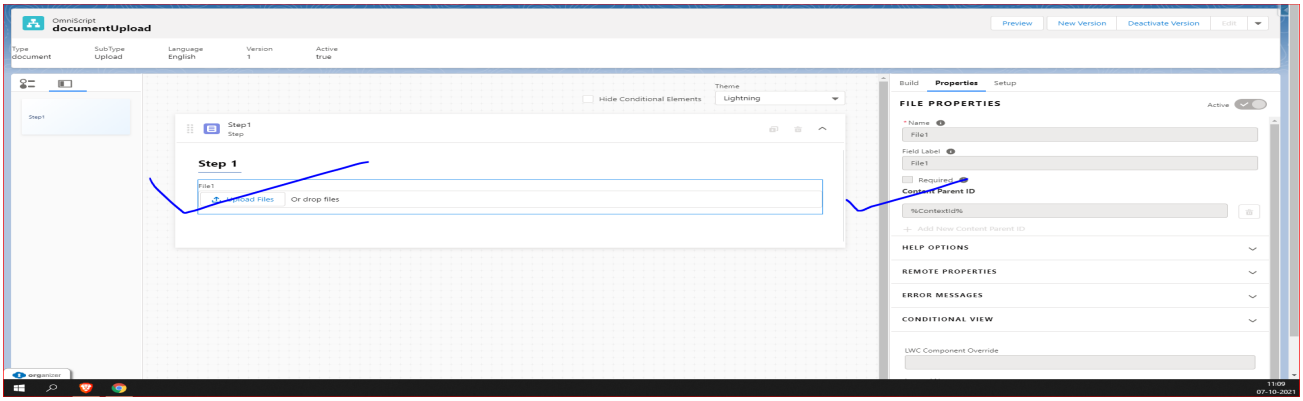
Security wise model:-
Field creation and security setting.

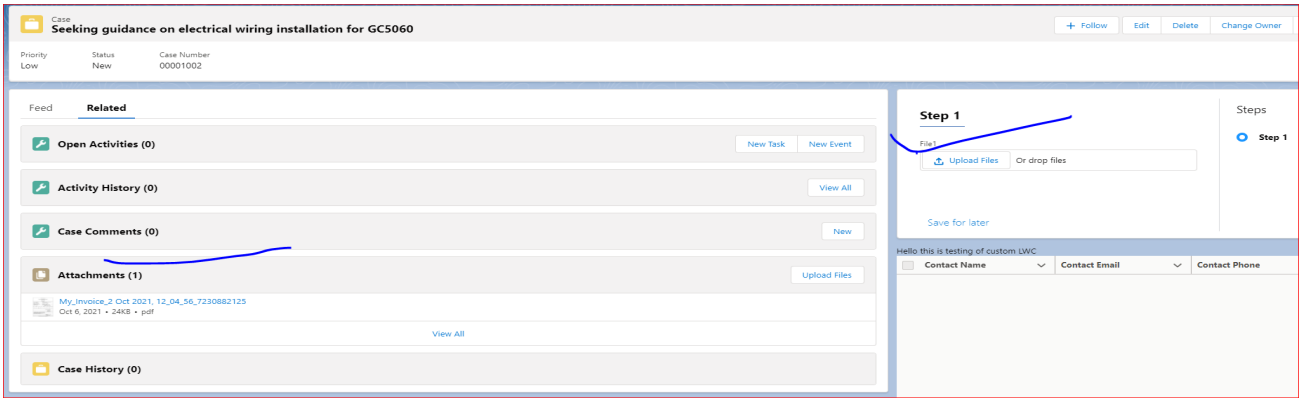
Profile
Permission set
Permission set group
Sharing rule

Custom permission ::: **role identify** :::: **Validation rule**
Validation rule

Suspending of sharing rule calculation
Defer Sharing Calculations: depends org wise

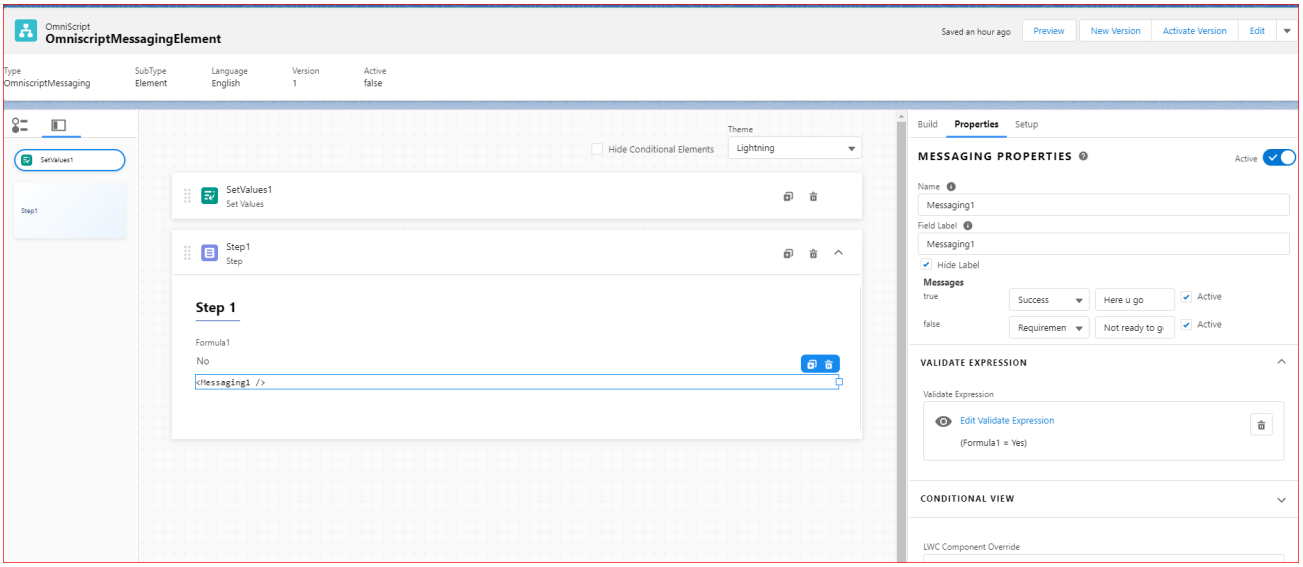
Document Attached through OS:-
U just need to define the input element as a document element and parent id where it will link. It will automatically store a content document link and will be linked to the parent id which is defined.

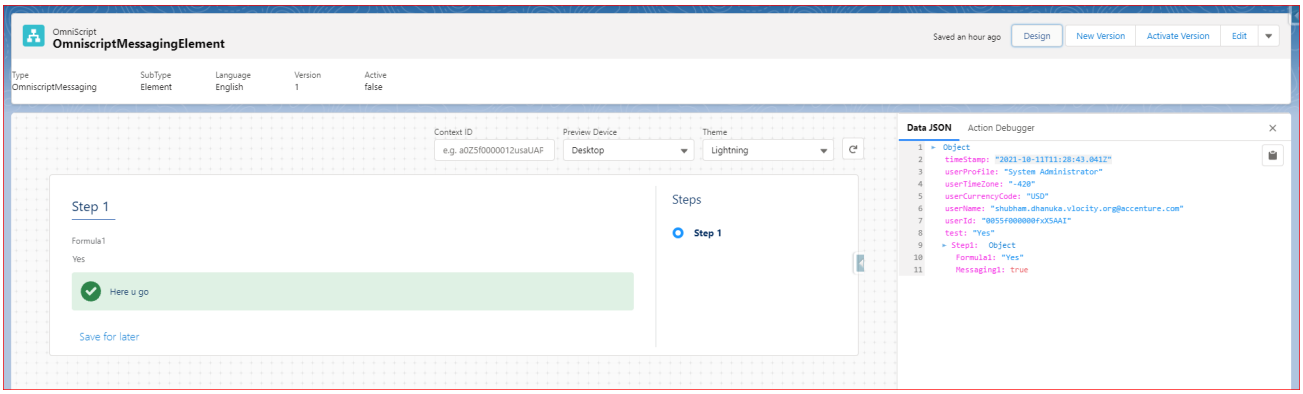




Messaging element in vlocity:-

Messaging element in vlocity is used to show the message on when the condition is met, it is kind of the same to use indicator.





General Note:

Queue has to have access of object and person should be there in queue to test

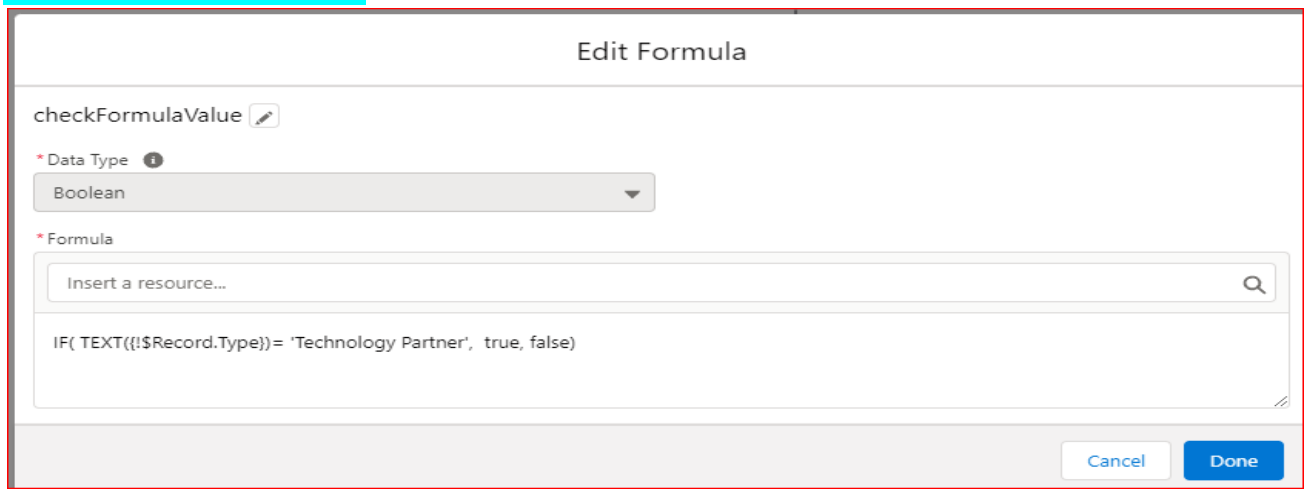
Check out how many flows are getting fired on that object.
Any record/field updation:
check it from where it is used?

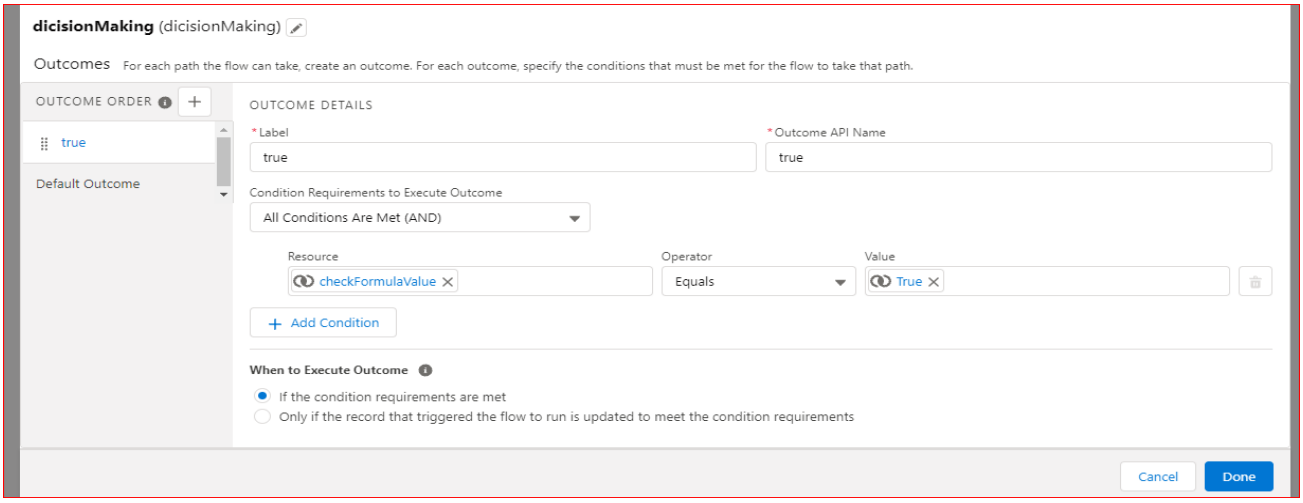
if package and object content does not have permission then also it will give deployment **insufficient access object** error.

Database Management:-

Data load activity:-
through **workbench,** through **salesforce inspector**
as well (in excel, maps it correctly and then deploy)

Flow Formula fields:-





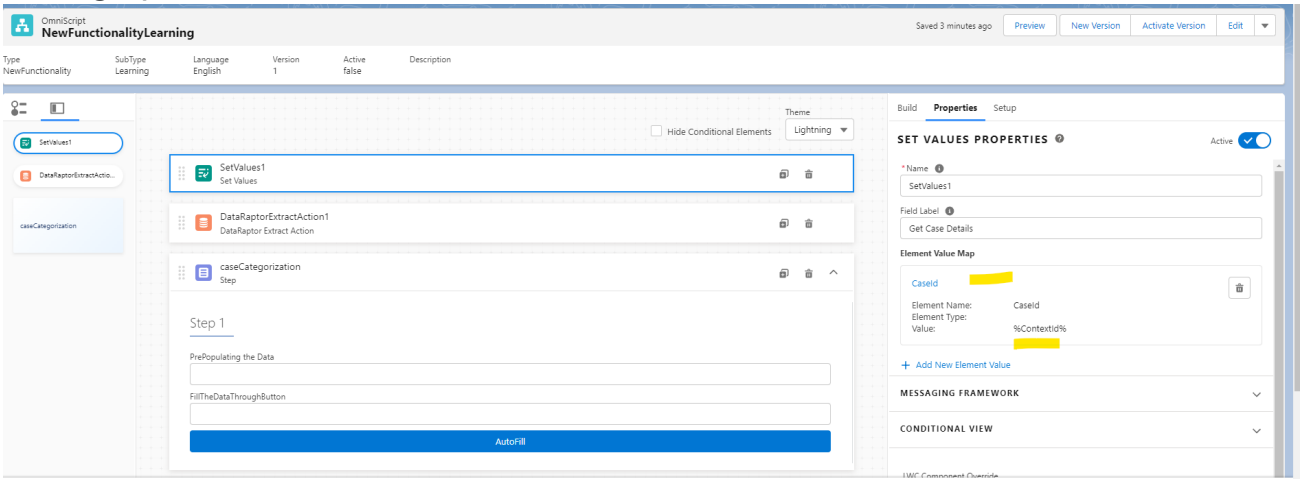
How to pass Ip inside another IP?

Use remote Action and select pass in UserQueueable option as true.

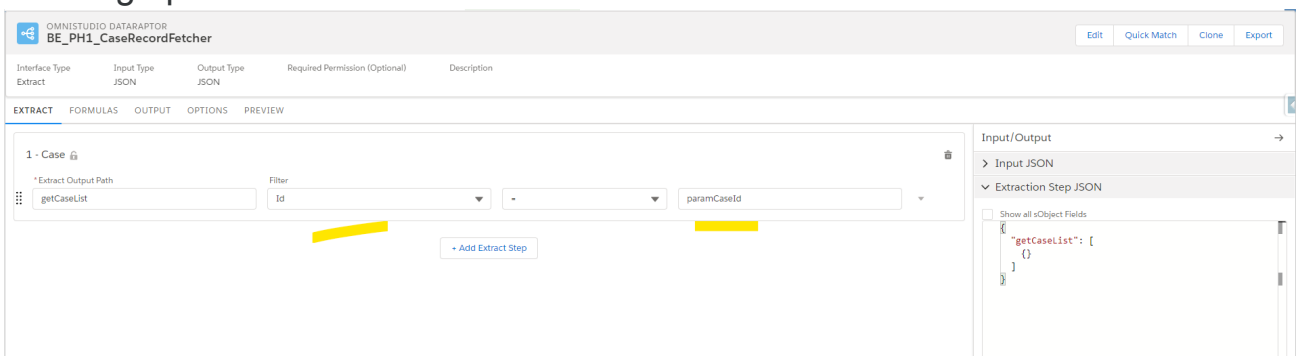
DataFilling in OS:-

Prepopulating the data on Screen:-

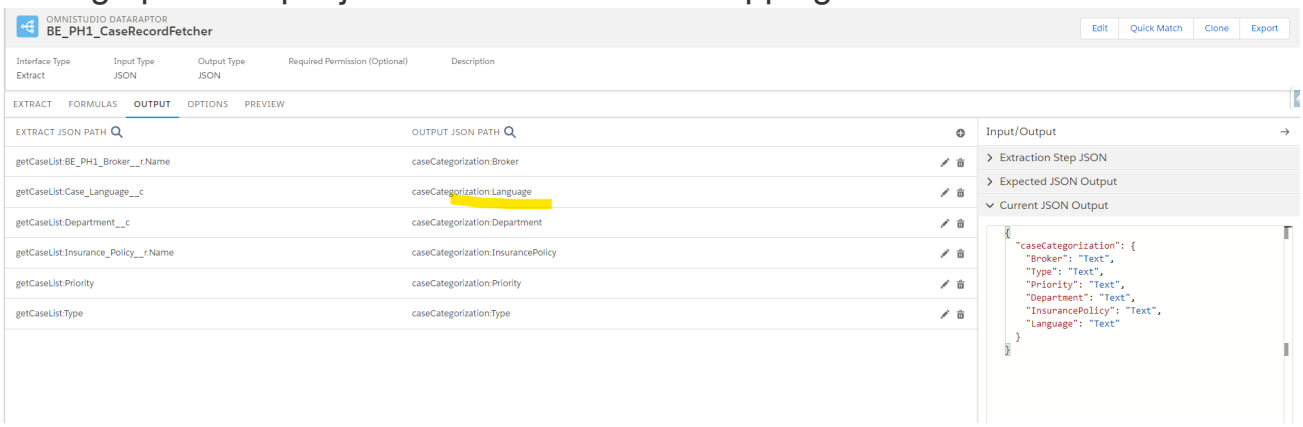
Setting up the context id/ record id:-

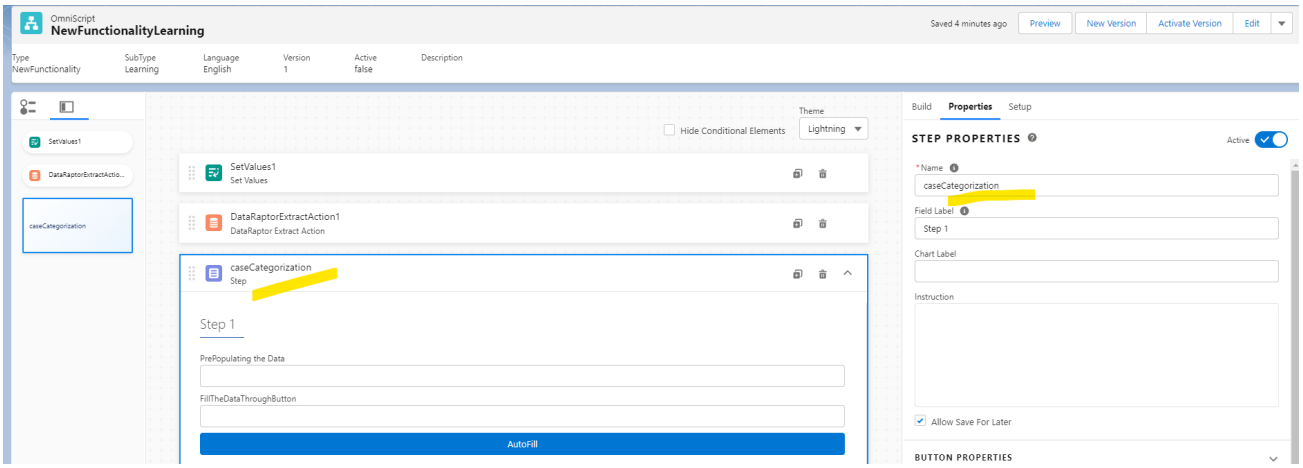


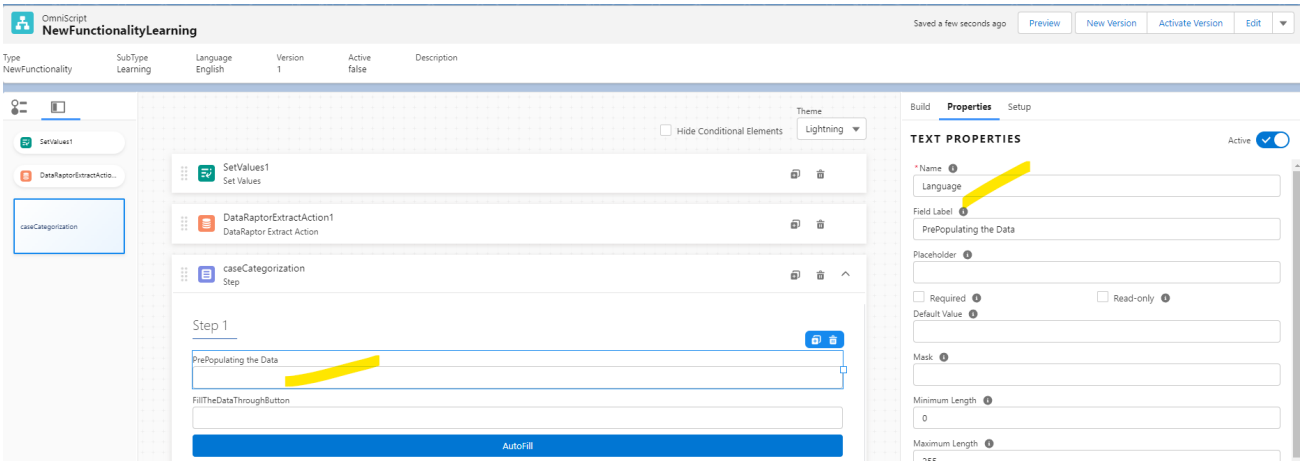
Fetching up the record:-

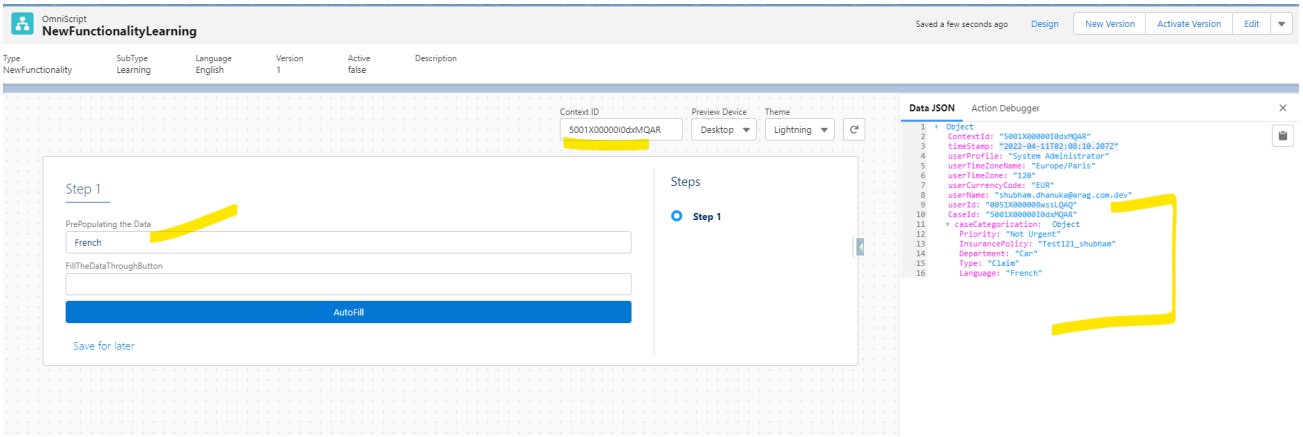


Setting up the output json value with screenmapping:-



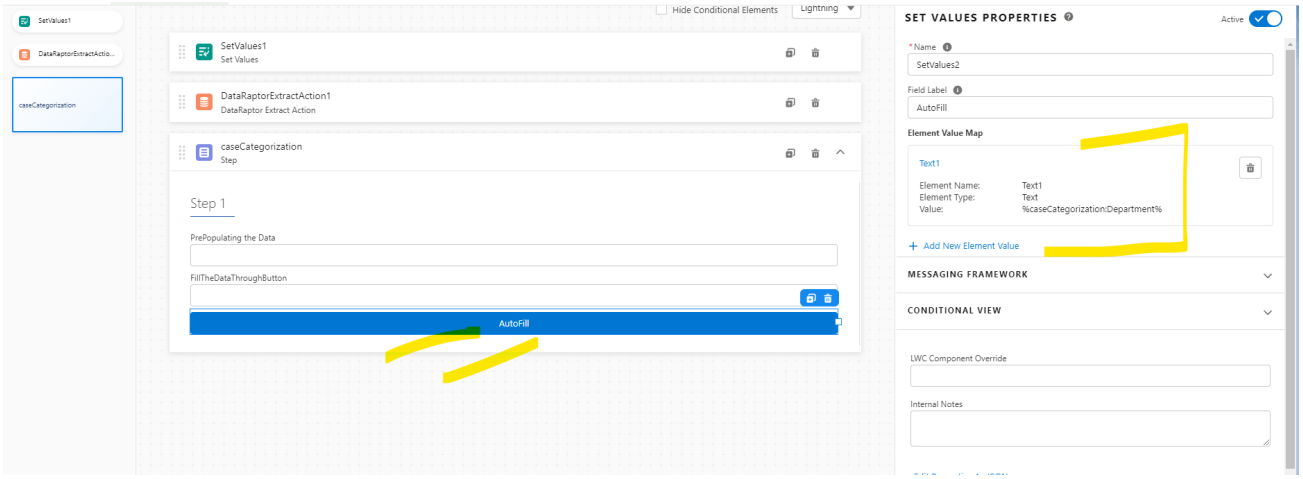


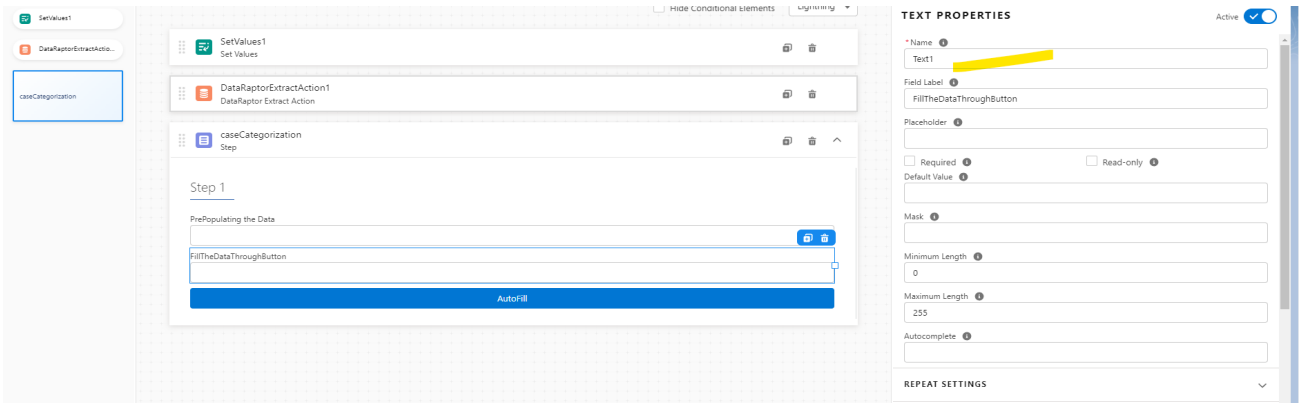


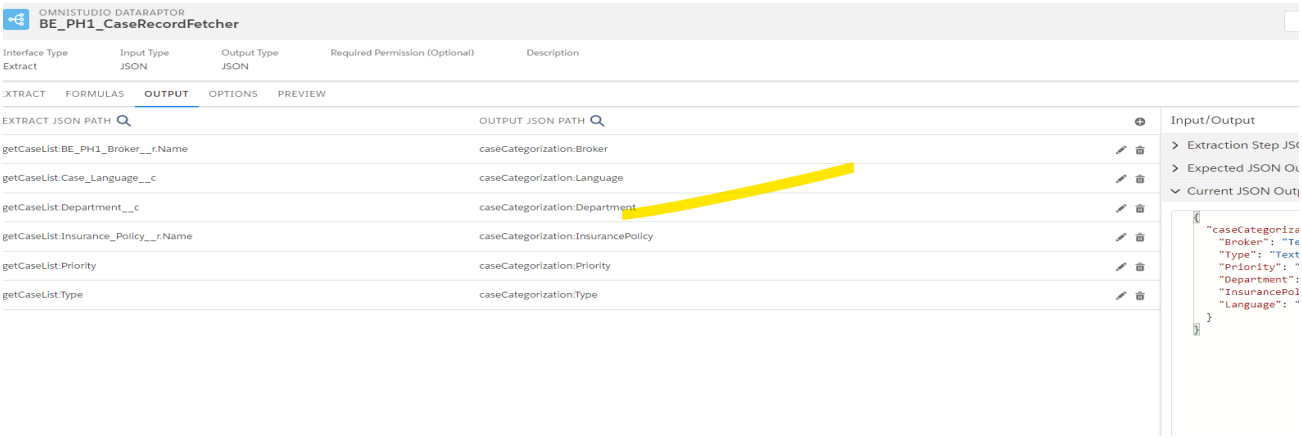


How to fill data in the fields through a button?

Same process like prepopulating just invoke it or set the value when click of a button







The beauty of this, it will work in screen loading as well as setting up the value through button