

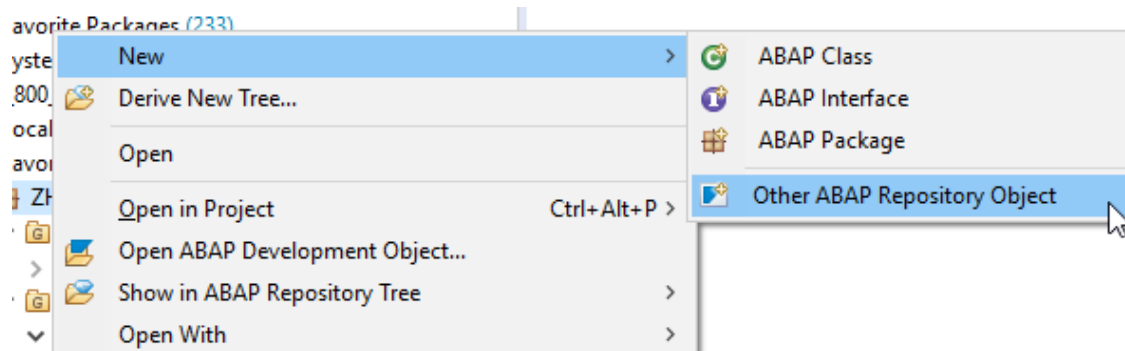
List Report

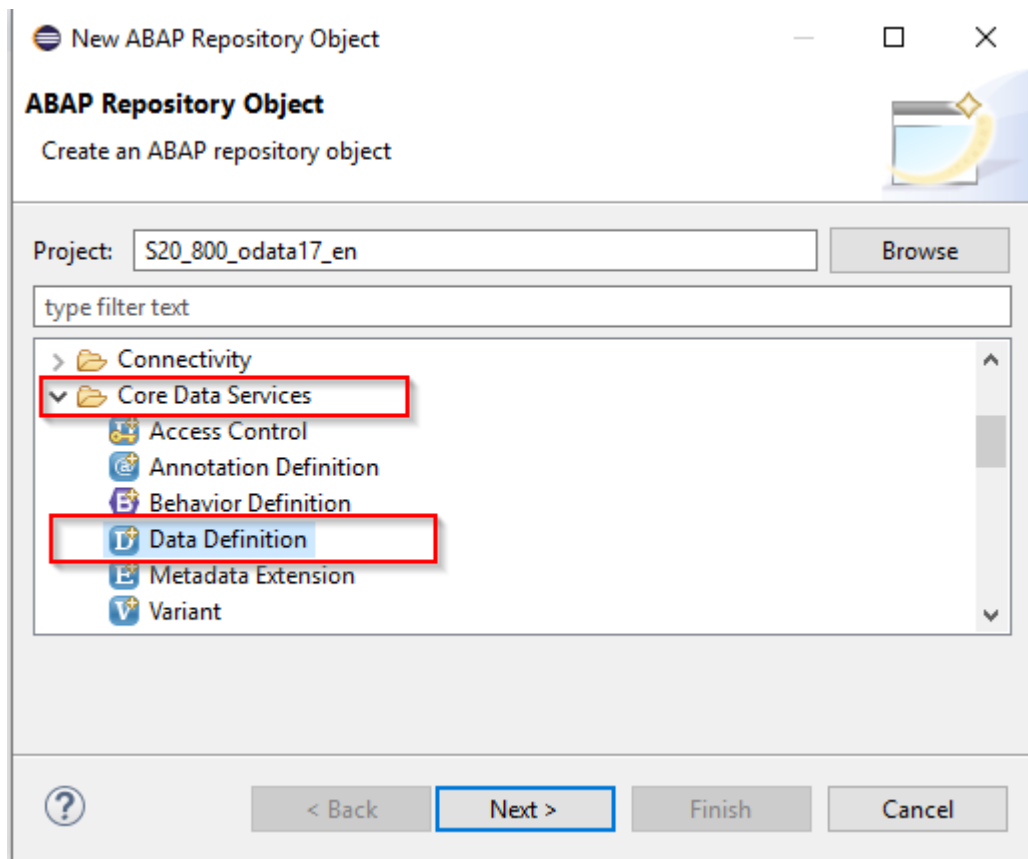
- It has a specific floor plan.
- List report look and feel cannot be changed, it has a specific format in which the app will be displayed.
- The development time for this is quite faster (10x) as compared to Custom UI5 App Development.
- All the list reports will be responsive in all the devices (Mobile, Tablet and Desktop).
- Developer does not have to put separate efforts to make it responsive.

Open Eclipse and connect SAP system.

Follow below steps:

Setup ABAP System and Add your package or Create your package -> after that Right click on Project





New Data Definition

Data Definition
Create a data definition

Project: * S20_800_odata17_en Browse...

Package: * ZH17 Browse...

☐ Add to favorite packages

Name: * zh17_second_cds 1

Description: * CDS View for CDS AN 2

Original Language: EN

3

< Back Next > Finish Cancel

Select you TR and Next and Finish.

System will generate below code automatically.

```
@AbapCatalog.sqlViewName: 'sql_view_name'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'CDS View for CDS AN'
define view zh17_second_cds as select from data_source_name {
}
```

Changed above code for generate odata abap services automatically in SAP System.

```
@AbapCatalog.sqlViewName: 'ZH17_CDS_D'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@OData.publish: true
@AccessControl.authorizationCheck: #CHECK
```

```
@EndUserText.label: 'CDS View for CDS AN'

define view zh17_second_cds as select from mara {

key matnr,
@UI.lineItem: [{ position: 10 }]
mtart,
@UI.lineItem: [{ position: 20 }]
matkl

}
```

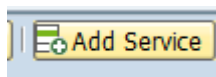
After done above code please activate the code and you will find active status in header bar and you can press F8 for see the output.

Open your SAP HANA System and you will find system will have created above highlighted SQL view name .

View field	Table	Field	Key	Data elem.	M...	DTyp	Length	Short description
MANDT	MARA	MANDT	<input checked="" type="checkbox"/>	MANDT	<input type="checkbox"/>	CLNT	3	Client
MATNR	MARA	MATNR	<input checked="" type="checkbox"/>	MATNR	<input type="checkbox"/>	CHAR	40	Material Number
MTART	MARA	MTART	<input type="checkbox"/>	MTART	<input type="checkbox"/>	CHAR	4	Material type
MATKL	MARA	MATKL	<input type="checkbox"/>	MATKL	<input type="checkbox"/>	CHAR	9	Material Group
			<input type="checkbox"/>		<input type="checkbox"/>			
			<input type="checkbox"/>		<input type="checkbox"/>			
			<input type="checkbox"/>		<input type="checkbox"/>			
			<input type="checkbox"/>		<input type="checkbox"/>			
			<input type="checkbox"/>		<input type="checkbox"/>			
			<input type="checkbox"/>		<input type="checkbox"/>			
			<input type="checkbox"/>		<input type="checkbox"/>			
			<input type="checkbox"/>		<input type="checkbox"/>			
			<input type="checkbox"/>		<input type="checkbox"/>			
			<input type="checkbox"/>		<input type="checkbox"/>			

Now Open /N/IWFND/MAINT_SERVICE T-Code

Click on



Give System Alias and External Service Name:

Add Selected Services

Get Services

Filter

System Alias

Technical Service Name

External Service Name

☐ Co-Deployed

Version

External Mapping ID

Select Backend Services

Type	Technical Service Name	Version	Service Description	External Service Name
------	------------------------	---------	---------------------	-----------------------

External Service name would be your CDS view name which you gave at the time of creation

zh17_second_cds -> In this name you have to add **_cds** for Odata Service Name.

Add Selected Services

Get Services

Filter

System Alias 1

Technical Service Name

External Service Name 2

☐ Co-Deployed

Version

External Mapping ID

Select Backend Services

Type	Technical Service Name	Version	Service Description	External Service Name	Namespace
BEP	ZH17_SECOND_CDS_CDS	1	CDS View for CDS AN	ZH17_SECOND_CDS_CDS	

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Add Service

Service

Technical Service Name: ZH17_SECOND_CDS_CDS

Service Version: 1

Description: CDS View for CDS AN

External Service Name: ZH17_SECOND_CDS_CDS

Namespace:

External Mapping ID:


External Data Source Type: C

Model

Technical Model Name: ZH17_SECOND_CDS_CDS

Model Version: 1

Creation Information

Package Assignment: YATC_DEVELOPMENT 

Local Object

ICF Node

☒ Standard Mode ☐ None

☒ Set Current Client as Default Client in ICF Node

OAuth enablement

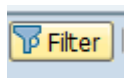
☐ Enable OAuth for Service

Give your package name and click on continue and assign the TR.

For find your service which you have added in Odata Services

Now Open /N/IWFND/MAINT_SERVICE T-Code

Click on Filter Button-> External Service Name ->



Filter for Service Catalog

Technical Service Name:

Version:

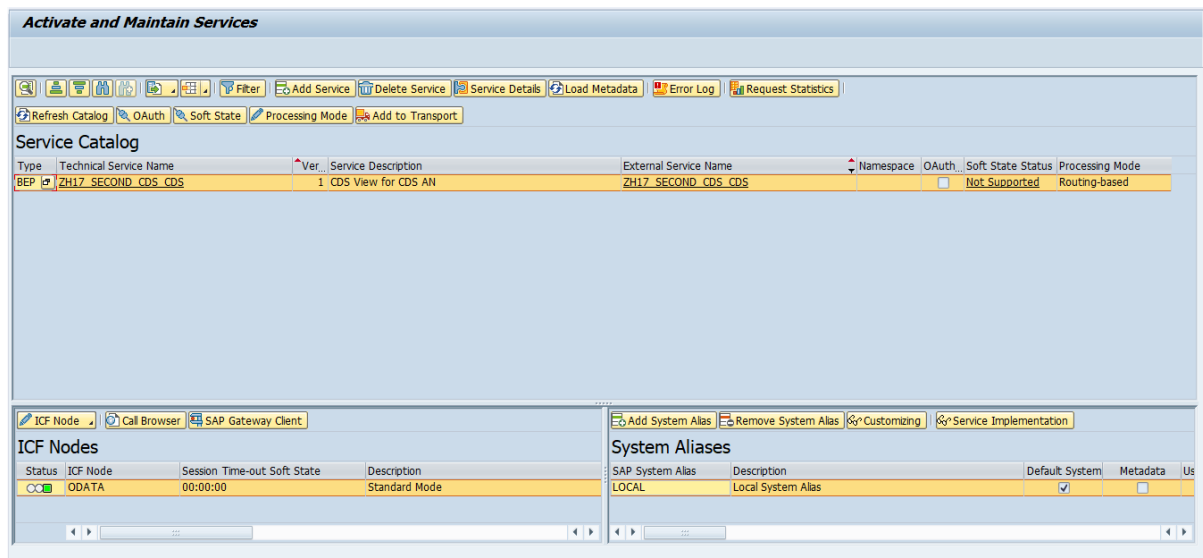
Description:

External Service Name: zh17_second_cds_cds

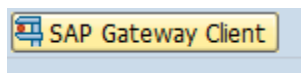
Namespace:

External Mapping ID:

Press Enter



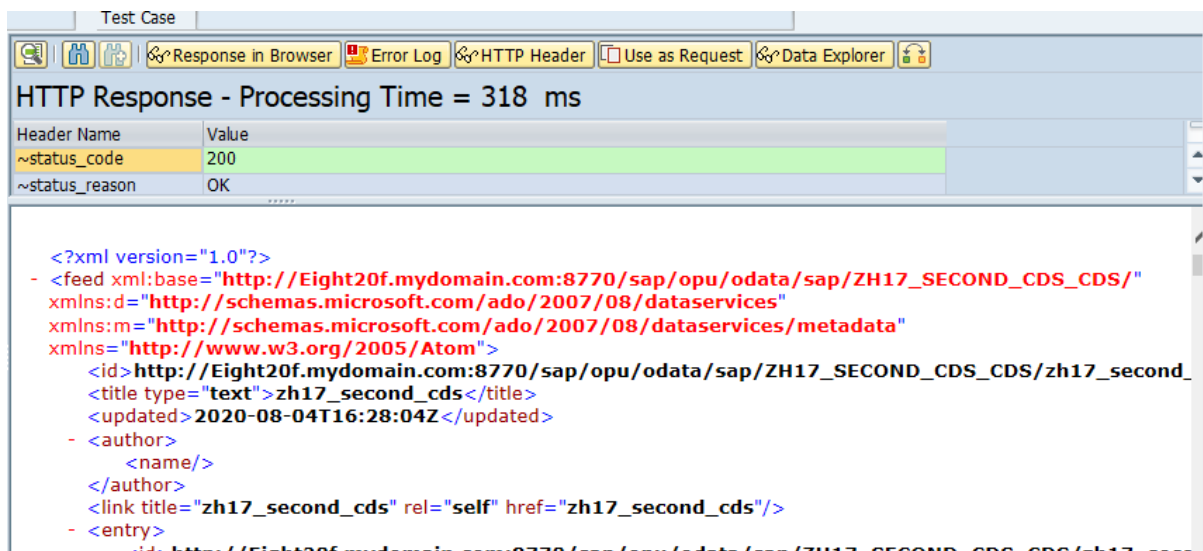
For test the service, Press SAP Gateway Client Button



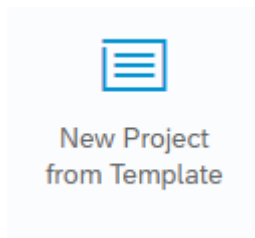
Click on below button and select the entity set



And Execute the service



All things done ABAP side and Eclipse Side, Now It's Time to open SAP WEBIDE and create a project here.



New List Report Application Template Selection

Search

Environment

Category

Sort By

SAPUI5 Version

Analytical List Page/

List Report Application

Overview Page

Next -> Give Project Name and Title

New List Report Application Basic Information

Project Name*

App Descriptor Data

Title*

Namespace

Description

Next->

New List Report Application

Data Connection

Choose a service from one of the sources listed below.

Service Catalog
Workspace
File System
Service URL
SAP API Business ...

SAP TAPD - SAP TAPD

Services **ZH17_SECOND_CDS_CDS** ⓧ Show Details

Service	Description	System
> Ⓜ ZH17_SECOND_CDS_CDS	CDS View for CDS	

Previous

Next

Select your connected SAP system and Search your OData ABAP Services, Select and Click on Next

New List Report Application

Annotation Selection

Select the desired annotation files and rank them in the order in which they will be loaded.

Note: If the annotation files overlap, the one loaded last will overwrite the previous ones.

The selected service contains annotation data.

+ Add Annotation Files

<input checked="" type="checkbox"/>	Rank	Name	Source
<input checked="" type="checkbox"/>	1	ZH17_SECOND_CDS_CDS_VAN	Remote

Previous

Next

Template Selection Basic Information Data Connection Annotation Selection **Template Customization** Confirmation

New List Report Application

Template Customization

Data Binding

OData Collection* **zh17_second_cds**

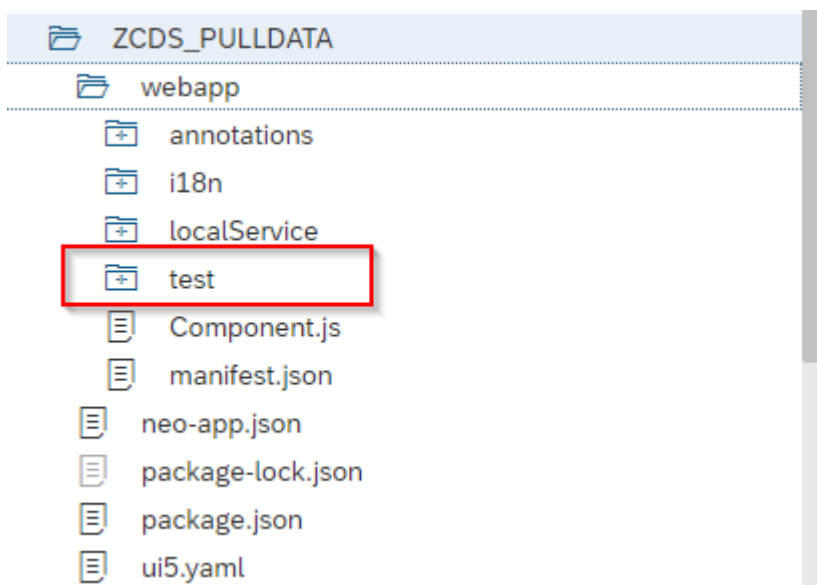
OData Navigation *OData navigation attribute to a collection of it*

OData Sub Navigation *OData navigation attribute to a collection of it*

Variant Management... ☒ Enable Page Variant
☐ Disable Variants

Previous **Next** Finish

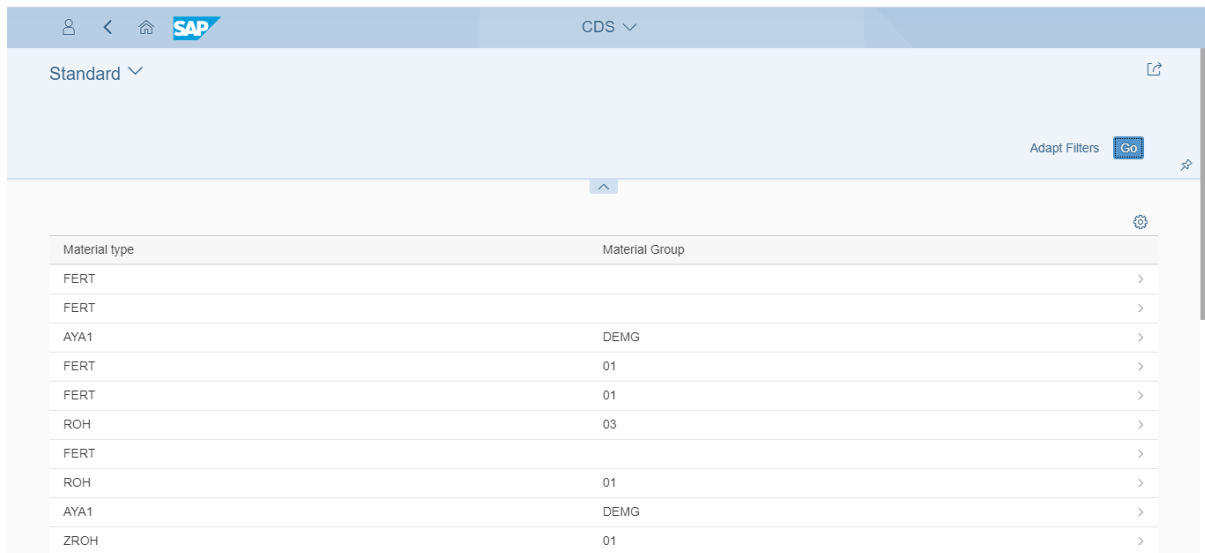
Next-> Finish.



Select Test folder and delete.

Select Component.JS and click on RUN Button

Output:



The screenshot shows the SAP Fiori application interface. At the top, there is a navigation bar with the SAP logo and a 'CDS' dropdown. Below the navigation bar, there is a 'Standard' dropdown and an 'Adapt Filters' button. The main content area displays a table with two columns: 'Material type' and 'Material Group'. The table contains the following data:

Material type	Material Group
FERT	
FERT	
AYA1	DEMG
FERT	01
FERT	01
ROH	03
FERT	
ROH	01
AYA1	DEMG
ZROH	01

Enabling Input option in Fiori Application through CDS View .

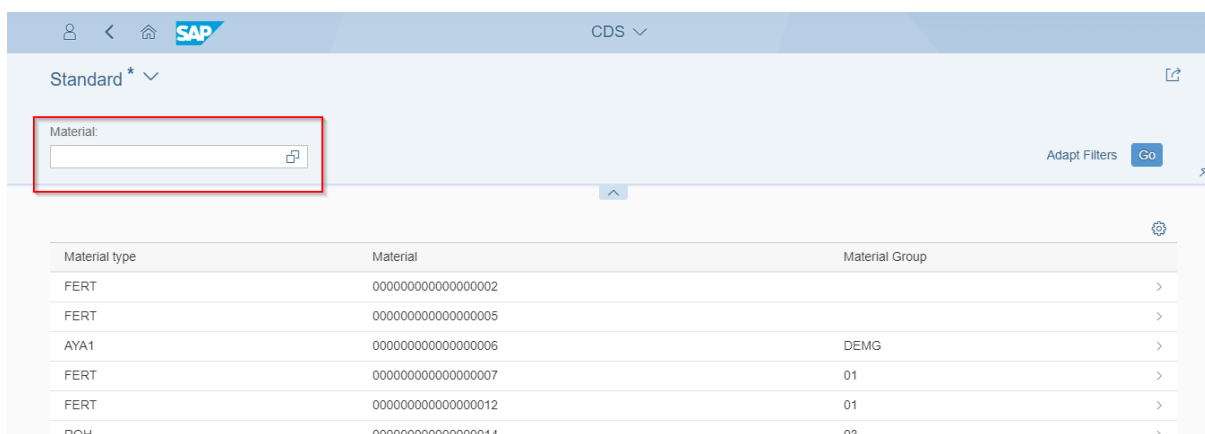
Open your CDS view and add below code.

```
@AbapCatalog.sqlViewName: 'ZH17_CDS_D'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@OData.publish: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'CDS View for CDS AN'
define view zh17_second_cds as select from mara {

  @UI.selectionField: [{ position: 10 }]
  @UI.lineItem: [{ position: 10 }]
  key matnr,
  @UI.lineItem: [{ position: 10 }]
  mtart,
  @UI.lineItem: [{ position: 20 }]
  matkl

}
```

Activate the code and run SAP WEBIDE App again



The screenshot shows the SAP Fiori application interface after running the code. A red box highlights the 'Material' column header in the table. The table now has three columns: 'Material type', 'Material', and 'Material Group'. The data is as follows:

Material type	Material	Material Group
FERT	00000000000000000002	
FERT	00000000000000000005	
AYA1	00000000000000000006	DEMG
FERT	00000000000000000007	01
FERT	00000000000000000012	01
ROH	00000000000000000014	03

