



SAP Public Cloud



RAP & CDS **SAP BAS**

Eclipse ABAP Development Tool

Prepared By :

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Problem:

In Public Cloud The major issue is how to perform **CRUD Operation** on Custom Tables.

Solution:

So, I am going to answer of the below questions in this article.

1. How to create Table in RAP (Eclipse Based System that is available in Both Private and Public Cloud)
2. How to Create CDS Views
3. How to create ODATA Services in Public and Private Cloud
4. How to create annotation based CDS View
5. How to create a Fiori Application from BAS (Business Application Studio – IDE for Fiori development)
6. How to Deploy the Fiori Application From BAS
7. How to create Fiori Tile in Public Cloud Environment (All steps Role etc...)

Things that are not included but can be an issue for beginner:

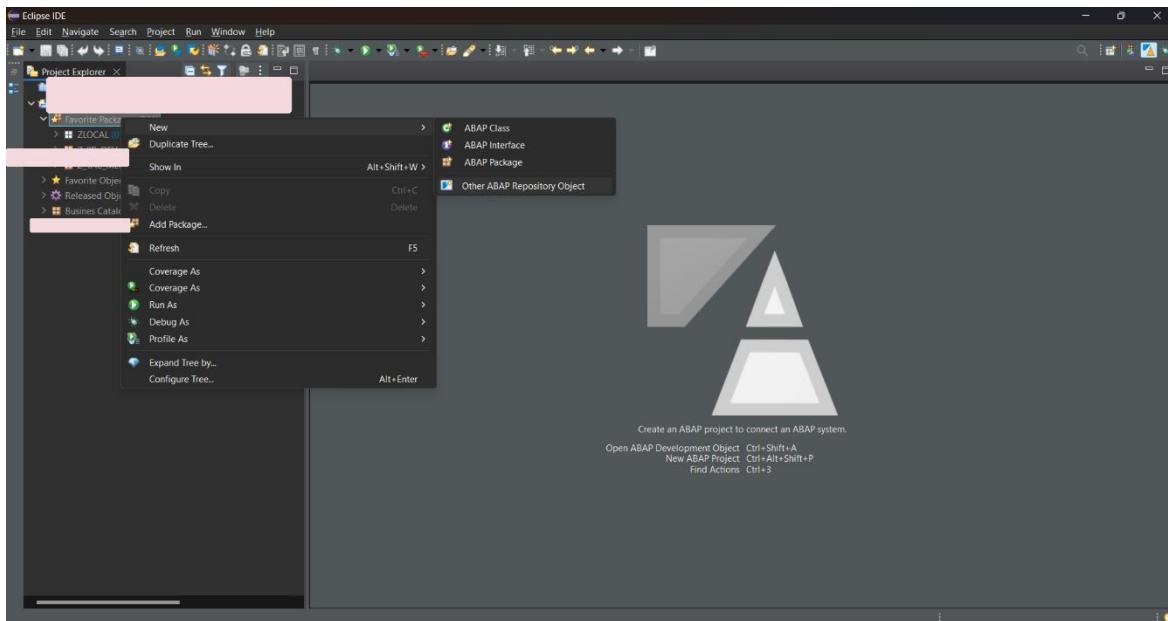
1. How to setup Eclipse and ABAP Environment in Eclipse (Already Covered)
2. How to setup BTP account Sub Account and Subscriptions for BAS (Already Covered)
3. Transport Organizer in Eclipse

Scenario:

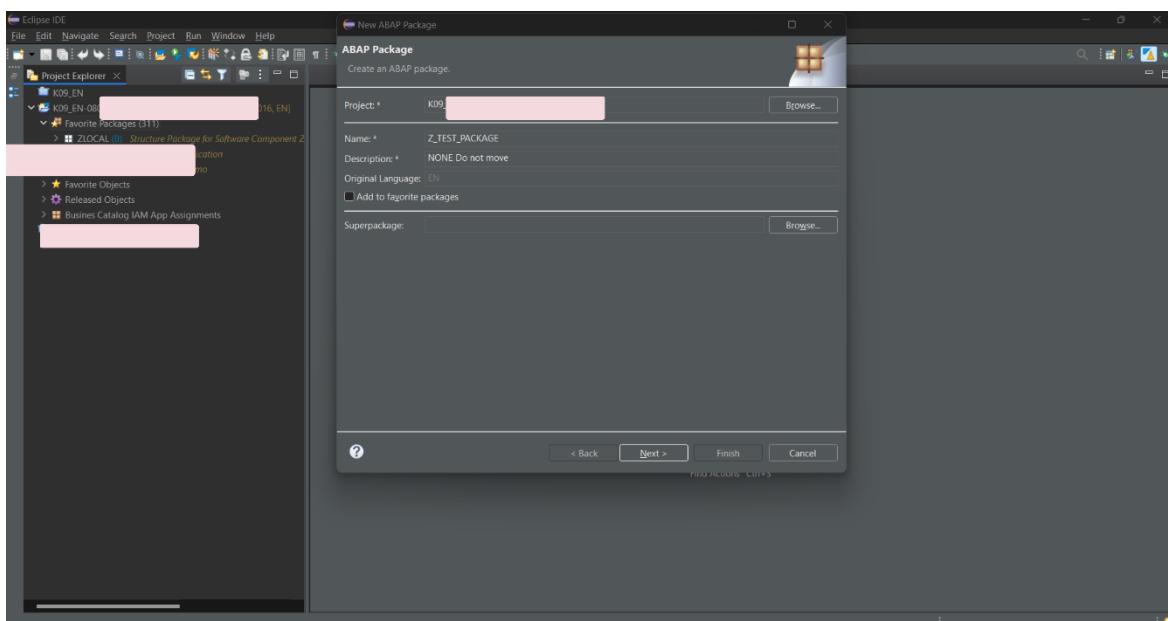
Create a Custom table in SAP Public Cloud Environment. Perform CRUD Operation on that table through annotation based CDS View Fiori Application.

Step 1: Create Package

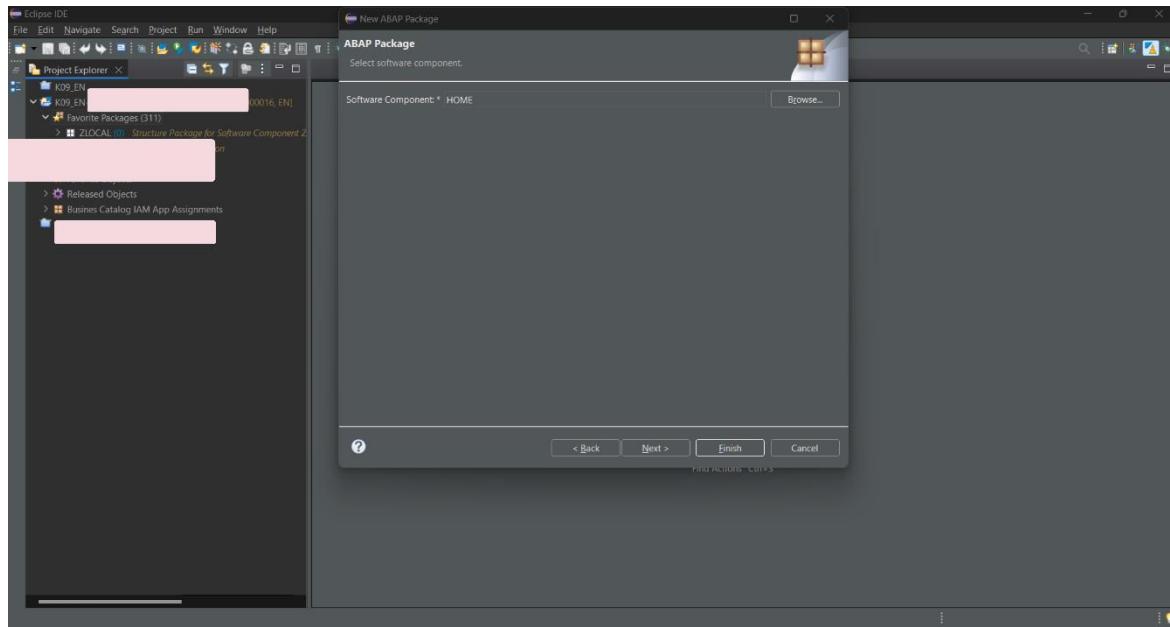
1. Right Click on Favorite Packages
2. Click on New
3. Select ABAP Package



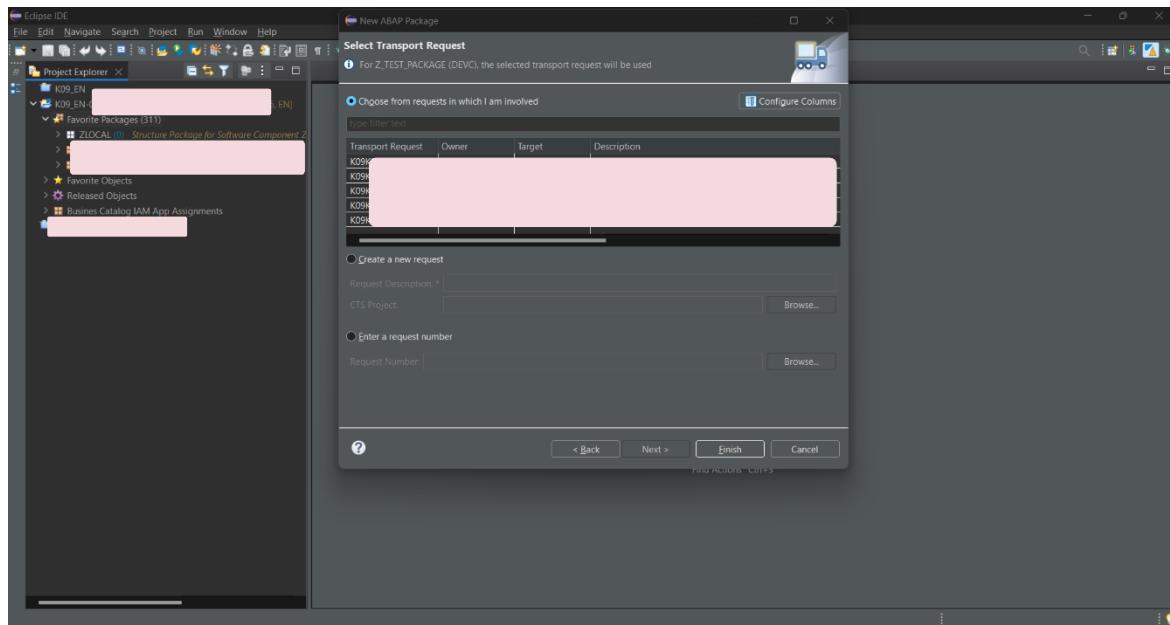
4. Give the Package Name and Description and Click Next



5. Give the software component HOME or Local
6. Click Next and It will ask for Transport

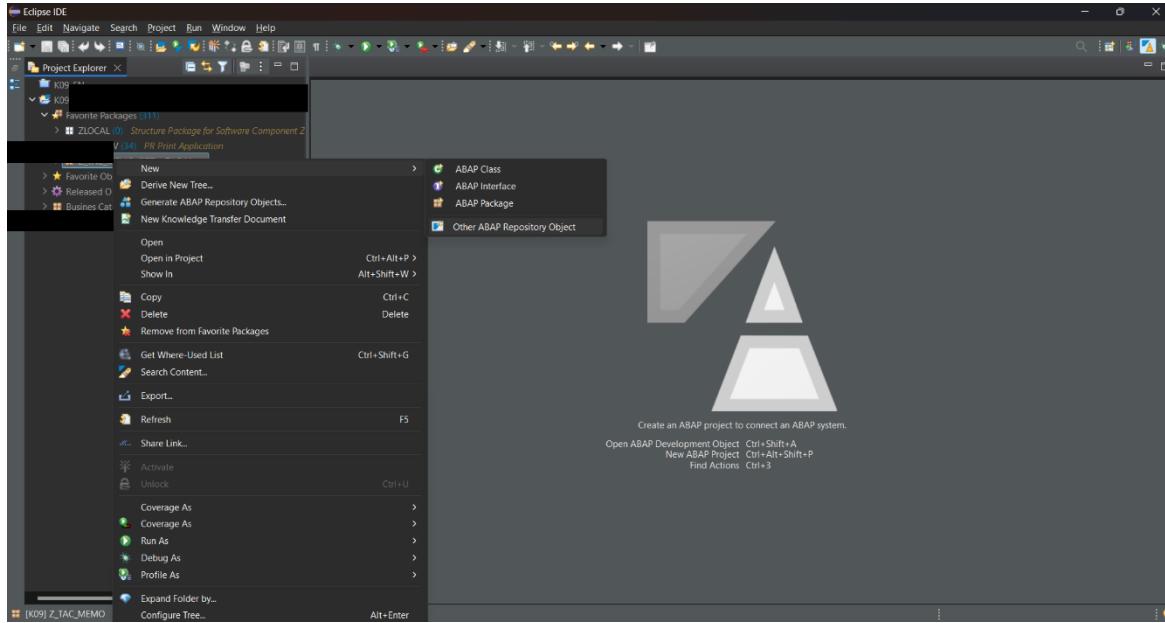


7. Here if you already created a TR, you can choose that
8. If not Created, Click on Create a New Request
9. Give the description and Click Next and Finish

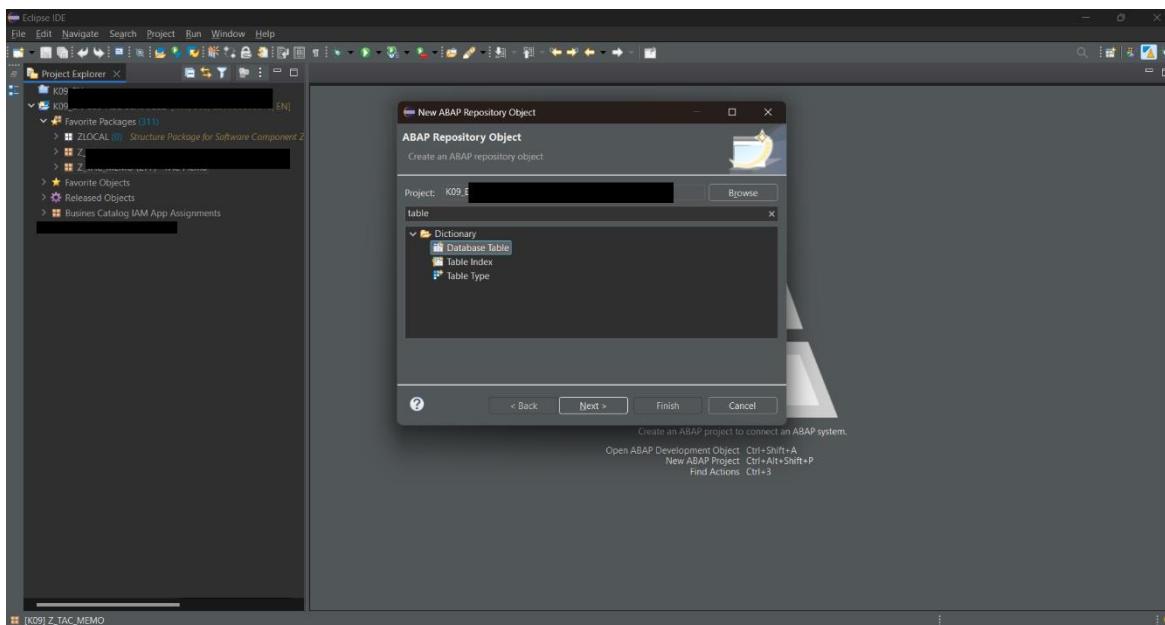


Step 2: Create Custom Transparent Table

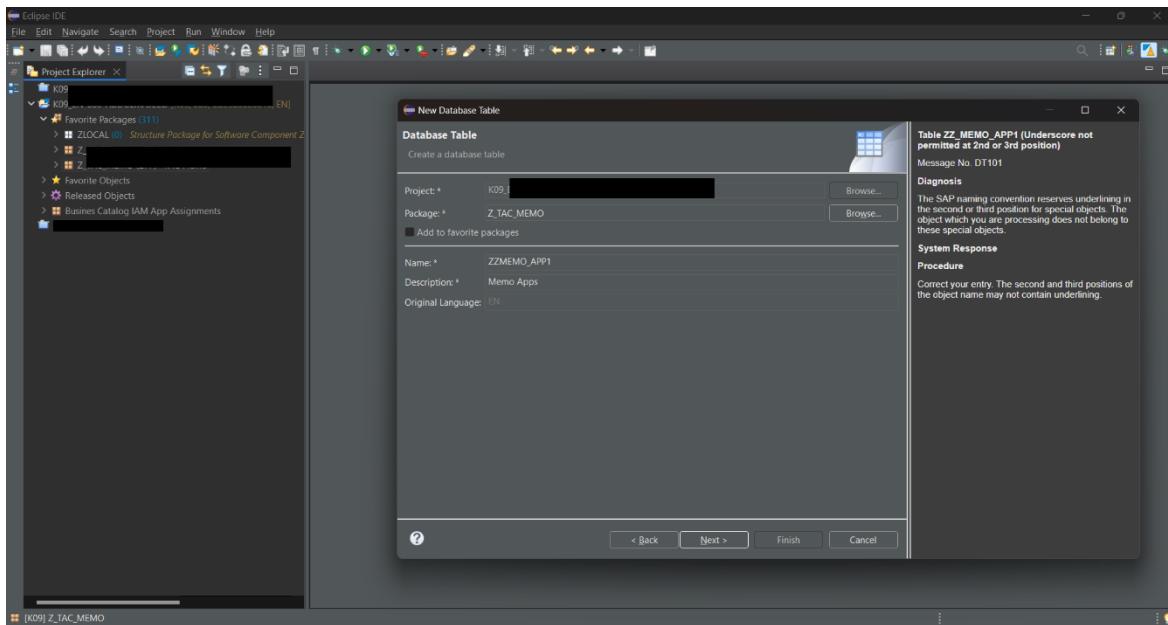
1. Now create Custom table, I am doing as per my scenario and requirement
2. You can add you package in Favorites by click Right on Favorite Packages and click add package
3. Now, right click on your package and choose new
4. Select Other ABAP Repository Object



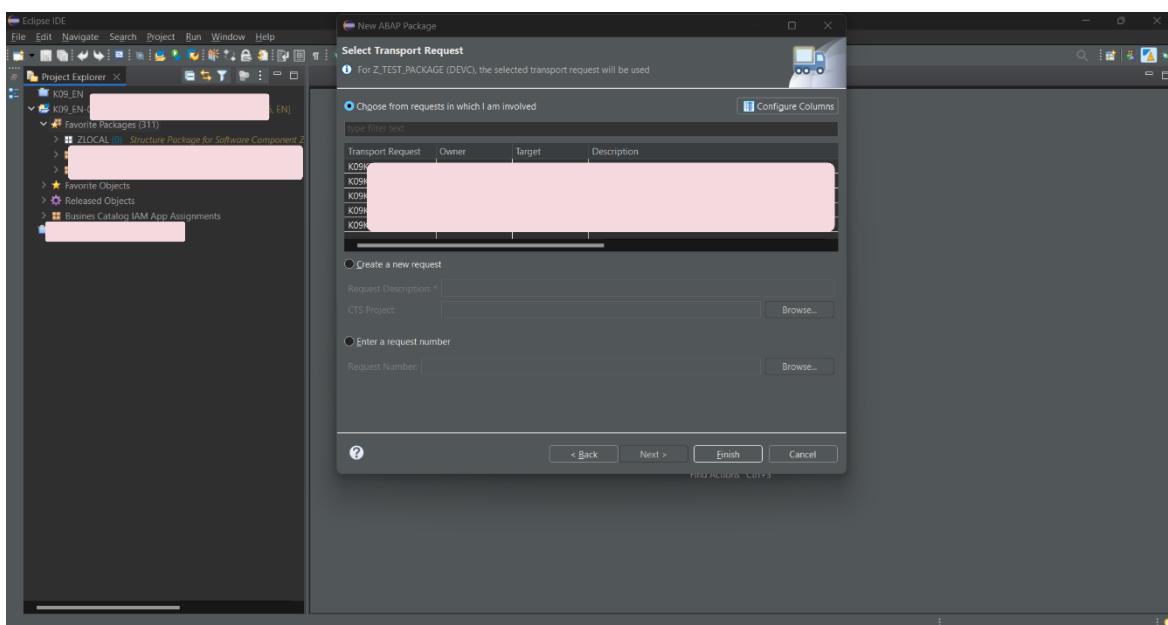
5. Type table and select Database Table



6. Give the Table name and Description and click next

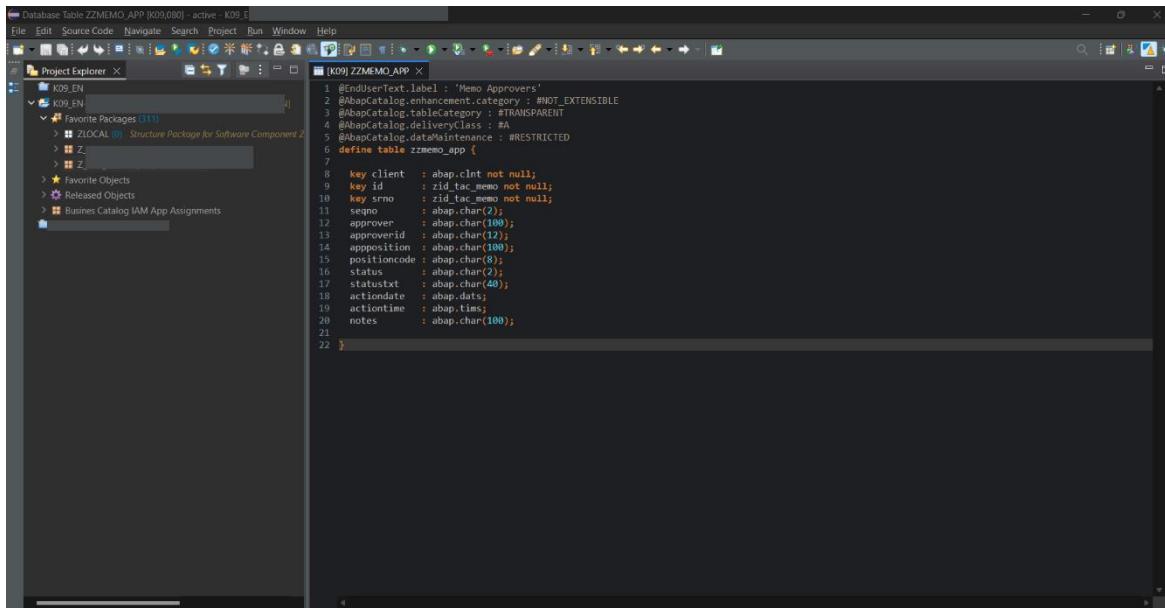


7. Choose the TR and click finish



8. Change the code as per below, add fields, Table Category, Delivery Class, Data maintenance

9. After adding all Just Click on Activate Button 

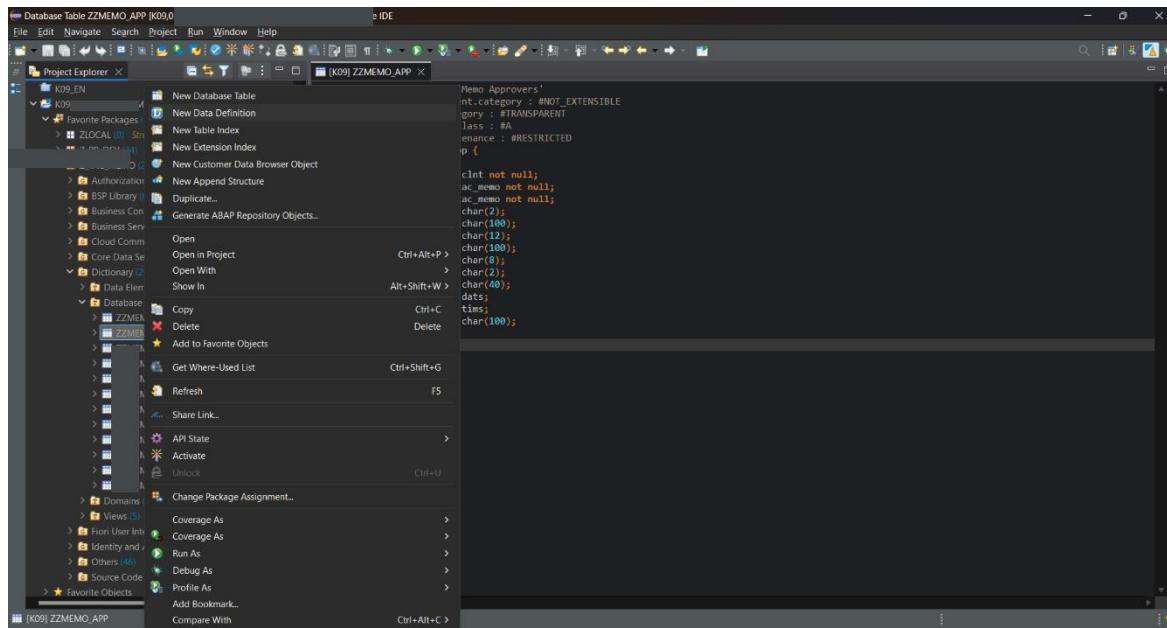


```
Database Table ZZMEMO_APP [K09.080] - active K09.E
File Edit Source Code Navigate Search Project Run Window Help
Project Explorer X [K09] ZZMEMO_APP X
K09.EN
  Favorite Packages (31)
    ZLOCAL (0) Structure Package for Software Component Z
    Z_
    Z_
  Favorite Objects
  Released Objects
  Business Catalog IAM App Assignments
  Business Catalog IAM App Assignments

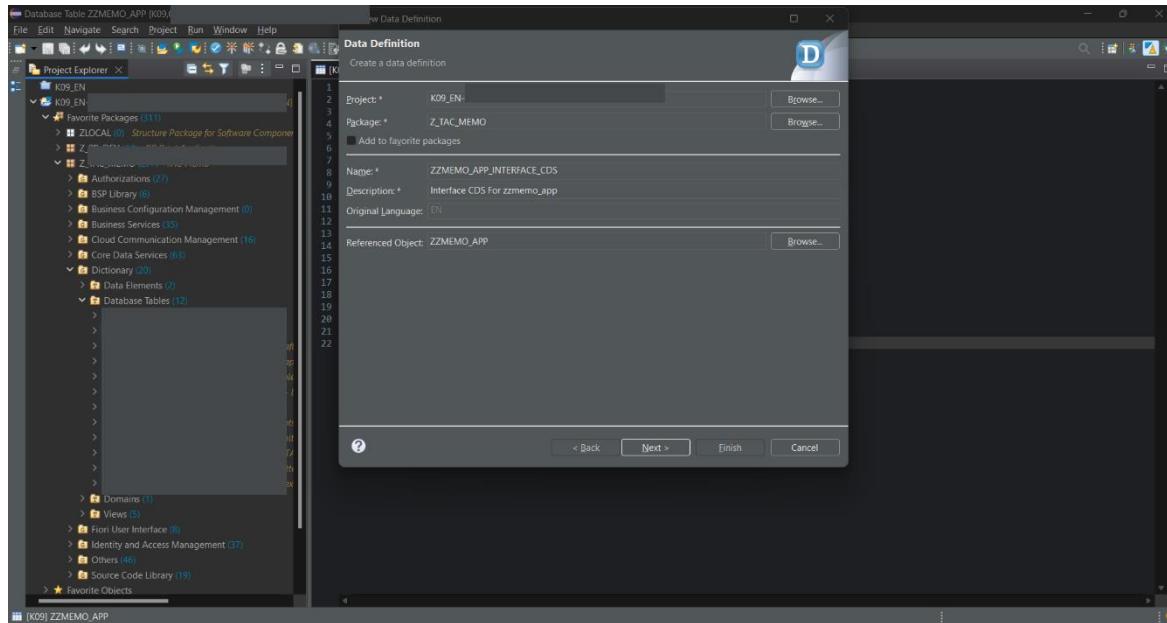
  @EndUser-Text-label : 'Memo Approvers'
  @sapCatalog.enhancement.category : #NOT_EXTENSIBLE
  @sapCatalog.tableCategory : #TRANSPARENT
  @sapCatalog.deliveryClass : #
  @sapCatalog.dataMaintenance : #RESTRICTED
  define table zzmemo_app {
    key client : abap.cInt not null;
    key id : zid_tec_memo not null;
    key srno : zid_tec_memo not null;
    seqno : abap.char(2);
    approver : abap.char(100);
    approverid : abap.char(12);
    apposition : abap.char(100);
    positioncode : abap.char(8);
    status : abap.char(2);
    actiontxt : abap.char(60);
    actiondate : abap.date;
    actiontime : abap.tims;
    notes : abap.char(100);
  }
}
```

Step 3: Create an Interface CDS View

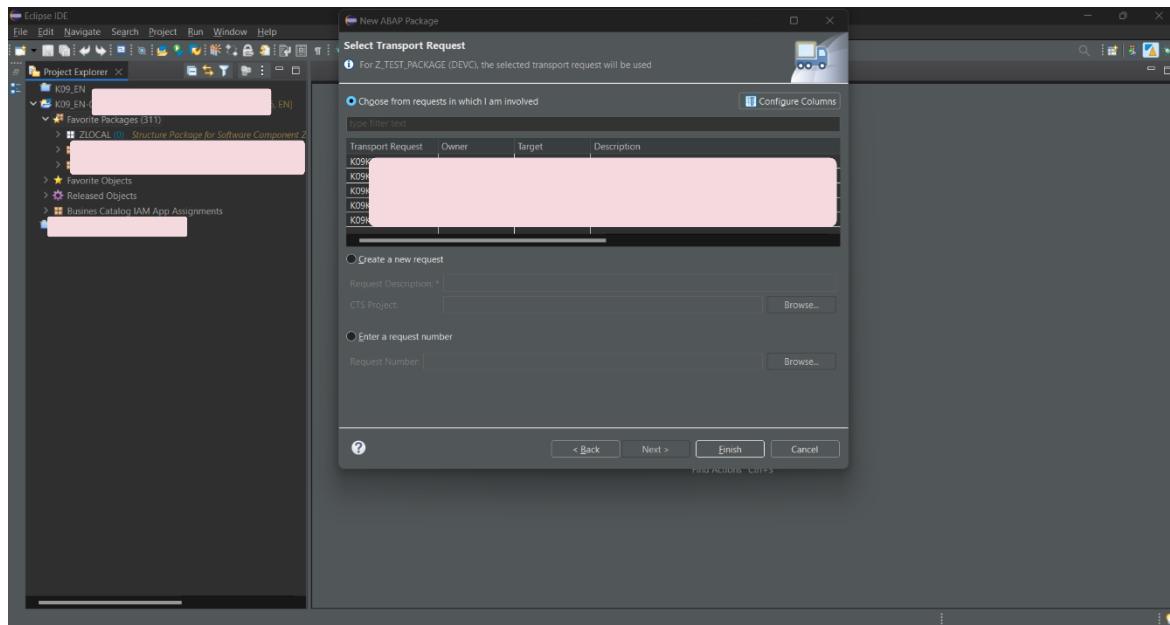
1. Just reach out your table and right click on that
2. Click on New Data Definition



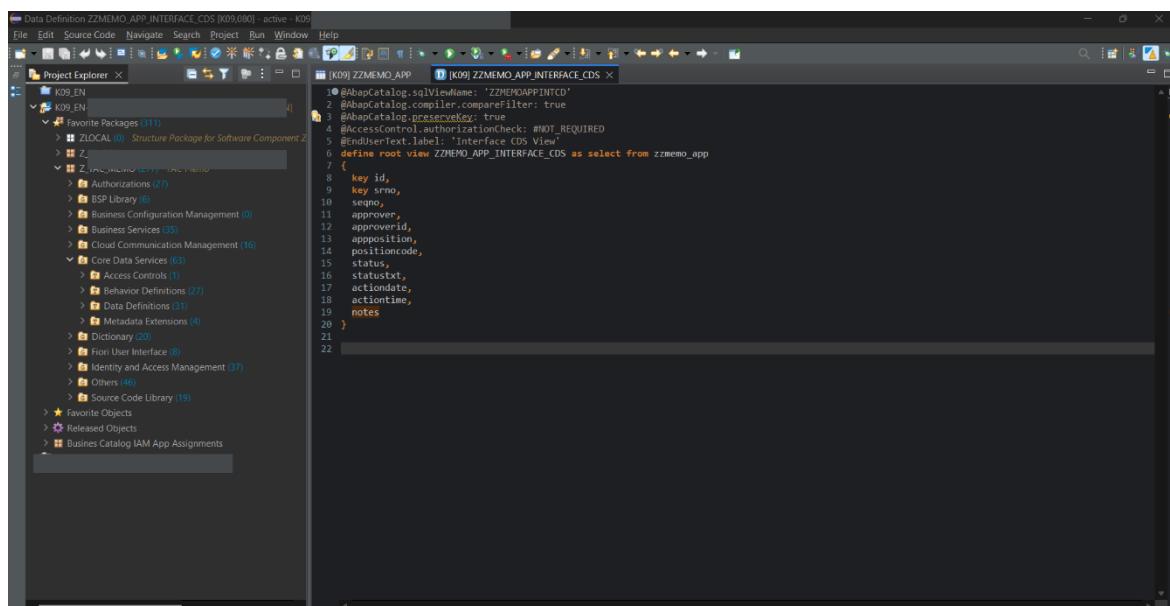
3. Give the CDS name and Description and click Next



4. Select the TR and Click Next and Click Finish

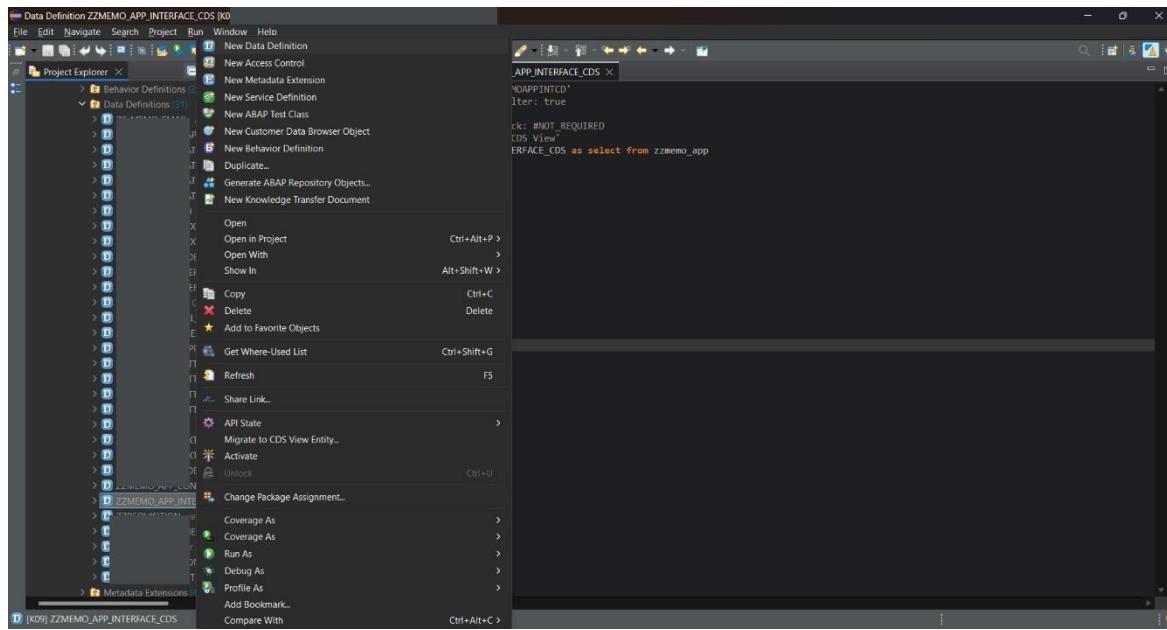


5. Write the code as per below
6. Just Take Care of Header Description and Definition
7. Activate the CDS View

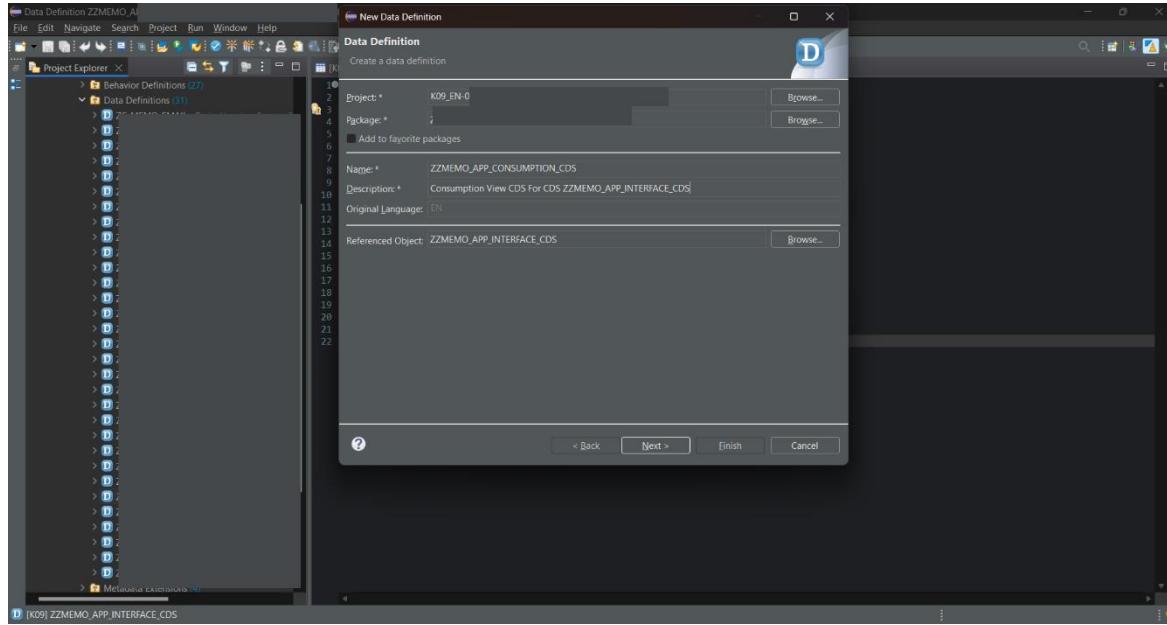


Step 4: Consumption CDS View

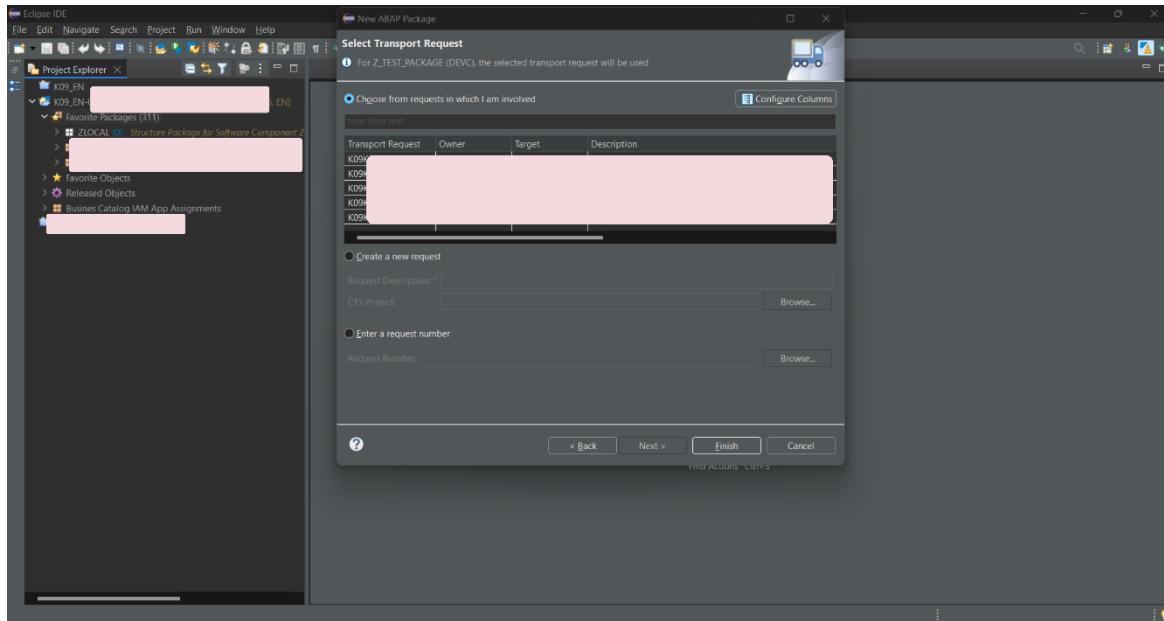
1. Reach out your Interface CDS View and Right Click on it
2. Choose New Data Definition



3. Give the consumption CDS Name and Description and Click Next



4. Choose the TR and Click Next and Finish



5. Write the Code as per below

6. Take Care of Header and Definition also the fields addition in body here

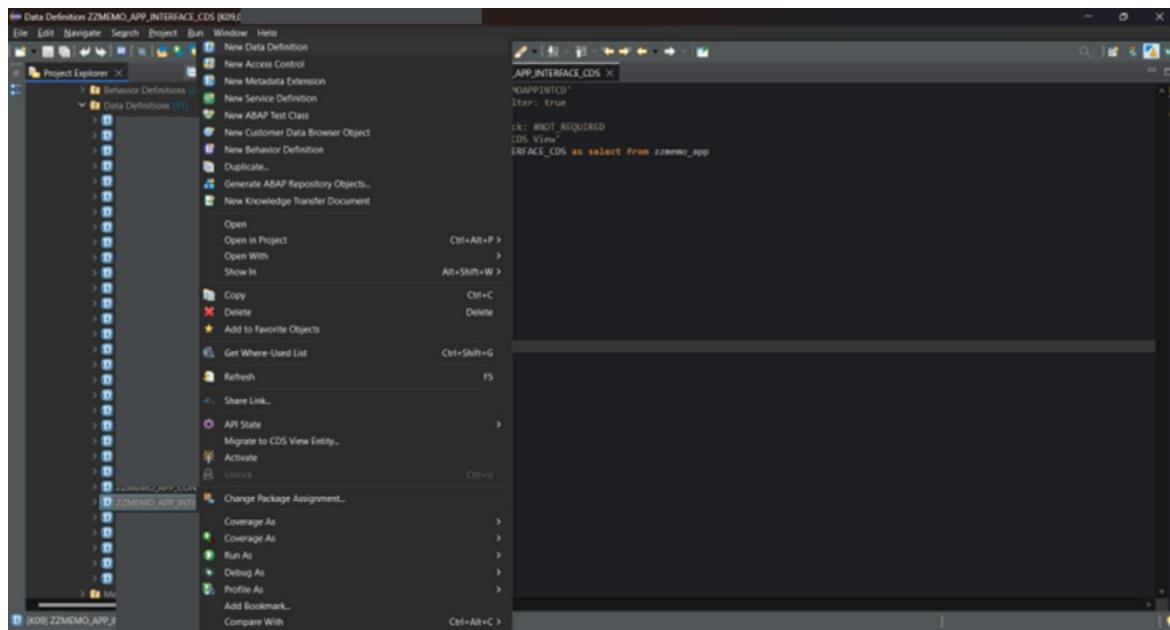
```

Data Definition ZZMEMO_APP_CONSUMPTION_CDS [K09]
File Edit Source Code Navigate Search Project Run Window Help
e IDE
Project Explorer X [K09] ZZMEMO_APP_INTERFACE_CDS [K09] ZZMEMO_APP_CONSUMPTION_CDS X
  Behavior Definitions (27)
  Data Definitions (31)
    ZZMEMO_APP_CONSUMPTION_CDS (31)
      @AccessControl.authorizationCheck: #NOT_REQUIRED
      @EndUserText.label: 'Consumption View CDS'
      @Metadata.allowExtensions: true
      define root view entity ZZMEMO_APP_CONSUMPTION_CDS provider contract transactional_query
      as projection on ZZMEMO_APP_INTERFACE_CDS as ApproverView
      key id as Id,
      @EndUserText.label: 'Serial Number'
      key serial as Sno,
      @EndUserText.label: 'Sequence Number'
      seqno as Segno,
      @EndUserText.label: 'Approver'
      approver as Approver,
      @EndUserText.label: 'Approver ID'
      approverId as ApproverId,
      @EndUserText.label: 'Apposition'
      apposition as Apposition,
      @EndUserText.label: 'Action'
      action as Action,
      @EndUserText.label: 'Position Code'
      positioncode as Positioncode,
      @EndUserText.label: 'Status'
      status as Status,
      @EndUserText.label: 'Status Text'
      statusTxt as StatusTxt,
      @EndUserText.label: 'Action Date'
      actionDate as Actiondate,
      @EndUserText.label: 'Action Time'
      actionTime as Actiontime,
      @EndUserText.label: 'Notes'
      notes as Notes
    }
  }

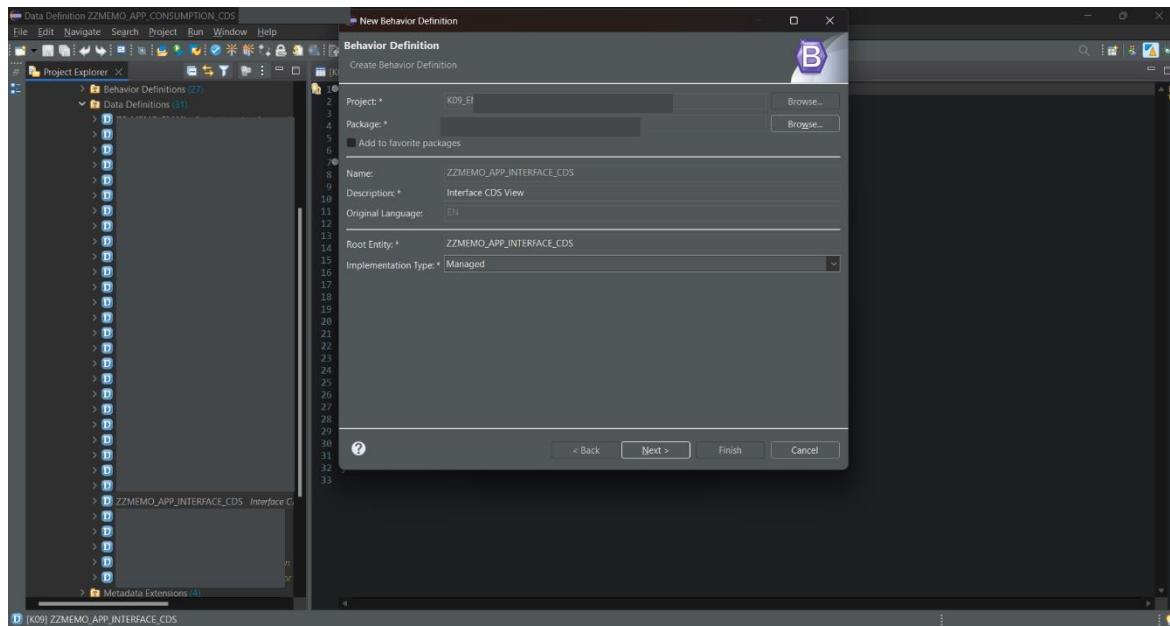
```

Step 5: Create Behavior Definition for Interface CDS View

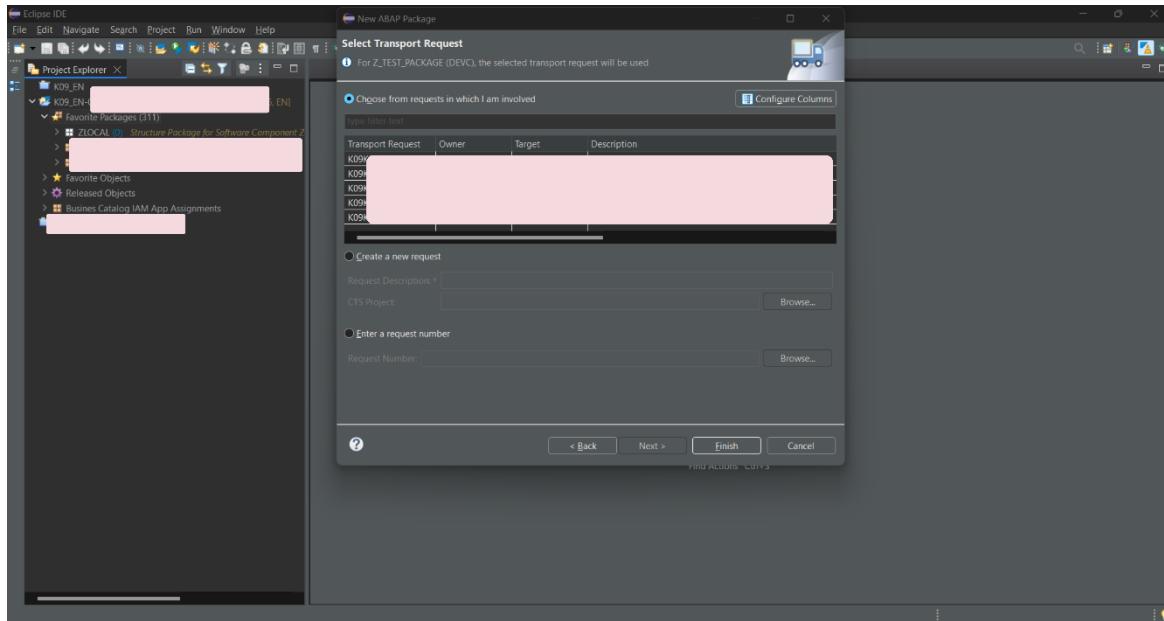
- Just right click on your interface CDS View and click on Behavior Definition



- Just Give the Description and Choose managed in Implementation Type and click next



3. Choose the TR and Click Next and Finish



4. Change the Code as per below If you want to add all CRUD Operation in Single App

5. Just activate the Behavior Definition

```

Behavior Definition ZZMEMO_APP_INTERFACE_CDS [K09]
File Edit Source Code Navigator Search Project Run Window Help

Project Explorer [K09] ZZMEMO_APP [K09] ZZMEMO_APP_INTERFACE_CDS [K09] ZZMEMO_APP_CONSUMPTION_CDS [K09] ZZMEMO_APP_INTERFACE_CDS

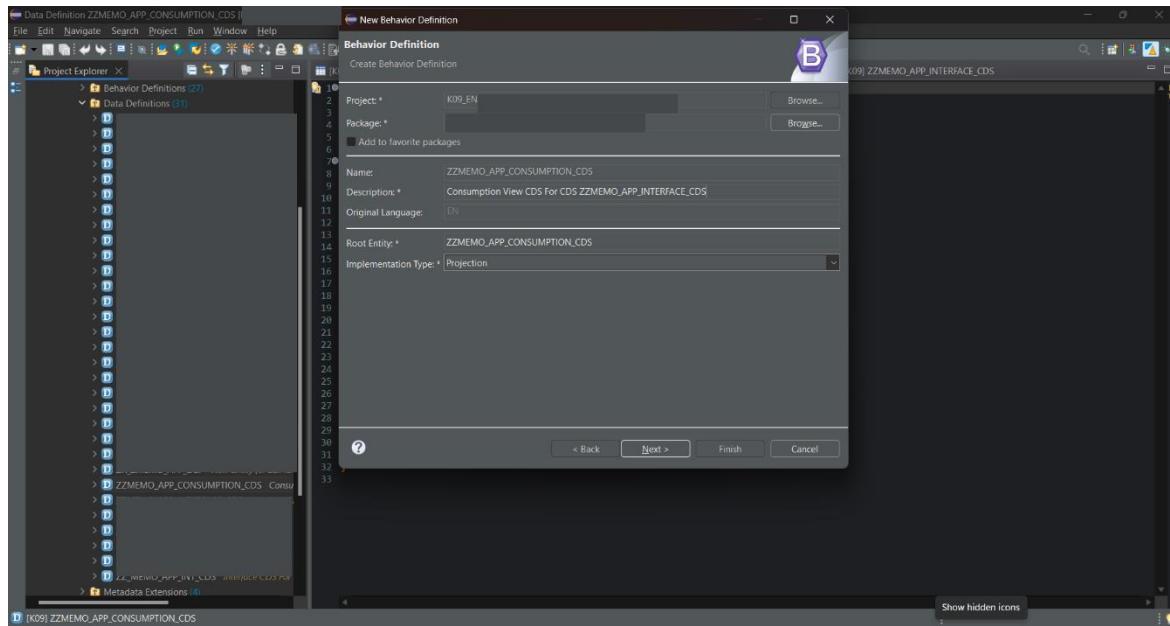
1 named;
2 //strict { 2 }; //Uncomment this line in order to enable strict mode 2. The strict mode has two variants ($strict(1), strict(2)) and is prerequisite
3
4 define behavior for ZZMEMO_APP_INTERFACE_CDS alias ZZMEMO_APP
5 //implementation in class zbp_zzmemoo_app_interface_cds unique;
6 persistent table zzmemo_app
7
8 //authorization master { instance }
9 //etag master <field_name>
10 {
11   field ( mandatory ) id,srno ,seqno ,approver ,approverid ,appposition ,positioncode ,status ,statustxt ,notes;
12   create; // authorization : global
13   update;
14   delete;
15
16   mapping for zzmemo_app
17   {
18     id = id;
19     srno = srno;
20     seqno = seqno;
21     approver = approver;
22     approverid = approverid;
23     appposition = appposition;
24     positioncode = positioncode;
25     status = status;
26     statustxt = statustxt;
27     actiondate = actiondate;
28     actiontime = actiontime;
29     notes = notes;
30   }
31 }

```

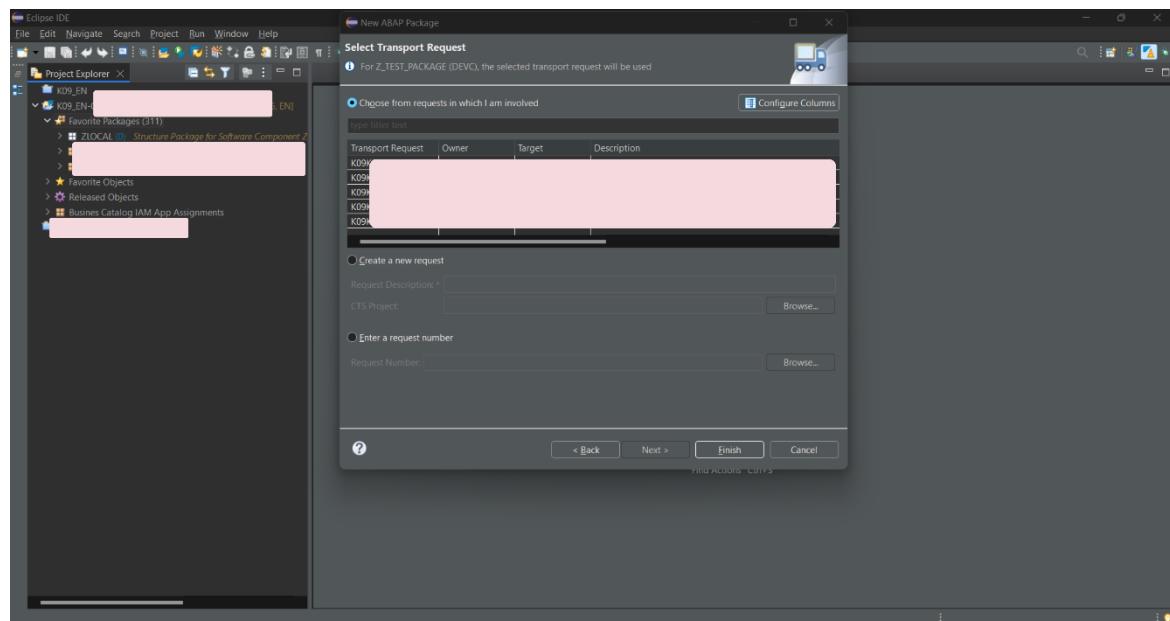
The code editor shows a behavior definition for a persistent table 'zzmemo_app'. It includes strict mode comments, a behavior alias 'ZZMEMO_APP', and a mapping section that maps fields to database columns. The code is annotated with line numbers from 1 to 31.

Step 6: Create Behavior Definition for Consumption CDS View

1. As per step 4 just reach out to your Consumption CDS View and Right Click on It
2. Choose Behavior Definition
3. Give the Name and Description and Choose Implementation Type Projection
4. Click Next

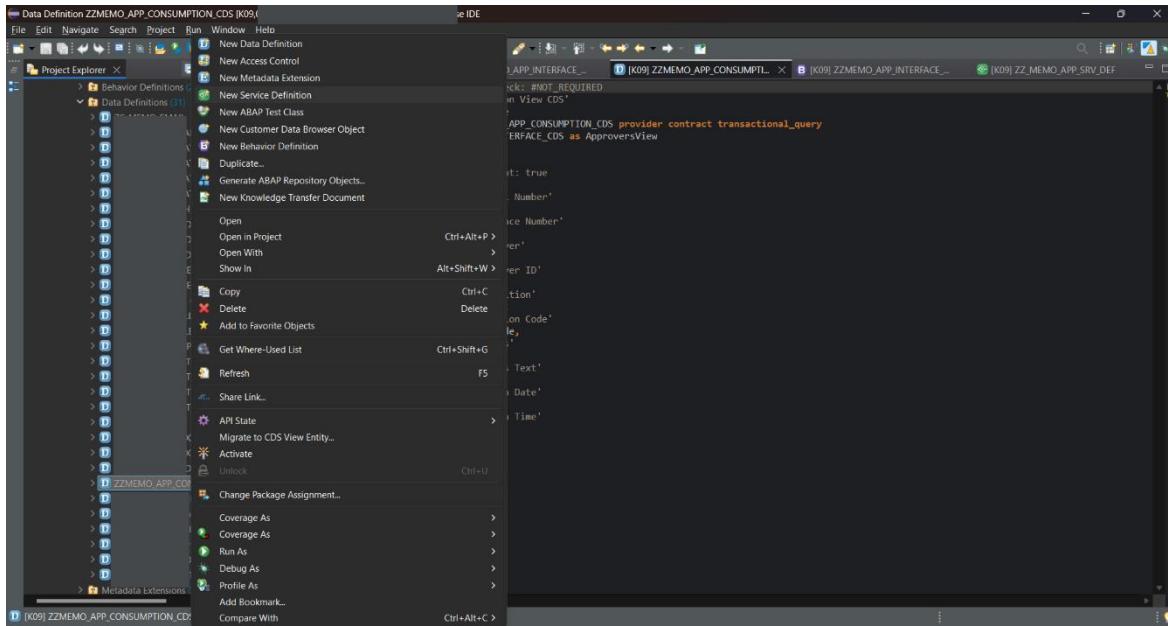


5. Choose TR and Click Next and Finish

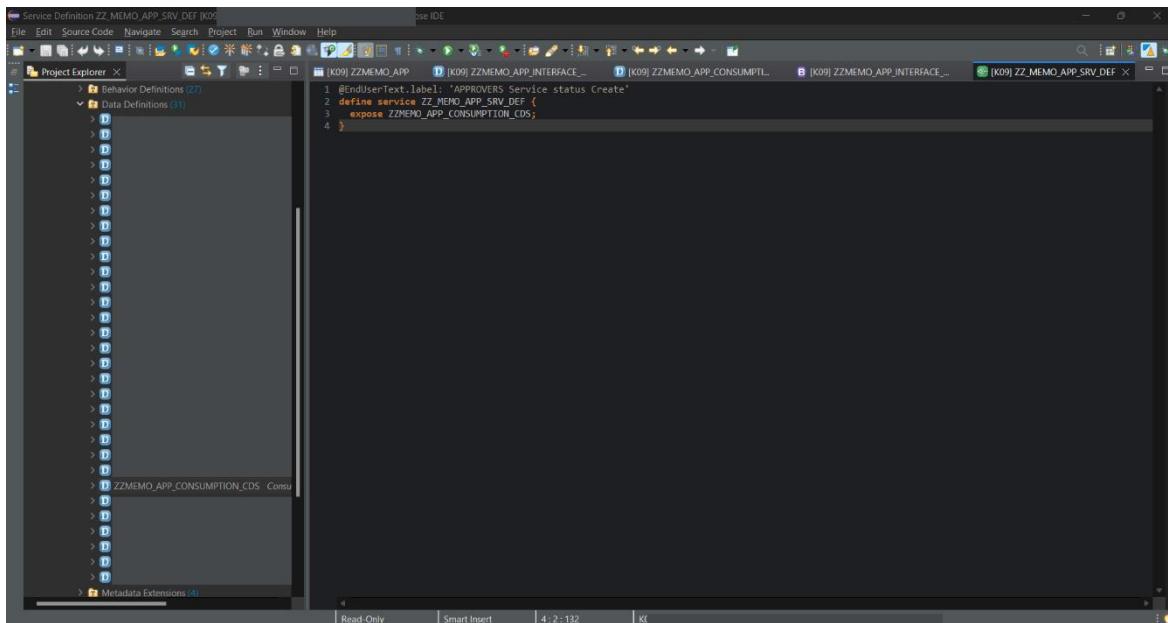


Step 7: Create Service for Consumption CDS View

1. Right Click on Consumption CDS View
2. Click on New Service Definition

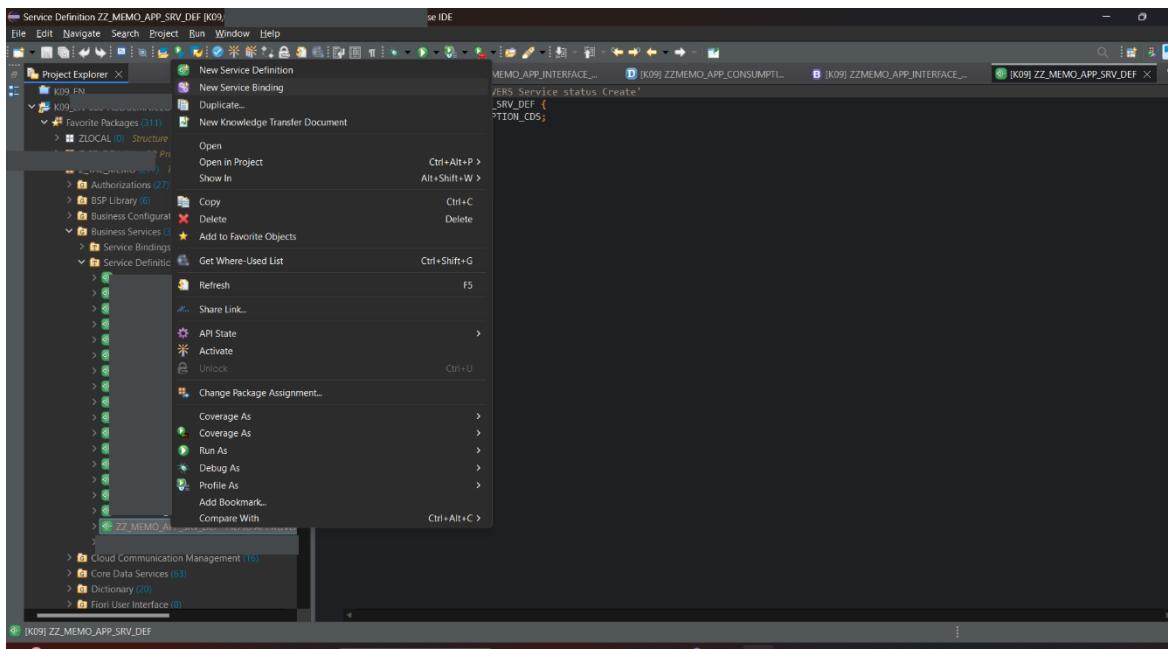


3. Just Activate the Service

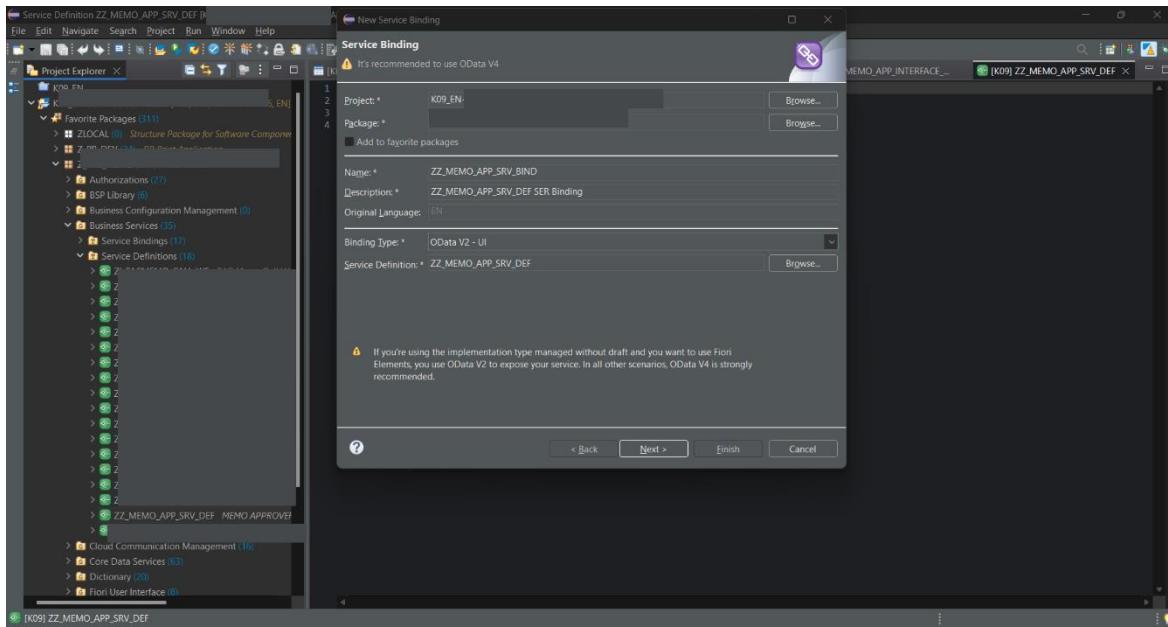


Step 8: Create Service Binding

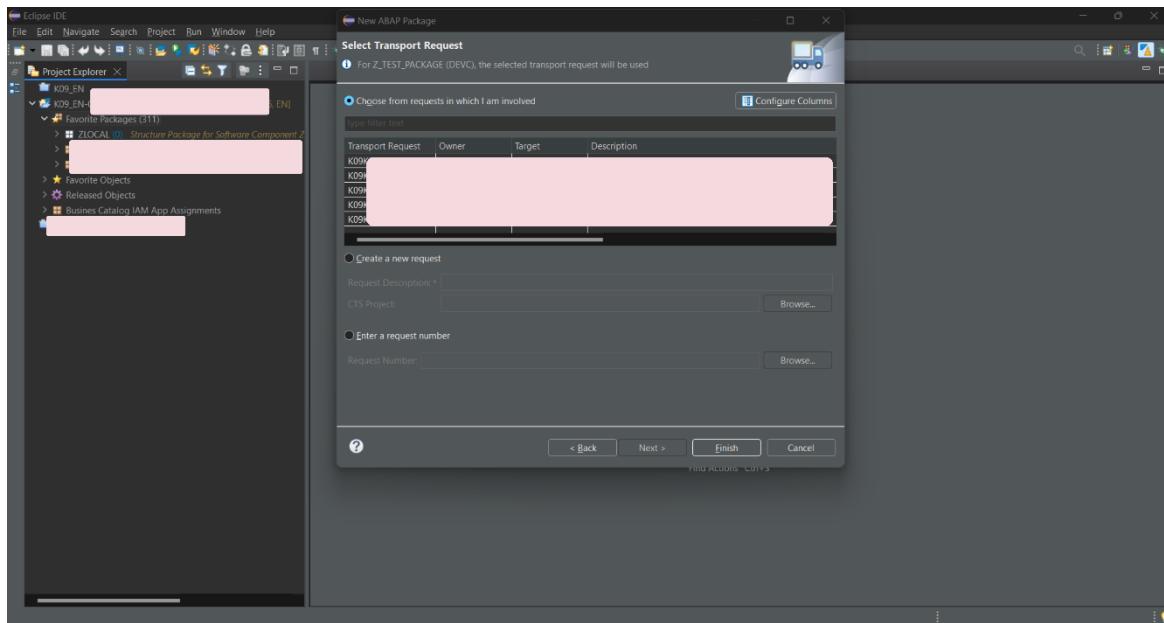
1. Just Right click on your Service and Choose New Service Binding



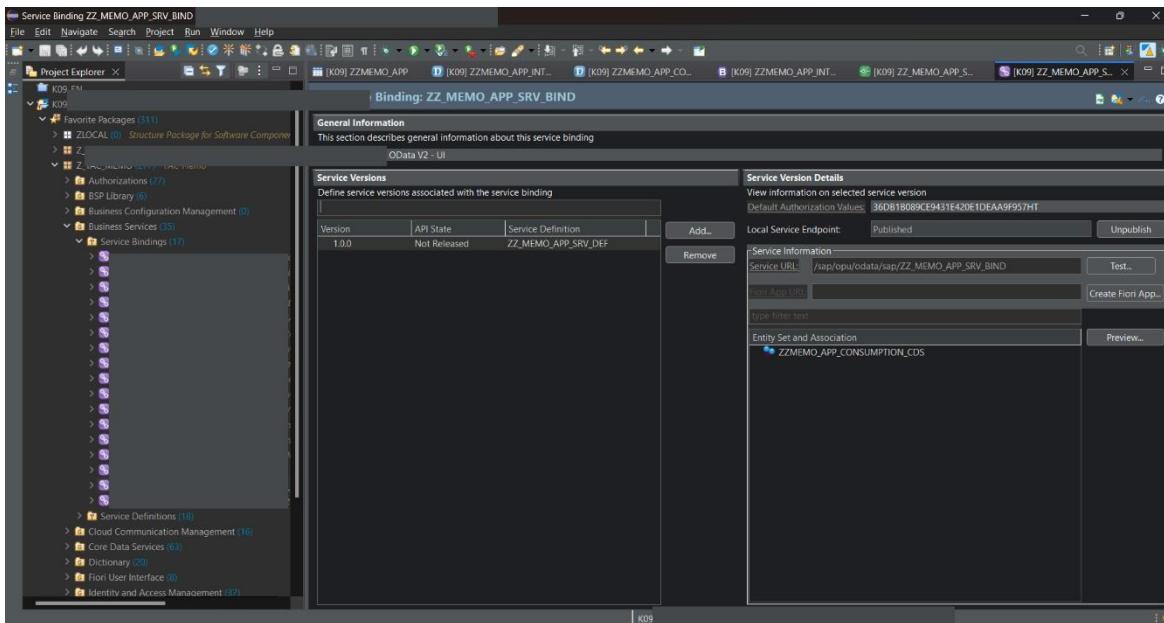
2. Give the name and description
3. Choose Binding Type OData V2 - UI
4. Click Next

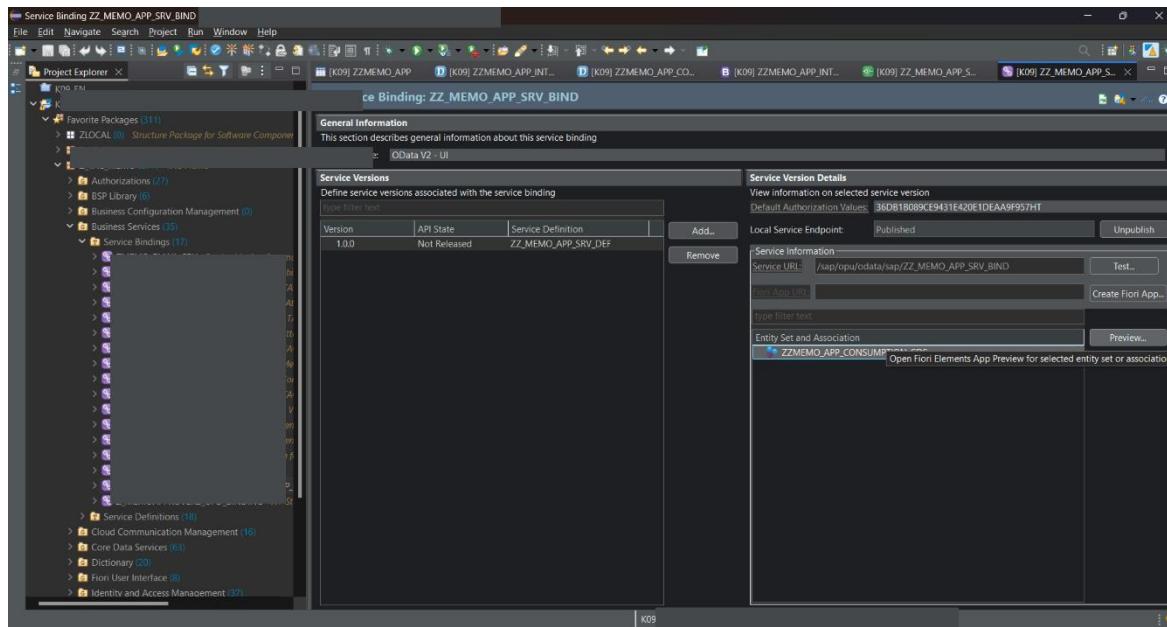


5. Choose TR and Click Next and Finish



6. Just activate your Binding
7. In Below Screen where Unpublish is coming, Here will be Publish First
8. You Have to click and Publish and Wait till the publish ends





Note:

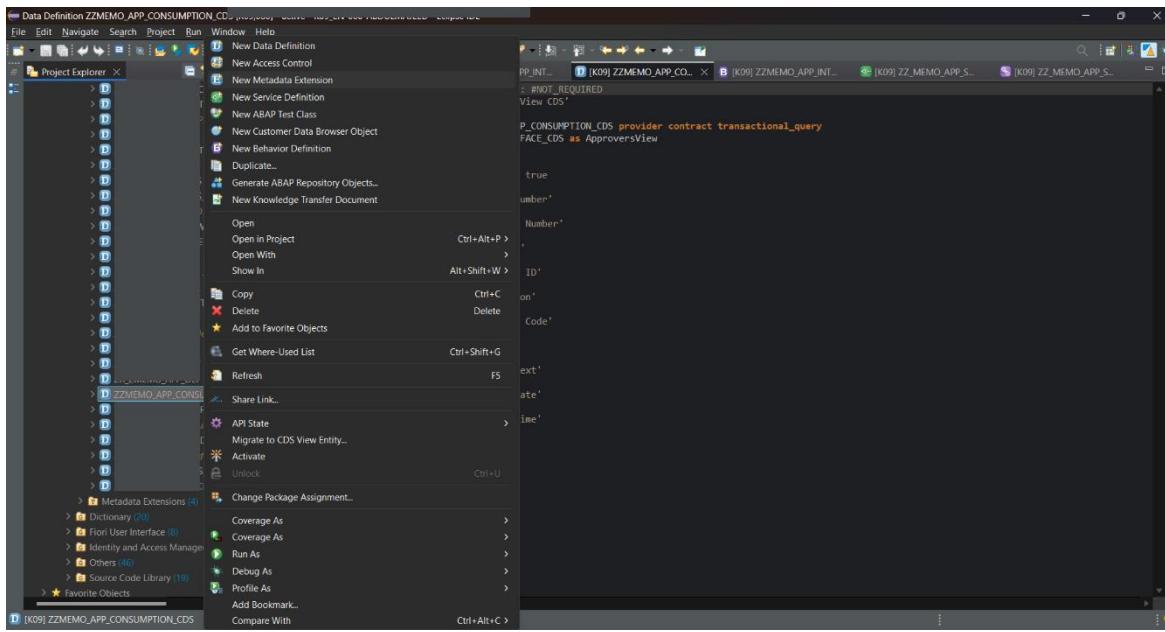
Choose Entity and Click on Preview

An App will open in Browser. Just Click on Go and the Data existed in Table will Load. When you click on create button. There will not be any field to enter Data.

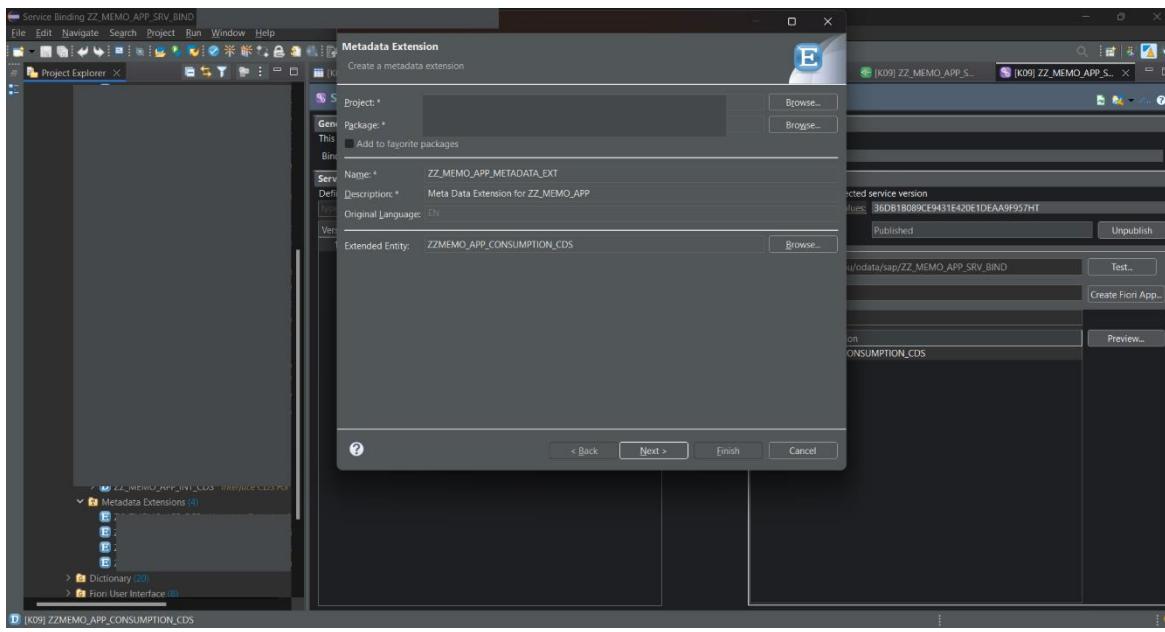
To add fields for entering data follow Step 9.

Step 9: Create Metadata Extension

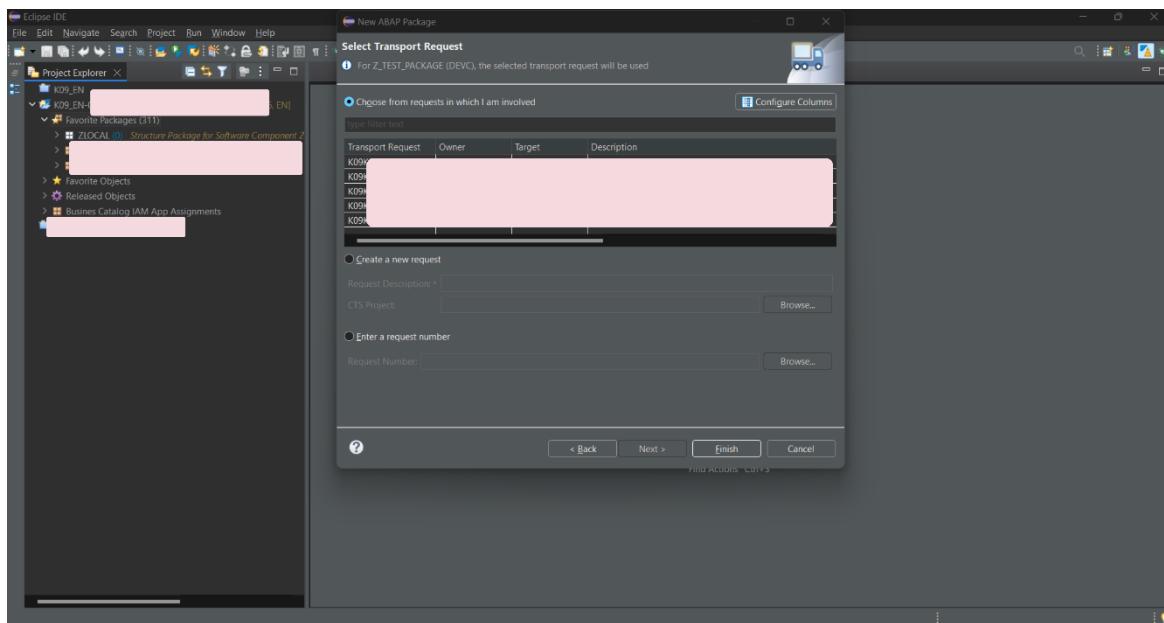
1. Right click on Consumption CDS and Choose New Metadata Extension



2. Give name and Description and Click Next



3. Choose TR and Click Next and Finish



4. Enter the code as per below

```
1 @metadata.layer: #CORE
2 @UI: {
3   headerInfo: {
4     typeLabel: "Employee Data",
5     title: { type: #STANDARD, label: "Approvers Data", value: "id" }
6   }
7 }
8 annotate view ZZMEMO_APP_CONSUMPTION_CDS
9 with
10 {
11 @UI.facet: [{ id: "ApproversView",
12 purpose: #STANDARD,
13 type: #IDENTIFICATION_REFERENCE,
14 label: "Approvers Data",
15 position: 10 },
16 @UI.lineItem:[{
17 position: 10,
18 importance: #HIGH,
19 label:"Approver ID"],
20 identification: [{ position: 10}],
21 selectionField: [{ position: 10 }]
22 ]
23 Ids
24
25 @UI: { lineItem:[{
26 position: 20,
27 importance: #HIGH,
28 label:'Serial Number'],
29 identification: [{ position: 20}],
30 selectionField: [{ position: 20}]
31 }
32 Segno;
33
34 @UI: { lineItem:[{
35 position: 30,
36 importance: #HIGH,
37 label:'Sequence Number'],
38 identification: [{ position: 30}],
39 selectionField: [{ position: 30}]
40 }
41 Segno;
42 }
```

5. Complete Code Metadata Extension:

```
@Metadata.layer: #CORE
@UI: {
headerInfo: {
typeName: 'Employee Data',
title: { type: '#STANDARD, label: 'Approvers Data', value: 'id' }
}
}
annotate view ZZMEMO_APP_CONSUMPTION_CDS
with
{
@UI.facet: [{ id: 'ApproversView',
purpose: '#STANDARD,
type: '#IDENTIFICATION_REFERENCE,
label: 'Approvers Data',
position: 10 }]
@UI: { lineItem:{{
position: 10,
importance: #HIGH,
label:'Approver ID'},
identification: [{ position: 10}],
selectionField: [{ position: 10}]
}
Id;
@UI: { lineItem:{{
position: 20,
importance: #HIGH,
label:'Serial Number'},
identification: [{ position: 20}],
selectionField: [{ position: 20}]
}
Srno;
@UI: { lineItem:{{
position: 30,
importance: #HIGH,
label:'Sequence Number'},
identification: [{ position: 30}],
selectionField: [{ position: 30}]
}
Seqno;
@UI: { lineItem:{{
position: 40,
importance: #HIGH,
label:'Approver'},
identification: [{ position: 40}],
selectionField: [{ position: 40}]
}
Approver;
@UI: { lineItem:{{
position: 50,
importance: #HIGH,
label:'Approver ID'},
identification: [{ position: 50}],
selectionField: [{ position: 50}]
}
Approverid;
@UI: { lineItem:{{
position: 60,
importance: #HIGH,
label:'Apposition'},
identification: [{ position: 60}],
selectionField: [{ position: 60}]
}
Apposition;
@UI: { lineItem:{{
position: 70,
importance: #HIGH,
label:'Position Code'},
identification: [{ position: 70}],
selectionField: [{ position: 70}]
}
Positioncode;
@UI: { lineItem:{{
position: 80,
importance: #HIGH,
label:'Status'},
identification: [{ position: 80}],
selectionField: [{ position: 80}]
}
}
```

```

identification: [{ position: 80}],
selectionField: [{ position: 80}]
}
Status;

@UI: { lineItem:[{
position: 90,
importance: #HIGH,
label:'Status Text'],
identification: [{ position: 90}],
selectionField: [{ position: 90}]
}
Statustxt;

@UI: { lineItem:[{
position: 100,
importance: #HIGH,
label:'Action Date'],
identification: [{ position: 100}],
selectionField: [{ position: 100}]
}
Actiondate;

@UI: { lineItem:[{
position: 110,
importance: #HIGH,
label:'Action Time'],
identification: [{ position: 110}],
selectionField: [{ position: 110}]
}
Actiontime;

@UI: { lineItem:[{
position: 120,
importance: #HIGH,
label:'Notes'],
identification: [{ position: 120}],
selectionField: [{ position: 120}]
}
Notes;
}

}

```

6. Just activate the Metadata

7. Now, Just **Re-Load Your Application**

8. You can see the Filters

9. When Clicking on Create Button You can create new record

10. Select any record and click on arrow button to change the existing Record

SAP Preview for Fiori Elements App ▾ AD

Standard ▾

ID:	Serial Number:	Sequence Number:	Approver:	Approver ID:	Apposition:	Position Code:
<input type="text"/>						
Status:	Status Text:	Action Date:	Action Time:	Notes:		
<input type="text"/>						

Go Adapt Filters

To start, set the relevant filters and choose "Go".

SAP Preview for Fiori Elements App ▾ AD

Standard ▾

Approver ID	Serial Number	Sequence N...	Approver	Approver ID	Apposition	Position Code	Status
50001	25597	0	Ali			01	>
Status Text: Action Date: Action Time: 12:00:00AM Notes: Ok							
50001	54443	1	Ali			01	>
Status Text: Action Date: Action Time: 12:00:00AM Notes: Ok							
50002	47562	1	CEO			01	>
Status Text: Action Date: Action Time: 12:00:00AM Notes:							

Create **Delete** **Go** **Adapt Filters**

SAP Employee Data ▾ AD

Approvers Data

ID: 50001	Sequence Number: 0	Approver ID: -	Position Code: -	Status Text: -	Action Time: 12:00:00AM
Serial Number: 25597	Approver: Ali	Apposition: -	Status: 01	Action Date: -	Notes: Ok

Edit **Delete** **Go**

[Delete](#) [Edit](#)**Approvers Data**

ID:*	Sequence Number:*	Approver ID:*	Position Code:*	Status Text:*	Action Time:
50001	0				12:00:00 AM
Serial Number:*	Approver:*	Apposition:*	Status:*	Action Date:	Notes:*
25597	Ali		01	e.g. Dec 31, 2025	Ok

[Save](#) [Cancel](#)**Note:**

Till here all backend work from eclipse side is done related to app development.

- Further we will see:
- How to create Fiori App
- How to Deploy App
- How to Create Tile and Test

STEP 10: Create Fiori Application

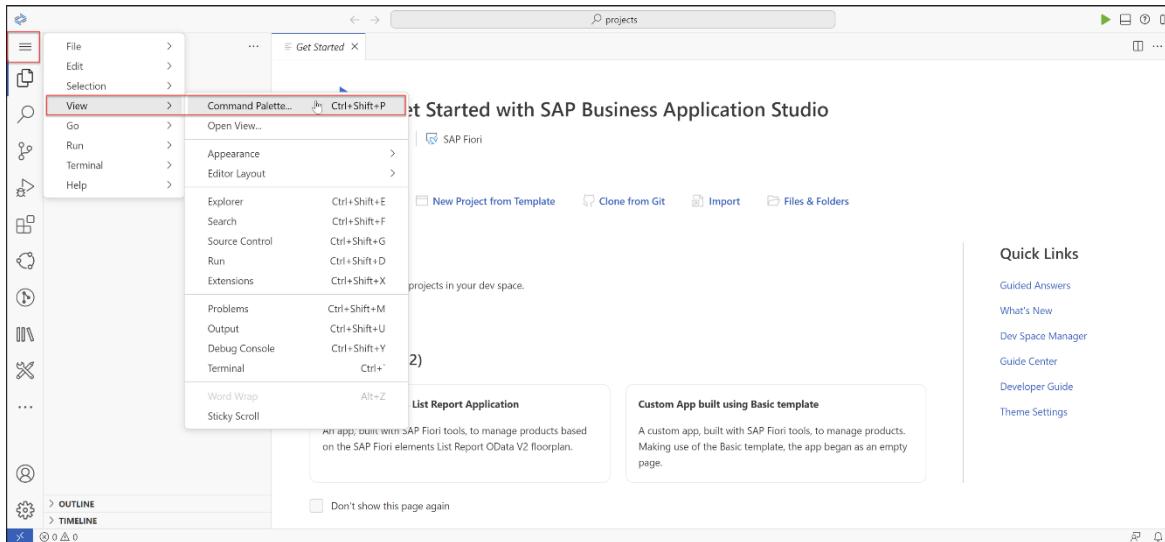
Open Your BAS (Business Application Studio)

Note:

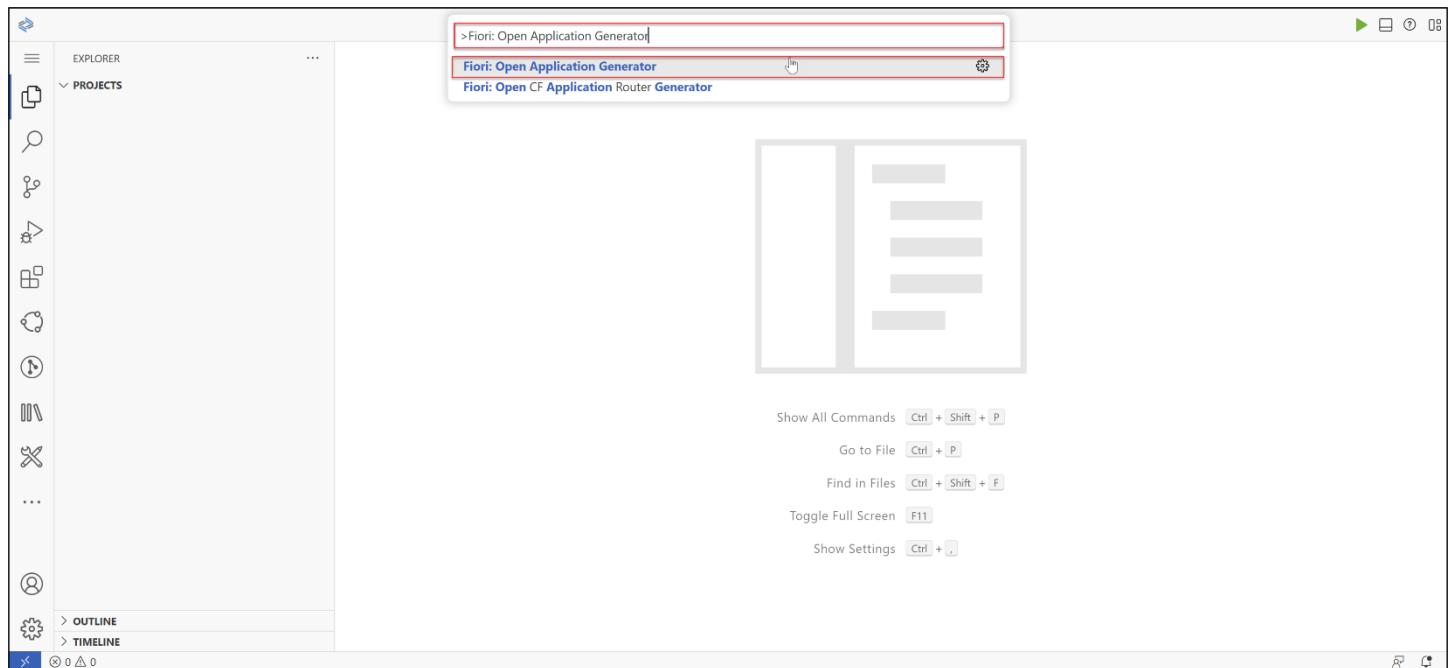
How to access BAS It's another debate, you can see other blogs as well to create subscription for BAS and access it through BTP.

Create list report object page

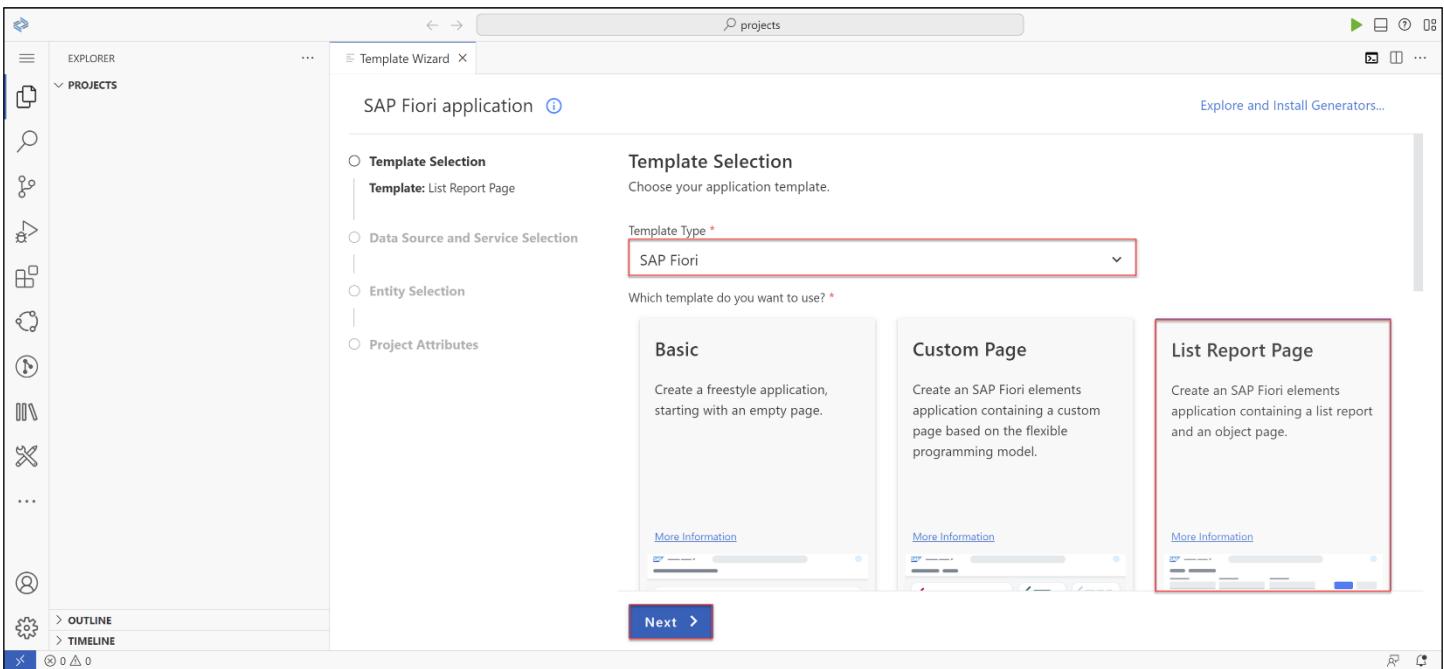
1. Select the menu on the left side and click View > Command Palette.



2. Search for **Fiori: Open Application Generator** and select it.

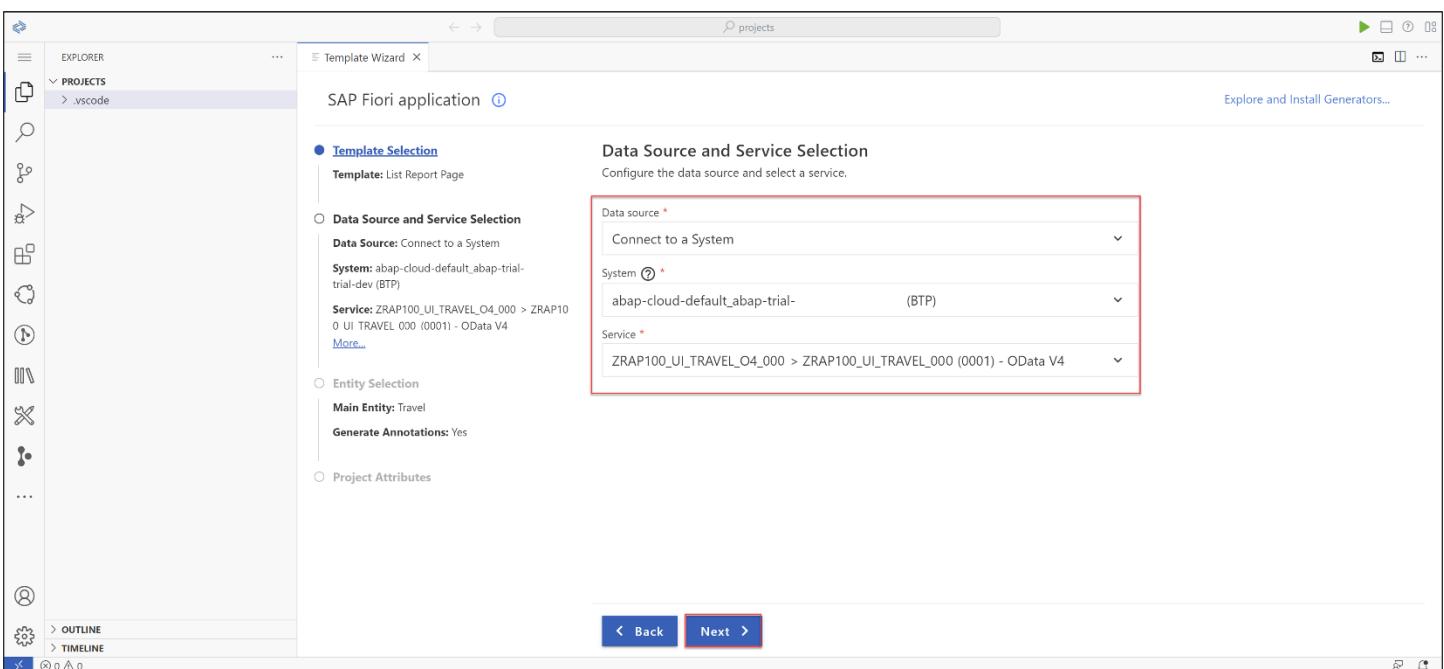


3. Select **List Report Page** and click **Next >**



4. Configure data source, system and service:

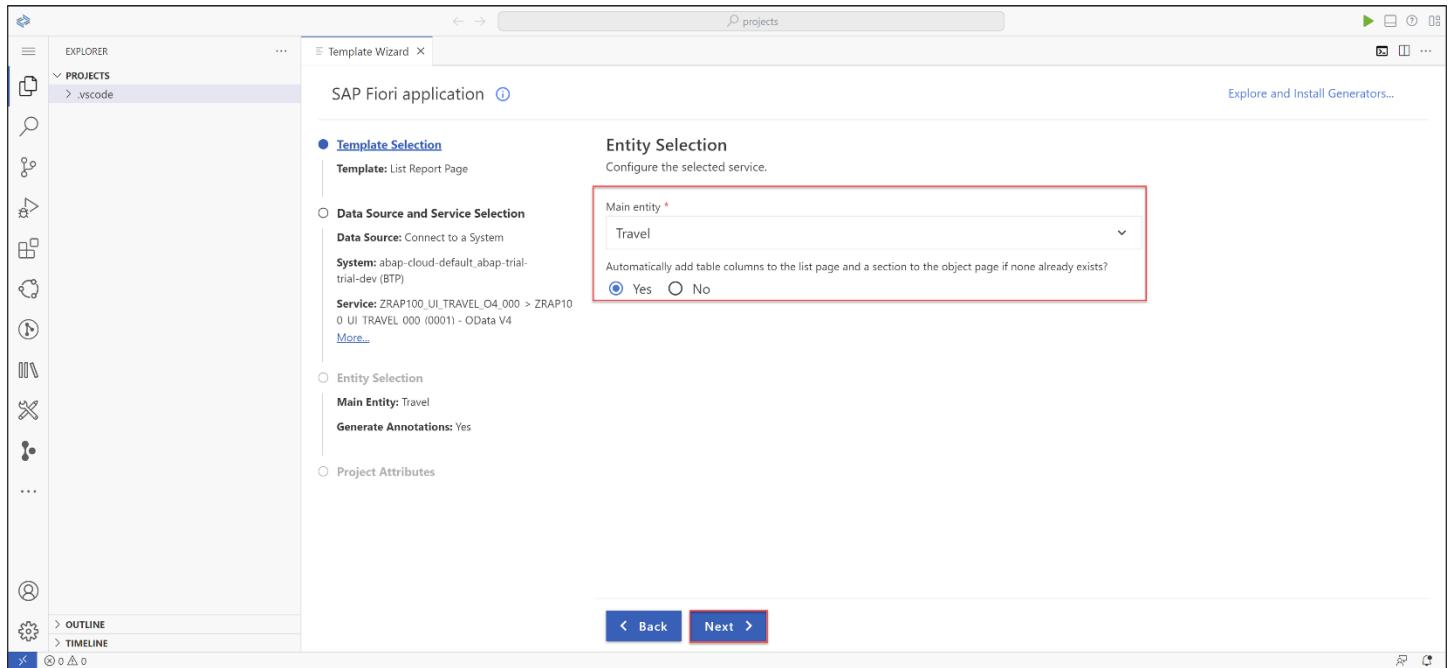
- Data source: **Connect to a System**
- System: <**your_abap_trial_system**>
- Service: **ZRAP100_UI_TRAVEL_O4_### (0001) - OData V4**
- In this image V4 is choose that is test service. (In Your Case it will be V2 as we have created V2)



Click Next >.

5. Select your main entity **Travel**, check **Yes** for adding automatically table columns and click **Next >**.

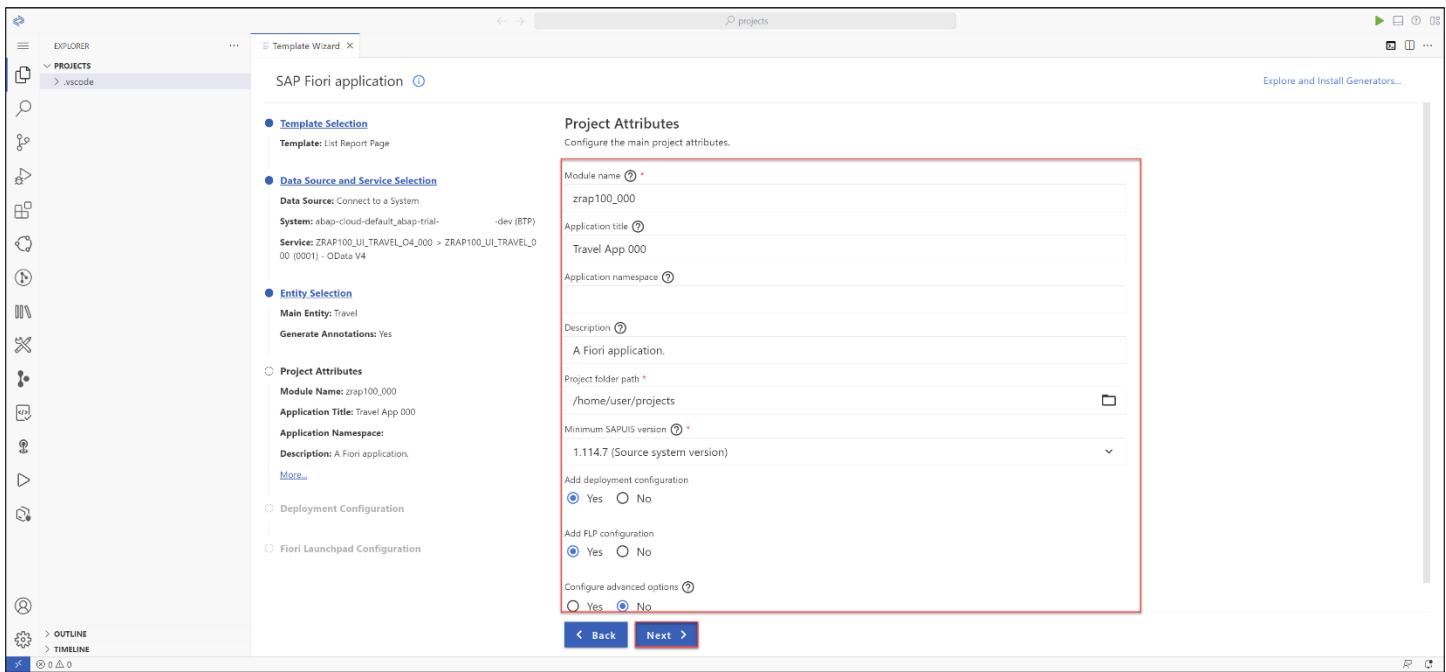
6. In V4 It asks for Entity if multiple entities exists otherwise just do next



7. Configure project attributes:

- a. Name: **ZRAP100_###**
- b. Title: **Travel App ###**
- c. Description: **A Fiori application.**
- d. Add deployment configuration: Yes
- e. Add FLP configuration: Yes
- f. Configure advanced options: No

Click **Next >**.

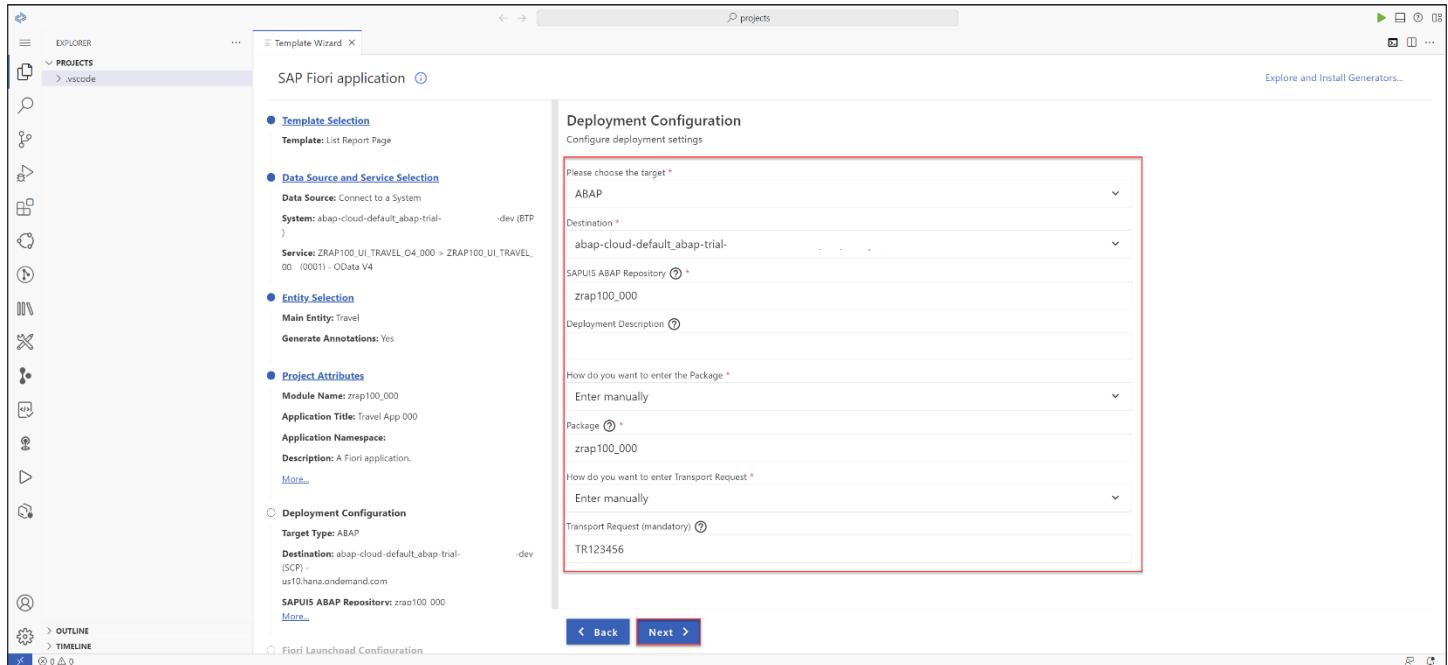


Hint:

Your **application name** must begin with a z letter and **must be in lowercase letters**.

8. Configure deployment:

- a. Target: ABAP
- b. Destination: <your_abap_trial_system>
- c. SAP UI5 ABAP Repository: ZRAP100_###
- d. Package: ZRAP100_### (Used for Eclipse development)
- e. Transport Request: <your_transport_request> (Which you have created in Eclipse)



Click **Next >**.

Hint:

If you want to copy your transport request, please do following: Open Eclipse, search your package **ZRAP100_###** and open it. Open your transport organizer to see your transport request. The transport request of the superior folder needs to be chosen. Copy your transport request for later use. You can find your **transport request** underneath the **Modifiable** folder.

Request: TR123456 (Workbench)

Properties

Short Description: * TR12345	Owner:	CB9980000073 (Merve Temel)	Browse...
------------------------------	--------	----------------------------	-----------

Overview Attributes

Problems Properties Templates Bookmarks Feed Reader Transport Organizer Console Search

type filter text

Transport Request

	Owner	Type
> CWR_EN [Not logged on yet]		
> FY4_EN [User filter: CB9980000073 (Merve Temel), refreshed: 11:39:54, 28.10.2021]		
< Workbench		
Local Change Requests		
Modifiable		
TR123456	CB9980000073 (Merve Temel)	CB9980000073 (Merve Temel)
		Development/Correction

9. Configure Fiori Launchpad:

- Semantic Object: ZRAP100_###
- Action: display
- Title: Travel App ###

SAP Fiori application

Fiori Launchpad Configuration

Configure Fiori Launchpad settings

Semantic Object *	zrap100_000
Action *	display
Title *	Travel App 000
Subtitle (optional)	

Template Selection
Template: List Report Page

Data Source and Service Selection
Data Source: Connect to a System
System: abap-cloud-default_abap-trial- dev (BTP)
Service: ZRAP100_UI_TRAVEL_04_000 > ZRAP100_UI_TRAVEL_000 (00011 - OData V4)

Entity Selection
Main Entity: Travel
Generate Annotations: Yes

Project Attributes
Module Name: zrap100_000
Application Title: Travel App 000
Application Namespace:
Description: A Fiori application.
[More...](#)

Deployment Configuration
Target Type: ABAP
Destination: abap-cloud-default_abap-(SCP) -

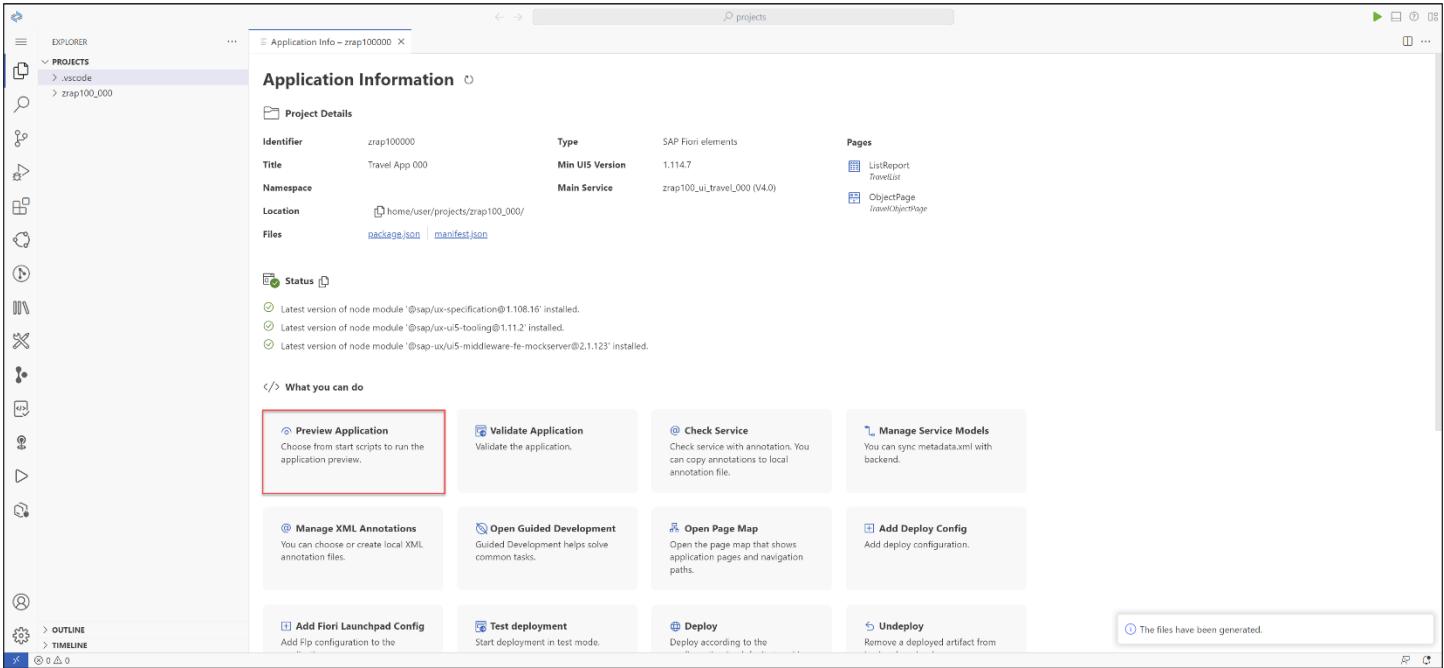
SAPUI5 ABAP Repository: zrap100_000
[More...](#)

Back Finish

Click **Finish**.

Run SAP Fiori application for data preview

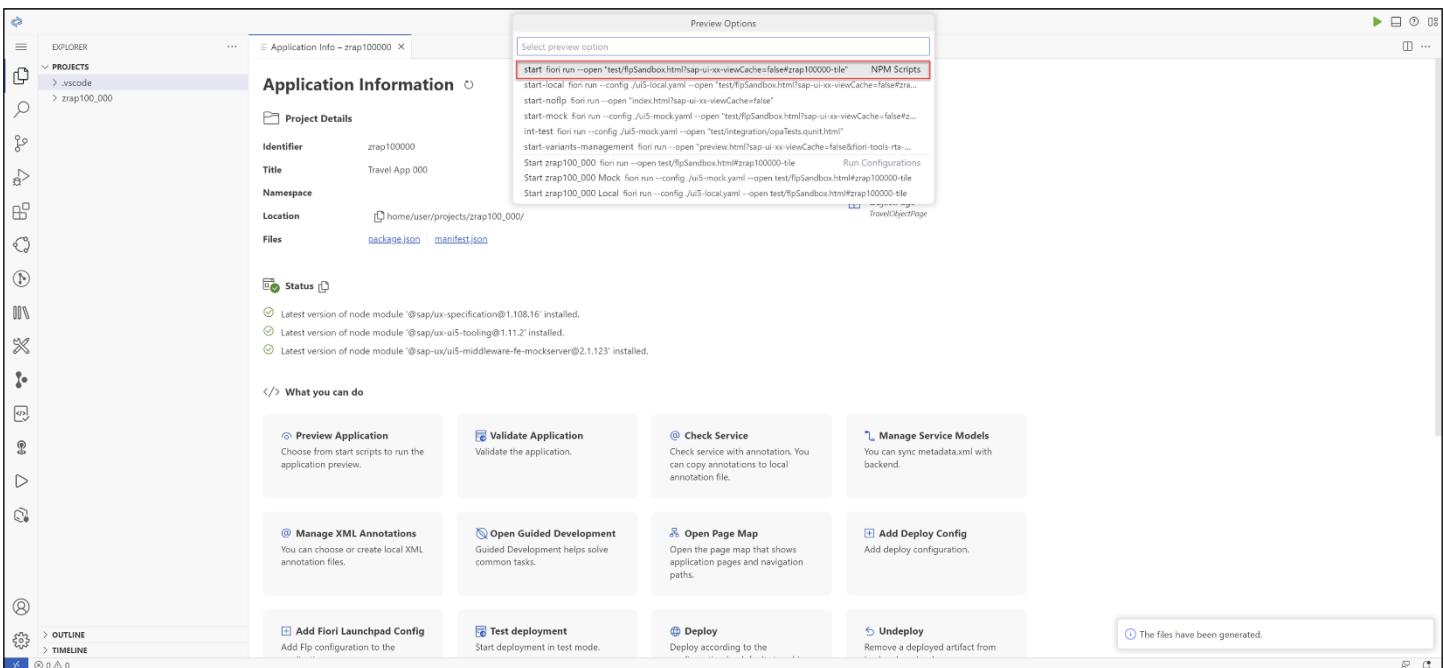
1. On the Application Information overview page select Preview Application.



Hint.

You can open the Application Information through the menu > View > Command Palette > search and select Application Information.

2. Select the first entry.



3. Your browser opens. Click **Go** and check your result.

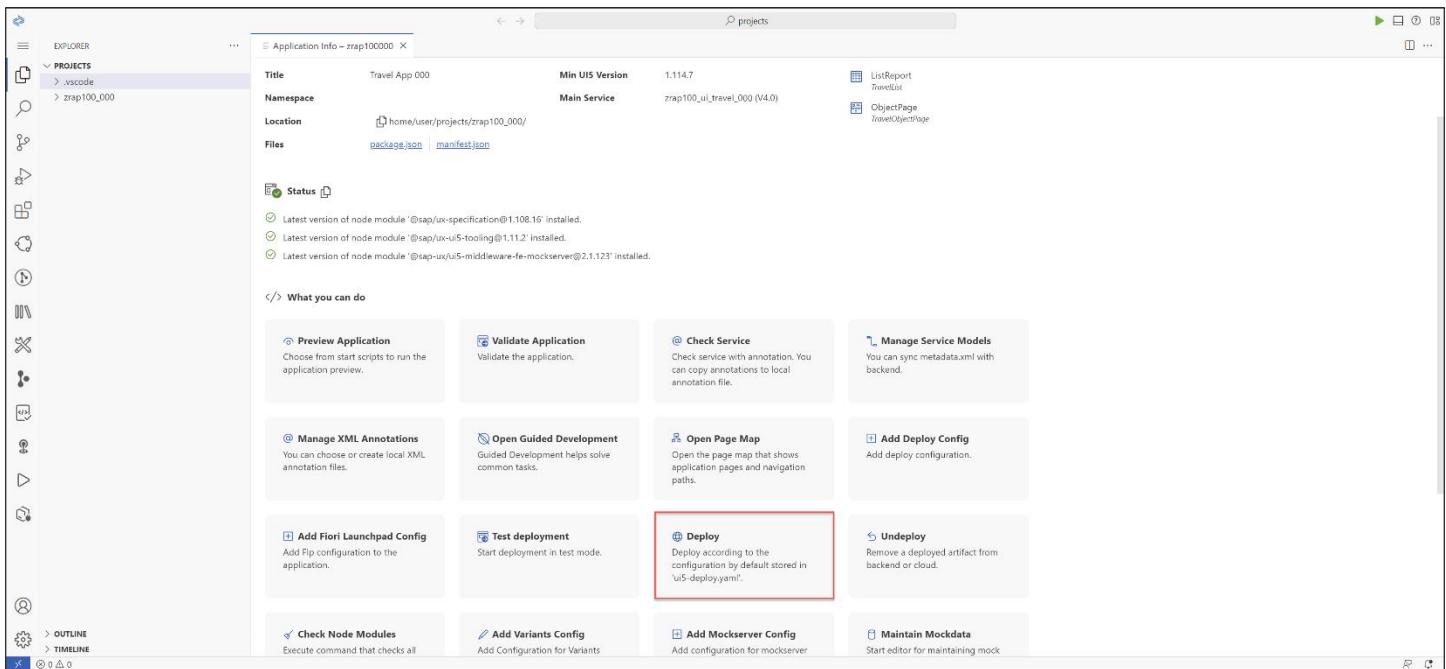
The screenshot shows a web-based application interface for managing travels. At the top, there is a header with the title "Standard" and a dropdown menu. Below the header is a search bar with fields for "Search", "Editing Status" (set to "All"), "Travel ID", "Agency ID", and "Customer ID". To the right of these fields are buttons for "Go" and "Adapt Filters (1)". Below the search bar is a toolbar with buttons for "Reject Travel", "Accept Travel", "Copy Travel", "Create", and "Delete". There is also a gear icon and a refresh/copy icon. The main area is titled "Travels" and contains a table with columns: "Travel ID", "Agency ID", "Customer ID", "Starting Date", "End Date", and "Overall Status". A message at the bottom of the table says "To start, set the relevant filters and choose 'Go'.".

Note:

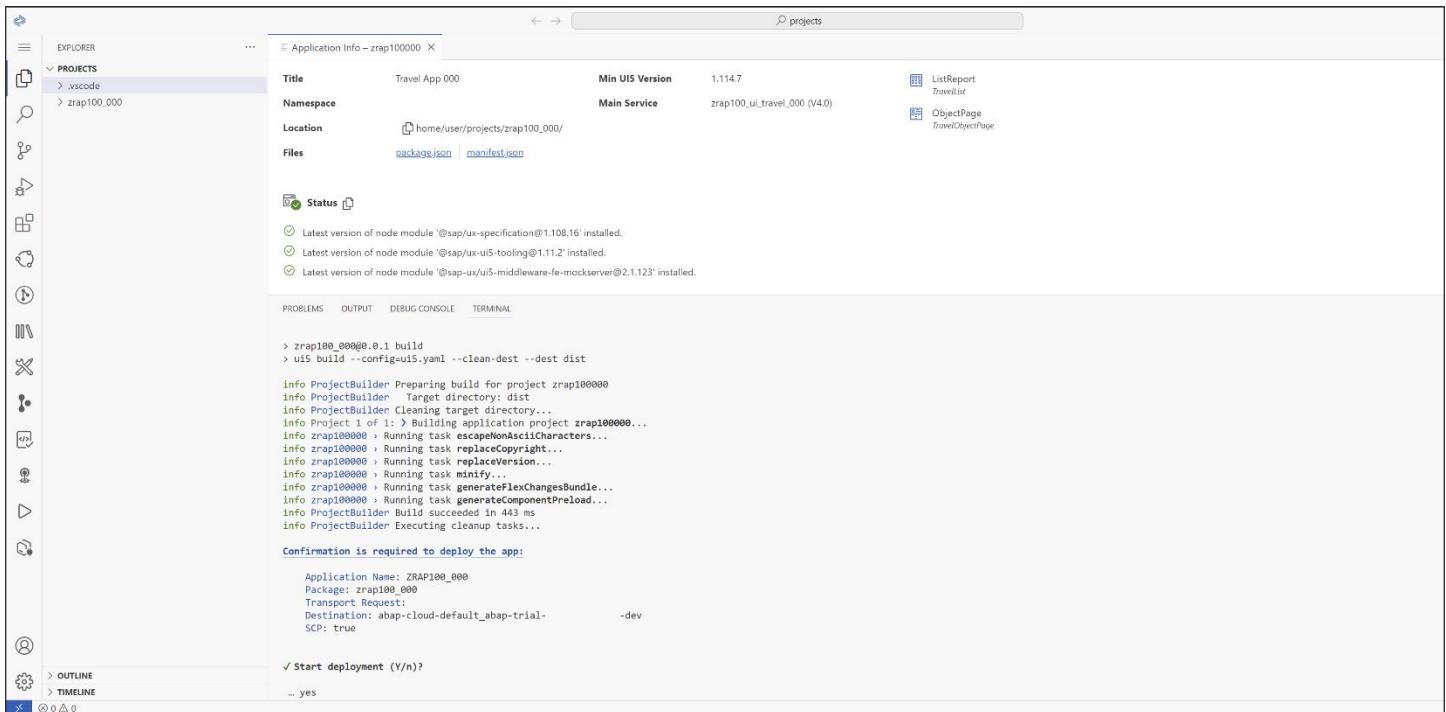
Mostly you face an error of **npm install**. You will just run the command **npm install** in command prompt to run. You will be able to see it in app info page.

STEP 11: Deploy your application

1. On the Application Information overview page select Deploy Application.



2. When prompted, check deployment configuration and press y.



3. When the deployment is successful, you will get this two information back as a result: **UIAD details** and **deployment successful**.

The screenshot shows the SAP UI5 IDE interface during deployment. The left sidebar has 'PROJECTS' selected, showing a project named 'Travel App 000'. The main area displays deployment logs for task 'ZRAP100_000'. The logs show the process of creating a new SAPUI5 ABAP repository, uploading files like 'manifest.json', and updating the application index. A red box highlights the final message: 'Deployment Successful.' at the bottom of the log.

```

Application Info - zrap100000
Title: Travel App 000
Namespace: zrap100_000
Location: home/user/projects/zrap100_000/
Files: package.json manifest.json

Status:
Latest version of node module '@sap/ux-specification@1.108.16' installed.
Latest version of node module '@sap/ux-ui5-tooling@1.11.2' installed.
Latest version of node module '@sap/ux/ui5-middleware-fe-mockserver@2.1.123' installed.

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

info abap-deploy-task ZRAP100_000 The acceptance of Unix style end of line markers in text files has been determined from the corresponding import parameter.
info abap-deploy-task ZRAP100_000 Unix style end of line markers in text files get accepted.
info abap-deploy-task ZRAP100_000 The delta mode has been turned on.
info abap-deploy-task ZRAP100_000 Running in safe mode.
info abap-deploy-task ZRAP100_000 * Creating new SAPUI5 ABAP repository ZRAP100_000 *
info abap-deploy-task ZRAP100_000 * Creating new SAPUI5 ABAP repository ZRAP100_000 *
info abap-deploy-task ZRAP100_000 Upload File : annotations/applicationMetadata.xml (Text)
info abap-deploy-task ZRAP100_000 Upload File : component-dbg.js (Text)
info abap-deploy-task ZRAP100_000 Upload File : Component-preload.js (Text)
info abap-deploy-task ZRAP100_000 Upload File : Component.js.map (Text)
info abap-deploy-task ZRAP100_000 Upload File : Component.js.map (Text)
info abap-deploy-task ZRAP100_000 Upload File : libn/libn.js.map (Text)
info abap-deploy-task ZRAP100_000 Upload File : localService/localService.js (Text)
info abap-deploy-task ZRAP100_000 Upload File : localService/metadata.xml (Text)
info abap-deploy-task ZRAP100_000 Upload File : manifest.json (Text)
info abap-deploy-task ZRAP100_000 * Updating the Application Index *
info abap-deploy-task ZRAP100_000 Messages from its application log:
info abap-deploy-task ZRAP100_000 Writing description for /UI5/BC/BC-ABA-LA/app/zrap100_000/
info abap-deploy-task ZRAP100_000 SAPUI5 Repository ZRAP100_000 belongs to application component BC-ABA-LA
info abap-deploy-task ZRAP100_000 Updated UIADS for UI5 Repository ZRAP100_000, package ZRAP100_000 transport
info abap-deploy-task ZRAP100_000 Fiori Launchpad App Descr Item ZRAP100_000_UISR was created
info abap-deploy-task ZRAP100_000 For details see the application log (SLG1) in client 000 for object /UI5/APIDX .
info abap-deploy-task ZRAP100_000 A BADI implementation for /UI5/BADI_REPOSITORY_LOAD is active: Final activities may have been performed.
info abap-deploy-task ZRAP100_000 SAPUI5 Application has been uploaded and registered successfully
info abap-deploy-task ZRAP100_000 Deployment successful.
info abap-deploy-task ZRAP100_000 App available at https://.abap-web.us10.hana.ondemand.com/sap/bc/ui5_ui5/sap/zrap100_000
info abap-deploy-task ZRAP100_000 Deployment Successful.

user: zrap100_000 $ [ ]

```

Check BSP library and SAP Fiori Launchpad app descriptor item in Eclipse

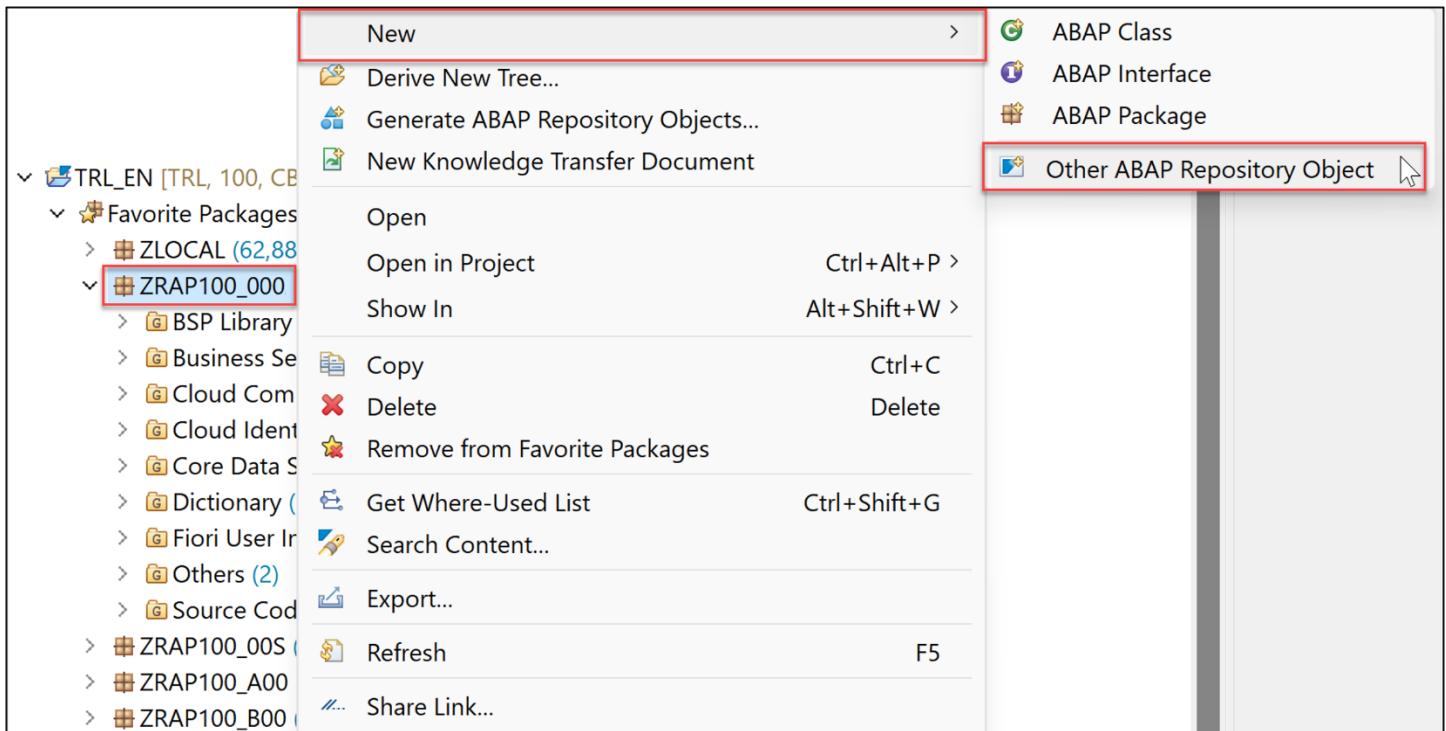
1. Open Eclipse and check the **BSP library** and **SAP Fiori Launchpad app descriptor item folder** in your package **ZRAP100_###**. If you are not able to see BSP applications and SAP Fiori Launchpad app description items, refresh your package ZRAP100_### by pressing F5.

The screenshot shows the Eclipse Project Explorer interface. A package named 'ZRAP100_000' is selected. Inside it, there are several sub-folders: 'BSP Library', 'Business Services', 'Cloud Communication Management', 'Cloud Identity and Access Management', 'Core Data Services', 'Dictionary', 'Fiori User Interface', 'Launchpad App Descriptor Items', 'Others', and 'Source Code Library'. The 'BSP Applications' folder is currently selected, indicated by a blue selection bar around its icon and name. The 'Launchpad App Descriptor Items' folder under 'Fiori User Interface' also has a blue selection bar. Other items like 'ZLOCAL' and 'ZRAP100_000' have a light orange background, while others like 'BSP Library' and 'Source Code Library' have a light grey background.

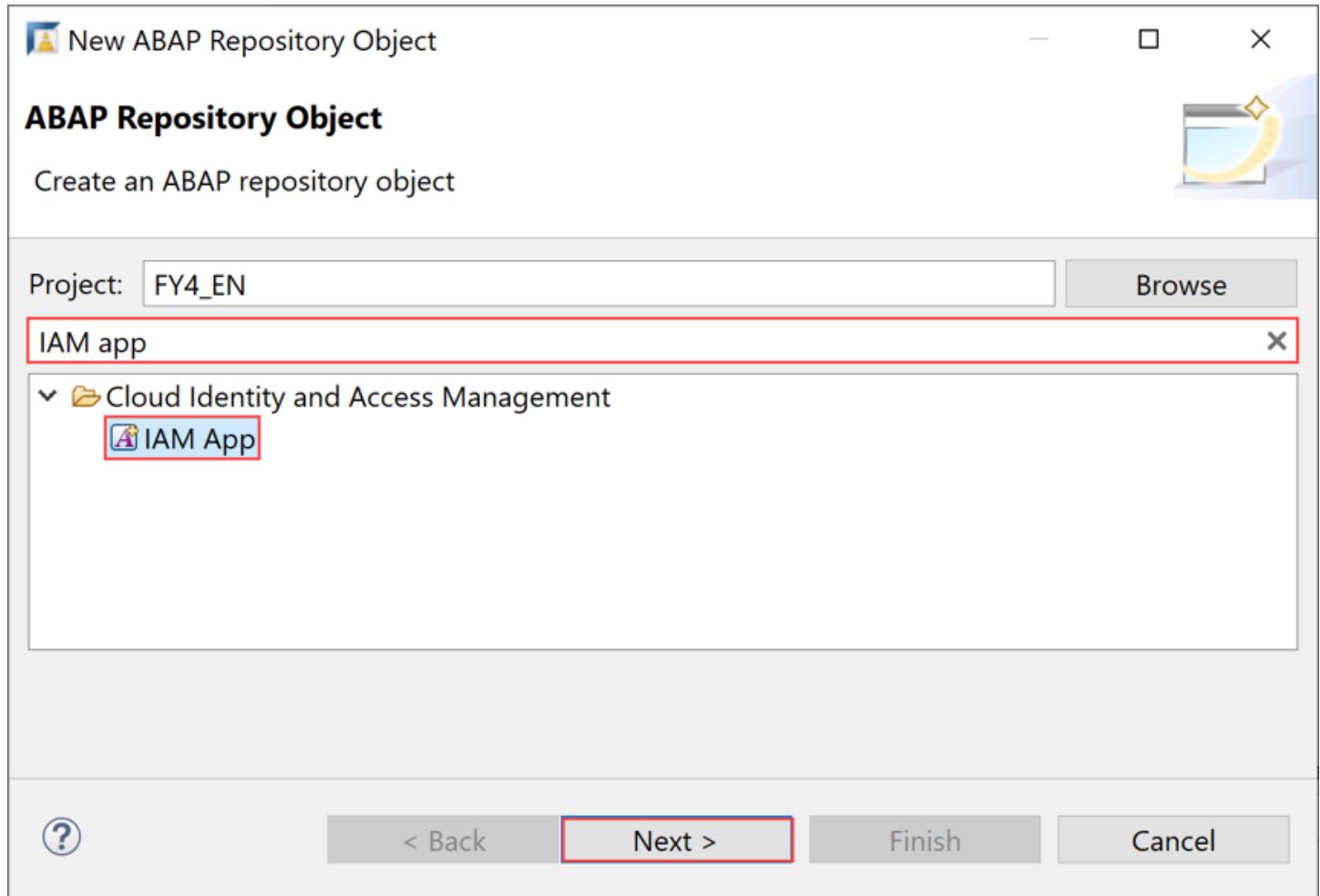
- ✓ TRL_EN [TRL, 100, CB9980004685, EN]
 - ✓ Favorite Packages (62,888)
 - > ZLOCAL (62,884) Generated Package for ZLOCAL
 - ✓ ZRAP100_000 (18) RAP100 Package 000
 - ✓ BSP Library (1)
 - ✓ BSP Applications (1)
 - > ZRAP100_000 Deployed with SAP Fiori tools
 - > Business Services (2)
 - > Cloud Communication Management (1)
 - > Cloud Identity and Access Management (1)
 - > Core Data Services (5)
 - > Dictionary (2)
 - ✓ Fiori User Interface (1)
 - ✓ Launchpad App Descriptor Items (1)
 - > ZRAP100_000_UI5R Travel App 000
 - > Others (2)
 - > Source Code Library (3)

STEP 12: Create IAM APP

1. In Eclipse right-click your package **ZRAP100_###** and select **New > Other Repository Object**.



2. Search for **IAM App**, select it and click **Next >**.



3. Create a new IAM App:

- o Name: **ZTRAVEL_IAM_###**
- o Description: IAM App for travel app

New IAM App

IAM App

Create IAM App

A

Project: * TRL_EN Browse...

Package: * ZRAP100_000 Browse...

Add to favorite packages

Name: * ZTRAVEL_IAM_000

Description: * IAM App for travel app

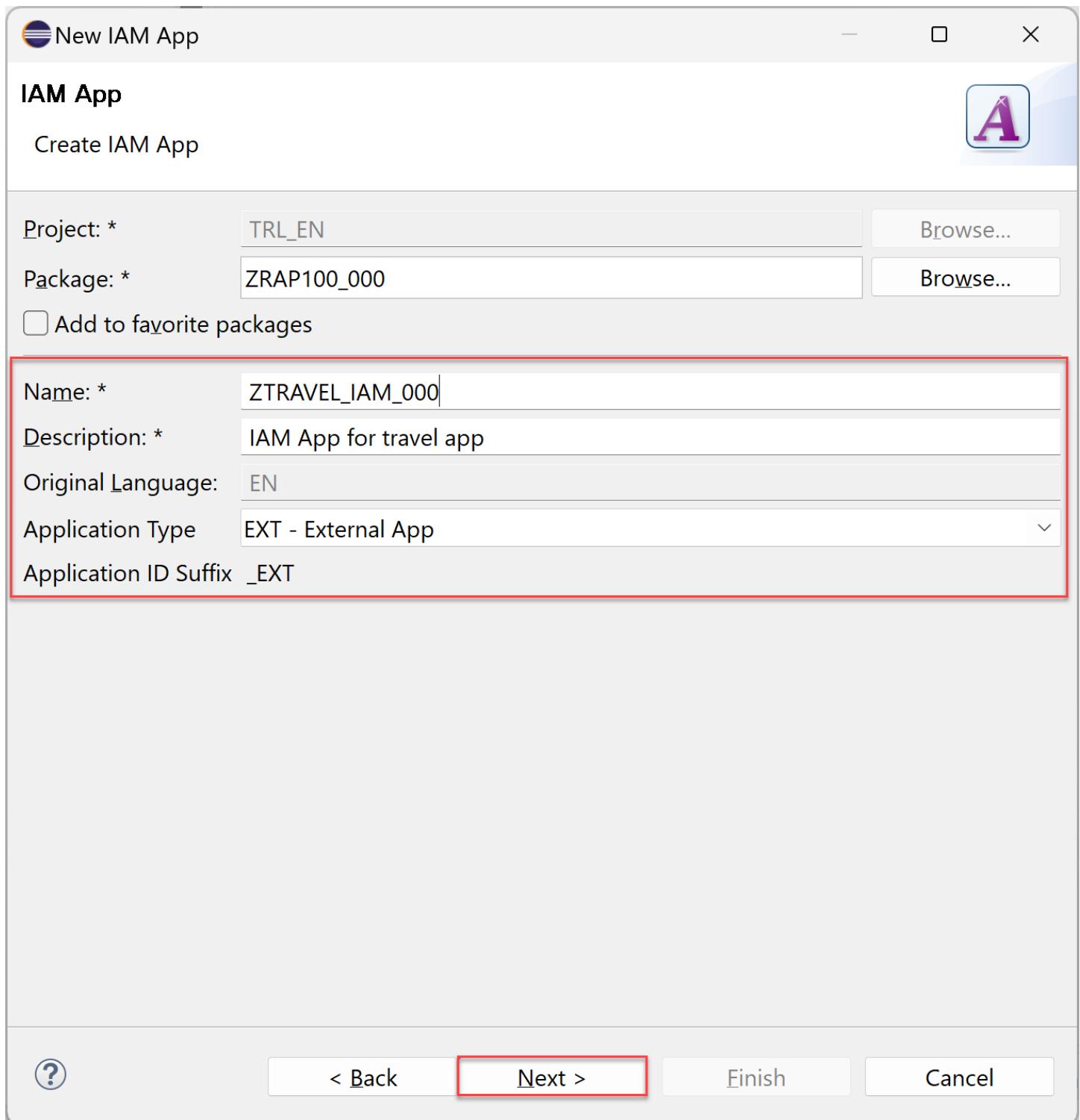
Original Language: EN

Application Type EXT - External App

Application ID Suffix _EXT

?

< Back Next > Finish Cancel



Click **Next >**.

4. Click **Finish**.



Select Transport Request

- For ZTRAVEL_IAM_000 (IAM App), the selected transport request will be used



- Choose from requests in which I am involved

[Configure Columns](#)

Transport Requ...	Owner	Target	Description	CTS Proj...
TRLK908067	CB99800046...		Tr12345	
TRLK908063	CB99800046...		TR123456	

- Create a new request

[Browse...](#)

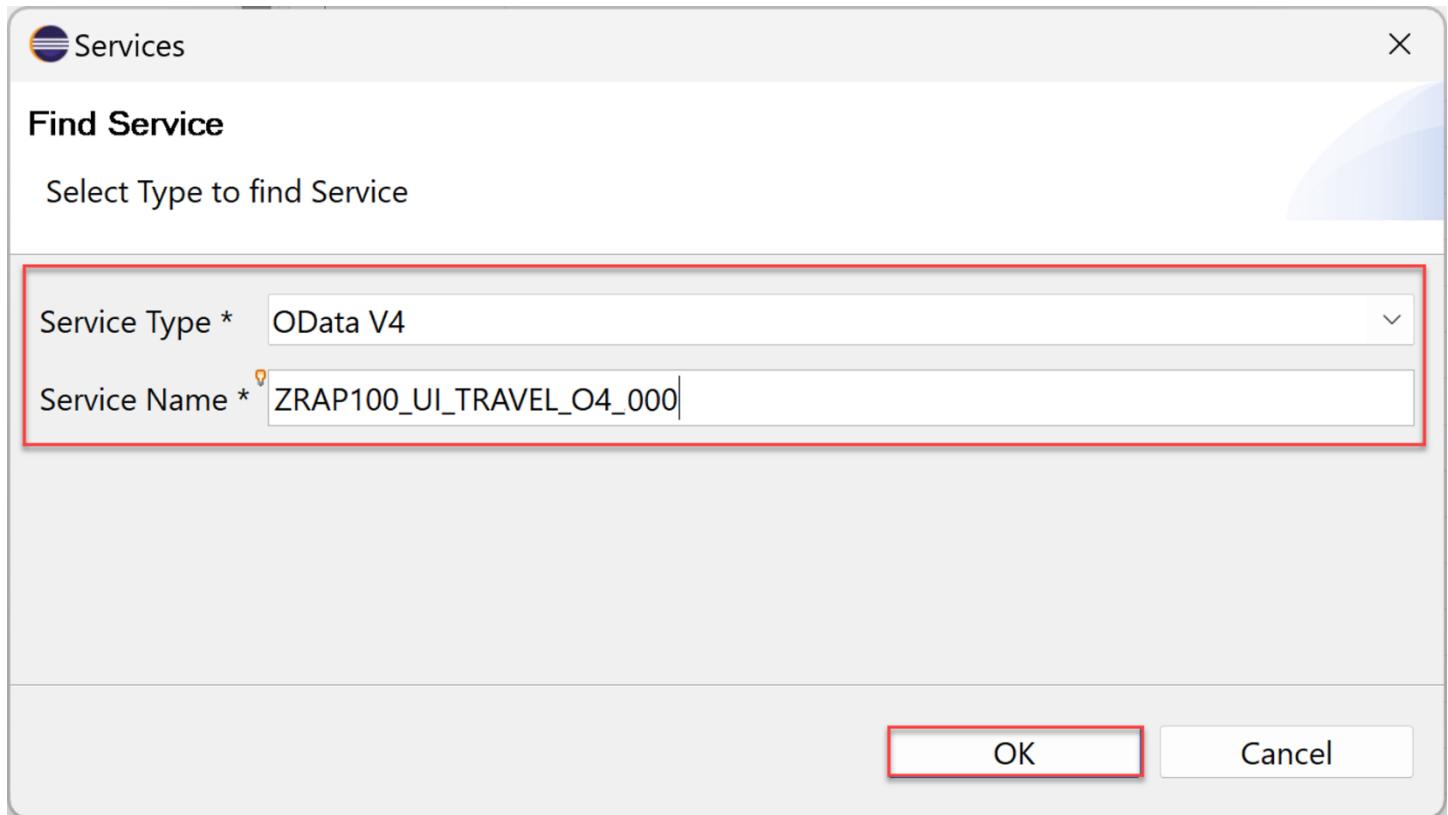
- Enter a request number

[Browse...](#)[Back](#)[Next >](#)[Finish](#)[Cancel](#)

5. Select **Services** and add a new one.

6. Select following:

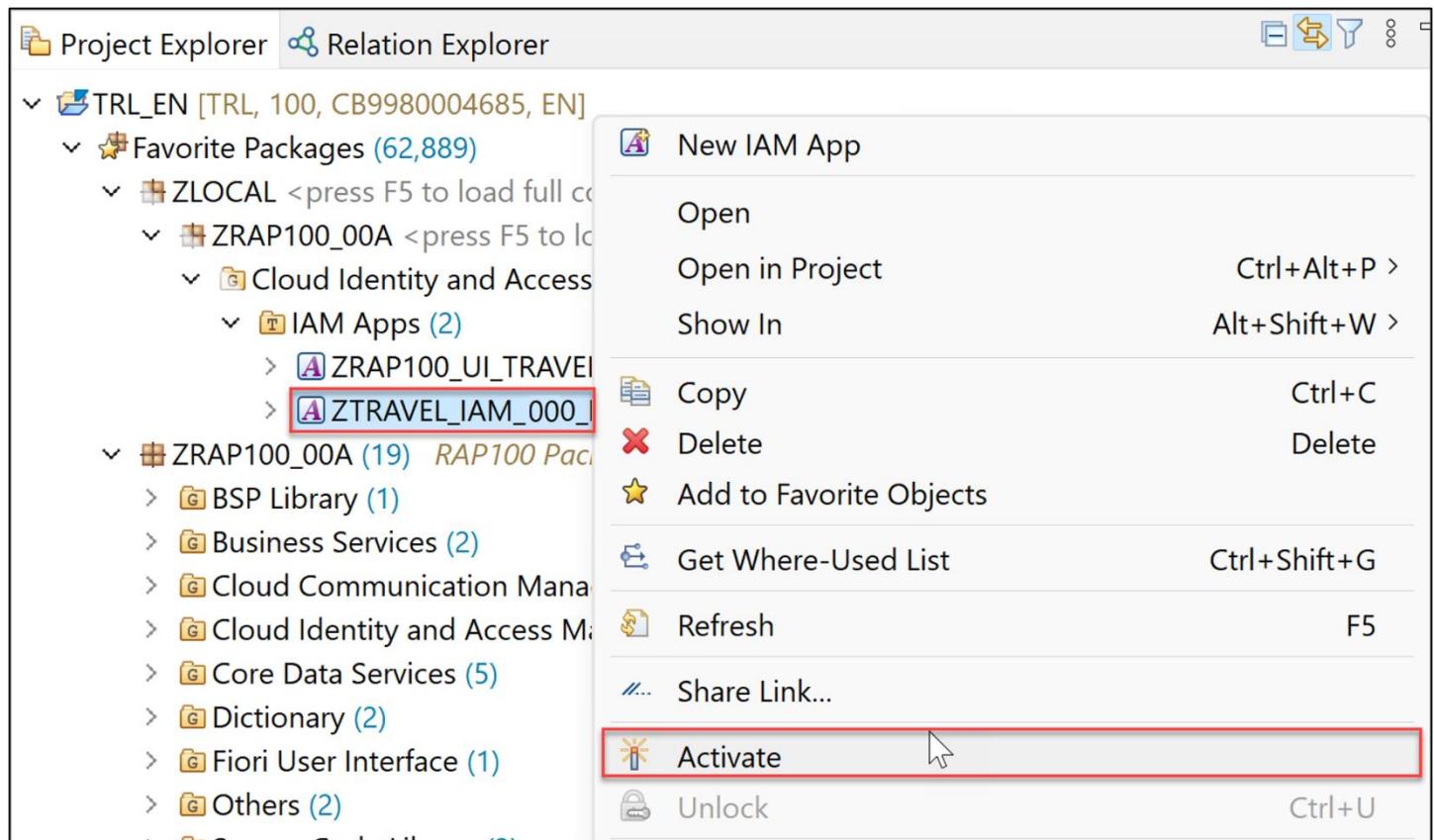
- o Service Type: OData V4
- o Service Name: ZRAP100_UI_TRAVEL_O4_###



Hint: With **CTRL + Space** you can search for your Service.

Click **OK**.

Save and activate your IAM app.

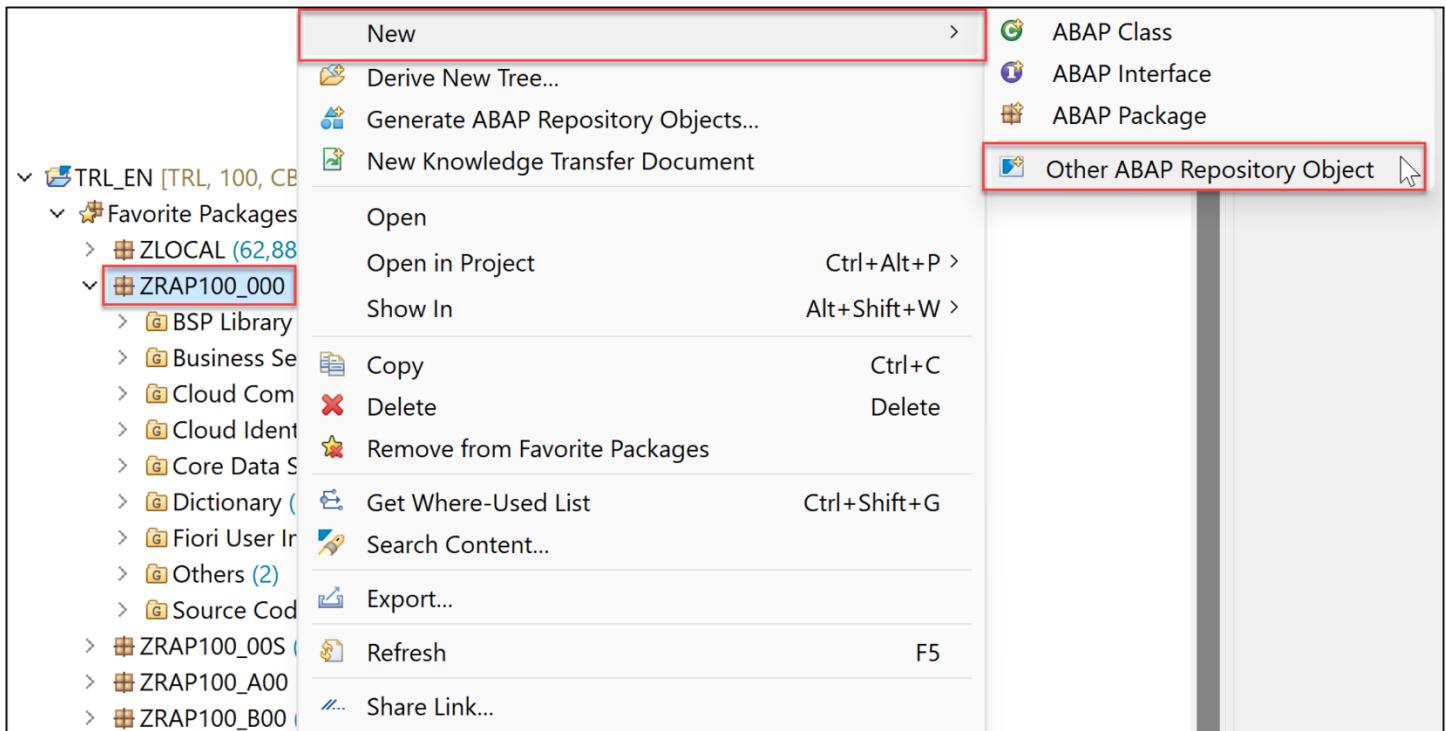


Note:

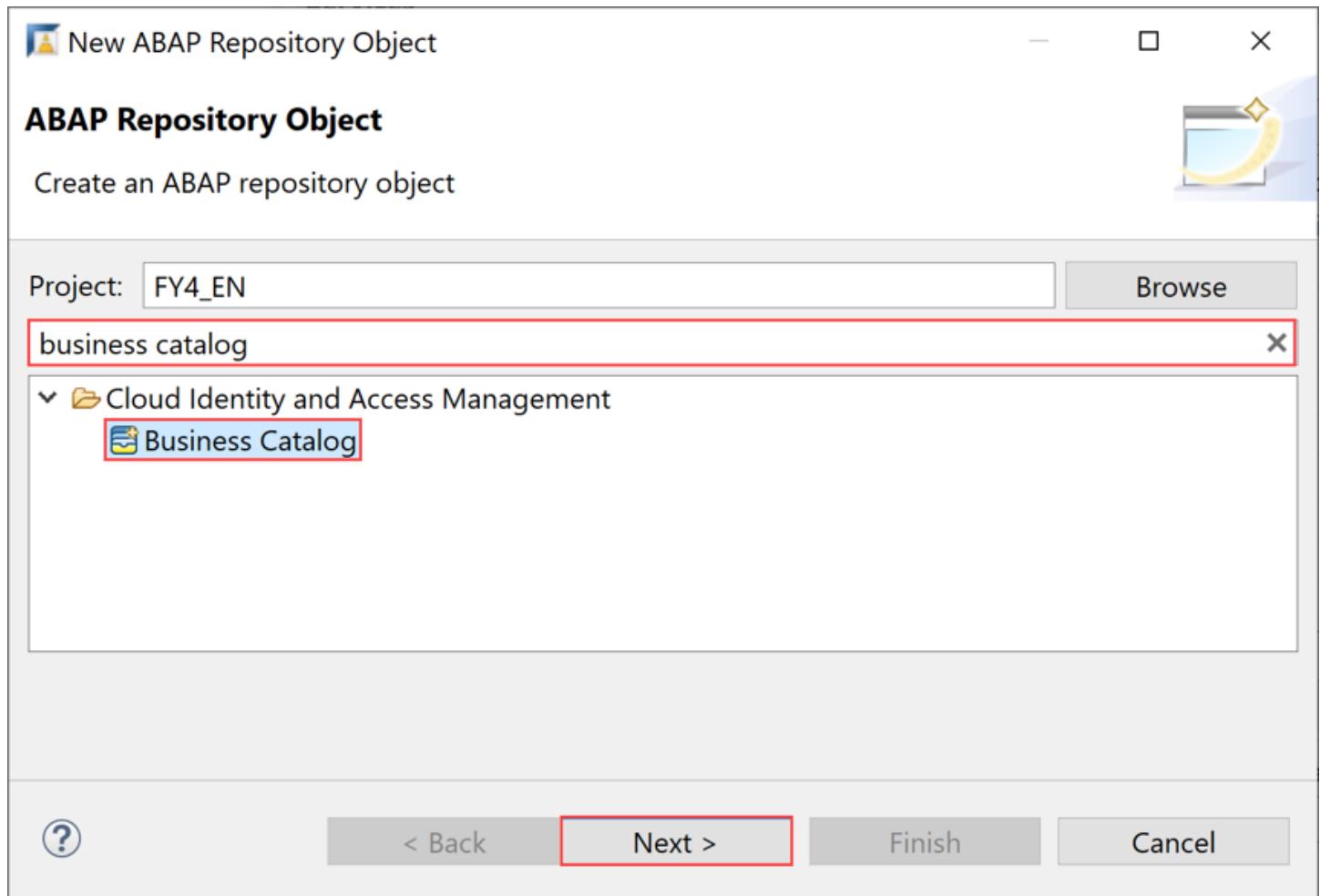
Sometime Activate Button does not be able to click. In this case just Publish your I AM APP.

STEP 13: Create business catalog

1. Right-click your package **ZRAP100_###** and select **New > Other Repository Object**.



2. Search for **Business Catalog**, select it and click **Next >**.



3. Create a new business catalog:

- o Name: **ZTRAVEL_BC_###**
- o Description: Business catalog for travel app

New Business Catalog

Business Catalog

Create Business Catalog



Project: * TRL_EN

Package: * ZRAP100_00A

Add to favorite packages

Name: * ZTRAVEL_BC_000

Description: * Business catalog for travel

Original Language: EN

Next > Next >

Click **Next >**.

4. Click **Finish**.

New Business Catalog

Select Transport Request



ⓘ For ZTRAVEL_BC_000 (Business Catalog), the selected transport request will be used

Choose from requests in which I am involved  Configure Columns

type filter text

Transport Requ...	Owner	Target	Description	CTS Proj...
TRLK908067	CB99800046...		Tr12345	
TRLK908063	CB99800046...		TR123456	

Create a new request

Request Description: *

CTS Project: Browse...

Enter a request number

Request Number: Browse...

? < Back Next > Finish Cancel

5. Select Apps and add a new one.

The screenshot shows a software application window titled "Business Catalog: ZTRAVEL_BC_000". The window has a toolbar at the top with icons for file operations and a "Publish Locally" button, which is highlighted with a red box. Below the toolbar, there is a section titled "Apps" with a dropdown arrow. Underneath this are two buttons: "Add..." and "Remove", with "Add..." also highlighted by a red box. A search bar labeled "type filter text" is present. A table follows, with columns "Assignment ID" and "App ID". The table currently contains one row with the values "Assignment ID" and "App ID". At the bottom of the window, there is a navigation bar with three tabs: "Overview", "Apps" (which is highlighted with a red box), and "Restriction Types".

6. Create a new business catalog:

- o IAM App: ZTRAVEL_IAM_###_EXT
- o Name: ZTRAVEL_BC_###_0001
- o Description: Business Catalog to IAM App assignment

New Business Catalog App Assignment

Business Catalog App Assignment

Create Business Catalog App Assignment



Project: * TRL_EN

Package: * ZRAP100_000

Add to favorite packages

Business Catalog: * ZTRAVEL_BC_000

IAM App: * ZTRAVEL_IAM_000_EXT

Name: * ZTRAVEL_BC_000_0001

Description: * Business Catalog to IAM App assignment

< Back

Click **Next >**

7. Click **Finish**.

New Business Catalog App Assignment

Select Transport Request

ⓘ For ZTRAVEL_BC_000_0001 (Business Catalog App Assignment), the selected transport request will be used

Choose from requests in which I am involved

Transport Requ...	Owner	Target	Description	CTS Proj...
TRLK908067	CB99800046...		Tr12345	
TRLK908063	CB99800046...		TR123456	

Create a new request

Request Description: *

CTS Project:

Enter a request number

Request Number:

8. Click **Publish Locally** to publish your business catalog.

Business Catalog: ZTRAVEL_BC_000

Publish Locally

Apps

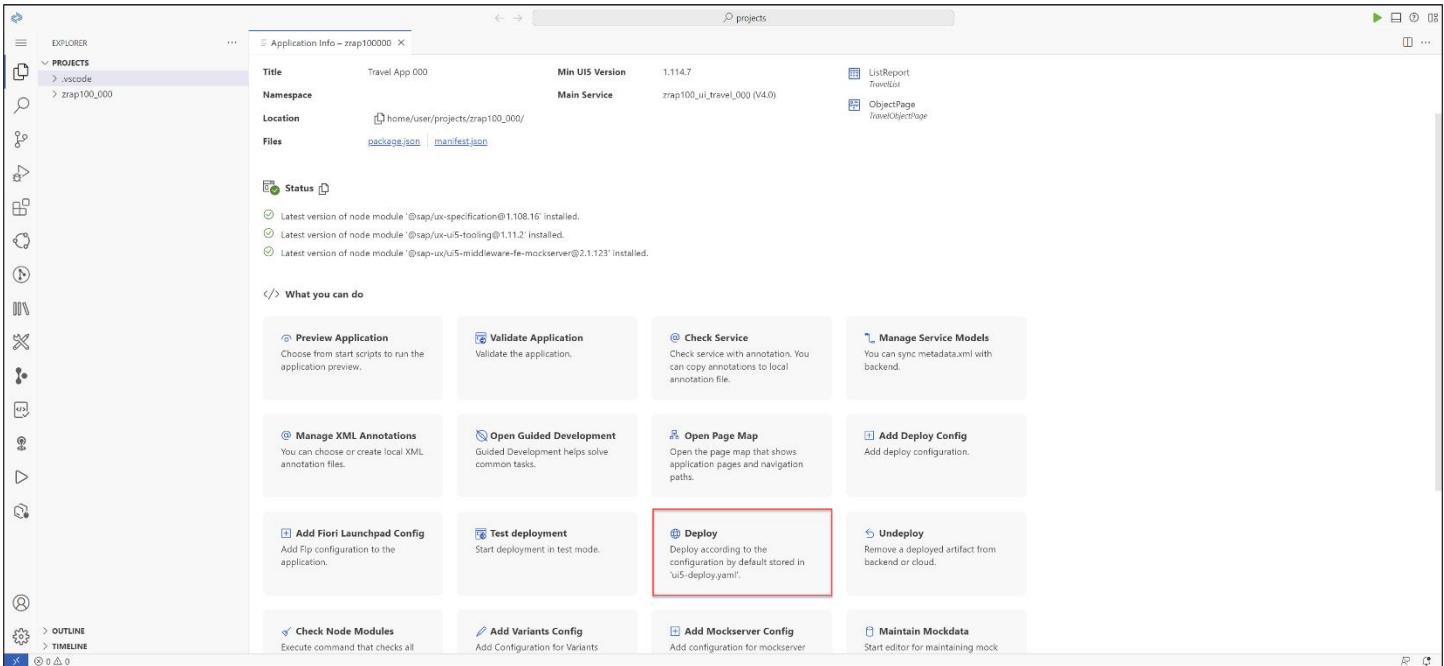
Add... Remove

type filter text

Assignment ID	App ID
ZTRAVEL_BC_000_0001	ZTRAVEL_IAM_000_EXT

STEP 14: Run SAP Fiori application

1. On the Application Information overview page select Deploy Application.

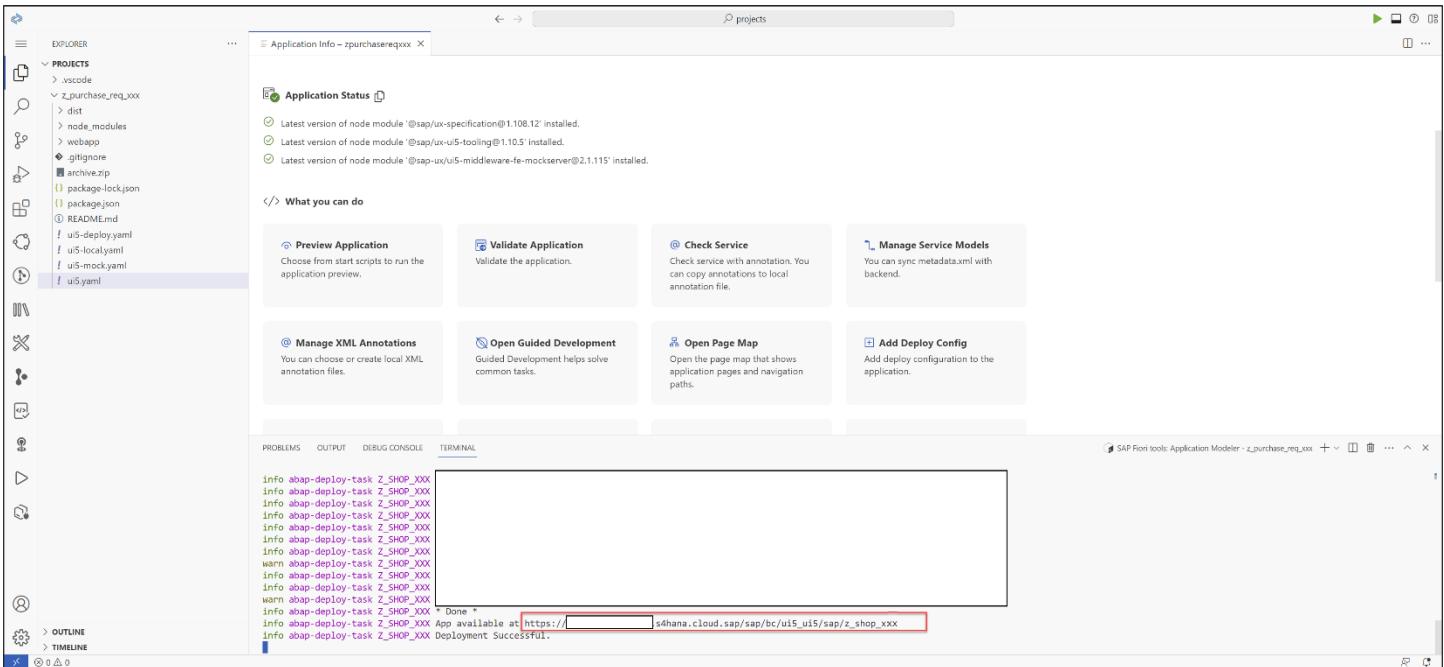


2. When prompted, check deployment configuration and press y.

The screenshot shows the SAP Fiori Launchpad interface with the terminal tab open. The terminal window displays deployment logs for the 'Travel App 000' project. The logs show the deployment process starting, creating a new SAPUI5 ABAP repository, uploading files, and finally registering the application. The last line of the log shows the deployment was successful.

```
info abap-deploy-task ZRAP100_000 The acceptance of Unix style end of line markers in text files has been determined from the corresponding import parameter.
info abap-deploy-task ZRAP100_000 Unix style end of line markers in text files get accepted.
info abap-deploy-task ZRAP100_000 The delta mode has been turned on.
info abap-deploy-task ZRAP100_000 Running in safe mode
info abap-deploy-task ZRAP100_000 * Creating new SAPUI5 ABAP repository ZRAP100_000 *
info abap-deploy-task ZRAP100_000 * Creating new SAPUI5 ABAP repository ZRAP100_000
info abap-deploy-task ZRAP100_000 Upload File : annotations/annotation.xml (Text)
info abap-deploy-task ZRAP100_000 Upload File : Component-dbg.js (Text)
info abap-deploy-task ZRAP100_000 Upload File : Component-preload.js (Text)
info abap-deploy-task ZRAP100_000 Upload File : Component-preload.js.map (Text)
info abap-deploy-task ZRAP100_000 Upload File : Component.js (Text)
info abap-deploy-task ZRAP100_000 Upload File : Component.js.map (Text)
info abap-deploy-task ZRAP100_000 Upload File : libn/libn.properties (Text)
info abap-deploy-task ZRAP100_000 Upload File : index.html (Text)
info abap-deploy-task ZRAP100_000 Upload File : localService/metadata.xml (Text)
info abap-deploy-task ZRAP100_000 Upload File : manifest.json (Text)
info abap-deploy-task ZRAP100_000 Uploading the Application ...
info abap-deploy-task ZRAP100_000 Messages from its application log:
info abap-deploy-task ZRAP100_000 Writing descriptor apps/zrap100000/app/sap/zrap100_000
info abap-deploy-task ZRAP100_000 SAPUI5 repository ZRAP100_000 belongs to application component BC-ABA-LA
info abap-deploy-task ZRAP100_000 Updated UIAdts for UI5 Repository ZRAP100_000, package ZRAP100_000 transport
info abap-deploy-task ZRAP100_000 Fiori Launchpad App Deployment ZRAP100_000 was created
info abap-deploy-task ZRAP100_000 For details see the application log (SLOG) in the log for object /UI5/APIDX
info abap-deploy-task ZRAP100_000 A BAPI Implementation for /UI5/BAPI_REPOSITORY_LOAD is active: Final activities may have been performed.
info abap-deploy-task ZRAP100_000 SAPUI5 Application has been uploaded and registered successfully
info abap-deploy-task ZRAP100_000 * Done *
info abap-deploy-task ZRAP100_000 App available at https://.abap-web.us10.hana.ondemand.com/sap/bc/ui5/ui5/zrap100_000
info abap-deploy-task ZRAP100_000 Deployment Successful.
user: zrap100_000 $ [ ]
```

3. Press **CTRL** and click the following link to open the URL in a browser.



4. Log in to your system.

The screenshot shows the 'Log On' screen for the '1S4HANA Cloud Development Tenant'. The left side features the SAP logo and the tenant name. The right side contains fields for 'E-Mail or User Name' (Example@email.com) and 'Password' (*****). There is a 'Remember me' checkbox and a 'Log On' button. Below the button is a 'Forgot password?' link.

5. Click **Go** and check your result.

The screenshot shows a SAP Fiori application interface. At the top left is the SAP logo and the text "Online Shop XXX". To the right are navigation icons and a blue circular button labeled "DU". Below the header, the word "Standard" is displayed in blue. On the far right, there is a dropdown menu with a gear icon and a "v" symbol. The main area is titled "OnlineShops (2)". It features a table with the following columns: OrderID, OrderedItem, Price, TotalPrice, Currency, OrderQua..., DeliveryDate, OverallStatus, and Notes. A single row is visible, showing OrderID 1, OrderedItem Phone, Price 1,000, TotalPrice 1,000, Currency EUR, DeliveryDate Sep 1, 2023, OverallStatus New / Composing, and Notes empty. Above the table are buttons for "Create purchase requisition item", "Create", "Delete", and "Adapt Filters (1)". There are also icons for search, filter, settings, and refresh.

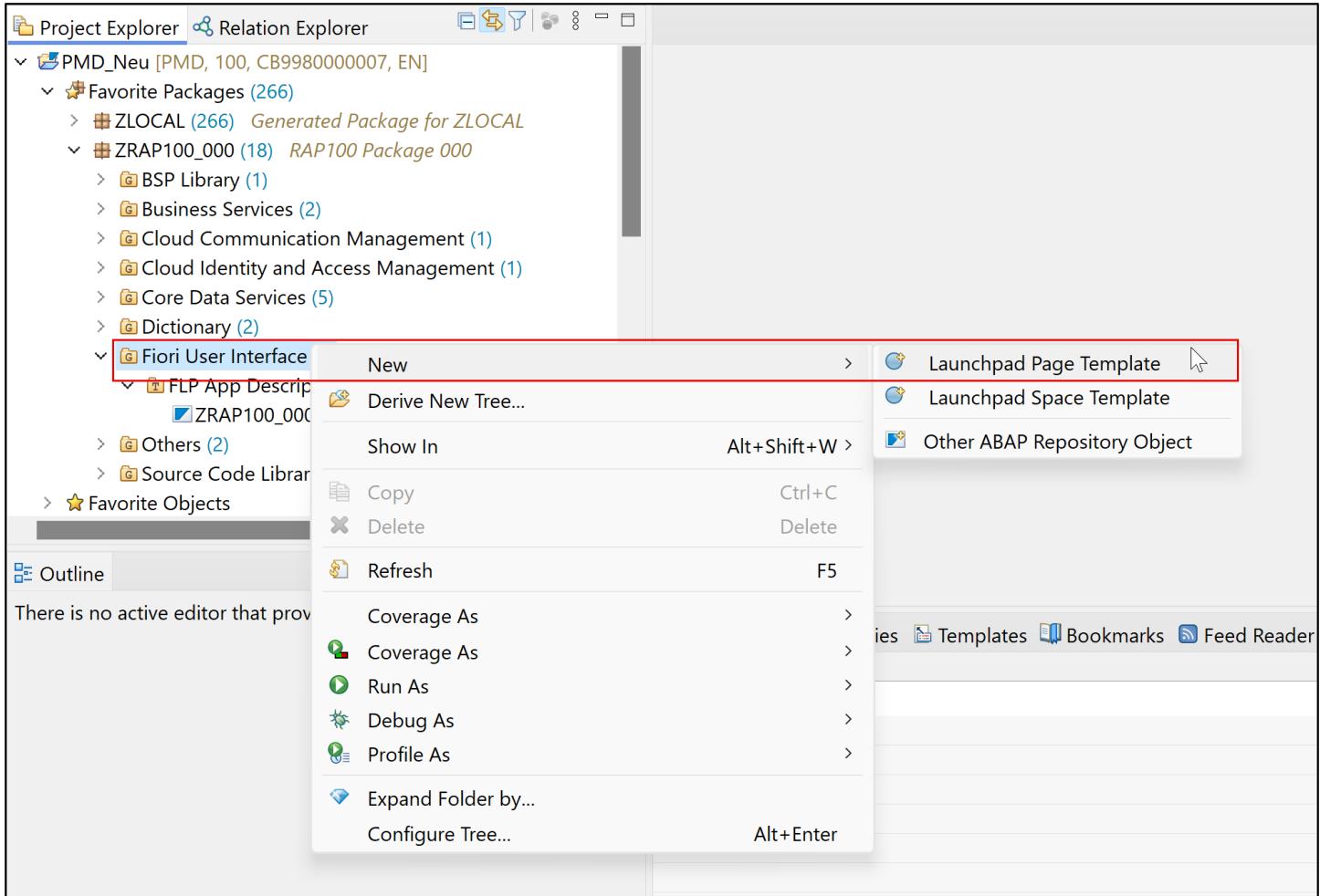
OrderID	OrderedItem	Price	TotalPrice	Currency	OrderQua...	DeliveryDate	OverallStatus	Notes
1	Phone	1,000	1,000	EUR	1	Sep 1, 2023	New / Composing	

STEP 15: Create SAP Fiori Launchpad Space and Page Templates

Create launchpad page template

IMPORTANT: You cannot complete this step (or this tutorial) with a trial license.

1. Open your package **ZRAP100_###** in ADT, right-click **Fiori User Interface** and select **New > Launchpad Page Template**.



2. Create a new launchpad page template:

- o Name: ZRAP100_TRAVEL_###
- o Description: Page for travel ###
- o Title in Launchpad: Travel App ###

New Launchpad Page Template

Launchpad Page Template

Create Launchpad Page Template

Add to favorite packages

Project: *	PMD_Neu	Browse...
Package: *	ZRAP100_000	Browse...
Name: *	ZRAP100_TRAVEL_000	
Description: *	Page for travel 000	
Original Language:	EN	
Title in Launchpad: *	Travel App 000	

Click **Next >**.

3. Select your transport request and click **Finish**.

New Launchpad Page Template

Select Transport Request

 For ZRAP100_TRAVEL_000 (UIPG), the selected transport request will be used

Choose from requests in which I am involved  Configure Columns

Transport Requ...	Owner	Target	Description	CTS Proj...
PMDK900044	CB99800000...		TR123456	

Create a new request

Request Description: *

CTS Project: Browse...

Enter a request number

Request Number: Browse...

Finish Cancel

4. In your launchpad page template right-click the list area in sections and select **Add Child > Section**.

Launchpad Page Template: ZRAP100_TRAVEL_000

General Information

Title: * Travel App 000

Merge ID:

Sections

type filter text

Add Child > Section

Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Remove Delete
Select All Ctrl+A

5. Create a new section:

- o ID: SECTION_###
- o Title: Section ###

6. Right-click SECTION_### and select Add Child > Visualizations.

Launchpad Page Template: ZRAP100_TRAVEL_000

General Information

Title: * Travel App 000

Merge ID:

Sections

type filter text

SECTION_000	Add Sibling >	Section
	Add Child >	ID: * SECTION_000 Title: Section 000
	Cut Ctrl+X	
	Copy Ctrl+C	
	Paste Ctrl+V	
	Remove Delete	
	Select All Ctrl+A	

The screenshot shows the 'Launchpad Page Template' interface for 'ZRAP100_TRAVEL_000'. In the 'General Information' section, the title is set to 'Travel App 000'. The 'Sections' list contains a single item, 'SECTION_000', which is selected. A context menu is open over this section, with the 'Add Child' option highlighted and surrounded by a red box. To the right of the menu, another red box highlights the 'Visualizations' option in the list. The menu also includes options for Cut (Ctrl+X), Copy (Ctrl+C), Paste (Ctrl+V), Remove (Delete), and Select All (Ctrl+A).

7. Right-click **Visualizations** and select **Add Child > Visualization**.

The screenshot shows the 'Launchpad Page Template: ZRAP100_TRAVEL_000' configuration screen. In the 'General Information' section, the title is set to 'Travel App 000'. The 'Sections' panel lists a single section named 'SECTION_000' containing a single item named 'Visualizations'. A context menu is open over the 'Visualizations' item, with the 'Add Child' option highlighted and a red box drawn around it. Other options in the menu include 'Add Sibling', 'Cut (Ctrl+X)', 'Copy (Ctrl+C)', 'Paste (Ctrl+V)', 'Remove (Delete)', and 'Select All (Ctrl+A)'. The 'Visualization' label next to the 'Add Child' option is also highlighted with a red box.

8. Create a new visualization and add the launchpad app descriptor item assignment:

- ID: APP_DESCRIPTOR_ITEM_###
- Type: Launchpad App Descriptor Item Assignment
- Display Format: Standard Tile
- Launchpad App Descriptor Item ID:ZRAP100_###_UI5R
- Title ID:

Launchpad Page Template: ZRAP100_TRAVEL_000

General Information

Title: * Travel App 000

Merge ID:

Sections

type filter text

SECTION_000

Visualizations

APP_DESCRIPTOR_ITEM_000

Visualization

ID: * APP_DESCRIPTOR_ITEM_000

Type: Launchpad App Descriptor Item Assignment

Display Format: Standard Tile

Launchpad App Descriptor Item Assignment

Launchpad App Descriptor Item ID: * ZRAP100_000_UISR Browse...

Tile ID: * UI5R_721B44B588BBFD52935EC1A5A1DD663EE846CC75_AI Browse...

You can press CTRL + Space to load the existing data, to fill in your field entries.

9. Activate your launchpad page template.

Check Template availability in manage launchpad pages app

1. Click the symbol to open the launchpad page template.

The screenshot shows the SAP Fiori Launchpad configuration interface. At the top right, there is a toolbar with several icons, one of which is highlighted with a red box. Below the toolbar, there is a large, empty workspace area. In the bottom left corner of this workspace, there is a small icon of a document with a red border. To the right of this icon, the text "Sorry, we couldn't find this page." is displayed. On the left side of the screen, there is a sidebar titled "Visualization". It contains three configuration fields:

- ID: * APP_DESCRIPTOR_ITEM_000
- Type: Launchpad App Descriptor Item Assignment
- Display Format: Standard Tile

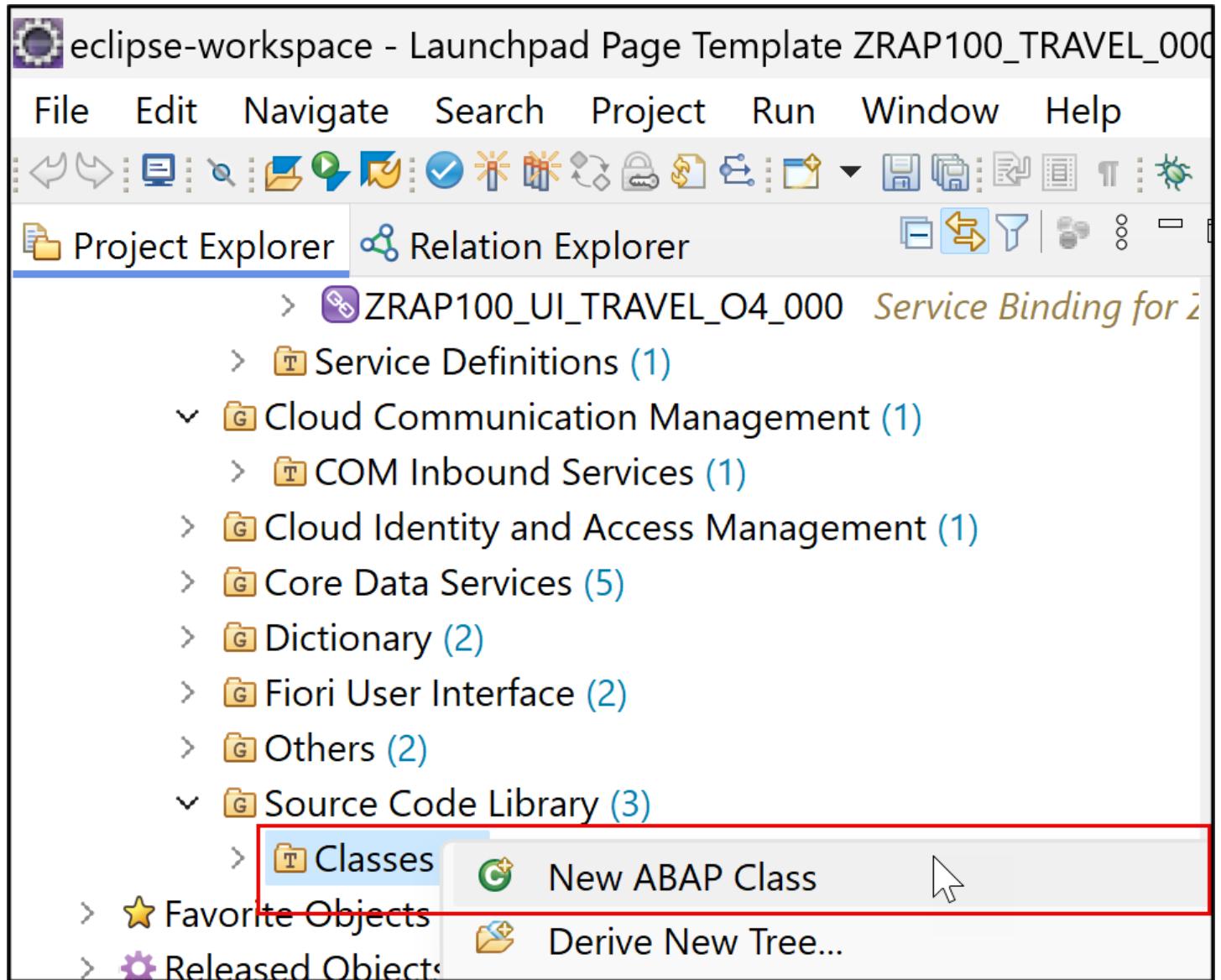
2. The launchpad page template will not be loaded. The page template needs to be scoped still in order to be able to use it.

The screenshot shows the SAP Fiori Launchpad "Manage Launchpad Pages" application. The header bar includes the SAP logo, the title "Manage Launchpad Pages", and a search bar with the placeholder "Search In: 'Apps'". The main content area displays a large, light-gray placeholder icon resembling a document or a page. Below this icon, the text "Sorry, we couldn't find this page." is centered. At the bottom of the page, there is a blue link labeled "Maintain Page".

STEP 16: Scope page and space templates

For more information see documentation [SAP BTP, ABAP environment > Development in the ABAP Environment > UI Development > SAP Fiori Applications in the ABAP Environment > Scoping Space and Page Templates](#).

1. Right-click Classes and select New ABAP Class.



2. Create a new class:

- o ID: ZCL_SCOPE_PAGE_SPACE_###
- o Title: Class for calling the scoping API

New ABAP Class

ABAP Class

Create an ABAP class

Project: * PMD_Neu

Package: * ZRAP100_000

Add to favorite packages

Name: * ZCL_SCOPE_PAGE_SPACE_000

Description: * Class for calling the scoping API

Original Language: EN

Superclass:

Interfaces:

< Back

Click **Next >**.

3. Finish the ABAP class creation wizard after transport request selection.

New ABAP Class

Select Transport Request

 For ZCL_SCOPE_PAGE_SPACE_000 (CLAS), the selected transport request will be used

Choose from requests in which I am involved  Configure Columns

Transport Requ...	Owner	Target	Description	CTS Proj...
PMDK900044	CB99800000...		TR123456	

Create a new request

Request Description: *

CTS Project: Browse...

Enter a request number

Request Number: Browse...

Finish Cancel

4. The snippet scopes the page template. Scoping a space template is still commented out. Therefore, copy and paste the code snippet in your class. Change ### with your own ID.

Class Code:

```

CLASS zcl_scope_page_space_### DEFINITION
PUBLIC
FINAL
CREATE PUBLIC.

PUBLIC SECTION.
  INTERFACES if_oo_adt_classrun.
PROTECTED SECTION.
PRIVATE SECTION.
ENDCLASS.

CLASS zcl_scope_page_space_### IMPLEMENTATION.
METHOD if_oo_adt_classrun~main.

DATA(lo_scope_api) = cl_aps_bc_scope_change_api->create_instance( ).

lo_scope_api->scope(
EXPORTING it_object_scope = VALUE #(
pgmid = if_aps_bc_scope_change_api->gc_tadir_pgmid-R3TR
scope_state = if_aps_bc_scope_change_api->gc_scope_state-ON

* Space template
* ( object = if_aps_bc_scope_change_api->gc_tadir_object-UIST obj_name = 'ZRAP100_TRAVEL_###' )

* Page template
( object = if_aps_bc_scope_change_api->gc_tadir_object-UIPG obj_name = 'ZRAP100_TRAVEL_###' )
)

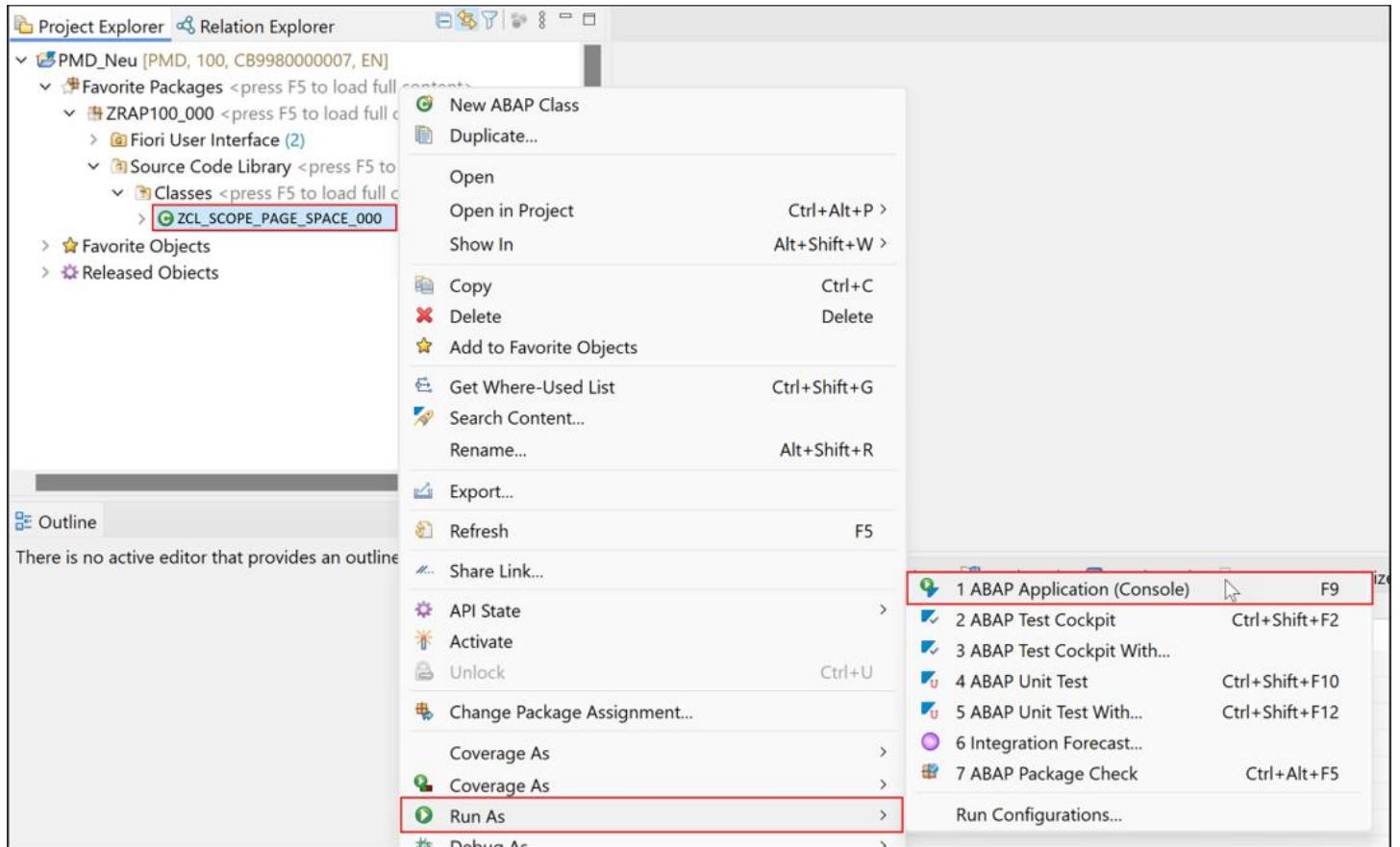
iv_simulate = abap_false
iv_force = abap_false
IMPORTING et_object_result = DATA(lt_results)
et_message = DATA(lt_messages).
ENDMETHOD.

ENDCLASS.

```

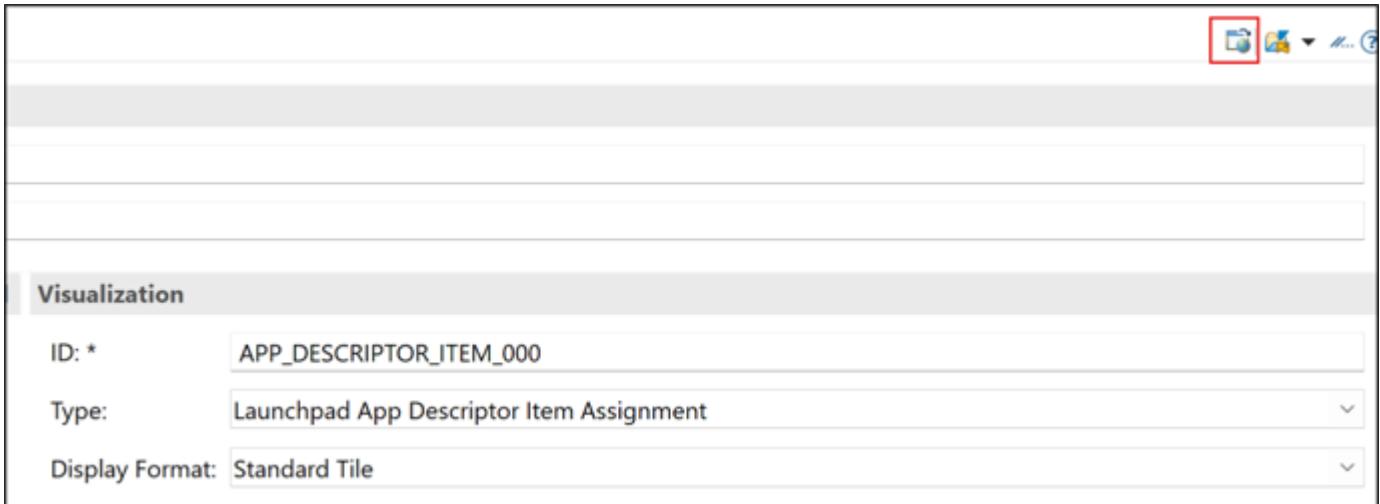
5. Save and activate.

6. Right-click ZCL_SCOPE_PAGE_SPACE_### and select **Run As > ABAP Application (Console)** or press F9 to run your application.



STEP 17: Open launchpad page template

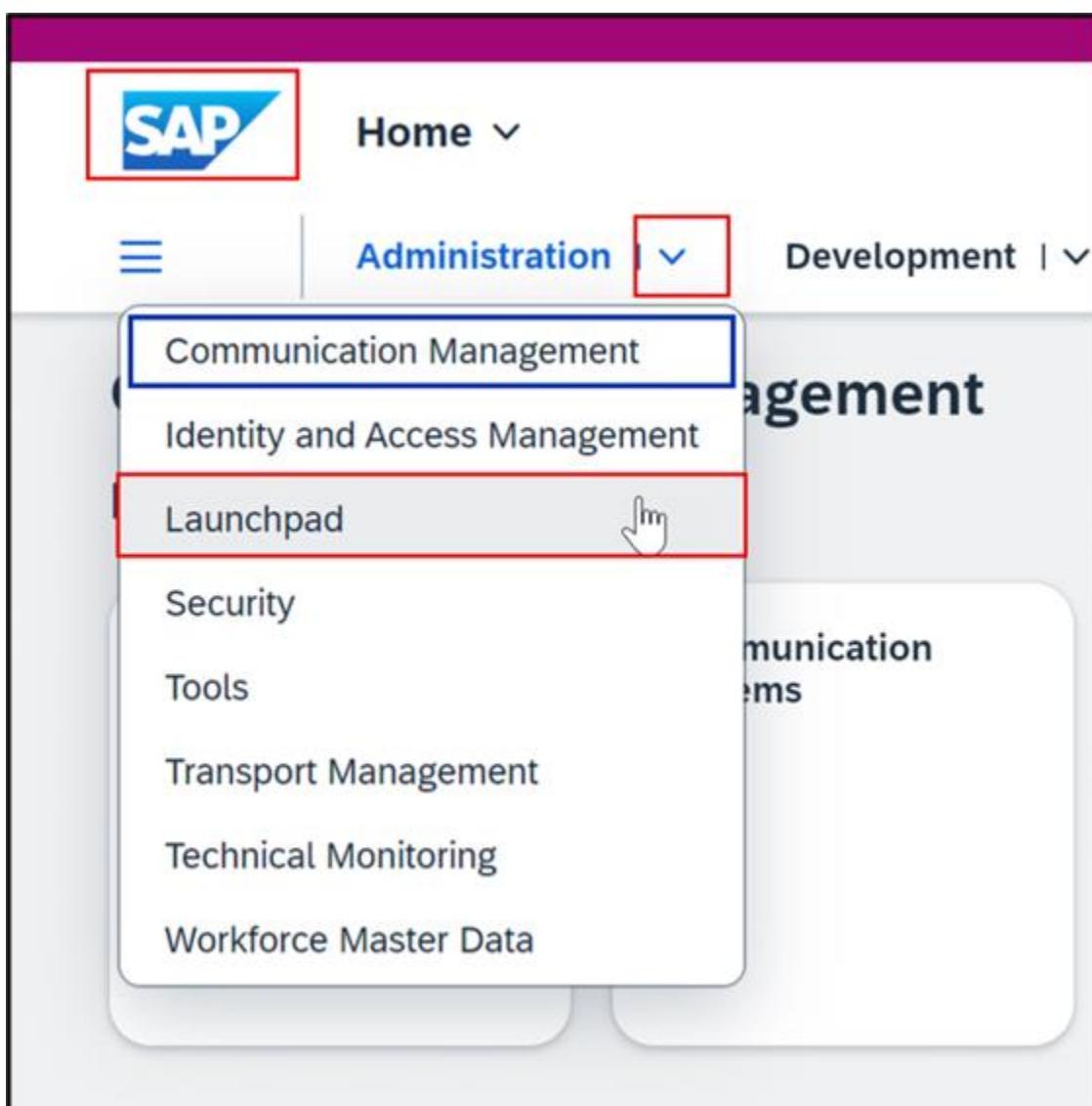
1. Click the symbol to open the launchpad page template in manage launchpad pages app. The link can be found in the upper right corner of the editor.



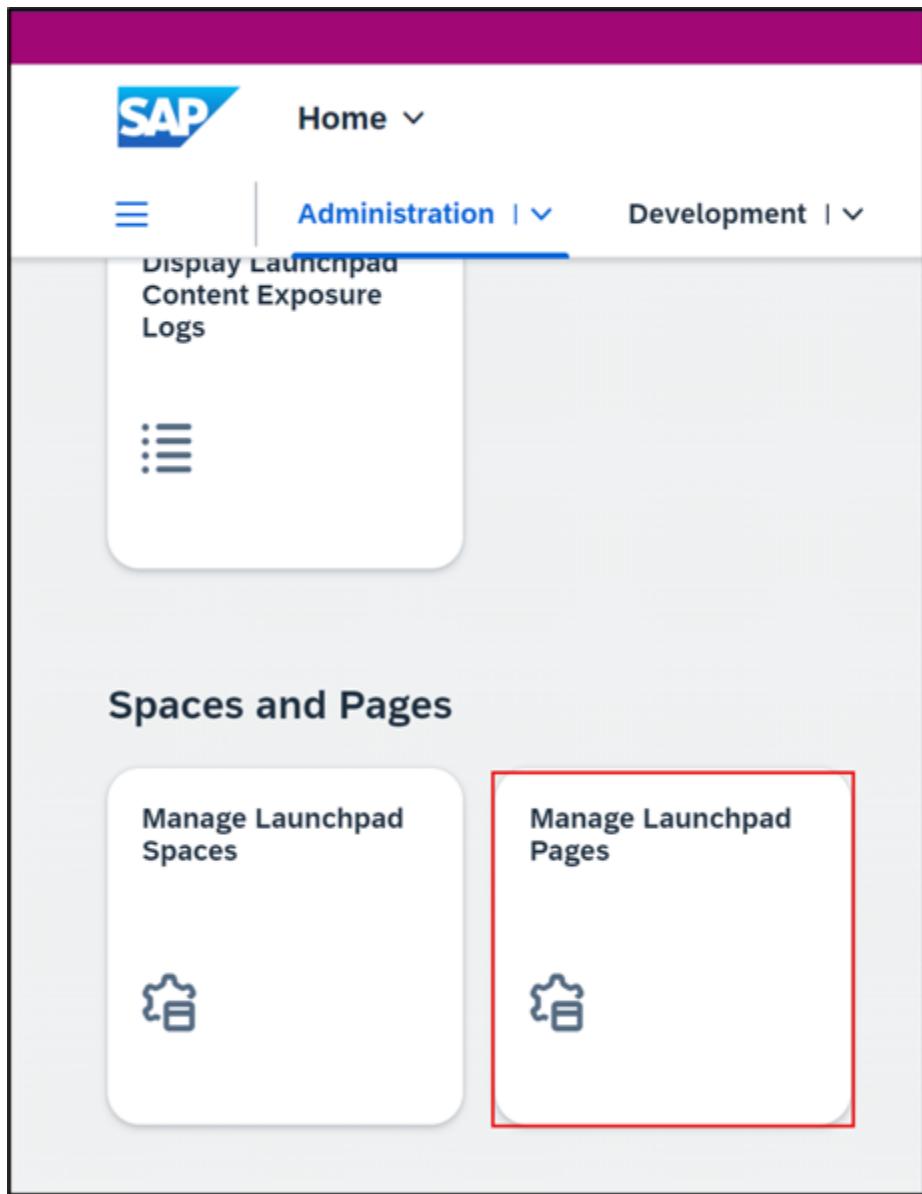
2. Now the launchpad page template will be loaded with the page and section content.

The screenshot shows the SAP Fiori Launchpad Pages application. At the top, there is a header with the SAP logo and the title 'Manage Launchpad Pages'. Below the header, the page title is 'ZRAP100_TRAVEL_000' and a note says 'Page can't be edited'. Underneath the title, it says 'Page for travel 000'. There are three tabs at the top: 'General Data', 'Page Content' (which is currently selected), and 'Space Assignment (0)'. Below the tabs, there is a section titled 'Section 000' containing a single item: 'Travel App 000'. The entire application has a light blue background.

3. Navigate to the **Home** screen, select **Administration > Launchpad**.



4. Open the **Manage Launchpad Pages** app.

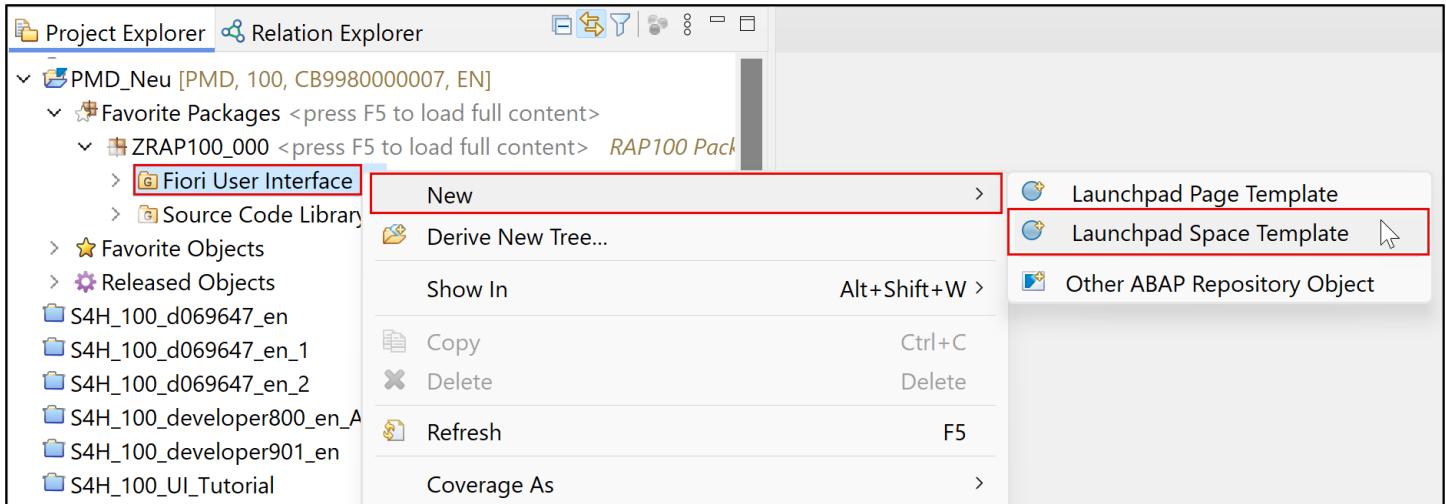


5. Select **Predefined** and search for ZRAP100_Travel_###. Now you can see your launchpad page template under the predefined tab.

This screenshot shows the "Manage Launchpad Pages" application interface. At the top, there is a header with the SAP logo, the title "Manage Launchpad Pages", and a search bar. Below the header, there are tabs for "Customer-Created" and "Predefined", with "Predefined" being the active tab. A red box highlights the "Predefined" tab. On the left, there is a sidebar with a "Pages (1)" section. Under "Pages (1)", there is a table with one row. The row contains a small circular icon, the ID "ZRAP100_TRAVEL_000", and the description "Travel App 000". The entire row is highlighted with a red box. To the right of the table, there is a "Title / Description" column showing "Travel App 000" and "Page for travel 000". At the bottom right of the table, there is a search bar containing "zrap100_travel_000" and a "Copy" button.

STEP 18: Create launchpad space template

1. Open your package ZRAP100_### and right-click Fiori User Interface and select New > Launchpad Space Template.



2. Create a new launchpad space template:

- o Name: ZRAP100_TRAVEL_###
- o Description: Space for travel ###
- o Title in Launchpad: Travel App ###

New Launchpad Space Template

Launchpad Space Template

Create Launchpad Space Template

Add to favorite packages

Project: *	PMD_Neu	Browse...
Package: *	ZRAP100_000	Browse...
Name: *	ZRAP100_TRAVEL_000	
Description: *	Space for travel 000	
Original Language:	EN	
Title in Launchpad: *	Travel 000	

Click **Next >**.

3. Select your transport request and click **Finish**.

New Launchpad Space Template

Select Transport Request

 For ZRAP100_TRAVEL_000 (UIST), the selected transport request will be used

Choose from requests in which I am involved  Configure Columns

Transport Requ...	Owner	Target	Description	CTS Proj...
PMDK900044	CB99800000...		TR123456	

Create a new request

Request Description: *

CTS Project: Browse...

Enter a request number

Request Number: Browse...

Finish Cancel

4. Add general information:

- Sort Priority: 100

The screenshot shows the 'Launchpad Space Template' configuration interface for 'ZRAP100_TRAVEL_000'. The window title is '[PMD] ZRAP100_TRAVEL_000'. The main area is divided into sections: 'General Information' and 'Launchpad Page Templates'. In the 'General Information' section, 'Title on Launchpad:' is set to 'Travel 000' and 'Sort Priority:' is set to '100'. The 'Sort Priority' field is highlighted with a red box. In the 'Launchpad Page Templates' section, there is a table with one row. The 'Name' column contains 'ZRAP100_TRAVEL_000', which is also highlighted with a red box. To the right of the table is a vertical toolbar with buttons: 'Add...', 'Edit...', 'Remove', 'Up', and 'Down'. The 'Add...' button is also highlighted with a red box.

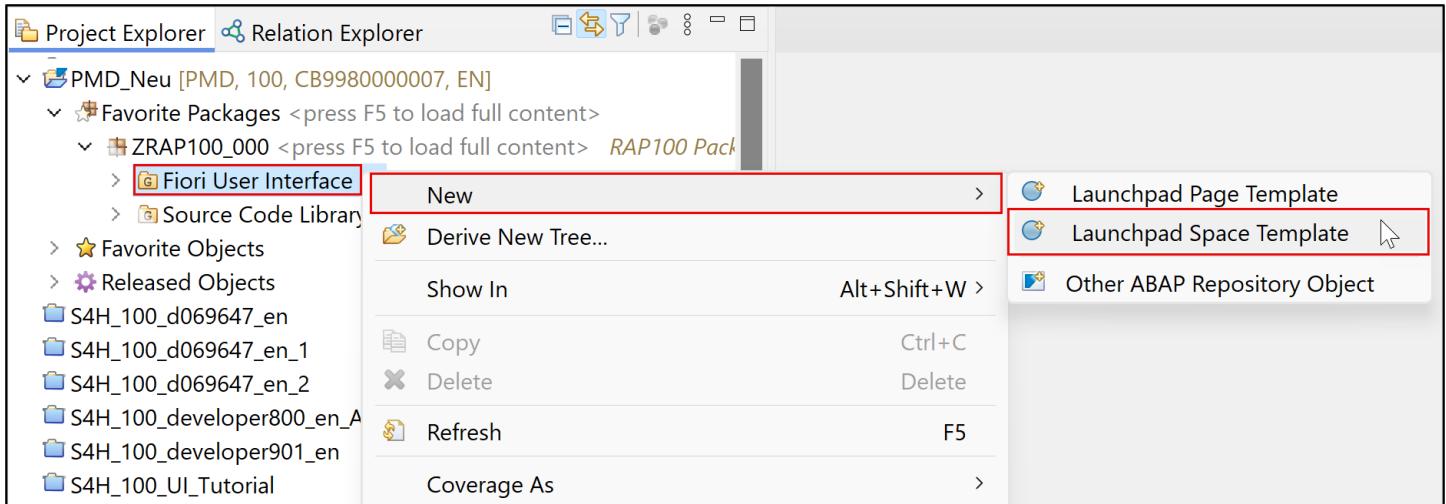
A higher sort priority number will let the space appear more on the right side of the tab overview on the home screen in SAP Fiori launchpad.

Click **Add** and select ZRAP100_TRAVEL_### as launchpad page template.

5. Activate your changes.

STEP 19: Create launchpad space template

1. Open your package ZRAP100_### and right-click Fiori User Interface and select New > Launchpad Space Template.



2. Create a new launchpad space template:

- o Name: ZRAP100_TRAVEL_###
- o Description: Space for travel ###
- o Title in Launchpad: Travel App ###

New Launchpad Space Template

Launchpad Space Template

Create Launchpad Space Template

Add to favorite packages

Project: *	PMD_Neu	Browse...
Package: *	ZRAP100_000	Browse...
Name: *	ZRAP100_TRAVEL_000	
Description: *	Space for travel 000	
Original Language:	EN	
Title in Launchpad: *	Travel 000	

Click **Next >**.

3. Select your transport request and click **Finish**.

New Launchpad Space Template

Select Transport Request

 For ZRAP100_TRAVEL_000 (UIST), the selected transport request will be used

Choose from requests in which I am involved [Configure Columns](#)

type filter text

Transport Requ...	Owner	Target	Description	CTS Proj...
PMDK900044	CB99800000...		TR123456	

Create a new request

Request Description: *

CTS Project: [Browse...](#)

Enter a request number

Request Number: [Browse...](#)

[?](#) < Back Next > [Finish](#) Cancel

4. Add general information:

- Sort Priority: 100

The screenshot shows the 'Launchpad Space Template' configuration interface for 'ZRAP100_TRAVEL_000'. The window title is '[PMD] ZRAP100_TRAVEL_000'. The main area is divided into sections: 'General Information' and 'Launchpad Page Templates'. In the 'General Information' section, 'Title on Launchpad:' is set to 'Travel 000' and 'Sort Priority:' is set to '100'. The 'Sort Priority' field is highlighted with a red box. In the 'Launchpad Page Templates' section, there is a table with one row. The 'Name' column contains 'ZRAP100_TRAVEL_000', which is also highlighted with a red box. To the right of the table is a vertical toolbar with buttons: 'Add...', 'Edit...', 'Remove', 'Up', and 'Down'. The 'Add...' button is also highlighted with a red box.

A higher sort priority number will let the space appear more on the right side of the tab overview on the home screen in SAP Fiori launchpad.

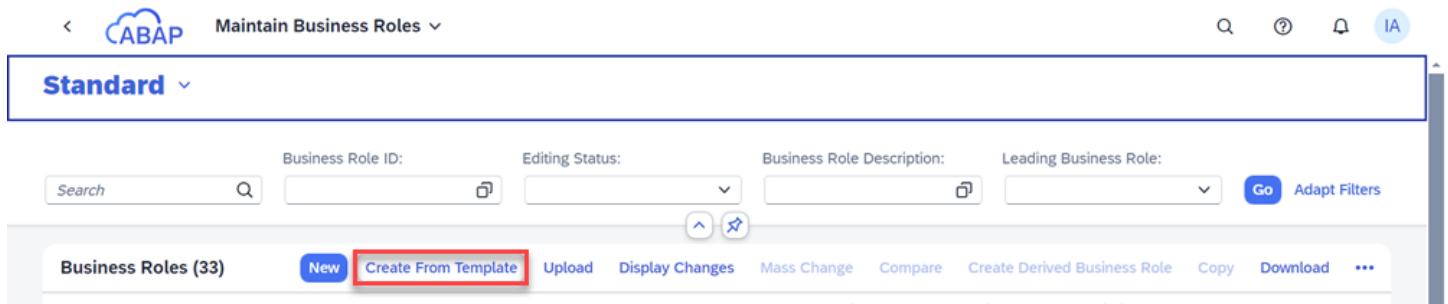
Click **Add** and select ZRAP100_TRAVEL_### as launchpad page template.

5. Activate your changes.

STEP 20: Authorize business user for space

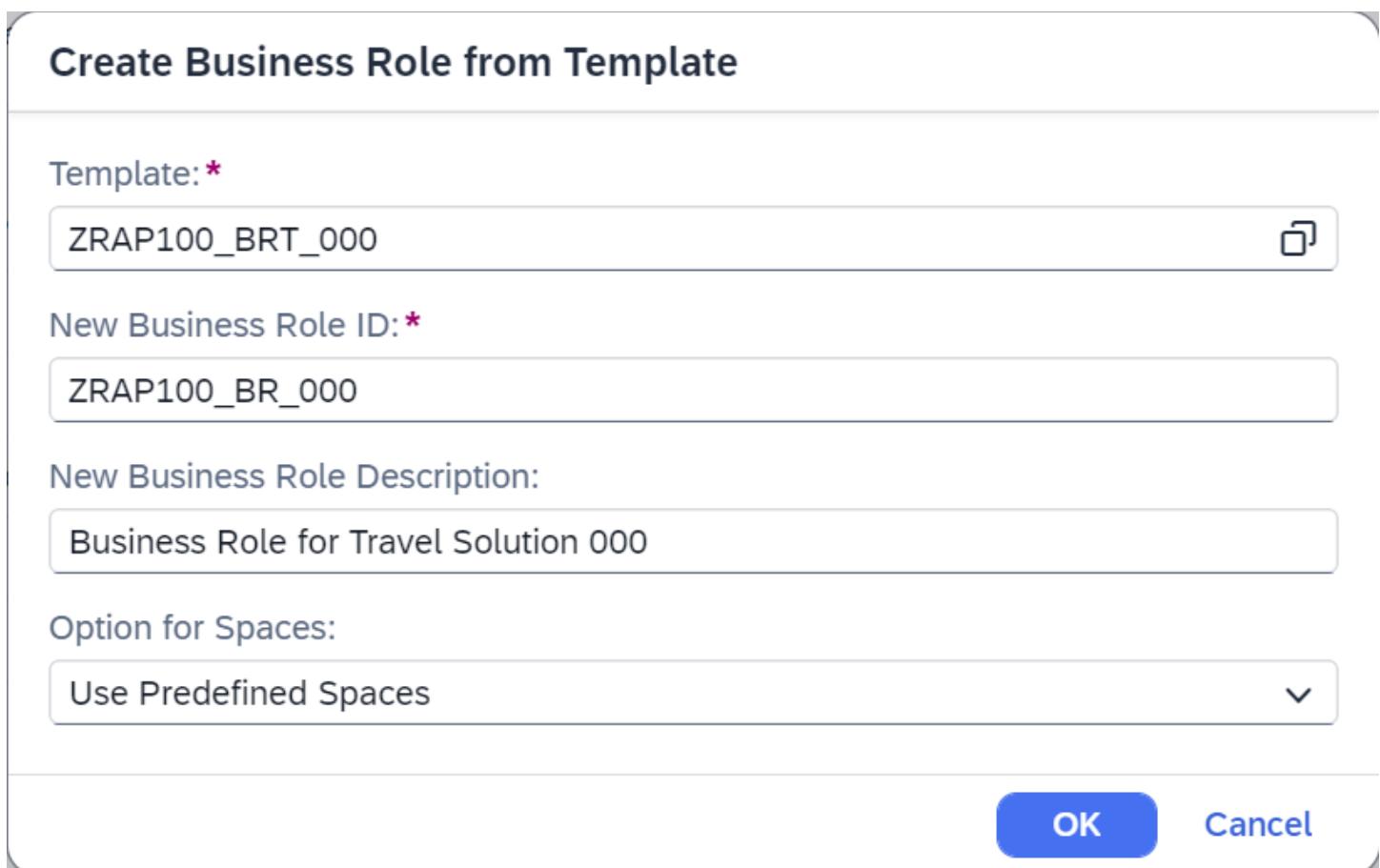
Once a business role template was provided as part of a solution, an administrator can create a role which is based on a template. After that there is app support available to integrate changes provided to the business role template. For further information see documentation [SAP Business Technology Platform \(SAP BTP\) > SAP Business Technology Platform > Administration and Operations > Administration and Operations in the ABAP Environment > SAP Fiori Apps in the ABAP Environment > Identity and Access Management > Business Role Templates](#).

1. As Administrator in SAP Fiori Launchpad open App **Maintain Business Roles**.
2. Click the **Create From Template** button.



The screenshot shows the SAP Fiori Launchpad interface. At the top, there's a navigation bar with a cloud icon labeled 'ABAP', the title 'Maintain Business Roles', and various search and filter options. Below the title, a dropdown menu shows 'Standard'. The main area contains a search bar and several input fields for 'Business Role ID', 'Editing Status', 'Business Role Description', and 'Leading Business Role'. A toolbar below these fields includes buttons for 'Search', 'Go', and 'Adapt Filters'. Underneath the search bar, there's a navigation bar with tabs: 'Business Roles (33)', 'New', 'Create From Template' (which is highlighted with a red box), 'Upload', 'Display Changes', 'Mass Change', 'Compare', 'Create Derived Business Role', 'Copy', 'Download', and '...'. The 'Create From Template' button is the second item from the left in this row.

3. Use the value help for **Template** to set ZRAP100_BRT_###, delete T from the defaulted **Name**, delete Template from the defaulted **Description**, leave all the other defaulted values and press **OK**.



The screenshot shows the 'Create Business Role from Template' dialog box. It has several input fields and a dropdown menu. The first field, 'Template:', contains the value 'ZRAP100_BRT_000'. The second field, 'New Business Role ID:', contains the value 'ZRAP100_BR_000'. The third field, 'New Business Role Description:', contains the value 'Business Role for Travel Solution 000'. Below these is a dropdown menu labeled 'Option for Spaces:' with the value 'Use Predefined Spaces'. At the bottom right of the dialog are two buttons: 'OK' and 'Cancel'.

4. In the business role editor under **General Role Details > Access Categories > Write, Read, Value Help** set the value **Unrestricted**.



Business Role for Travel Solution 000

[Manage Changes After Upgrade](#) [Maintain Restrictions](#) [Display Changes](#) ...

ZRAP100_BR_000

Write Access: Unrestricted
Read Access: Unrestricted
Value Help Access: Unrestricted

Draft Last Changed By: Initial Admin
Draft Last Changed On: 09/03/2024, 11:40:33

Editing Status: Draft

Authorization is up-to-date

[General Role Details](#) [Business Catalogs \(1\)](#) [Launchpad Spaces \(1\)](#) [Business Users \(0\)](#)

General Data

Business Role ID: * Business Role Description:

Business Role Long Text:

Business Role Group:

Access Categories

Write, Read, Value Help: ▼
Read, Value Help: ▼
Value Help: ▼

Others

Business Role Template ID: [ZRAP100_BRT_000](#)

Leading Business Role ID:

Is Leading Business Role: Exposed to SAP BTP: Save Cancel

5. Afterwards switch to the **Business Users** tab, add your user and **Save** the business role.



Business Role for Travel Solution 000

[Manage Changes After Upgrade](#) [Maintain Restrictions](#) ...

ZRAP100_BR_000

Write Access: Unrestricted
Read Access: Unrestricted
Value Help Access: Unrestricted

Draft Last Changed By: Initial Admin
Draft Last Changed On: 09/03/2024, 11:40:33

Editing Status: Draft

Authorization is up-to-date

[General Role Details](#) [Business Catalogs \(1\)](#) [Launchpad Spaces \(1\)](#) [Business Users \(1\)](#)

Assigned Business Users (1)

Search Q Add Remove ↓↑

User Name	First Name	Last Name	Business Partner (Person ID)	User ID
DEVELOPER	John	Developer	9980000001	CB9980000001

Save Cancel

Open predefined space in SAP Fiori launchpad

1. Go to your **Home** screen and select **Travel ###**.

The screenshot shows a web-based SAP Fiori application. At the top left is the SAP logo. To its right is a navigation bar with 'Home' and a dropdown arrow, followed by 'Administration | v', 'Development | v', 'Custom Code Analysis', and a search bar containing 'Search In: "Apps"'. On the far right of the header is a red-bordered box containing the text 'Travel 000'. Below the header, the main content area features a large heading 'Section 000' in bold dark gray font. Underneath it is a rounded rectangular card with a white background and a thin gray border. Inside the card, the text 'Travel App 000' is displayed in a dark blue font. The overall interface has a clean, modern look with a light gray background.

You can see the page with its section and app now.

Feel free to ask any question on given Contact Details at Header Page.

The End