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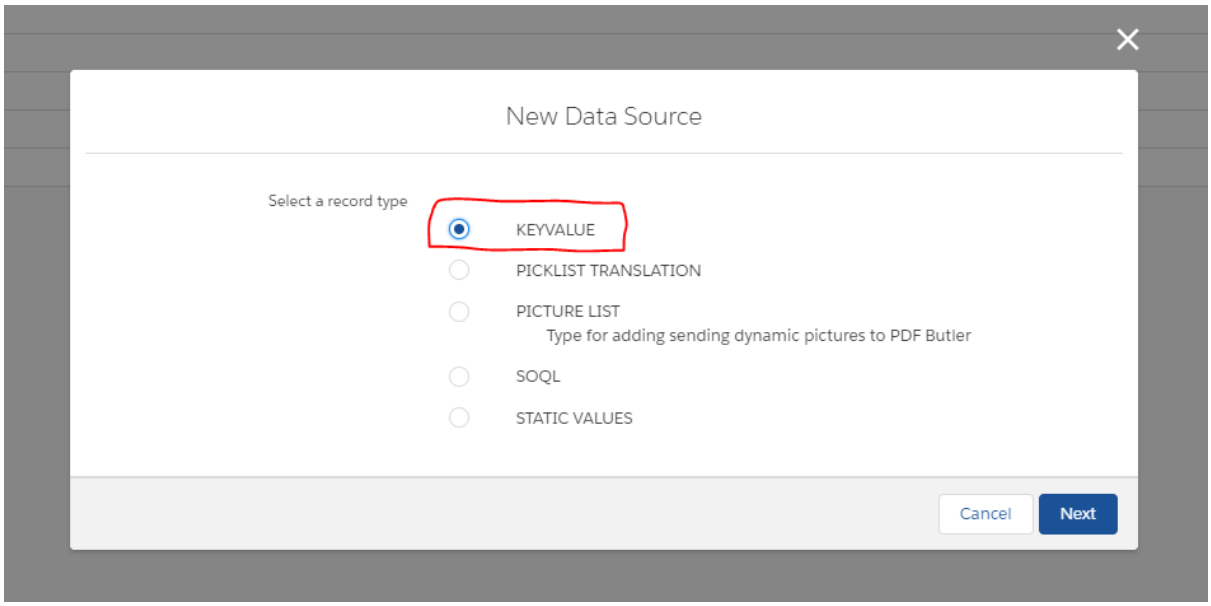
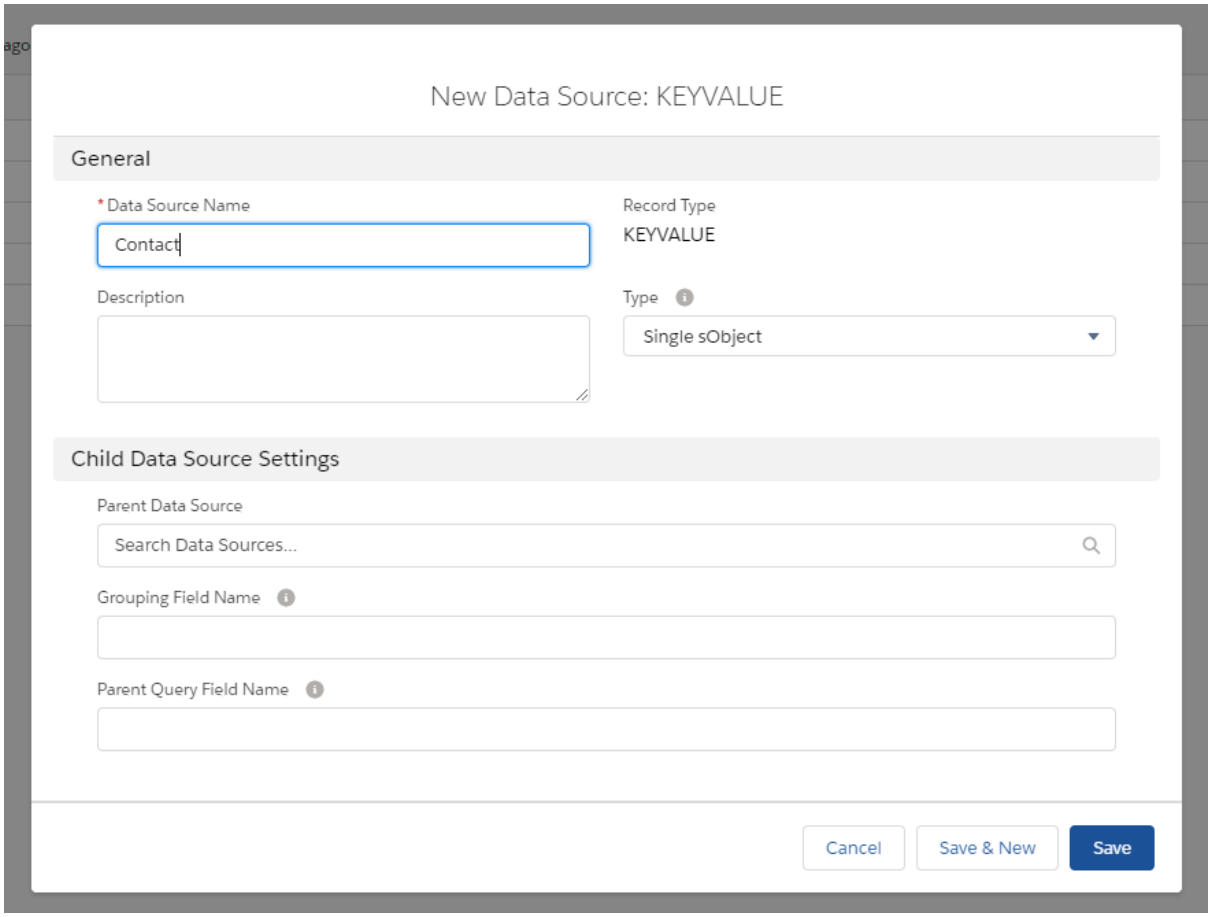
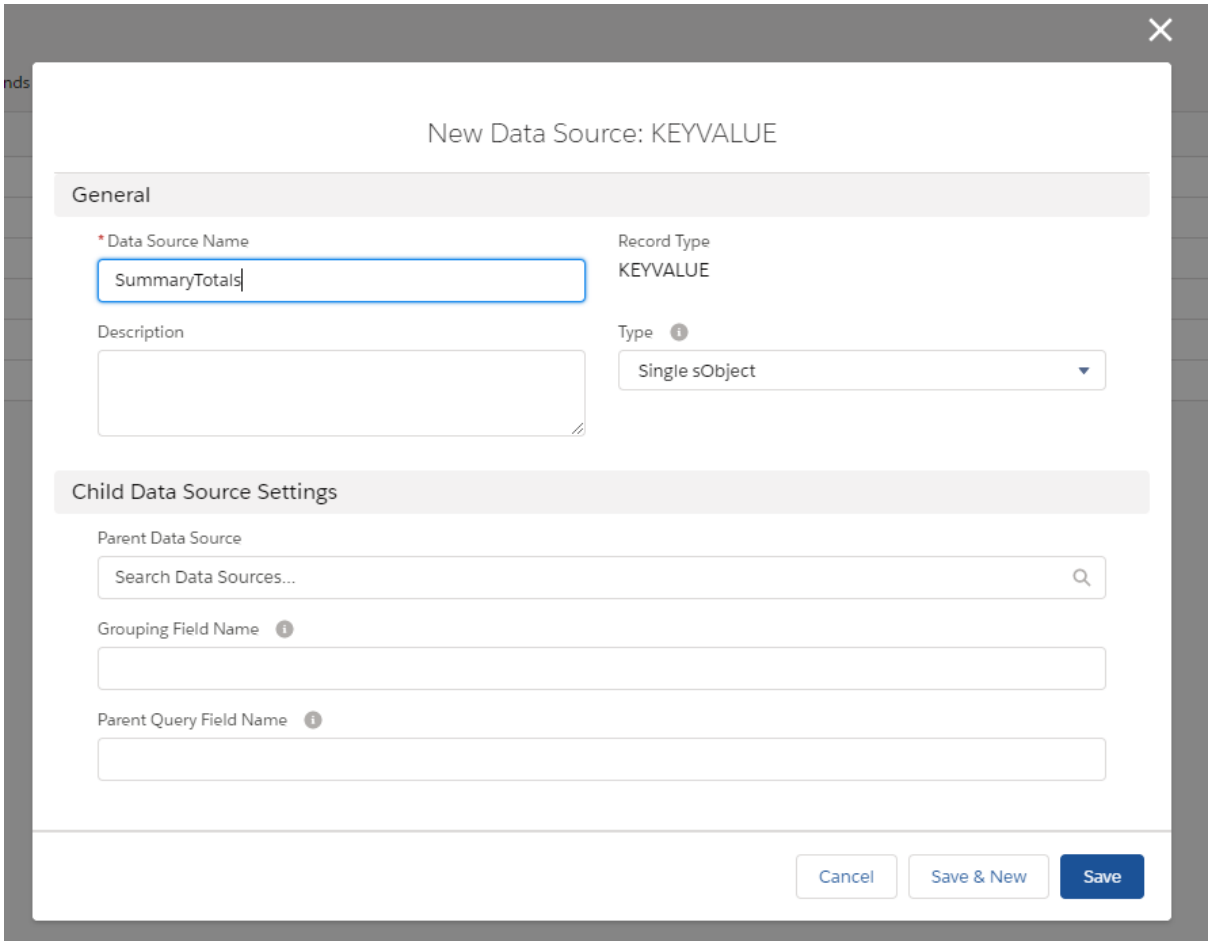
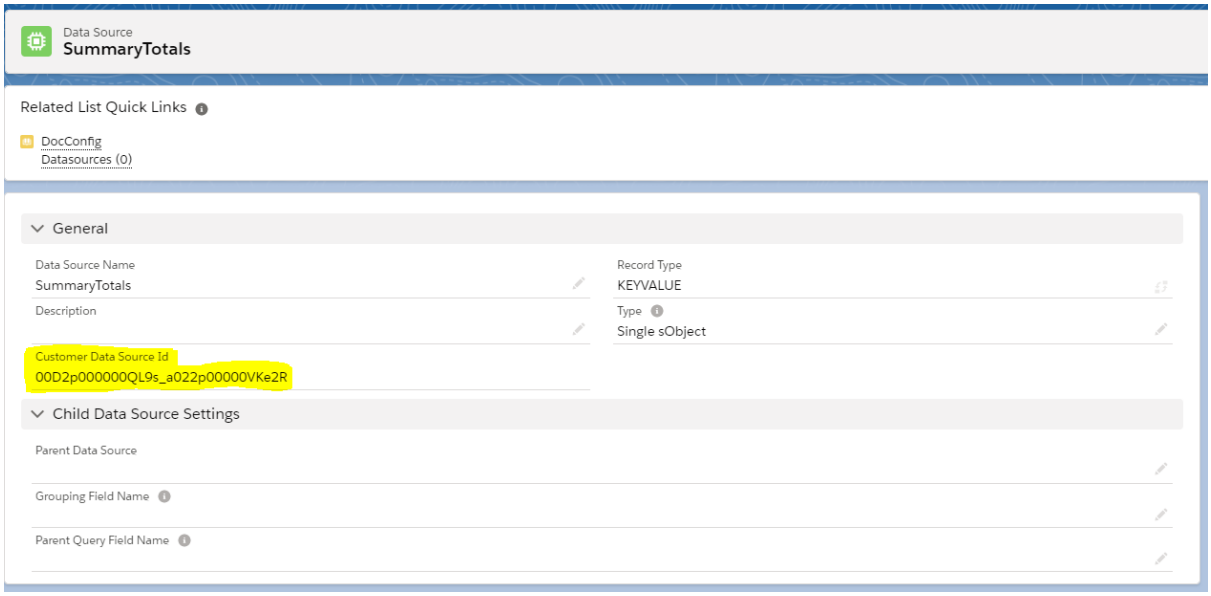
APEX Actionables - KEYVALUE

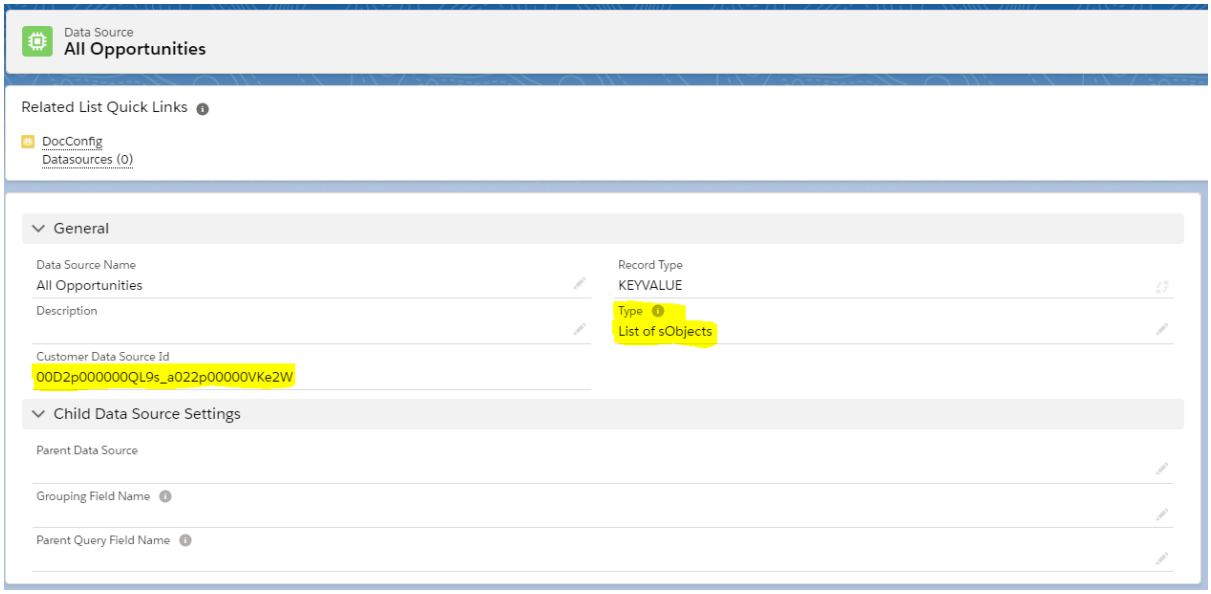
APEX Actionables:






New Data Source: KEYVALUE
General
* Data Source Name
SummaryTotals
Record Type
KEYVALUE
Description
Type
Single sObject
Child Data Source Settings
Parent Data Source
Search Data Sources...
Grouping Field Name
Parent Query Field Name
Cancel
Save & New
Save


Data Source
SummaryTotals
Related List Quick Links
DocConfig
Datasources (0)
General
Data Source Name
SummaryTotals
Record Type
KEYVALUE
Description
Type
Single sObject
Customer Data Source Id
00D2p000000QL9s_a022p00000VKe2R
Child Data Source Settings
Parent Data Source
Grouping Field Name
Parent Query Field Name



These are actions that can run before or after the Document is generated via PDF Butler.

You can easily implement your own Actionables in APEX by implementing the following interfaces:

- cadmus_core.AbstractBeforeActionable
- cadmus_core.AbstractAfterActionable

Make sure your class is “global”!

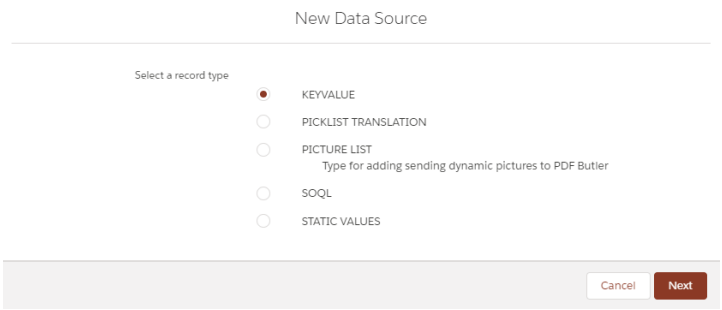
AbstractBeforeActionable:

The class has 1 method to implement:

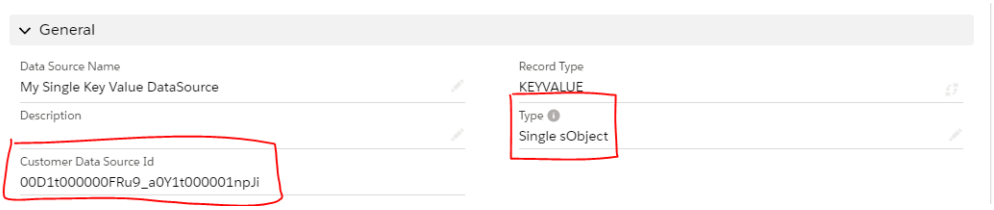
```
global class Actionable_CalculateStuff implements cadmus_core.AbstractBeforeActionable  {

        global void execute(cadmus_core__Actionable__c actionable,
                Id docConfig,
                Id objectId,
                Map<String, Object> inputMap,
                cadmus_core.ConvertController.ConvertDataModel cdm) {
                  //your custom stuff
        }


}
```

The most custom usage for the Before actionable is to add data to the inputMap. This data can be used for variables in SOQL Datasources or to be directly added to the PDF Butler.

1) Variables: just add a key/value to the Map. If the key matches a variable in a SOQL, then it will be used
2) Single DataSource: the data must always map to a DataSource in the PDF Butler App
   Create a new KEYVALUE DataSource:



Make sure that the DataSource is of Type “Single sObject”

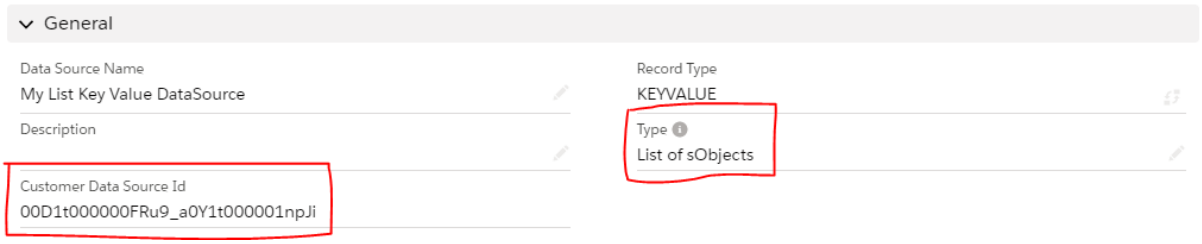


The DataSource will get an unique identifier to identify it over all environments. This key will be required to add the data to the inputMap

Here some example code to add the data for this DataSource

```
//Get DataSources
List<cadmus_core__Data_Source__c> dss = [SELECT Id, Name,
cadmus_core__CustomerDataSourceId__c,cadmus_core__Image_Name__c From
cadmus_core__Data_Source__c];

Map<String, cadmus_core__Data_Source__c> dsMap = new Map<String,
cadmus_core__Data_Source__c>();
for(cadmus_core__Data_Source__c ds : dss) {
        dsMap.put(ds.cadmus_core__CustomerDataSourceId__c, ds);
}

//DUMMY 1 ROW: shows haw to add text values
Map<String, String> dummy = new Map<String, String>();
dummy.put('test','test');
dummy.put('test2','test2');
inputMap.put(dsMap.get('00D1t000000FRu9_a0Y1t000001npJi').Id, dummy);

//Calculated fields: Shows how to add numbers
Map<String, Decimal> SummaryTotals = new Map<String, Decimal>();
SummaryTotals.put('NO_VAT', 12);
SummaryTotals.put('WITH_VAT', 12 * 0.21);
inputMap.put(dsMap.get('00D2p000000QL9s_a022p00000VKe2R').Id,
SummaryTotals);
```

3) List DataSource: the data must always map to a DataSource in the PDF Butler App Create a new KEYVALUE DataSource:
Make sure that the DataSource is of Type “List of sObject”



Here some example code to add the data for this DataSource

```
//Get DataSources
List<cadmus_core__Data_Source__c> dss = [SELECT Id, Name,
cadmus_core__CustomerDataSourceId__c,cadmus_core__Image_Name__c From
cadmus_core__Data_Source__c];

Map<String, cadmus_core__Data_Source__c> dsMap = new Map<String,
cadmus_core__Data_Source__c>();
for(cadmus_core__Data_Source__c ds : dss) {
        dsMap.put(ds.cadmus_core__CustomerDataSourceId__c, ds);
}

//LIST
<SELECT YOUR DATA TO ADD> eg variable accnts
//create the list of maps
List<Map<String, String>> myMapsList = new List<Map<String, String>>();

for(Account acc : accnts) {
  Map<String, String> tempAccnts = new Map<String, String>();
  tempAccnts.put('Id',acc.Id);
  tempAccnts.put('Name',acc.Name);
  myMapsList.add(tempAccnts);
}
inputMap.put(dsMap.get('00D1t000000FRu9_a0Y1t000001npJi').Id, myMapsList);
```

AbstractAfterActionable

The most custom usage for the After actionable is to handle the documents. The documents are available via the wrapper.

This way, you can store the documents where you want if you do not want to use the OOTB storage capabilities, eg store the document linked to another object then the one that was used to initiate the PDF Butler call.

You can also integrate here with your own internal or external applications or define actions.

The documentation on the ConvertDataModel and DocGenerationWrapper can be found in “Call PDF Butler from APEX”

The class has 1 method to implement:

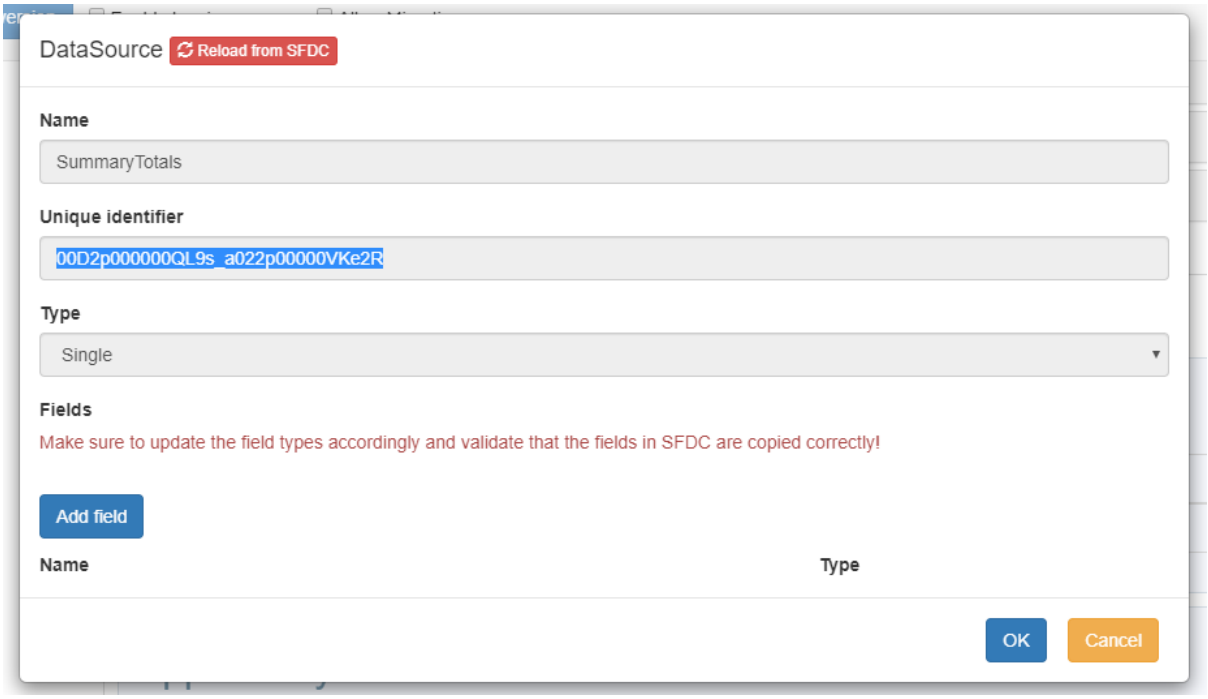
```
global class Actionable_AfterStuff implements cadmus_core.AbstractAfterActionable {
```

```
        global void execute(cadmus_core__Actionable__c actionable,
                Id docConfig,
                Id objectId,
                Map<String, Object> inputMap,
                cadmus_core.ConvertController.ConvertDataModel cdm,
                cadmus_core.DocGenerationWrapper wrapper) {
                  //your custom stuff
        }


}
```

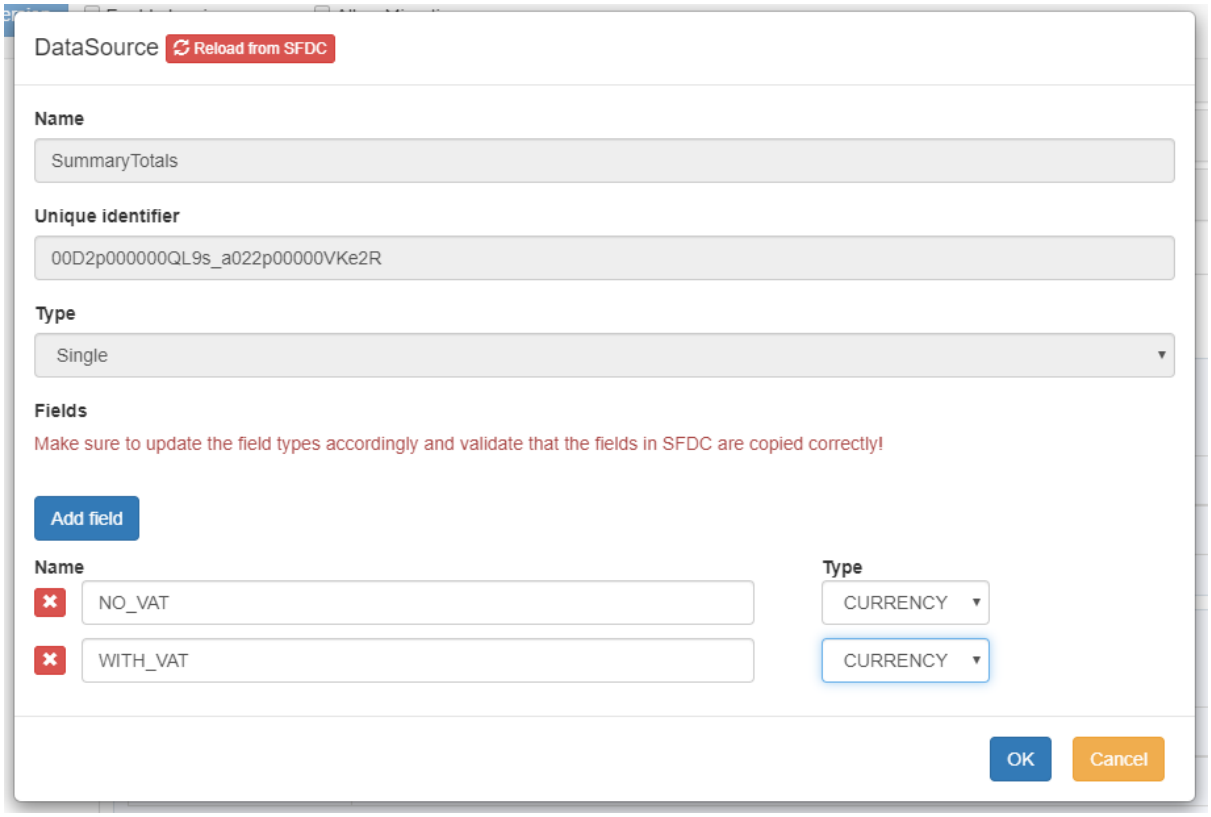
Add your KeyValue DataSource to the DocConfig.

In the DocConfig configuration page, you can add your KeyValue DataSource just like any other DataSource. We ofcourse, do not know the fields that you will add via APEX.

After adding, you will see a screen like this one:



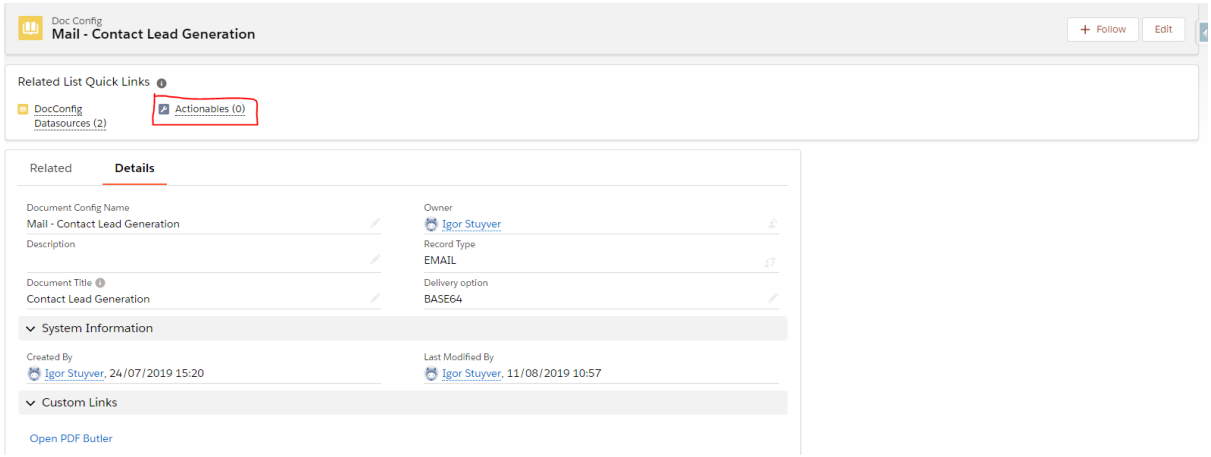
For every field, just click ‘Add field’ to make sure you can use it. Make sure to also set the type correctly for correct formatting:



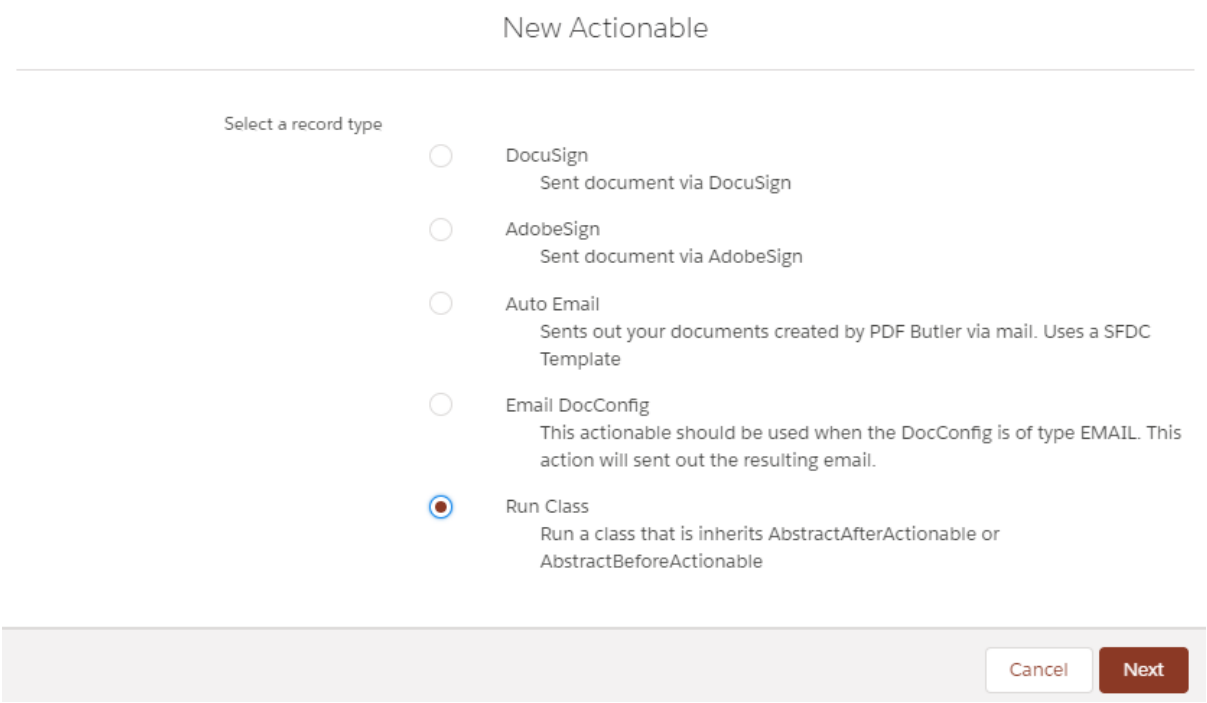
Use your actionable

Easiest way is to use it from the DocConfig.

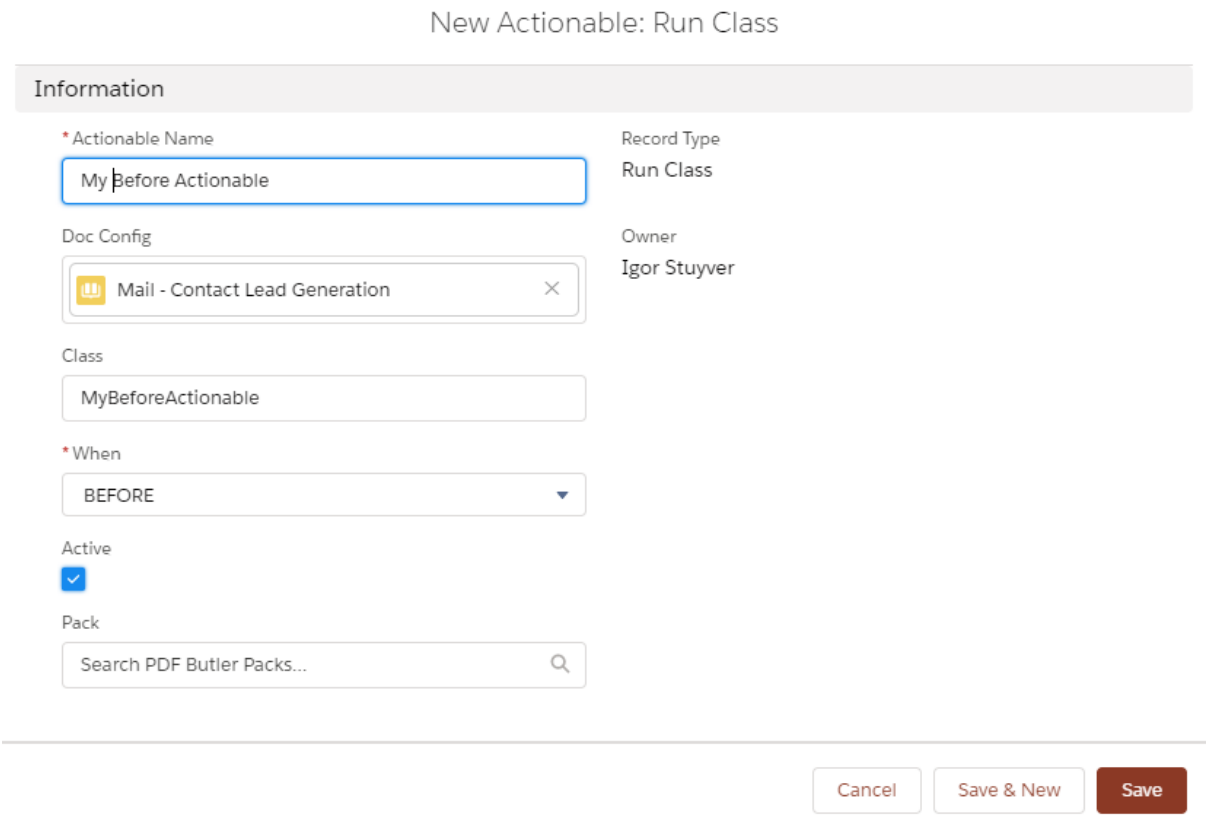
Add a new Actionable via the Related list on DocConfig (if the list is not there, just update the Page Layout to add it)



The Actionable is of type “Run Class”:



Next is to fill in the details, make sure your Actionable is Active and it will be run Before or After the document is generated by PDF Butler:



An alternative way is to use it with a PDF Butler Pack.