

Steps to be followed.

1. Develop an Adobe form and common method to give the form content output as Base64

In this example I am using XML Based form interface but it is possible to use the ABAP Dictionary based interface as well.

Form Name: ZZ1 SALE ORDER

The screenshot displays the 'Form Builder: Display Form ZZ1\_SALE\_ORDER' application. The interface includes a menu bar (Edit, View, Insert, Table, Layout, Tools, Palettes, Help) and a toolbar. The 'Layout' tab is active, showing a design view of the form. The form contains several input fields: 'Sales', 'Sales Group', 'Document Type', and 'SD Document'. Below these fields are two data tables. The first table has columns: Material, Material Group, Material Name, Order Quantity, Order Quantity Unit, Sales Document, Sales Document Item, Sales Document Item Category, and Sales Document Item Type. The second table is similar but with different column headers. A hierarchy tree on the left side shows the form's structure, including 'data', '(Master Pages)', '(untitled Content Area)', 'SalesDocument', 'SalesDocumentType', 'SalesGroup', 'SDDocumentCategory', 'to\_SolItem', 'overflowLeader', and 'ZI\_SALE\_ORD\_ITEMT'.


Here I am creating a new class and build the driver Method to call the form using and return back the output form content

The screenshot displays the 'Class Builder: Change Class ZCL\_SALE\_ORDER\_PDF' application. The interface includes a menu bar (Local Definitions/Implementations, Local Test Classes) and a toolbar. The 'Methods' tab is active, showing the 'Parameters of Method' section. The table below lists the parameters for the method GET\_SALE\_ORDER\_FORM.


Parameter	Type	P...	O...	Typing Method	Associated Type
IM_SO_ORDER_NO	Importing	<input type="checkbox"/>	<input type="checkbox"/>	Type	VBELN
RE_PDF_CONTENT	Returning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Type	XSTRING
		<input type="checkbox"/>	<input type="checkbox"/>	Type	
		<input type="checkbox"/>	<input type="checkbox"/>	Type	


**Test Method GET\_SALE\_ORDER\_FORM: Display Results**

TestObject->GET\_SALE\_ORDER\_FORM()

Case-Sensitive 

Runtime: 571,282 Microseconds

 GET\_SALE\_ORDER\_FORM

- Import Parameter
  - IM\_SO\_ORDER\_NO 5000014
- Result
  - RE\_PDF\_CONTENT  255044462D312E360D25E2E3CFD30D0A3135342030206F626A0A3C3C2F

2. Now Let us build a RAP Application using Web UI -> Since we do not have Create, update and other functionalities, I am not creating behavior definitions.

Create a new base View entity: ZI\_RAP\_SALE\_ORD

```
@AbapCatalog.viewEnhancementCategory: [#NONE]
@AccessControl.authorizationCheck: #NOT_REQUIRED
@EndUserText.label: 'Interface View for Sales Order'
@Metadata.ignorePropagatedAnnotations: true
@ObjectModel.usageType:{
  serviceQuality: #X,
  sizeCategory: #S,
  dataClass: #MIXED
}
define root view entity ZI_RAP_SALE_ORD
as select from I_SalesDocumentBasic
{
  key SalesDocument,
  SDDocumentCategory,
  SalesDocumentType,
  CreatedByUser,
  CreationDate
}
```

Create a Consumption View for the Above View Entity: ZC\_RAP\_SALE\_ORD

```
@AccessControl.authorizationCheck: #NOT_REQUIRED
@EndUserText.label: 'Consumption View for Sales Order'
@Metadata.allowExtensions: true
define root view entity ZC_RAP_SALE_ORD
provider contract transactional_query
as projection on ZI_RAP_SALE_ORD
{
  key SalesDocument,
  SDDocumentCategory,
  SalesDocumentType,
  CreatedByUser,
```

```
    CreationDate
}
```

Create a Metadata Extension file for the Consumption view: ZMDE\_RAP\_SALE\_ORD

We can also directly give annotations in consumption view itself, but as best practice I am creating a new file to have these Annotation properties.

```
@Metadata.layer: #CORE
@Search.searchable: true
@UI.headerInfo:{
  typeName: 'Sales Order',
  typeNamePlural: 'Sale Orders',
  title:{ type:#STANDARD,
    label:'Document' ,
    value:'SalesDocument'}
}
annotate view ZC_RAP_SALE_ORD with
{
  @UI:{ lineItem: [{ position : 10}] }
  @Search:{ defaultSearchElement: true,
    fuzzinessThreshold: 0.7 }
  SalesDocument;

  @UI:{ lineItem: [{ position : 20}],
    selectionField: [{ position : 20 }] }
  @Search:{ defaultSearchElement: true,
    fuzzinessThreshold: 0.7 }
  SDDocumentCategory;

  @UI:{ lineItem: [{ position : 30}] }
  @Search:{ defaultSearchElement: true,
    fuzzinessThreshold: 0.7 }
  SalesDocumentType;

  @UI:{ lineItem: [{ position : 40}],
    selectionField: [{ position : 40 }] }
  CreatedByUser;

  @UI:{ lineItem: [{ position : 50}],
    selectionField: [{ position : 50 }] }
  CreationDate;
}
```

Create a new service definition for the Consumption View: ZSDEF\_ZC\_RAP\_SALE\_ORD

```
@EndUserText.label: 'Service Definition for Sale Order'
```

```
define service ZSDEF_ZC_RAP_SALE_ORD {
  expose ZC_RAP_SALE_ORD;
}
```

Create a new Service Bindings for the Service Definition: ZBIND\_ZC\_RAP\_SALE\_ORD of binding type ODATA V2 - UI and publish it. We can get the Metadata using Service URL

**Service Binding: ZBIND\_ZC\_RAP\_SALE\_ORD**

**General Information**  
This section describes general information about this service binding  
Binding Type: OData V2 - UI

**Service Versions**  
Define service versions associated with the service binding

Version	Service Definition
1.0.0	ZSDEF_ZC_RAP_SALE_ORD

**Service Version Details**  
View information on selected service version

Local Service Endpoint: Published Unpublish

**Service Information**  
Service URL: /sap/opu/odata/sap/ZBIND\_ZC\_RAP\_SALE\_ORD

**Entity Set and Association**  
ZC\_RAP\_SALE\_ORD Preview...

Create a new Fiori Application in Business Application Studio, Open BTP in Trail account and make sure your system is configured in Destinations

**SAP BTP Cockpit**

**Subaccount: trial - Destinations**  
All: 2

Complete a 5-minute survey and help us improve your product experience! [https://sapinsights.eu.qualtrics.com/jfe/form/SV\\_7VZeD/YBFSHJCS?source=destination](https://sapinsights.eu.qualtrics.com/jfe/form/SV_7VZeD/YBFSHJCS?source=destination)

Type	Name	Basic Properties	Actions
HTTP	[Redacted]	Authentication: ProxyType URL	[Edit] [Copy] [Download] [Delete]
HTTP	[Redacted]	Authentication: ProxyType URL	[Edit] [Copy] [Download] [Delete]

**Check Connection**  
✓ Connection to [Redacted] successful Close

3. Create a new Fiori Application using the template and use our above ODATA V2-UI service in BAS

**SAP Fiori generator**

**Select Template and Target Location**  
SAP Fiori generator

**Template Selection**  
Template: List Report Page

**Data Source and Service Selection**  
Data Source: Connect to a System  
System: [Redacted]  
Service: ZBIND\_ZC\_RAP\_SALE\_ORD (1) - OData V2

**Entity Selection**  
Main Entity: ZC\_RAP\_SALE\_ORD  
Table Type: Responsive

**Project Attributes**  
Configure the main project attributes.

Module name: project1

Application title: App Title

Application namespace:

Description: An SAP Fiori application.

Project folder path: /home/user/projects

Minimum SAPUI5 version: 1.131.1

Enable TypeScript: ☒ Yes ☐ No

Add deployment configuration: ☒ Yes ☐ No

Add FLP configuration: ☐ Yes ☒ No

Back Finish The generated project will not open in a stand-alone folder.

Once the Project is created and all the dependencies is installed. You can preview the application by right click project1 and choose preview application -> start Fiori-run

The screenshot displays the SAP Fiori application preview interface. At the top, the browser address bar shows the URL: `port8080-workspaces-ws-4pdzq.us10.trial.applicationstudio.cloud.sap/test/f1pSandbox.html?sap-...`. Below the browser, the SAP Fiori shell is visible, including the SAP logo, the application title "App Title", and a user profile icon labeled "DU". The main content area features a filter bar with the following elements:

- A search input field with the placeholder text "Search".
- A filter for "SD Document Category" with a dropdown arrow.
- A filter for "Created By" with a dropdown arrow.
- A filter for "Created On" with a dropdown arrow.
- A "Go" button and an "Adapt Filters" button.

Below the filter bar, a table titled "Sale Orders (53)" is displayed. The table has the following columns: "Sales Document", "SD Documen...", "Sales Docum...", "Created By", and "Created On". The table contains 14 rows of data, each with a sales document number, a category code, a document type, a user name, and a creation date. Each row also includes a right-pointing arrow icon for further actions.

Sales Document	SD Documen...	Sales Docum...	Created By	Created On
1	C	OR	EWMUSER	Aug 26, 2024
2	C	OR	ABAPER1	Sep 2, 2024
3	C	OR	ABAPER1	Sep 4, 2024
4	C	OR	ABAPER1	Sep 17, 2024
5	C	OR	ABAPER1	Sep 18, 2024
6	C	OR	ABAPER1	Oct 1, 2024
7	C	OR	ABAPER1	Oct 1, 2024
8	C	OR	ABAPER1	Nov 13, 2024
9	C	OR	ABAPER1	Nov 13, 2024
10	C	OR	ABAPER1	Nov 13, 2024
11	C	OR	ABAPER1	Nov 18, 2024
12	C	OR	ABAPER1	Nov 18, 2024
13	C	OR	ABAPER1	Nov 19, 2024
14	C	OR	ABAPER1	Dec 5, 2024

Now our RAP Application is ready and separate form driver program is also ready. Let us see on how to integrate it. This Integration can be Done by the following two ways

- ➔ Using SEGW ODATA -> GET\_STREAM
- ➔ Using Custom View Entity that is implemented by ABAP class using Object model query

4. Create a New SEGW ODATA Project and Implement GET Stream method That consumes the common driver program and send back the content

Entity properties

Properties									
Name	Is Key	Edm T...	Prec.	Scale	Max L...	Unit Pr...	Creat...	Updat...	
docId	<input checked="" type="checkbox"/>	Edm.St...	0	0	0		<input type="checkbox"/>	<input type="checkbox"/>	
value	<input type="checkbox"/>	Edm.St...	0	0	0		<input type="checkbox"/>	<input type="checkbox"/>	
contentType	<input type="checkbox"/>	Edm.St...	0	0	0		<input type="checkbox"/>	<input type="checkbox"/>	
fileName	<input type="checkbox"/>	Edm.St...	0	0	0		<input type="checkbox"/>	<input type="checkbox"/>	

GET Stream Code:

""->Read Document ID from input

```
DATA(lv_doc) = VALUE numc10( IT_KEY_TAB[ name = 'docId' ]-value OPTIONAL ).
```

""->Call Form Driver Program to get the Form Content

```
DATA(lv_form_content) = new ZCL_SALE_ORDER_PDF()->GET_SALE_ORDER_FORM(
    im_so_order_no = conv #( lv_doc ) ).
```

""->Build Document Name and Set it in Header

```
set_header( is_header = VALUE #( name = 'Content-Disposition'
    value = |inline; filename={ lv_doc };| ) ).
```

copy\_data\_to\_ref( exporting

```
is_data = VALUE /IWFND/IF_MGW_CORE_RUNTIME=>TY_S_MEDIA_RESOURCE(
    mime_type = 'application/pdf'
    value = lv_form_content )
```

changing

```
cr_data = er_stream ).
```

Testing the SEGW ODATA Service

**SAP Gateway Client**

Execute Select Service Administration Service Implementation Switch User Entity Set Add URI Option

HTTP Method: GET POST PUT PATCH MERGE DELETE HEAD

Request URI: /sap/opu/odata/sap/ZODATA\_TRAIN\_SRV/SaleOrderDocumentSet('5000014')/\$value

Protocol: HTTP HTTPS Test Group Test Case

Multiple Rows

HTTP Request

Header Name	Value
~status_code	200
~status_reason	OK
sap-processing-info	ODatabEP=,crp=,RAL=,st=,MedCacheHub=Table,codeployed=X,softstate=
cache-control	no-store, no-cache
content-disposition	inline; filename=0005000014;

HTTP Response - Processing Time = 513 ms

1

Sales Document: 5000014 Sales Group: SD Document Category: J3GP

Material	Material Group	Material Name	Order Quantity	Order Quantity Unit	Sales Document	Sales Document Item	Sales Document Item Category	Sales Document Item Type
52		In operation	5	H	5000014	10	J3GP	
52		In operation	1	H	5000014	20	J3GP	
52		In operation	1	H	5000014	30	J3GP	

Add the Following line in the Interface View: ZI\_RAP\_SALE\_ORD

We are adding two fields

ShowPDF -> Has the text Preview(SEGW) in the table

LinkToPDF -> Get Stream Link to be used to navigate as link to open PDF File

Lines:

```
'Preview(SEGW)' as ShowPDF,  
concat('/sap/opu/odata/sap/ZODATA_TRAIN_SRV/SaleOrderDocumentSet(',  
    concat(SalesDocument, ')/$value')) as LinkToPDF
```

```
~ ,  
0 define root view entity ZI_RAP_SALE_ORD  
1 as select from I_SalesDocumentBasic  
2 {  
3     key SalesDocument,  
4         SDDocumentCategory,  
5         SalesDocumentType,  
6         CreatedByUser,  
7         CreationDate,  
8         'Preview(SEGW)' as ShowPDF,  
9         concat('/sap/opu/odata/sap/ZODATA_TRAIN_SRV/SaleOrderDocumentSet('',  
0         concat(SalesDocument, ')/$value')) as LinkToPDF  
1     }  
2
```

Add the Following highlighted Line in the Consumption view ZC\_RAP\_SALE\_ORD to expose the fields

```
@AccessControl.authorizationCheck: #NOT_REQUIRED  
@EndUserText.label: 'Consumption View for Sales Order'  
@Metadata.allowExtensions: true  
define root view entity ZC_RAP_SALE_ORD  
provider contract transactional_query  
as projection on ZI_RAP_SALE_ORD  
{  
    key SalesDocument,  
    SDDocumentCategory,  
    SalesDocumentType,  
    CreatedByUser,  
    CreationDate,  
    ShowPDF,  
    LinkToPDF  
}
```

Add the Following Lines in the Metadata extension file to establish the link to:

```
@UI:{  
    lineItem: [{ position : 60, label : 'PDF'}, { type : #WITH_URL, url:'LinkToPDF' }]  
}  
ShowPDF;
```

```

@Metadata.layer: #CORE
@Search.searchable: true
@UI.headerInfo:{
  typeName: 'Sales Order',
  typeNamePlural: 'Sale Orders',
  title:{ type:#STANDARD,
    label:'Document' ,
    value:'SalesDocument'}
}
}
annotate view ZC_RAP_SALE_ORD with
{
  @UI:{ lineItem: [{ position : 10}] }
  @Search:{ defaultSearchElement: true,
    fuzzinessThreshold: 0.7 }
  SalesDocument;

  @UI:{ lineItem: [{ position : 20}],
    selectionField: [{ position : 20 }] }
  @Search:{ defaultSearchElement: true,
    fuzzinessThreshold: 0.7 }
  SDDocumentCategory;

  @UI:{ lineItem: [{ position : 30}] }
  @Search:{ defaultSearchElement: true,
    fuzzinessThreshold: 0.7 }
  SalesDocumentType;

  @UI:{ lineItem: [{ position : 40}],
    selectionField: [{ position : 40 }] }
  CreatedByUser;

  @UI:{ lineItem: [{ position : 50}],
    selectionField: [{ position : 50 }] }
  CreationDate;
  @UI:{
    lineItem: [{ position : 60, label : 'PDF'}, { type : #WITH_URL, url:'LinkToPDF' }]
  }
  ShowPDF;
}

```

Testing the RAP Application- Now we can see the New Field as clickable link

**andard** ▾

arch

Q

SD Document Category:

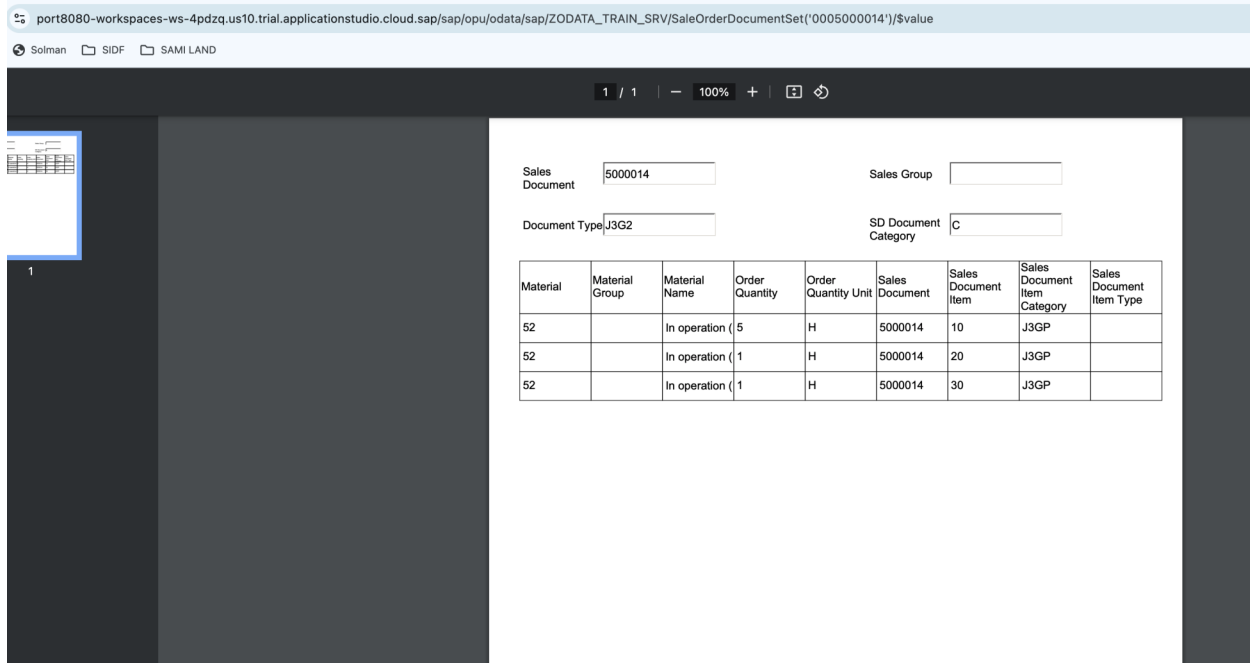
Created By:

ale Orders (53)

Sales Document	SD Documen...	Sales Docum...	Created By	Created On	PDF	
1	C	OR	EWMUSER	Aug 26, 2024	<a href="#">Preview(SEGW)</a>	>
2	C	OR	ABAPER1	Sep 2, 2024	<a href="#">Preview(SEGW)</a>	>
3	C	OR	ABAPER1	Sep 4, 2024	<a href="#">Preview(SEGW)</a>	>
4	C	OR	ABAPER1	Sep 17, 2024	<a href="#">Preview(SEGW)</a>	>
5	C	OR	ABAPER1	Sep 18, 2024	<a href="#">Preview(SEGW)</a>	>
6	C	OR	ABAPER1	Oct 1, 2024	<a href="#">Preview(SEGW)</a>	>
7	C	OR	ABAPER1	Oct 1, 2024	<a href="#">Preview(SEGW)</a>	>
8	C	OR	ABAPER1	Nov 13, 2024	<a href="#">Preview(SEGW)</a>	>
9	C	OR	ABAPER1	Nov 13, 2024	<a href="#">Preview(SEGW)</a>	>
10	C	OR	ABAPER1	Nov 13, 2024	<a href="#">Preview(SEGW)</a>	>
11	C	OR	ABAPER1	Nov 18, 2024	<a href="#">Preview(SEGW)</a>	>
12	C	OR	ABAPER1	Nov 18, 2024	<a href="#">Preview(SEGW)</a>	>
13	C	OR	ABAPER1	Nov 19, 2024	<a href="#">Preview(SEGW)</a>	>
14	C	OR	ABAPER1	Dec 5, 2024	<a href="#">Preview(SEGW)</a>	>
15	C	OR	ABAPER1	Dec 11, 2024	<a href="#">Preview(SEGW)</a>	>
16	C	OR	ABAPER1	Dec 11, 2024	<a href="#">Preview(SEGW)</a>	>



On clicking the Link, the SEGW Service is called and PDF is shown



## 5. Using Custom View Entity that is implemented by ABAP class using Object model query

Create a new Custom View Entity: ZI\_SALE\_ORDER\_PDF

@EndUserText.label: 'Sale Order PDF'

@ObjectModel.query.implementedBy: 'ABAP:ZCL\_SALE\_ORDER\_PDF'

**define custom entity** ZI\_SALE\_ORDER\_PDF

**with parameters**

p\_so\_document\_id : vbeln

```
{
  key so_doc_pdf : abap.string(0);
}
```

Create a new Class : ZCL\_SALE\_ORDER\_PDF and use interface

IF RAP\_QUERY\_PROVIDER and redefine the Select method

**class** ZCL\_SALE\_ORDER\_PDF **definition**

public

final

create public .

public section.

interfaces IF\_RAP\_QUERY\_PROVIDER .

PROTECTED SECTION.

PRIVATE SECTION.

**ENDCLASS**;

**CLASS** ZCL\_SALE\_ORDER\_PDF **IMPLEMENTATION**.

**METHOD** if\_rap\_query\_provider~select.

""->Internal Table Declaration

```
DATA : lt_pdf TYPE TABLE OF zi_sale_order_pdf.
```

```
""->Object Declaration
```

```
DATA : lo_somu_form_services TYPE REF TO cl_somu_form_services.
```

```
DATA : lv_form_out TYPE string.
```

```
TRY.
```

```
IF io_request->is_data_requested( ).
```

```
DATA(lv_offset) = io_request->get_paging( )->get_offset( ).
```

```
DATA(lv_page_size) = io_request->get_paging( )->get_page_size( ).
```

```
DATA(lv_max_rows) = COND #( WHEN lv_page_size = if_rap_query_paging=>page_size_unlimited  
THEN 0 ELSE lv_page_size ) .
```

```
DATA(lt_params) = io_request->get_parameters( ).
```

```
""->Take the Input Parameter Name from Custom Entity which is using this ABAP Class
```

```
DATA(lv_so_doc_id) = VALUE numc10(
```

```
lt_params[ parameter_name = 'P_SO_DOCUMENT_ID' ]-value OPTIONAL ).
```

```
""->Call the PDF Content Common Driver Method
```

```
data(lv_so_form) = get_sale_order_form( im_so_order_no = conv #( lv_so_doc_id ) ).
```

```
IF lv_so_form IS NOT INITIAL.
```

```
""->Convert Xstring to Base64
```

```
CALL FUNCTION 'SCMS_BASE64_ENCODE_STR'
```

```
EXPORTING
```

```
input = lv_so_form
```

```
IMPORTING
```

```
output = lv_form_out.
```

```
ENDIF.
```

```
lt_pdf = VALUE #( ( so_doc_pdf = lv_form_out ) ).
```

```
io_response->set_total_number_of_records( 1 ).
```

```
io_response->set_data( lt_pdf ).
```

```
ENDIF.
```

```
CATCH cx_rap_query_provider.
```

```
ENDTRY.
```

```
ENDMETHOD.
```

```
ENDCLASS.
```

Create a new Service Definition for the Custom Entity: ZSDEF\_SALE\_ORD\_PDF

@EndUserText.label: 'Service Definition for Sale Order PDF'

```
define service ZSDEF_SALE_ORD_PDF {  
  expose ZI_SALE_ORDER_PDF;  
}
```

Create a new Service binding for the Custom Entity of type ODATA V2 Web API and publish it

Service Binding: ZBIND\_SALE\_ORD\_PDF

General Information  
This section describes general information about this service binding  
Binding Type: OData V2 - Web API

Service Versions  
Define service versions associated with the service binding  
type filter text

Version	API State	Service Definition
1.0.0	Not Released	ZSDEF_SALE_ORD_PDF

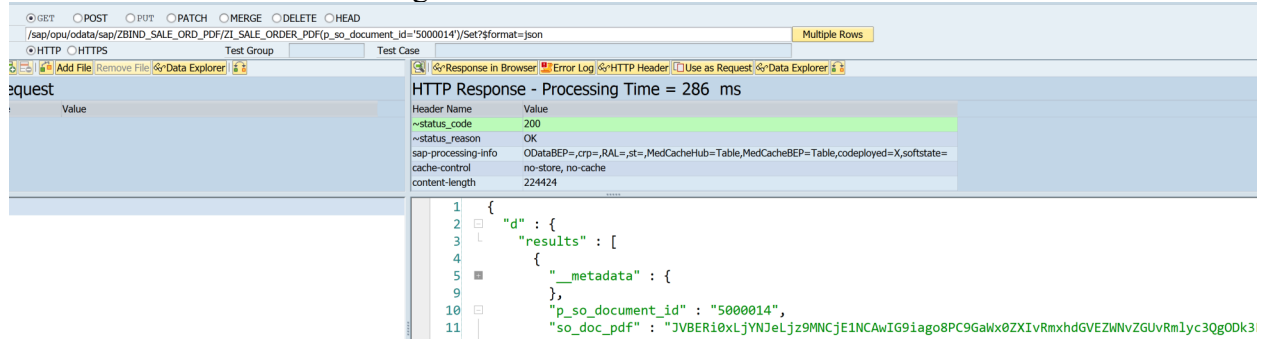
Add...  
Remove

Service Version Details  
View information on selected service version  
Local Service Endpoint: Published Unpublish

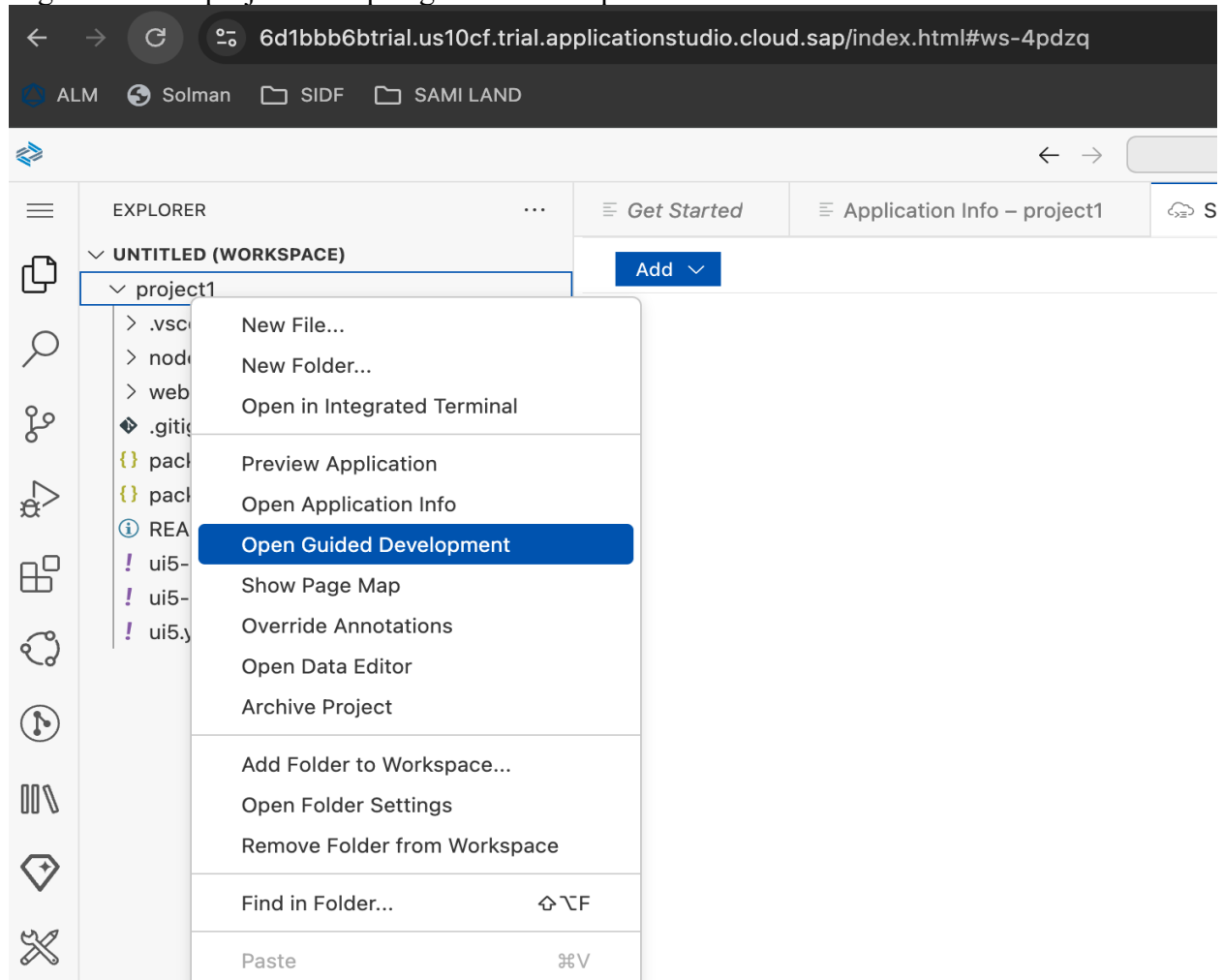
Service Information  
Service URL: /sap/opu/odata/sap/ZBIND\_SALE\_ORD\_PDF  
type filter text

Entity Set and Association  
ZI\_SALE\_ORDER\_PDFSet

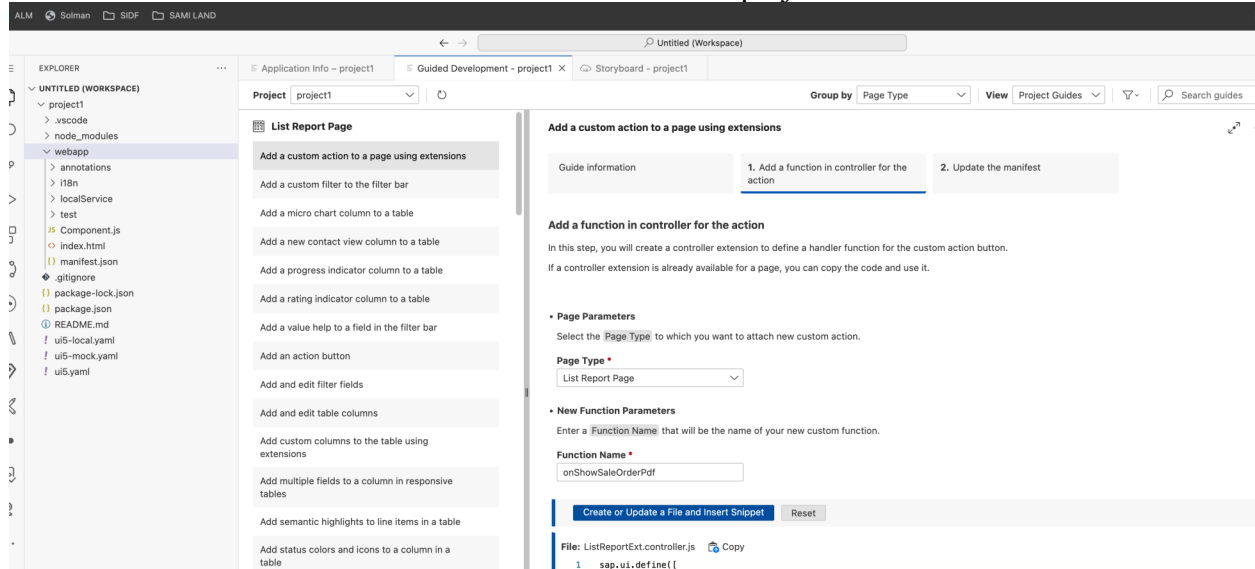
## Test the Service Definition using Service URL:



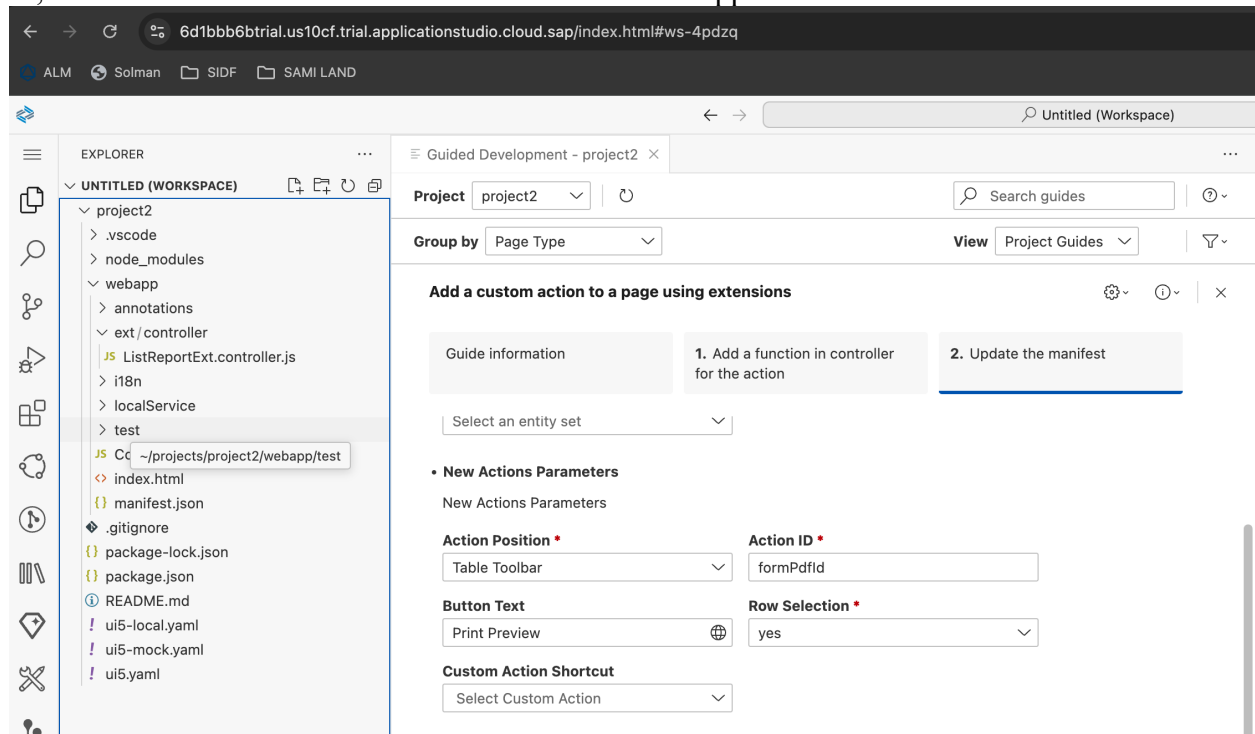
Since we get the Data in Base64 format we need to create an extension in the UI application. Right Click the project and open guided Development



Choose the “1. Add Custom Action to page Using Extensions”, then give the Function Name and click on create. This will add a new Controller file in the project



Now Choose the “2. Update the manifest”, then give the Entity Set as the root entity set, Action Id, Row selection and Button text. Then click insert snippet



Extensions will be added by guided development in manifest file

```
    },
    "extends": {
      "extensions": {
        "sap.ui.controllerExtensions": {
          "sap.suite.ui.generic.template.ListReport.view.ListReport": {
            "controllerName": "project3.ext.controller.ListReportExt",
            "sap.ui.generic.app": {
              "ZC_RAP_SALE_ORD": {
                "EntitySet": "ZC_RAP_SALE_ORD",
                "Actions": {
                  "formPdfId": {
                    "id": "formPdfIdButton",
                    "text": "Print Preview",
                    "press": "onShowSaleOrderPdf",
                    "requiresSelection": true
                  }
                }
              }
            }
          }
        }
      }
    }
  }
}
```

Need to add the following lines in the Manifest.json file

->In the dataSources property:

```
    },
    "dataSources": [
      {
        "mainService": {
          "uri": "/sap/opu/odata/sap/ZBIND_ZC_RAP_SALE_ORD/",
          "type": "OData",
          "settings": {
            "annotations": [
              "ZBIND_ZC_RAP_SALE_ORD_VAN",
              "annotation"
            ],
            "localUri": "localService/metadata.xml",
            "odataVersion": "2.0"
          }
        },
        "ZBIND_ZC_RAP_SALE_ORD_VAN": {
          "uri": "/sap/opu/odata/IWFND/CATALOGSERVICE;v=2/Annotations(TechnicalName='ZBIND_ZC_RAP_SALE_ORD_VAN',Version='0001')/$value/",
          "type": "ODataAnnotation",
          "settings": {
            "localUri": "localService/ZBIND_ZC_RAP_SALE_ORD_VAN.xml"
          }
        },
        "ZBIND_SALE_ORD_PDF": {
          "uri": "/sap/opu/odata/sap/ZBIND_SALE_ORD_PDF",
          "type": "OData",
          "settings": {
            "localUri": "localService/ZBIND_SALE_ORD_PDF/metadata.xml"
          }
        }
      ],
      {
        "annotation": {
          "type": "ODataAnnotation",
          "uri": "annotations/annotation.xml",
          "settings": {
            "localUri": "annotations/annotation.xml"
          }
        }
      }
    ]
  }
}
```

->In the models property:

```
manifest.json ×
bapp > {} manifest.json > {} sap.ui5 > {} models
'sap.ui5': {
  },
  "models": {
    "i18n": {
      "type": "sap.ui.model.resource.ResourceModel",
      "settings": {
        "bundleName": "project4.i18n.i18n"
      }
    },
    "": {
      "dataSource": "mainService",
      "preload": true,
      "settings": {
        "defaultBindingMode": "TwoWay",
        "defaultCountMode": "Inline",
        "refreshAfterChange": false,
        "metadataUrlParams": {
          "sap-value-list": "none"
        }
      }
    }
  },
  "oPdfModel":{
    "dataSource": "ZBIND_SALE_ORD_PDF",
    "preload": true,
    "type": "sap.ui.model.odata.v2.ODataModel",
    "settings": {
      "defaultBindingMode": "TwoWay",
      "defaultOperationModel": "Server",
      "defaultCountMode": "Request",
      "useBatch":"false"
    }
  },
  "@i18n": {
    "type": "sap.ui.model.resource.ResourceModel",
    "uri": "i18n/i18n.properties"
  }
}
```

We can write out custom code in the added Controller file to open PDF Preview  
To get the PDF data from RAP ODATA Web API

```

4
5 ], function (MessageToast,PDFViewer) {
6     'use strict';
7     return {
8         getPdffromOdata: function () {
9             var oModel = this.getView().getModel("oPdfModel");
10            var oGrid = this.getView().byId("project4::sap.suite.ui.generic.template.ListReport.view.ListReport::ZC_RAP_SALE_ORD--responsiveTable");
11            // get Sales Order from selected index
12            var saleDocument = oGrid.getSelectedItem().getBindingContext().getObject().SalesDocument;
13            return new Promise((resolve, reject) => {
14                // Perform Read operation and pass billingdoc as parameter to URL
15                oModel.read("/ZI_SALE_ORDER_PDF(p_so_document_id='" + saleDocument + ")/Set",
16                    {
17                        success: function (oData, Response) {
18                            resolve(oData);
19                        },
20                        error: function (oError) {
21                            reject(oError);
22                        }
23                    });
24            });
25        },
26        onShowSaleOrderPdf: async function (oEvent) {

```

### ListReportExt.controller.js

```

sap.ui.define([
    "sap/m/MessageToast",
    "sap/m/PDFViewer"
], function (MessageToast,PDFViewer) {
    'use strict';
    return {
        getPdffromOdata: function () {
            var oModel = this.getView().getModel("oPdfModel");
            var oGrid =
this.getView().byId("project4::sap.suite.ui.generic.template.ListReport.view.ListReport::ZC_RAP_SALE_ORD--responsiveTable");
            // get Sales Order from selected index
            var saleDocument = oGrid.getSelectedItem().getBindingContext().getObject().SalesDocument;
            return new Promise((resolve, reject) => {
                // Perform Read operation and document number as parameter to URL
                oModel.read("/ZI_SALE_ORDER_PDF(p_so_document_id='" + saleDocument + ")/Set",
                    {
                        success: function (oData, Response) {
                            resolve(oData);
                        },
                        error: function (oError) {
                            reject(oError);
                        }
                    }
                );
            });
        },
        onShowSaleOrderPdf: async function (oEvent) {
            var opdfViewer = new PDFViewer();

```

You can select any Sale order to enable the Print Preview button and click it to open the PDF file



**Standard** ▾

No filters active

Sale Orders (53) <span>▾</span>						<a href="#">Print Preview</a>					
	Sales Document	SD Documen...	Sales Docum...	Created By	Created On						
<input type="radio"/>	35	C	CMR	ABAPER1	Jan 19, 2025	>					
<input type="radio"/>	36	C	CMR	ABAPER1	Jan 19, 2025	>					
<input type="radio"/>	37	C	CMR	ABAPER1	Jan 19, 2025	>					
<input type="radio"/>	38	C	CMR	ABAPER1	Jan 19, 2025	>					
<input type="radio"/>	39	C	OR	EWMUSER	Jan 27, 2025	>					
<input type="radio"/>	5000001	C	J3G1	ABAPER1	Sep 13, 2024	>					
<input type="radio"/>	5000002	C	J3G1	ABAPER1	Sep 13, 2024	>					
<input type="radio"/>	5000003	C	J3G2	ABAPER1	Sep 13, 2024	>					
<input type="radio"/>	5000004	C	J3G1	ABAPER1	Sep 13, 2024	>					
<input type="radio"/>	5000005	C	J3G2	ABAPER1	Sep 13, 2024	>					
<input type="radio"/>	5000006	C	J3G1	ABAPER1	Sep 13, 2024	>					
<input type="radio"/>	5000007	C	J3G2	ABAPER1	Sep 13, 2024	>					
<input type="radio"/>	5000008	C	J3G1	ABAPER1	Sep 13, 2024	>					
<input type="radio"/>	5000009	C	J3G2	ABAPER1	Sep 13, 2024	>					
<input type="radio"/>	5000010	C	J3G1	ABAPER1	Sep 13, 2024	>					
<input type="radio"/>	5000011	C	J3G2	ABAPER1	Sep 13, 2024	>					
<input type="radio"/>	5000012	C	J3G1	SEDDE	Sep 26, 2024	>					
<input type="radio"/>	5000013	C	J3G1	SEDDE	Sep 30, 2024	>					
<input checked="" type="radio"/>	5000014	C	J3G2	SEDDE	Sep 30, 2024	>					



App Title ▾

Standard ▾

Filters active



Sale Orders (53)

Print Preview



Sales Document	SD Documen...	Sales Docum...	Created By	Created On	
35	C	CMR	ABAPER1	Jan 19, 2025	>
36	C	CMR	ABAPER1	Jan 19, 2025	>
37	C	CMR	ABAPER1	Jan 19, 2025	>
38	C	CMR	ABAPER1	Jan 19, 2025	>
39	C	OR	EWMUSER	Jan 27, 2025	>
5000001	C	J3			>
5000002	C	J3			>
5000003	C	J3			>
5000004	C	J3G1	ABAPER1	Sep 13, 2024	>
5000005	C	J3G2	ABAPER1	Sep 13, 2024	>
5000006	C	J3G1	ABAPER1	Sep 13, 2024	>
5000007	C	J3G2	ABAPER1	Sep 13, 2024	>
5000008	C	J3G1	ABAPER1	Sep 13, 2024	>
5000009	C	J3G2	ABAPER1	Sep 13, 2024	>

Generating Form...



Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Class: \_\_\_\_\_ Roll No.: \_\_\_\_\_  
 Teacher: \_\_\_\_\_

Sl. No.	Topic	Chapter	Page No.	Page No.	Page No.	Page No.	Page No.
1	Introduction	1	2	3	4	5	6
2	Chapter 1	7	8	9	10	11	12
3	Chapter 2	13	14	15	16	17	18
4	Chapter 3	19	20	21	22	23	24
5	Chapter 4	25	26	27	28	29	30
6	Chapter 5	31	32	33	34	35	36
7	Chapter 6	37	38	39	40	41	42
8	Chapter 7	43	44	45	46	47	48
9	Chapter 8	49	50	51	52	53	54
10	Chapter 9	55	56	57	58	59	60
11	Chapter 10	61	62	63	64	65	66
12	Chapter 11	67	68	69	70	71	72
13	Chapter 12	73	74	75	76	77	78
14	Chapter 13	79	80	81	82	83	84
15	Chapter 14	85	86	87	88	89	90
16	Chapter 15	91	92	93	94	95	96
17	Chapter 16	97	98	99	100	101	102
18	Chapter 17	103	104	105	106	107	108
19	Chapter 18	109	110	111	112	113	114
20	Chapter 19	115	116	117	118	119	120
21	Chapter 20	121	122	123	124	125	126
22	Chapter 21	127	128	129	130	131	132
23	Chapter 22	133	134	135	136	137	138
24	Chapter 23	139	140	141	142	143	144
25	Chapter 24	145	146	147	148	149	150
26	Chapter 25	151	152	153	154	155	156
27	Chapter 26	157	158	159	160	161	162
28	Chapter 27	163	164	165	166	167	168
29	Chapter 28	169	170	171	172	173	174
30	Chapter 29	175	176	177	178	179	180
31	Chapter 30	181	182	183	184	185	186
32	Chapter 31	187	188	189	190	191	192
33	Chapter 32	193	194	195	196	197	198
34	Chapter 33	199	200	201	202	203	204
35	Chapter 34	205	206	207	208	209	210
36	Chapter 35	211	212	213	214	215	216
37	Chapter 36	217	218	219	220	221	222
38	Chapter 37	223	224	225	226	227	228
39	Chapter 38	229	230	231	232	233	234
40	Chapter 39	235	236	237	238	239	240
41	Chapter 40	241	242	243	244	245	246
42	Chapter 41	247	248	249	250	251	252
43	Chapter 42	253	254	255	256	257	258
44	Chapter 43	259	260	261	262	263	264
45	Chapter 44	265	266	267	268	269	270
46	Chapter 45	271	272	273	274	275	276
47	Chapter 46	277	278	279	280	281	282
48	Chapter 47	283	284	285	286	287	288
49	Chapter 48	289	290	291	292	293	294
50	Chapter 49	295	296	297	298	299	300

1

Sales Group 

SD Document Category C

Material	Material Group	Material Name	Order Quantity	Order Quantity Unit	Sales Document	Sales Document Item	Sales Document Item Category	Sales Document Item Type
52		In operation (	5	H	5000014	10	J3GP	
52		In operation (	1	H	5000014	20	J3GP	
52		In operation (	1	H	5000014	30	J3GP	