

SAPUI5 Tutorial with WebIDE. Part VIII. Deploy my First SAPUI5 App in WebIDE

By ZAP - May 25, 2017



In our [previous post](#), we showed all the struggle and hiccups faced by an experienced ABAPer (with more than 11 years ABAP experience) during his first SAPUI5 development. Somehow he was able to reach the finish line (*read App moved to the production system and went live*). Today, we would show **how the SAPUI5 development was converted to a Fiori App** which the happy users are accessing and using it from their smartphones. 😊

The end users provided the feedback that they are able to utilize the 90 minutes of to-fro commute time to office/home in the public transport (bus/metro train); **actually working on their smartphone and planning for the day**. After all, they do not need to be in office network to access SAP. Thanks to our App which is available on their smartphone.

But we are sure, you would be more interested in knowing what **NOT** to do and what to **AVOID** while deploying to **SAPUI5 ABAP Repository**. After all, there are numerous good documents on the internet showing how to deploy the SAPUI5 App. And you would not want to read the same thing here at SAPYard, and we too are also not interested in re-inventing the wheel.

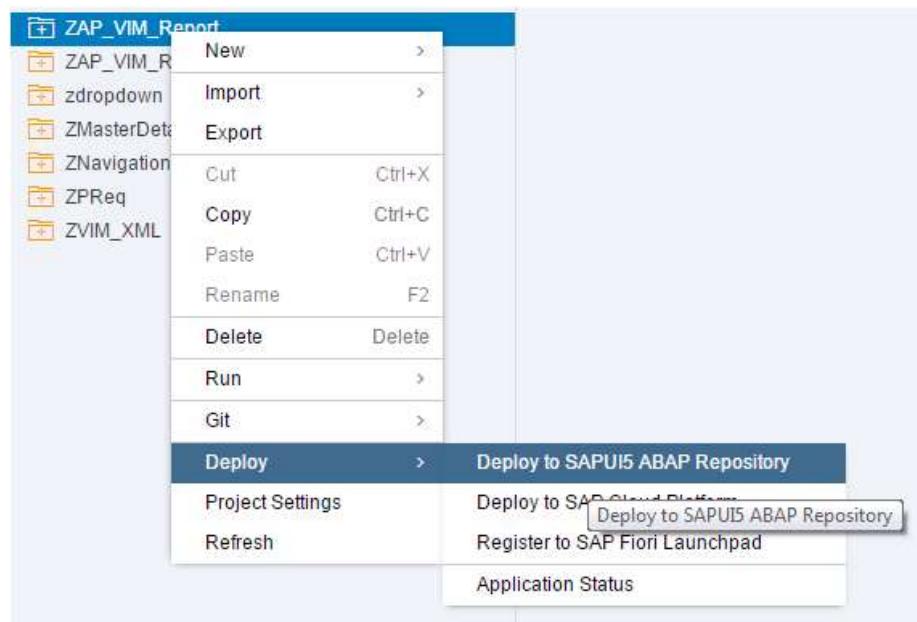
Considering, there are numerous readers who visit our site directly even before googling, we would show the Deployment steps of SAPUI5 in details and at the relevant spot, we would warn what not to do and where to take special care.

Let us start. Once your SAPUI5 app is created and tested in the WebIDE, the next step is to test the app in your smartphone or tablets. You can open WebIDE on your smartphone and do the same test, but *businesses want the Apps, not links to test the SAPUI5 developments on smartphones*. In order to **convert our SAPUI5 development to Fiori Apps**, we need to do the following steps.

1. **Deploy to SAPUI5 ABAP Repository**
2. Create a new Launchpad in **LPD_CUST**. Maintain the URL, Application Alias and Additional Information in Launchpad
3. Manually move the **Launchpad to a Transport** Request (Very Important)
4. Create **Semantic Object** in /UI2/SEMOBJ.
5. Manually move the **System Alias of the service to a Transport** (Very Important)
6. In Fiori Launchpad Designer **Create Catalog** Object for the App
7. Create **Target Mapping** for the Catalog Object
8. Create **Tiles** for the Catalog Object
9. In Fiori Launchpad Designer **Create Group** for the Catalog object or use an existing Group
10. **Include** to Catalog object into the Group
11. Ask the Security Team to add the Catalog, Group and SAPUI5 service to the **User Role**

Let us check in details all the steps.

Step 1: Deploy to SAPUI5 ABAP Repository



The screenshot shows the SAPUI5 Deployment Options dialog in WebIDE. The title bar indicates a secure connection to <https://webide-baafda0a2.dispatcher.us1.hana.ondemand.com>. The menu bar includes File, Edit, Run, Deploy, Search, View, Tools, and Help. The toolbar features icons for Save, Run, Deploy, Refresh, and Back/Forward.

The main content area is titled "Deployment Options" and shows the "Deploy a New Application" step. A breadcrumb navigation bar at the top of the content area shows "Deployment Options" > "Deploy a New Application" > "Select a Transport Request" > "Confirmation".

The "Deployment Options" section includes:

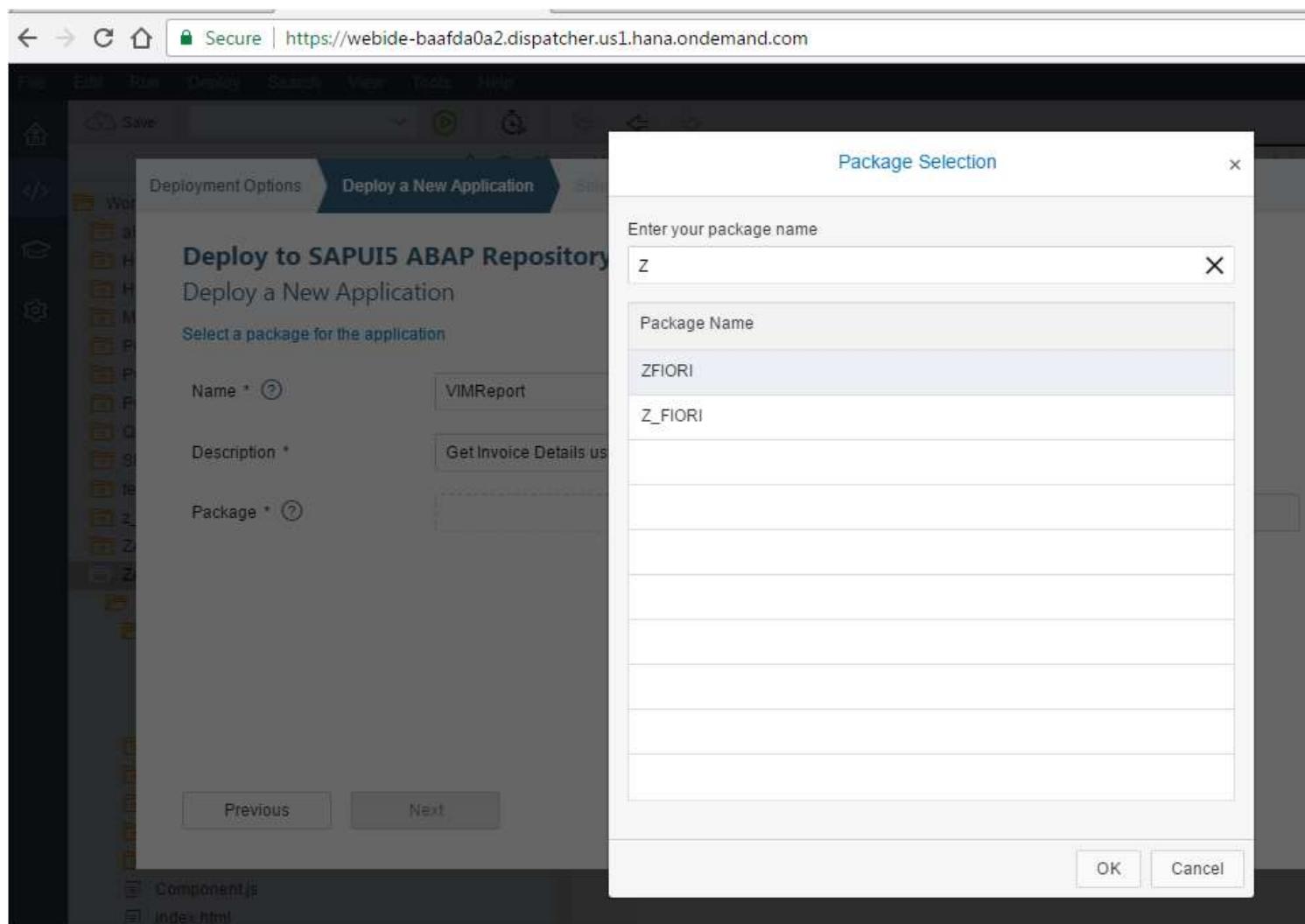
- A dropdown menu for "System *" set to "DEV".
- Two radio buttons: "Deploy a new application" (selected) and "Update an existing application".
- An information message: "The SAPUI5 versions of your application and the selected SAP system are compatible." followed by "Application:1.44.11" and "SAP system:1.44.1".
- Navigation buttons: "Previous" and "Next".

The bottom of the dialog shows a file tree with "Component.js" selected.

Give a name and description.

The screenshot shows the SAPUI5 WebIDE interface. The top navigation bar includes File, Edit, Run, Deploy, Search, View, Tools, and Help. A toolbar below has icons for Save, Undo, Redo, and navigation arrows. The main content area is titled "Deploy to SAPUI5 ABAP Repository" and "Deploy a New Application". It prompts to "Select a package for the application". The "Name" field contains "VIMReport", the "Description" field contains "Get Invoice Details using Reference Number", and the "Package" field is empty with a "Browse" button. On the left, a sidebar lists various workspace items. At the bottom are "Previous" and "Next" buttons.

Package name might not appear on its own. You need to type the initials and then they start showing up.



Oops!! You get this red message on the very first step.

The screenshot shows the SAP WebIDE interface for deploying a new SAPUI5 application. The top navigation bar includes File, Edit, Run, Deploy, Search, View, Tools, and Help. The Deploy menu is currently selected. The main area is titled "Deploy to SAPUI5 ABAP Repository" and "Deploy a New Application". It displays a validation error message: "SAP object WAPA VIMREPORT cannot be assigned to package ZFIORI". A red arrow points from this error message towards the "Package" input field. The "Name" field contains "VIMReport", the "Description" field contains "Get Invoice Details using Reference Number", and the "Package" field contains "ZFIORI". Below the form are "Previous" and "Next" buttons.

"SAP object WAPA cannot be assigned to package" or more generically "**SAP object WAPA XXXXXX cannot be assigned to package ZPACKXXXX**"

Since we are saving in a **custom package** (Z/Y package), the name of the App should begin with Z or Y. Later we found that a BSP application is created in the backend when we deploy the SAPUI5 to ABAP repository. Therefore as for any other custom object, the ABAP Repository name has to start with Z/Y as they are custom BSP applications.

This was our first issue. A simple one right? 😊

Let us put a Z at the beginning and proceed.

The screenshot shows the SAPUI5 WebIDE interface for deploying a new application. The top navigation bar includes File, Edit, Run, Deploy, Search, View, Tools, and Help. The Deploy menu is currently selected. Below the navigation is a toolbar with icons for Save, Refresh, and navigation arrows. A sidebar on the left lists various workspace items, including Work, Home, Help, Model, Page, Project, Query, Service, Test, and Zzz. The main content area is titled "Deploy to SAPUI5 ABAP Repository" and "Deploy a New Application". It prompts the user to "Select a package for the application". The "Name" field contains "ZVIMReport", the "Description" field contains "Get Invoice Details using Reference Number", and the "Package" field is empty with a "Browse" button. At the bottom are "Previous" and "Next" buttons, and a "Component.js" link.

The screenshot shows the SAPUI5 WebIDE interface for deploying a new application. The title bar indicates a secure connection to <https://webide-baafda0a2.dispatcher.us1.hana.ondemand.com>. The top menu bar includes File, Edit, Run, Deploy, Search, View, Tools, and Help. The left sidebar contains icons for Home, Save, Workspaces, and various project files.

The main content area displays a wizard titled "Deploy to SAPUI5 ABAP Repository". The current step is "Deploy a New Application". The wizard has four steps: Deployment Options, Deploy a New Application, Select a Transport Request, and Confirmation. The "Deploy a New Application" step is active, indicated by a blue background.

The form fields for the new application are as follows:

- Name * (with a question mark icon): ZVIMReport
- Description *: Get Invoice Details using Reference Number
- Package * (with a question mark icon): ZFIORI
- Browse button: A button to browse for the package file.

At the bottom of the wizard, there are "Previous" and "Next" navigation buttons.

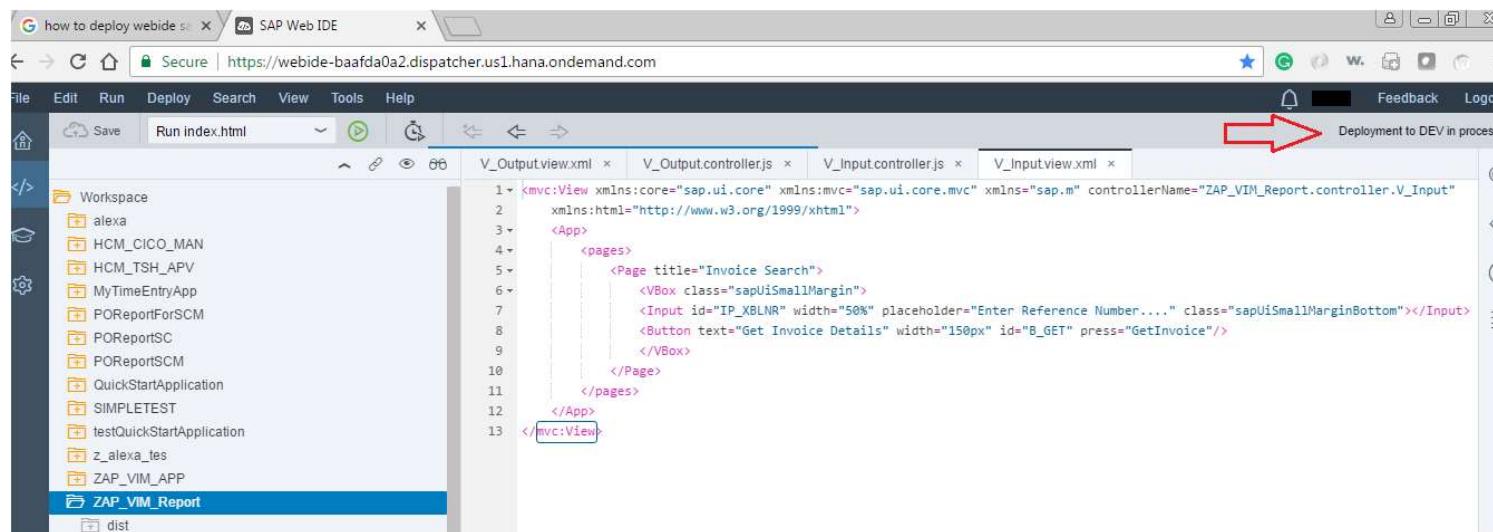
The screenshot shows the SAPUI5 WebIDE interface for deploying an application. The top navigation bar includes File, Edit, Run, Deploy, Search, View, Tools, Help, and a feedback button. The left sidebar has icons for Home, Work, and various project files. The main content area is titled "Deploy to SAPUI5 ABAP Repository" and "Select a Transport Request". A radio button is selected for "Choose from requests in which I am involved". A search input field contains the request number "EGDK900150". Below is a table listing transport requests:

Transport Request	User	Target	Description
EGDK900142	00951730	/TEST_GRP/	R&D: OData and SAPUI5 (DNT)
EGDK900150	00951730	/TEST_GRP/	VIM Query Fiori

At the bottom are "Previous" and "Next" buttons.

The screenshot shows the SAPUI5 WebIDE interface. At the top, there's a toolbar with icons for File, Edit, Run, Deploy, Search, View, Tools, and Help. Below the toolbar is a navigation bar with tabs: Deployment Options, Deploy a New Application, Select a Transport Request, and Confirmation. The Confirmation tab is highlighted. On the left, there's a sidebar with various project files and components listed. The main area has a title "Deploy to SAPUI5 ABAP Repository" and a sub-section "Confirmation". It contains the text "Click Finish to deploy your application to the SAPUI5 ABAP Repository." At the bottom of this section are two buttons: "Previous" and "Finish". In the bottom right corner of the main area, there's a message "Deployment in DEV in progress". The bottom navigation bar shows "Components" and "index.html".

Note the "Deployment in DEV in progress" message on the top right.



After it is deployed, the "dist" folder appears. This is how I identify if a project is deployed or not.

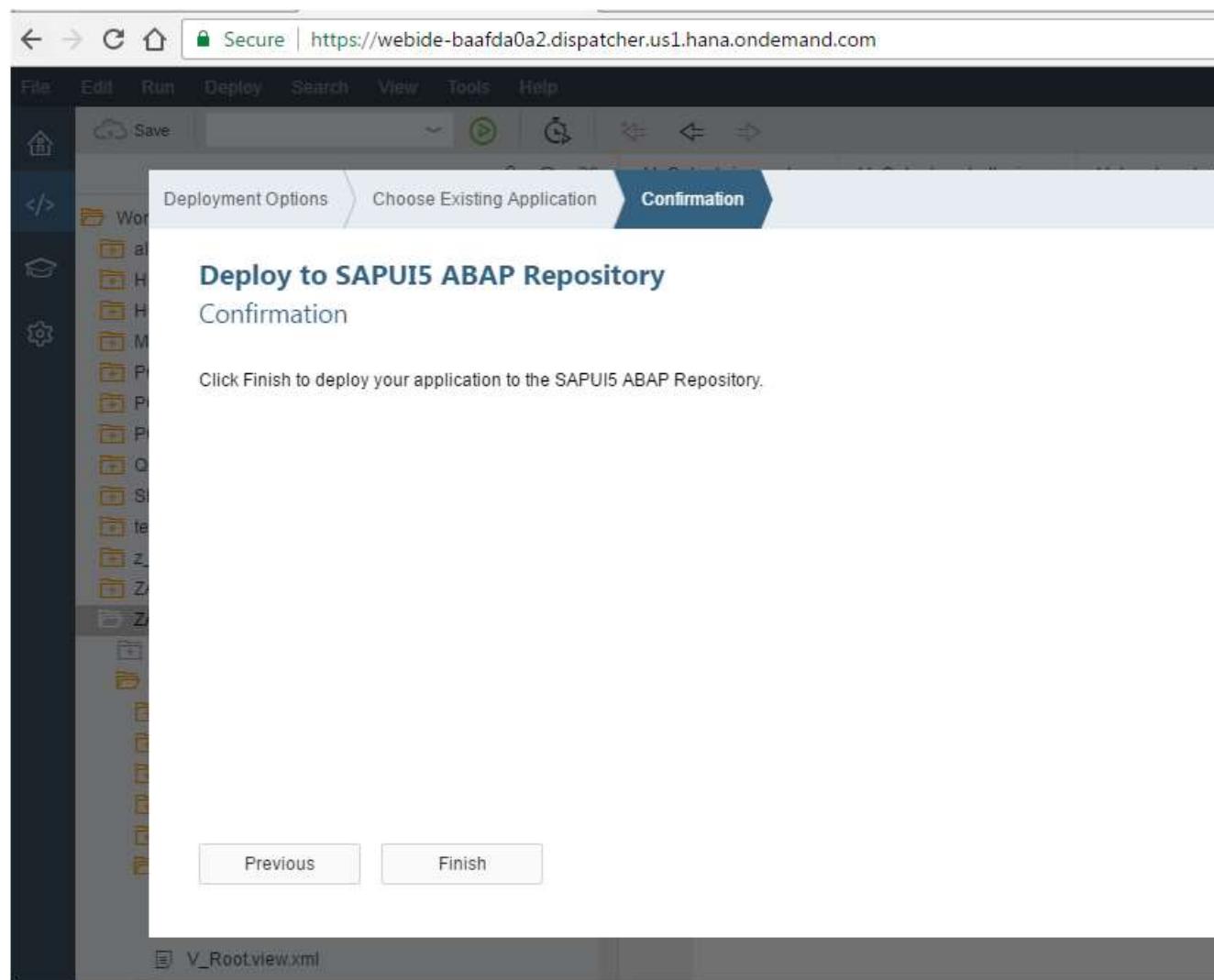


Say after deploying your sapui5 project, you need to make some change in the UI or logic. You need to **re-deploy** to make your changes effective. The steps are the same.

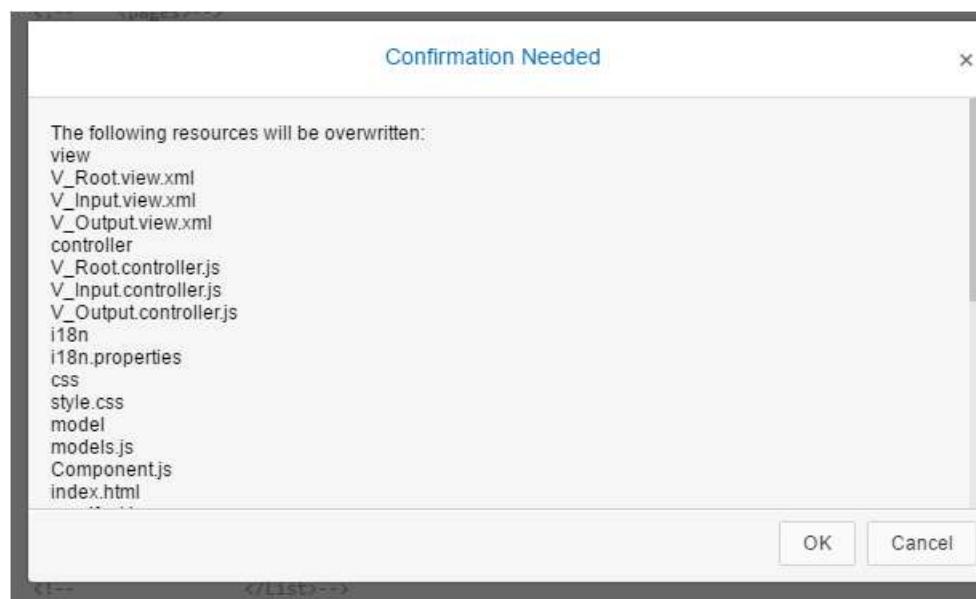
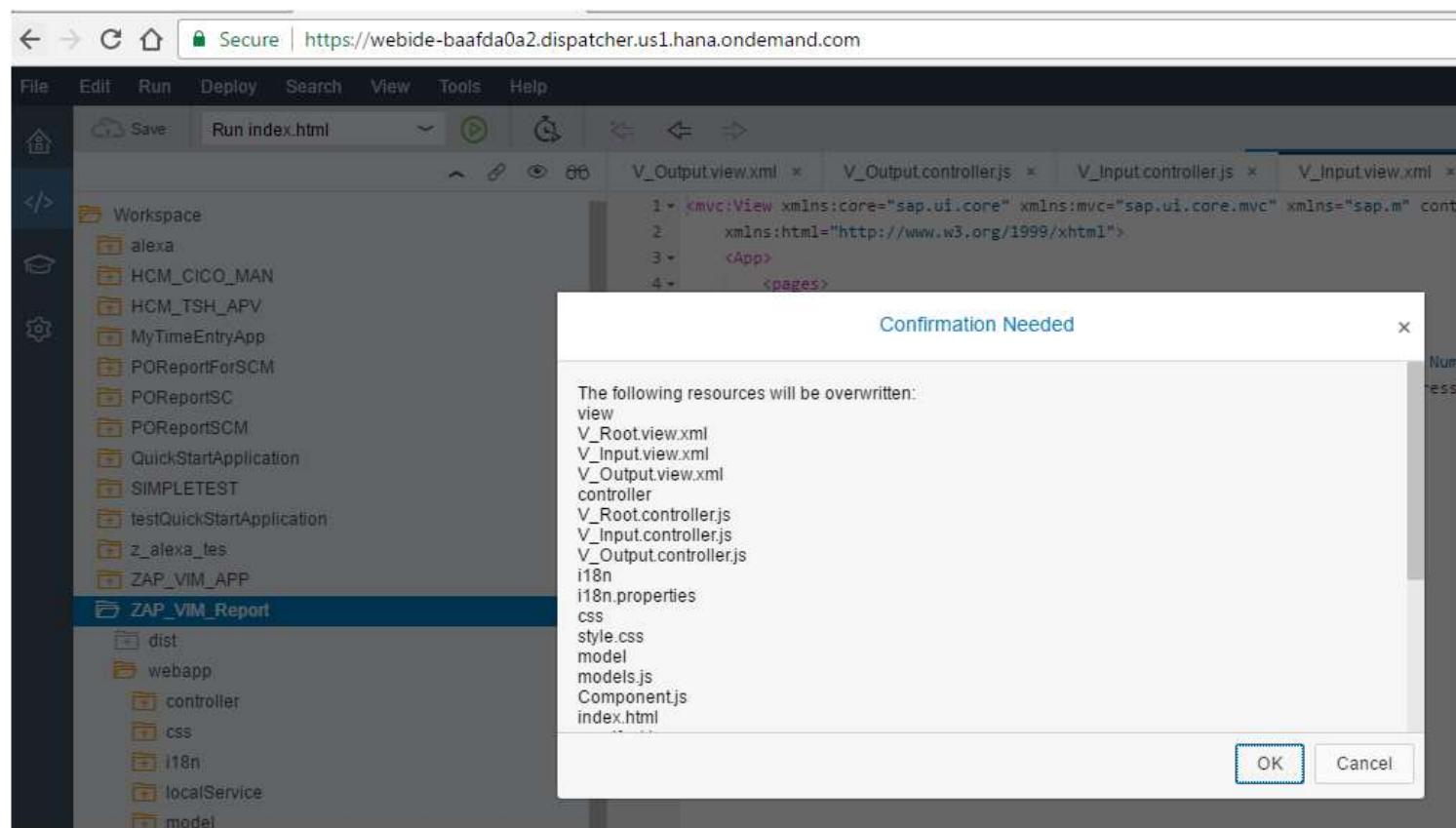
Go to Deploy to SAPUI5 ABAP Repository. System would identify by itself that it is an Update.

The screenshot shows the SAPUI5 Deployment Options dialog in WebIDE. The title bar indicates a secure connection to <https://webide-baafda0a2.dispatcher.us1.hana.ondemand.com>. The main interface is titled "Deployment Options" and displays the steps: Choose Existing Application, Select a Transport Request, and Confirmation. The current step is "Choose Existing Application". The sub-step "Deploy to SAPUI5 ABAP Repository" is selected. A dropdown menu for "System *" shows "DEV" as the selected option. Below the dropdown, two radio buttons are present: "Deploy a new application" (unchecked) and "Update an existing application" (checked). A blue information icon with the text "The SAPUI5 versions of your application and the selected SAP system are compatible." is displayed. Below this, specific version details are shown: "Application: 1.44.11" and "SAP system: 1.44.1". At the bottom, there are "Previous" and "Next" navigation buttons. The status bar at the bottom shows the file "V_RootView.xml".

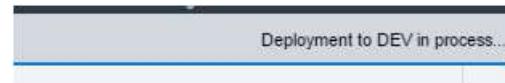
The screenshot shows the SAPUI5 WebIDE interface for deploying an application. The title bar indicates a secure connection to <https://webide-baaafda0a2.dispatcher.us1.hana.ondemand.com>. The top menu bar includes File, Edit, Run, Deploy, Search, View, Tools, and Help. On the left, there's a sidebar with icons for Home, Workspaces, and Settings. The main content area shows a three-step wizard: 'Deployment Options', 'Choose Existing Application' (which is active), and 'Confirmation'. The 'Choose Existing Application' step has a heading 'Deploy to SAPUI5 ABAP Repository' and a sub-section 'Choose Existing Application'. It displays a message: 'This application is locked by transport EGDK900150'. Below this, an 'Application Name *' field contains 'ZVIMREPORT'. A modal dialog box titled 'ZVIMReport' lists the application details: Name: ZVIMREPORT, Description: Get Invoice Details using Reference Number. At the bottom of the main content area are 'Previous' and 'Next' buttons.



After you hit Finish, Pop-up would ask for Confirmation.



Check on the top right for "Deployment in DEV in progress".



Once the **Deployment is complete**, go to Frontend SAP system of the corresponding UI. Go to transaction SE80 and check the *BSP Application* just created in the ABAP Repository.

The screenshot shows the SAP Web Application Builder interface. In the Repository Browser, the 'BSP Application' dropdown is set to 'ZVIMREPORT'. The 'index.html' page is selected in the 'Page' tab. The 'Properties' tab is active, displaying the following code:

```

5   <meta http-equiv="X-UA-Compatible" content="IE=edge" />
6   <meta charset="UTF-8">
7
8   <title>ZAP_VIM_Report</title>
9
10  <script id="sap-ui-bootstrap"
11      src="../../resources/sap-ui-core.js"
12      data-sap-ui-libs="sap.m"
13      data-sap-ui-theme="sap_belize"
14      data-sap-ui-compatVersion="edge"
15      data-sap-ui-resourceroots='{"ZAP_VIM_Report": ""}'>
16  </script>
17
18  <link rel="stylesheet" type="text/css" href="css/style.css">
19
20  <script>
21      sap.ui.getCore().attachInit(function() {
22          new sap.m.Shell({
23              app: new sap.ui.core.ComponentContainer({
24                  height : "100%",
25                  name : "ZAP_VIM_Report"
26              })
27          ).placeAt("content");
28      });
29  </script>

```

Two red arrows point to the 'data-sap-ui-resourceroots' attribute in line 15 and the 'name' attribute in line 25 of the script tag, highlighting them.

SICF service would be generated with the same name. It should be active by default, if not Activate it.

Please note there are two paths for the same service name. One is in bsp path and another is in ui5_ui5 path.

We will need ui5_ui5 path in our Launch Pad customization later.

Define Services

Create Host/Service External Aliases System Monitor Active

Filter Details

Virtual Host Service Path
ServiceName **ZVIMREPORT**
Description
Lang. EN English Ref.Service:
 Apply Reset Fine-Tune

Virtual Hosts / Services Documentation Reference Service

default_host	VIRTUAL DEFAULT HOST	
sap	SAP NAMESPACE; SAP IS OBLIGED NOT T...	
bc	BASIS TREE (BASIS FUNCTIONS)	
bsp	BUSINESS SERVER PAGES (BSP) RUNTIME	
sap	NAMESPACE SAP	
zvimreport	Get Invoice Details using Reference Number	
ui5 ui5	SAPUI5 Application Handler SAPUI5 Appli...	
sap	sap Namespace for SAPUI5 Applications	
zvimreport	Get Invoice Details using Reference Number	

Create/Change a Service

Path /default_host/sap/bc/ui5_ui5/sap/ 

Service Name zvimreport Service (Active)

Lang. EN English  Other Languages

Description

Description 1 Get Invoice Details using Reference Number

Description 2

Description 3

Service Data Logon Data Handler List Error Pages Administration

Service Options

Web Service

Ignore inherited settings

Load Balancing

SAP Authoriz.

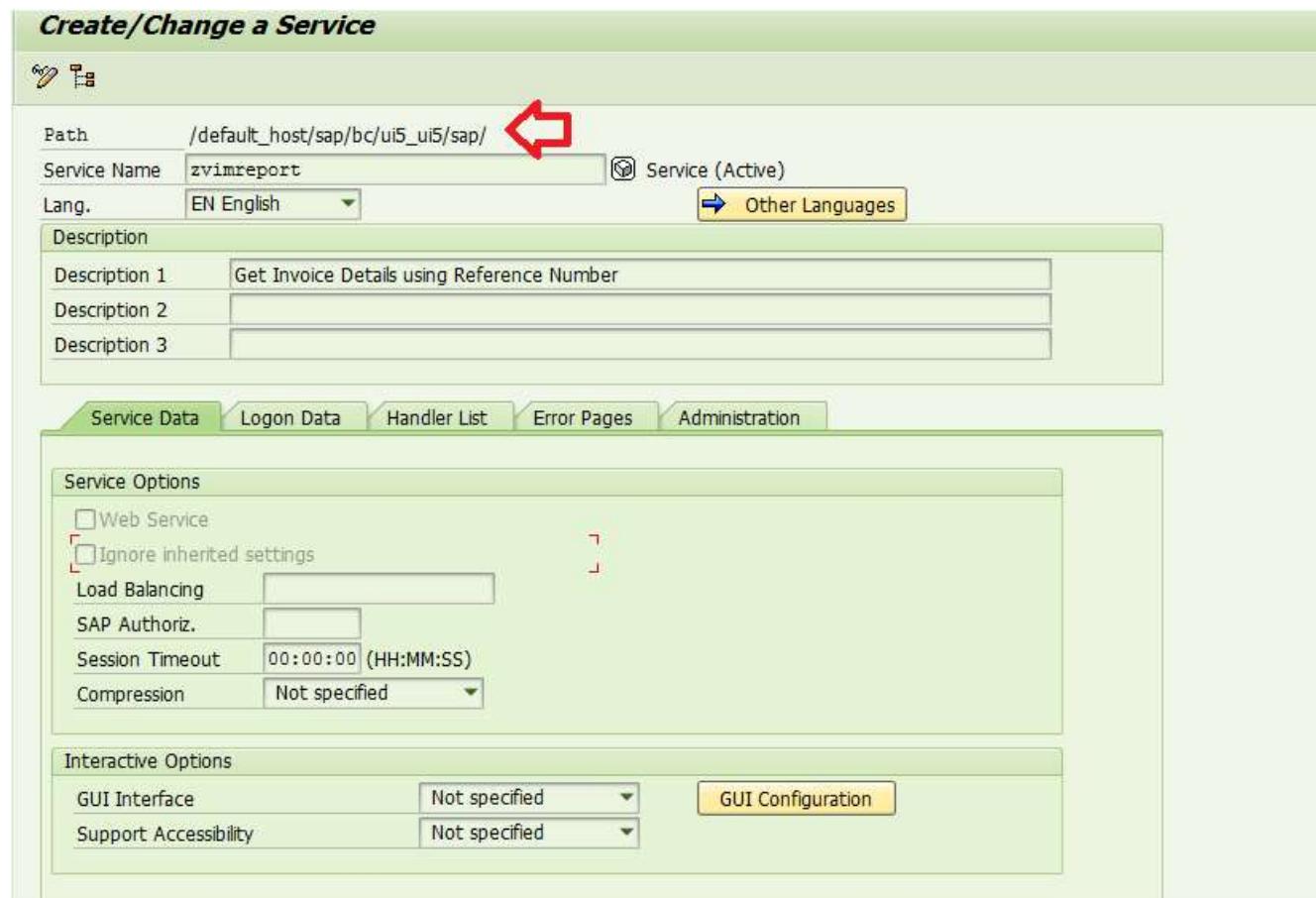
Session Timeout 00:00:00 (HH:MM:SS)

Compression Not specified

Interactive Options

GUI Interface Not specified  GUI Configuration

Support Accessibility Not specified



Also Read: [End to End Configuration and Implementation of Two Standard Fiori Apps](#)

Step 2: Create a new Launchpad

Transaction Code is **LPD_CUST**. Hit the New Launchpad button and pass the below entries.

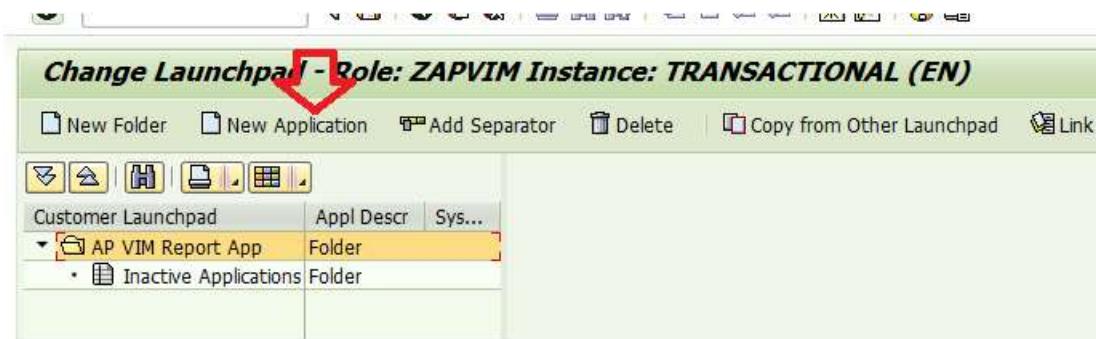
Overview of Launchpads

The screenshot shows the SAP WebIDE interface with the title bar "SAPUI5 Tutorial with WebIDE. Part VIII. Deploy my First SAPUI5 App in WebIDE |". Below the title bar is a toolbar with icons for Launchpad, Edit, Goto, System, and Help. A red box highlights the "Launchpad" icon in the toolbar.

The main area displays a table titled "Overview of Launchpads". The table has columns for Role, Instance, Description, Re..., E..., and FP... (with many 'X' marks). Several rows are listed, including FPM, SAVED_SEARCHES, FPM Saved Searches; FPM, TESTSUITE_GUIBB, FPM Configurable UI Building Blocks; and others like FPM_MSG, FPM_NAV_2, FPM_TEST, etc.

A modal dialog titled "Enter Values for a New Launchpad" is open over the table. It contains fields for Role (ZAPVIM), Instance (TRANSACTIONAL), Description (AP VIM Report App), Namespace (highlighted with a yellow box and a red border), Type of Launchpad (empty), and Language (EN). At the bottom right of the dialog are two buttons: a green checkmark and a red X.

Below the main table, another modal dialog titled "Namespace required?" is displayed. It asks, "Are you sure that you don't need a namespace?". It includes a question mark icon, a "Yes" button, a "No" button (which is highlighted with a red border), and an "Info" button.



Maintain the **URL**, **Application Alias** and **Additional Information** in Launchpad.

Click on **New Application**. Give a text to the Link and select Application Type as "**URL**". Hit the write/text icon beside URL to give your *service path*. Remember to give *ui5_ui5* path from SICF.

Change Launchpad - Role: ZAPVIM Instance: TRANSACTIONAL (EN)

New Folder New Application Add Separator Delete Copy from Other Launchpad Link to a Repository Application Search

Customer Launchpad Appl Descr Sys...
AP VIM Report App Folder
Inactive Applications Folder
AP VIM Report URL

Link Details
Link Text AP VIM Report 
Description 

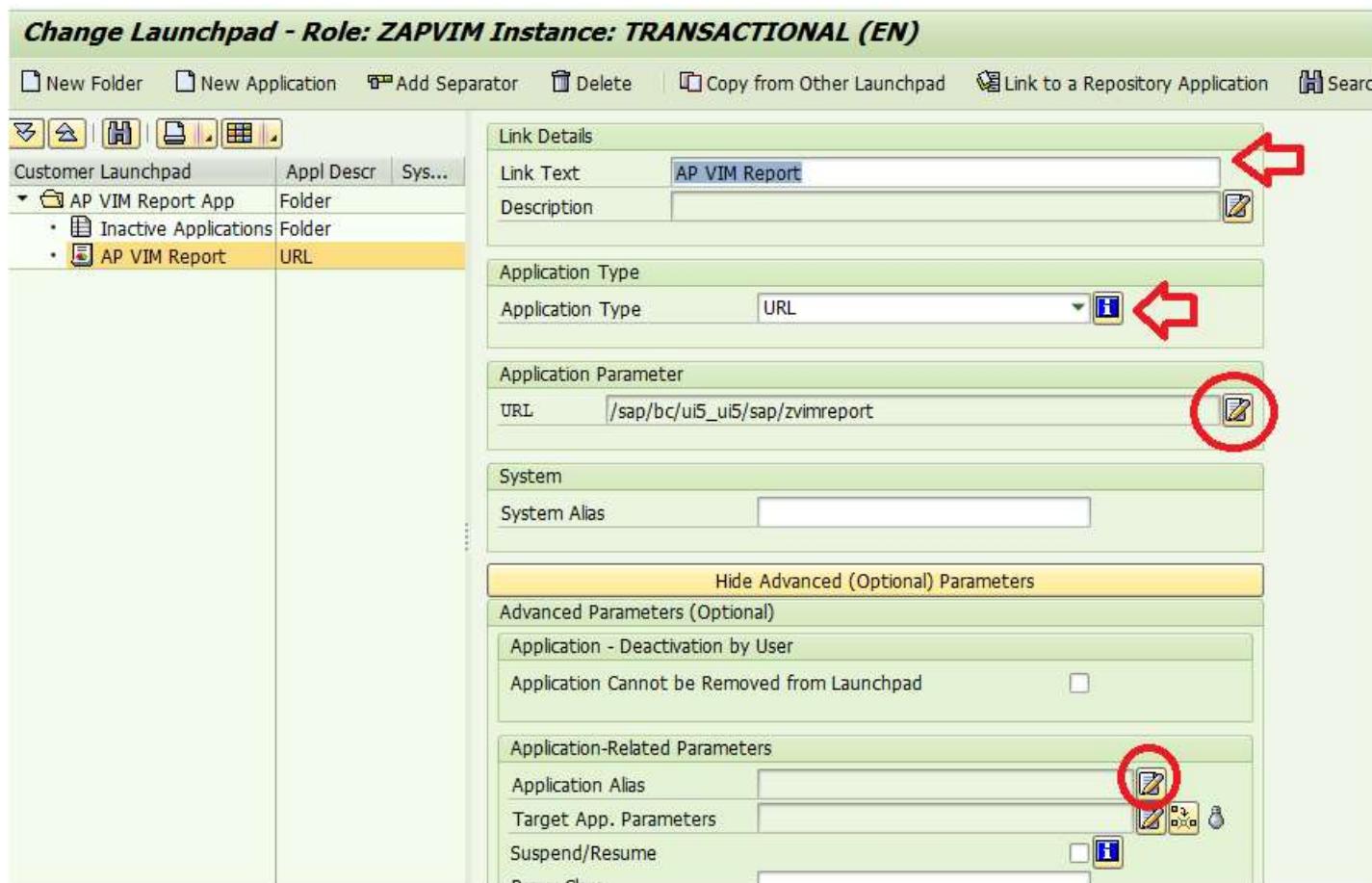
Application Type
Application Type URL 


Application Parameter
URL /sap/bc/ui5/sap/zvimreport 


System
System Alias

Advanced Parameters (Optional)
Application - Deactivation by User
Application Cannot be Removed from Launchpad

Application-Related Parameters
Application Alias 
Target App. Parameters 
Suspend/Resume 
Drawn Class



Hit the **Advance Parameters** button and give the **Application Alias** name.

Change Launchpad - Role: ZAPVIM Instance: TRANSACTIONAL (EN)

New Folder New Application Add Separator Delete Copy from Other Launchpad Link to a Repository Application Search

Customer Launchpad AP VIM Report App Folder Inactive Applications AP VIM Report URL

Hide Advanced (Optional) Parameters

Advanced Parameters (Optional)

Application - Deactivation by User Application Cannot be Removed from Launchpad

Application-Related Parameters

Application Alias zvimreport

* Li 1, Co 1 Ln 1 - Ln 1 of 1 lines

Target App. Parameters

Suspend/Resume

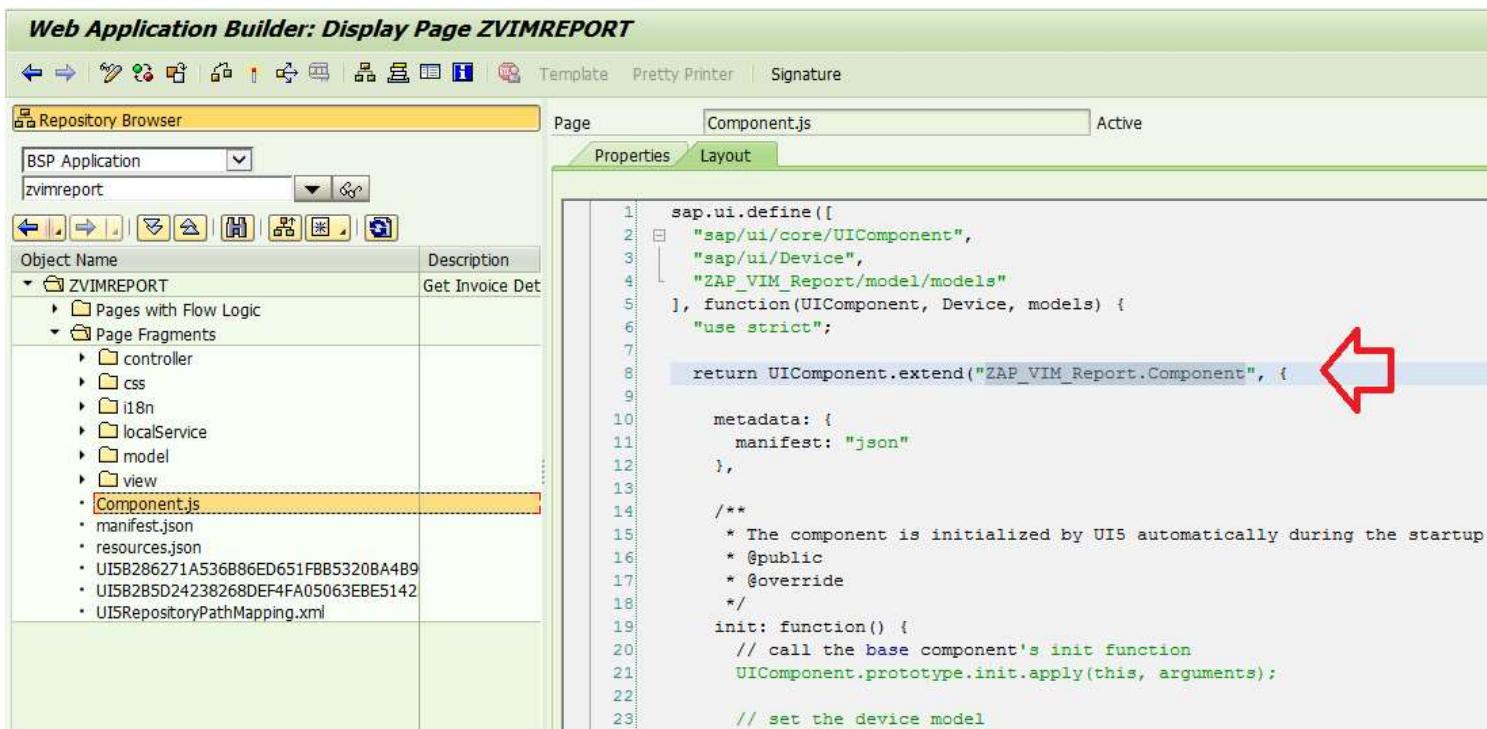
Proxy Class

Additional Information SAPUI5.Component=ZAP_VIM_Report

FPM Event ID

Give the Additional Information as **SAPUI5.Component=ZAP_VIM_Report**. Give the name as it is in your UI Project **component.js** file and save it.

If you mess anything in this Additional Information section above, you will face problem while launching your final App.. 😊



Web Application Builder: Display Page ZVIMREPORT

Repository Browser

Page Component.js Active

Properties Layout

```

1 sap.ui.define([
2   "sap/ui/core/UIComponent",
3   "sap/ui/Device",
4   "ZAP_VIM_Report/model/models"
5 ], function(UIComponent, Device, models) {
6   "use strict";
7
8   return UIComponent.extend("ZAP_VIM_Report.Component", {
9
10     metadata: {
11       manifest: "json"
12     },
13
14     /**
15      * The component is initialized by UI5 automatically during the startup of
16      * the application
17      * @public
18      * @override
19      */
20     init: function() {
21       // call the base component's init function
22       UIComponent.prototype.init.apply(this, arguments);
23
24       // set the device model
25     }
26   });
27
28 });

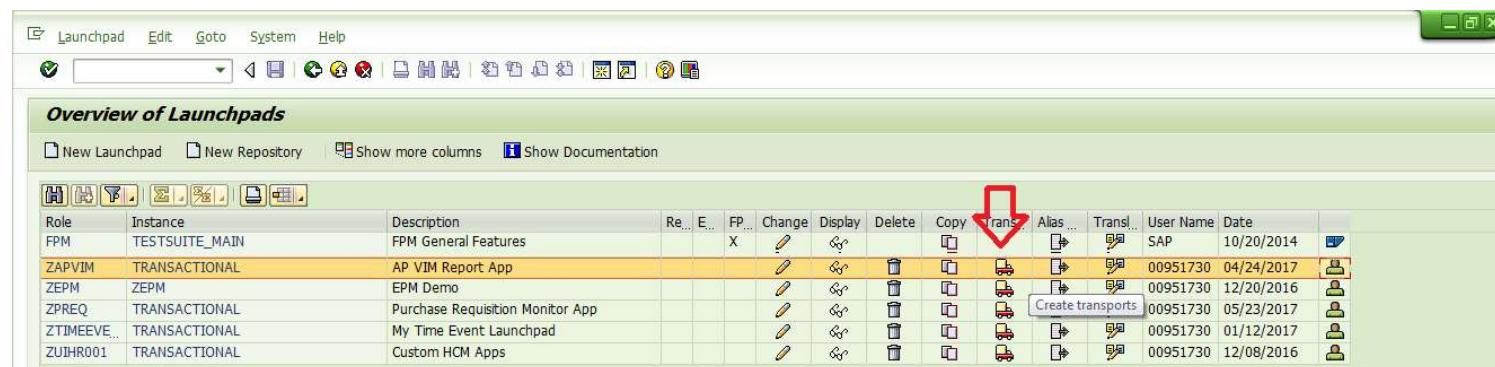
```

Object Name Description

- ZVIMREPORT
 - Pages with Flow Logic
 - Page Fragments
 - controller
 - css
 - i18n
 - localService
 - model
 - view
 - Component.js
 - manifest.json
 - resources.json
 - UI5B286271A536B86ED651FBB5320BA4B9
 - UI5B2B5D24238268DEF4FA05063E8E5142
 - UI5RepositoryPathMapping.xml

Step 3: Manually move the Launchpad to a Transport Request (Very Important)

Go back to t-code **LPD_CUST**. Select your Launchpad row and hit the truck (transport) icon and save it in your transport request. Until SAP provides something which would pop up and say, save in transport while saving the Launchpad, till that time, *consultants have to remember to manually put in the transport*.



Launchpad Edit Goto System Help

Overview of Launchpads

Role	Instance	Description	Re...	E...	FP...	Change	Display	Delete	Copy	Trans	Alias...	Transl...	User Name	Date
FPM	TESTSUITE_MAIN	FPM General Features											SAP	10/20/2014
ZAPVIM	TRANSACTIONAL	AP VIM Report App											00951730	04/24/2017
ZEPM	ZEPM	EPM Demo											00951730	12/20/2016
ZPREQ	TRANSACTIONAL	Purchase Requisition Monitor App											00951730	05/23/2017
ZTIMEEEVE...	TRANSACTIONAL	My Time Event Launchpad											00951730	01/12/2017
ZUJHR001	TRANSACTIONAL	Custom HCM Apps											00951730	12/08/2016

Step 4: Create a Semantic Object in /UI2/SEMOBJ

Go to t-code /UI2/SEMOBJ and hit New Entries. Give a *Semantic Object* name and description of your choice.

Display View "Semantic Objects - Customer View": Overview		
Semantic Objects - Customer View		
Semantic Object	Semantic Object Name	Semantic Object Description
ZAPVIM_O	ZAPVIM_N	Semantic Object for AP VIM Report
ZTimeEntry	ZTime Entry	A period of time one spends to perform a particular activity

Step 5: Manually move the System Alias of the service to a Transport (Very Important)

Go to t-code **/IWFND/MAINT_SERVICE**, select your OData service.

BEP	Service Name	Description	Status	Transport
BEP	ZGW_VIM_APP_SRV	1 Fiori App for VIM	ZGW_VIM_APP_SRV	<input type="checkbox"/> Not Supported Routing-based
BEP	ZGW_VIM_APP2_SRV	1 VIM Report	ZGW_VIM_APP2_SRV	<input type="checkbox"/> Not Supported Routing-based
BEP	ZGW_VIM_FIORI_SRV	1 Gateway Project for Fiori	ZGW_VIM_FIORI_SRV	<input type="checkbox"/> Not Supported Routing-based
BEP	ZGW_VIM_RFC_SRV	1 VIM Details	ZGW_VIM_RFC_SRV	<input type="checkbox"/> Not Supported Routing-based
BEP	ZHCM_TIMESHEET_APPROVE_SRV_1	1 Approve Timesheet Extension	ZHCM_TIMESHEET_APPROVE_SRV	<input type="checkbox"/> Not Supported Routing-based
BEP	ZTESTEST_SRV	1 test	ZTESTEST_SRV	<input type="checkbox"/> Not Supported Routing-based

ICF Nodes		System Aliases	
Status	ICF Node	SAP System Alias	Description
OOB	ODATA	UD1_130	UD1 Backend

Do not forget to *Include the line in transport* and save it.

Service	User Role	Host Name	SAP System Alias	Default System	Metadata Default	Tech. Svc. Name	Ext. Service Name
ZGW_VIM_APP_SRV_0001			UD1_130	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ZGW_VIM_APP_SRV	ZGW_VIM_APP_SRV

Step 6: In Fiori Launchpad Designer Create Catalog Object for the App

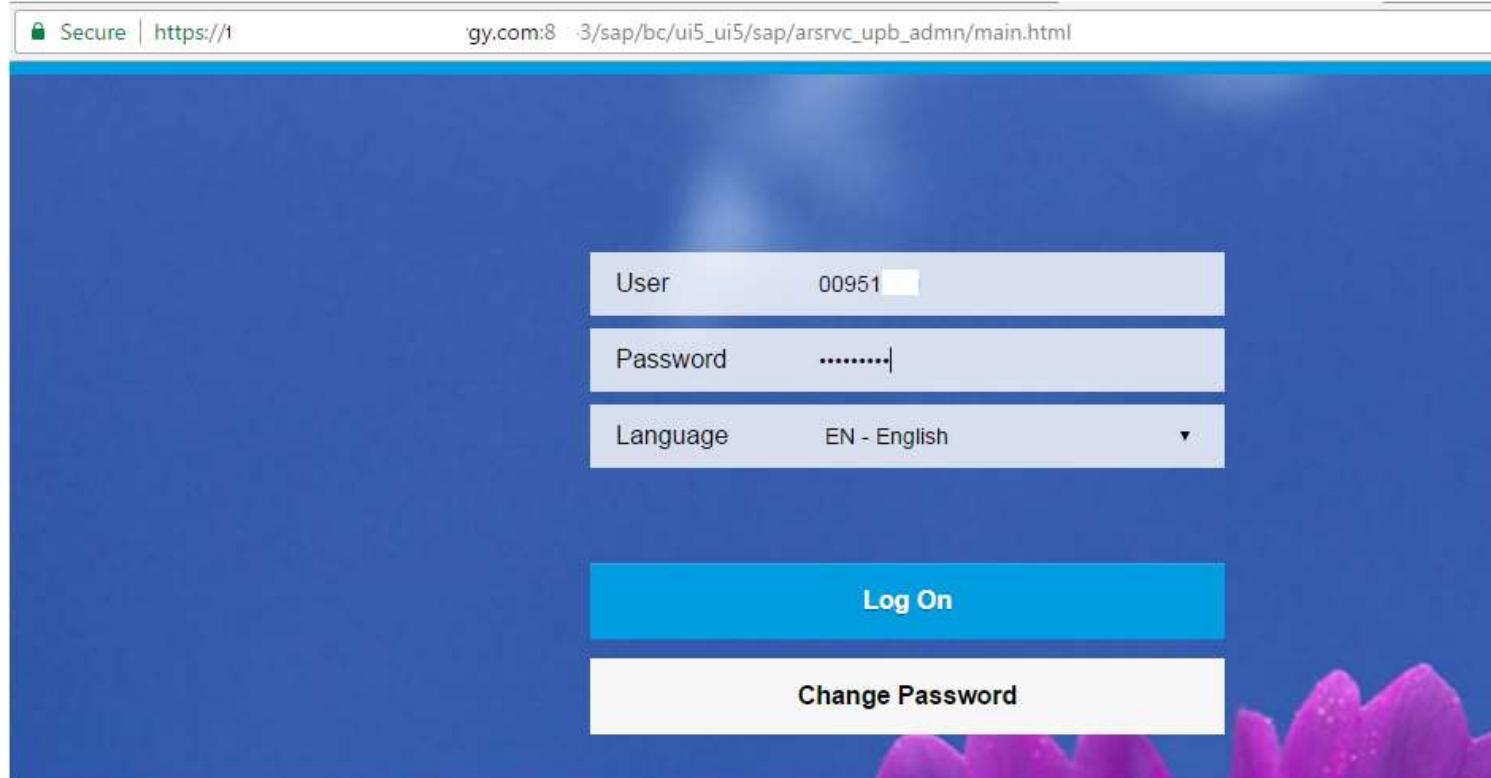
This is the generic URL for Fiori Launchpad Designer:

https://<host>:<port>/sap/bc/ui5_ui5/sap/arsrvc_upb_admn/main.html

If you do not know how to check the Host and Port of your SAP system, then check this article on [SAP Netweaver Gateway and OData](#).

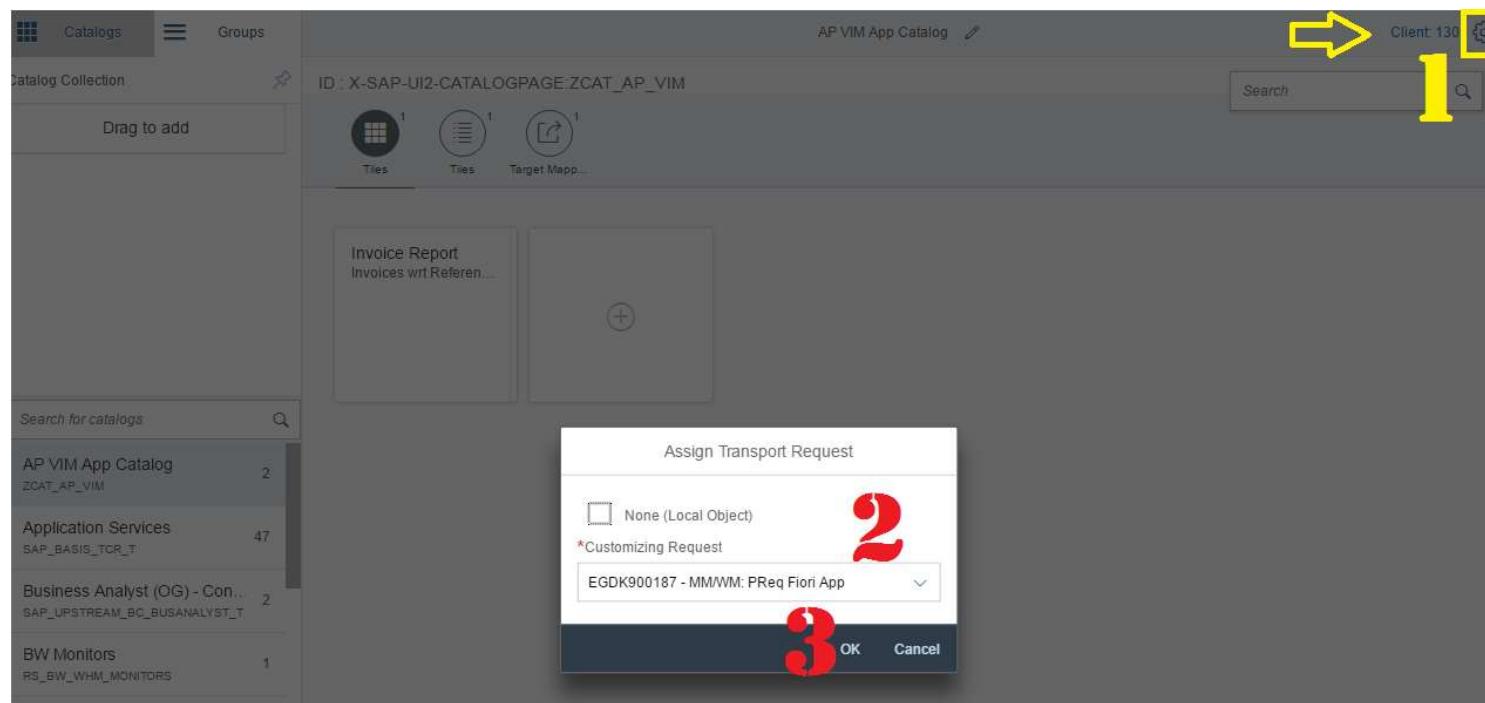
For our example it is:

https://sapyard.com:2007/sap/bc/ui5_ui5/sap/arsrvc_upb_admn/main.html



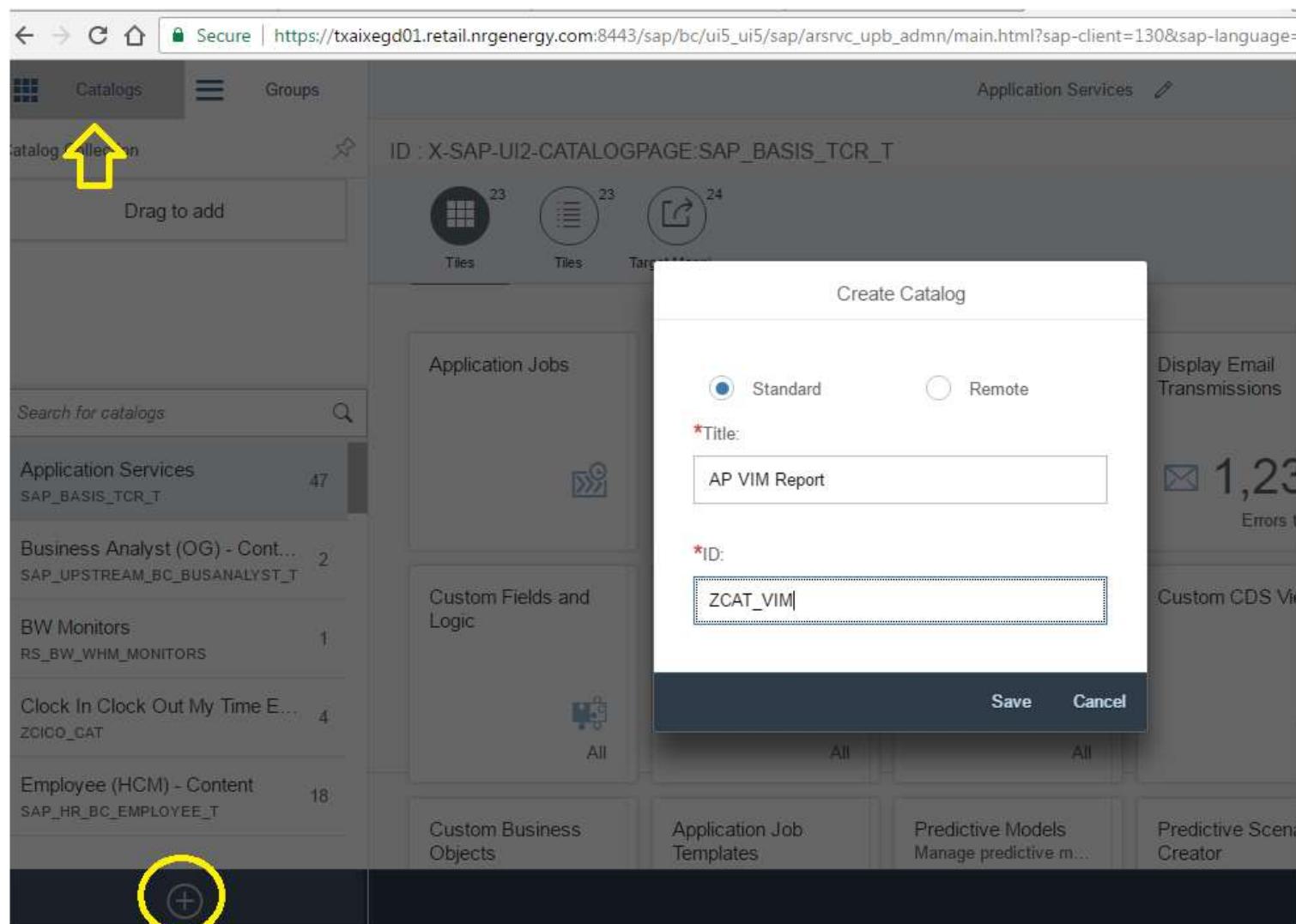
The moment you are in the Launchpad designer, ***your first and foremost duty is to assign a transport.*** Fiori does not prompt you for transports when you save it. You have to be proactive. 😊

Hit on the tool icon on top right and assign a customizing transport.



Create a Catalog.

Select the Catalog Menu and hit the + icon on the left bottom.



The screenshot shows a SAPUI5 application interface for managing catalogs. A yellow arrow points to the 'Catalogs' tab in the top navigation bar. A yellow circle highlights the '+' button at the bottom left of the main content area, which is used to create new catalog objects. A modal dialog box titled 'Create Catalog' is open in the center. It contains two radio buttons: 'Standard' (selected) and 'Remote'. Below them are fields for 'Title' (containing 'AP VIM Report') and 'ID' (containing 'ZCAT_VIM'). At the bottom of the dialog are 'Save' and 'Cancel' buttons.

Step 7: Create Target Mapping for the Catalog Object

The screenshot shows the SAPUI5 Catalogs interface. On the left, there's a sidebar with a search bar and a list of catalog entries:

- Purchase Requisition App Cata... (selected, highlighted in blue)
- SAP Fiori Administration (2)
- SAP Lumira (4)
- SAP News Tile (2)
- SAP Runtime Authoring Plugin (1)
- SAP: Configuration for enab... (1)
- SAP: Cross - Transactional A... (2)
- SAP: HCM - Transactional ... (24)
- SAP: KPI Modeler (remote) (1)

The main content area displays the "Purchase Requisition App Catalog" with the ID X-SAP-UI2-CATALOGPAGE:ZCAT_PReq. It includes a navigation bar with tabs for Semantic Object, Action, Navigation type, Information, Desktop, and Tablet. Below the navigation bar, a message says "No data". At the bottom of the main content area, there are several buttons: "+", "Show similar target mappings", "Create Target Mapping" (which is highlighted with a red box), "Configure", "Create Reference", "Delete", and "Where Used".

Secure | https://txaixegd01.retail.nrgenergy.com:8443/sap/bc/ui5_ui5/sap/arsvc_upb_admn/main.html#/Catalog/X-SAP-UI2-CATALOGPAGE:ZCAT_AP_VIM | Instance ID: 7XW0KS2RA6F60TQSDE7WVN3

Configure: 'Target Mapping'

Intent Target

Semantic Object:	ZAPVIM_O
Action:	display
Application Type:	SAP Fiori App using LPD_CUST
Launchpad Role:	ZAPVIM
Launchpad Instance:	TRANSACTIONAL
Application Alias:	ZVIMREPORT
Application ID:	

General

Information:																																			
Device Types:	<input checked="" type="checkbox"/> Desktop	<input checked="" type="checkbox"/> Tablet	<input checked="" type="checkbox"/> Phone																																
Parameters:	<table border="1"> <thead> <tr> <th>Name</th> <th>Mandatory</th> <th>Value</th> <th>Is Regular Expression</th> <th>Default Value</th> </tr> </thead> <tbody> <tr> <td>Enter a name</td> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Name	Mandatory	Value	Is Regular Expression	Default Value	Enter a name	<input type="checkbox"/>		<input type="checkbox"/>																					
Name	Mandatory	Value	Is Regular Expression	Default Value																															
Enter a name	<input type="checkbox"/>		<input type="checkbox"/>																																
<input checked="" type="checkbox"/> Allow additional parameters <table border="1"> <tr> <td>Add</td> <td>Delete</td> </tr> </table>						Add	Delete																												
Add	Delete																																		

Save Cancel

Secure | https://txaixegd01.retail.nrgenergy.com:8443/sap/bc/ui5_ui5/sap/arsvc_upb_admn/main.html#/Catalog/X-SAP-UI2-CATALOGPAGE:ZCAT_AP_VIM | Instance ID: 7XW0KS2RA6F60TQSDE7WVN3

Catalogs Groups Client: 130

Catalog Collection

Drag to add

ID : X-SAP-UI2-CATALOGPAGE:ZCAT_AP_VIM

Search

AP VIM App Catalog

Tiles 0 Tiles 0 Target Mapp... 1

Semantic Object Action Navigation type Information Desktop Tablet

ZAPVIM_O display SAP Fiori App using LPD_CUST ✓ ✓

Configure Columns

AP VIM App Catalog ZCAT_AP_VIM 1

Application Services SAP_BASIS_TCR_T 47

Step 8: Create Tiles for the Catalog Object

The screenshot shows the SAPUI5 Catalog Collection interface. On the left, there's a sidebar with a search bar and a list of catalog collections: AP VIM App Catalog (selected), Application Services, and Business Analyst (OG) - Cont... The main area displays a placeholder for adding a new tile, indicated by a large red circle around a plus sign (+). Above this placeholder, there are three icons: 'Tiles' (with count 0), 'Tiles' (with count 0), and 'Target Mappi...' (with count 1). The title bar shows the URL: https://txaixegd01.retail.nrgenergy.com:8443/sap/bc/ui5_ui5/sap/arsvc_upb_admn/main.html#/Catalog/X-SAP-UI2-CATALOGPAGE:ZCAT_AP_VIM.

The screenshot shows the SAPUI5 Catalog Collection interface. The main area displays a placeholder for adding a new tile, indicated by a large red circle around a plus sign (+). Above this placeholder, there is a text box with the placeholder text "Select a tile template". A red arrow points from the text box to the plus sign. Below the placeholder, there are two tiles: "App Launcher – Dynamic" and "App Launcher – Static". Each tile has a brief description and a plus sign (+) below it. The title bar shows the URL: https://txaixegd01.retail.nrgenergy.com:8443/sap/bc/ui5_ui5/sap/arsvc_upb_admn/main.html#.

The screenshot shows the SAPUI5 WebIDE interface for configuring an app launcher tile. The title bar indicates a secure connection to https://txaixegd01.retail.nrgenergy.com:8443/sap/bc/ui5/ui5/sap/arsvc_upb_admn/main.html#/Catalog/X-SAP-UI2-CATALOGPAGE:ZCAT_AP_VIM. The instance ID is 7XW0KSZ8RA6F60TR40W4AUF9.

General

- Title: ZAPVIM_Tile
- Subtitle: AP VIM Report
- Keywords:
- Icon: sap-icon://inbox
- Information:

Navigation

- Use semantic object navigation:
- Semantic Object: ZAPVIM_O
- Action: display
- Parameters:
- Target URL:

Tile Actions

	Menu Item	Target Ty...	Navigation Target	Action	Icon	
<input type="checkbox"/>		URL	<input type="text"/>		sap-ic...	<input type="button" value=""/>

Buttons

Save Cancel

Your Catalog would look something like below.

The screenshot shows the SAPUI5 Catalogs interface. On the left, there's a sidebar with a search bar for 'Search for catalogs' and a list of catalogs: 'AP VIM App Catalog' (selected, showing ID ZCAT_AP_VIM), 'Application Services' (SAP_BASIS_TCR_T, 47 items), and 'Business Analyst (OData) - Cont'. The main area is titled 'AP VIM App Catalog' with ID X-SAP-UI2-CATALOGPAGE:ZCAT_AP_VIM. It features a 'Drag to add' button and three icons: 'Tiles' (1 item), 'Tiles' (1 item), and 'Target Mappi...'. Below these are two tiles: 'ZAPVIM_Tile AP VIM Report' and an empty tile with a '+' icon.

Step 9: Create Group for the Catalog object

Select the Groups Menu and hit the + icon on the left bottom.

The screenshot shows the SAPUI5 WebIDE interface for managing groups. A yellow arrow points to the search bar labeled 'Search for groups'. Another yellow circle highlights the '+' icon at the bottom left of the main content area. A modal window titled 'Create Group' is open, prompting for a 'Title' (AP VIM App Group) and an 'ID' (ZGRP_AP_VIM). It also includes a checkbox for 'Group personalization' which is checked. At the bottom of the modal are 'Save' and 'Cancel' buttons.

Step 10: Include to Catalog object into the Group

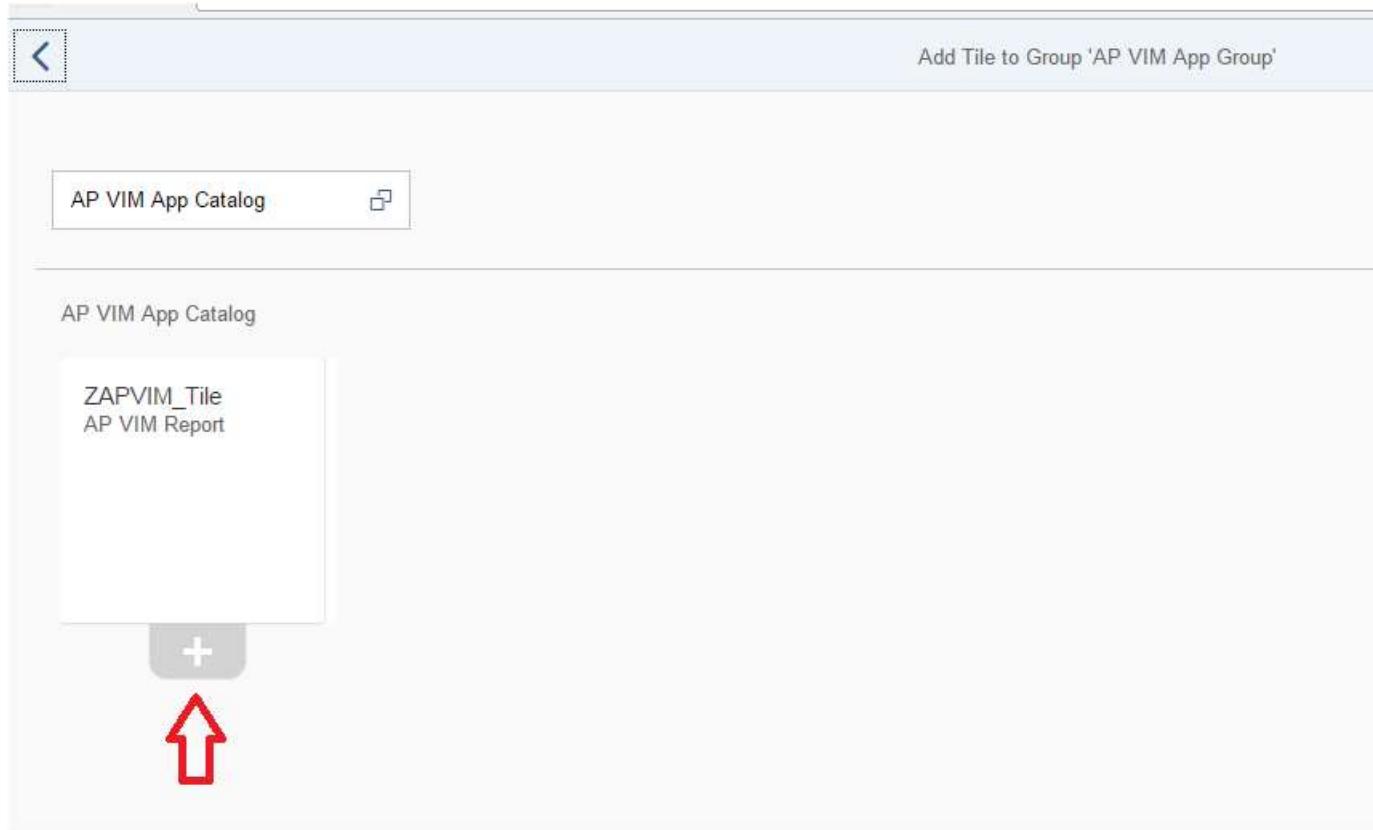
Once the Group is created, click on the + icon and add the Catalog which you created earlier.

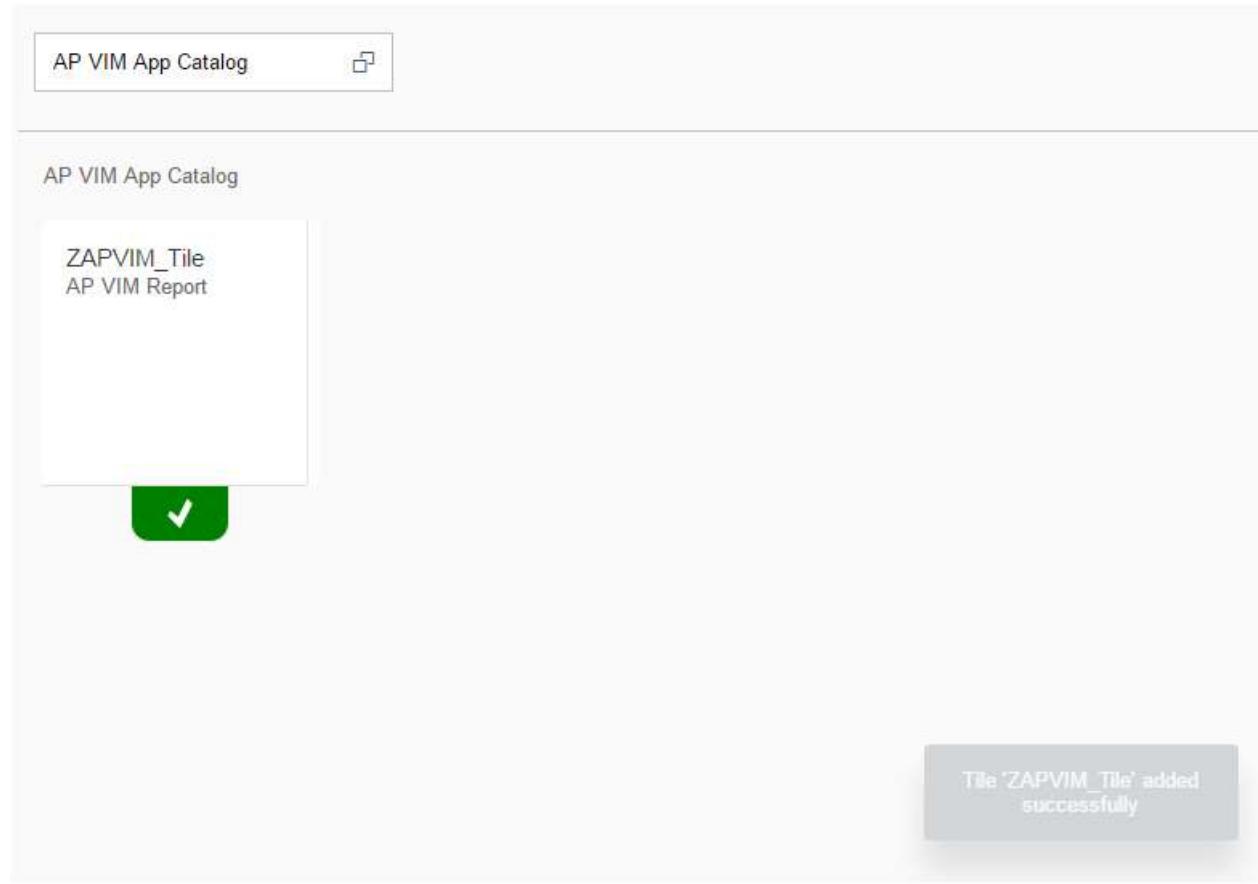
The screenshot shows the SAP WebIDE interface for managing app groups. On the left, there's a sidebar with 'Catalogs' and 'Groups' tabs, and a search bar labeled 'Search for groups'. Below the search bar is a list of app groups:

- AP VIM App Group (ID: ZGRP_AP_VIM)
- Business Analyst (OG) (ID: SAP_UPSTREAM_BCG_BUSANALYS...)
- BW Monitors (ID: RS_BW_WHM_MONITORS_GROUP)
- Employee (HCM) (ID: SAP_HR_BCG_EMPLOYEE_T)
- Employee Time Booking and A... (ID: ZCICO_GRP)
- EPM Demo (ID: 1)

To the right of the list, there are two sections: 'Show as Tiles' and 'Show as Links'. Each section contains a large button with a '+' sign in the center, which is circled in red in the screenshot.

Look for the Catalog and hit the + icon.





Step 11: Ask the Security Team to add the Catalog, Group and SAPUI5 service to the User Role

Finally, once you have created the Catalog and the Group, ask your SAP Security/Admin team to add the Catalog, group and OData Service in a role and provide you the access. *Sample mail below. Too much spoon feeding.* 😊

To... SAP SECURITY;

Send

Cc...
Bcc...
Subject: PFCG Role for AP VIM Fiori Tile Catalog and Group

Dear Team,

Can you please add the below Fiori Catalog and Group to a PFCG role and assign them to my user id.

Catalog : ZCAT_AP_VIM
Group : ZGRP_AP_VIM

Also please add this service.

Display View "Assign SAP System Aliases to OData Service"

Service Doc. Identifier	User Role	Host Name	Service Alias
ZGW_VIM_APP2_SRV_0001			UI

Once we test it we want to move it to Quality.

Thanking you.

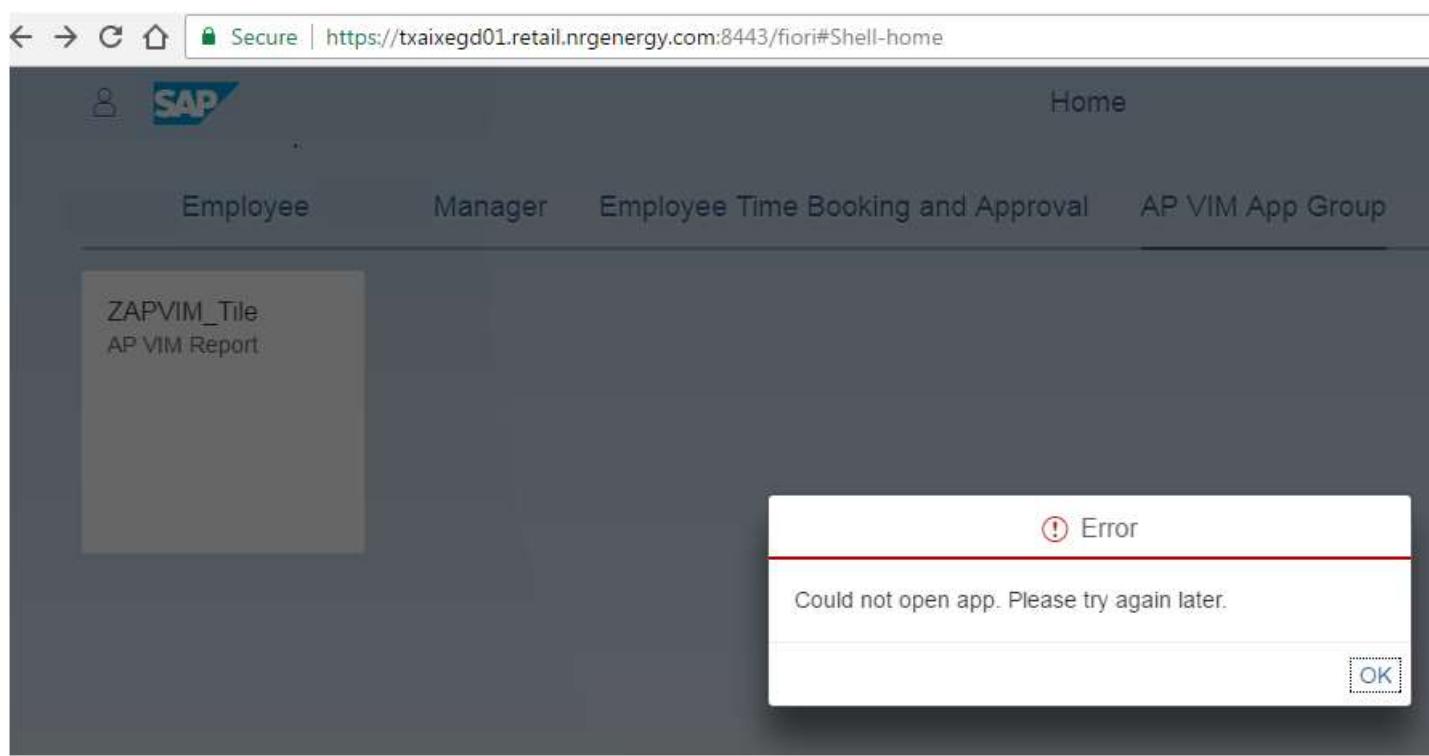
With Regards,

All the above steps are the ideal steps. In the real world, we are bound to face some problems. Let us see what are the common mistakes we might make and their solutions.

Frequently encountered Issues in Custom SAPUI5 Fiori App

Issue 1: "Could not open App. Please try again later"

After you have done all the above-mentioned steps, you log into Fiori Launch Pad. You are happy to see the Fiori Tile in the Group. You click the App and oops, you get the error: "Could not open app. Please try again later".



Now there can be 101 reasons for that error. 😊

Before cursing anyone, check these two items:

- i) The **Application Alias** which you are maintaining in LPD_CUST should be the same in **Launchpad Designer Target mapping**. For your reference below is the Application Alias field in Target mapping in LPD_Designer

Configure: 'Target Mapping'

Target

Semantic Object:	ZAPVIM_O	Application Type:	SAP Fiori App using LPD_CUST
Action:	display	Launchpad Role:	ZAPVIM
		Launchpad Instance:	TRANSACTIONAL
		Application Alias:	ZVIMREPORT
		Application ID:	

Change Launchpad - Role: ZAPVIM Instance: TRANSACTIONAL (EN)

New Folder New Application Add Separator Delete Copy from Other Launchpad Link to a Repository Application Hide Advanced (Optional) Parameters

Customer Launchpad

- AP VIM Report App Folder
 - Inactive Applications Folder
 - AP VIM Report URL

Advanced Parameters (Optional)

Application - Deactivation by User
Application Cannot be Removed from Launchpad

Application-Related Parameters

Application Alias: ZVIMREPORT
Target App. Parameters
Suspend/Resume
Proxy Class

ii) Additional Information Path in LPD_CUST

For any custom UI5 applications, the **component.js** name in UI and **Additional Information** in the LPT_CUST should be exactly the same when we execute this app from Fiori Launchpad

In our case, our additional information should fill with below:

SAPUI5.Component=ZAP_VIM_Report

Proxy Class	
Additional Information	APUI5.Component=ZAP_VIM_Report
FPM Event ID	

```

sap.ui.define([
  "sap/ui/core/UIComponent",
  "sap/ui/Device",
  "ZAP_VIM_Report/model/models"
], function(UIComponent, Device, models) {
  "use strict";

  return UIComponent.extend("ZAP_VIM_Report.Component", {
    metadata: {
      manifest: "json"
    },
    /**
     * The component is initialized by UI5 automatically during the startup of the app and
     * @public
     * @override
     */
    init: function() {
      // call the base component's init function
      UIComponent.prototype.init.apply(this, arguments);

      // set the device model
      this.setModel(models.createDeviceModel(), "device");
      // enable hash based routing
      this.getRouter().initialize();
    }
  });
});

```

Initially, we saved it wrong as below where we typed SAPUI5.Component=ZAP_VIM_Report.**Component**. Remember:
".Component" is not needed.

This was the reason for our App not opening. *It might be so simple and silly issue*. Check how we wrongly saved it.



Issue 2: The App neither opens in Browser mode nor in mobile/iPad app mode in the Quality system after transport.

You might need to:

- i. Manually activate *SICF service for OData* in UI frontend system
- ii. Manually activate *SICF service for BSP application* in UI frontend system
- iii. Maintain SAP System Aliases to OData Service in Quality system

Display View "Assign SAP System Aliases to OData Service": Overview					
Assign SAP System Aliases to OData Service					
Service Doc. Identifier	User Role	Host Name	SAP System Alias	Default System	Metadata Default
ZGW_VIM_APP2_SRV_0001			_900	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Issue 3: App Tile is available in Browser but it is not visible in mobile or Ipad.

Once your app is moved to quality, it does not open. The progress indicator keeps moving and moving but never stops. Seems like it went into some infinite loop and stuck somewhere.



We checked t-code /IWFND/ERROR_LOG but it did not help much. Finally, we found the issue by looking at the system logs in t-code **SLG1**. Who in this whole world would think SLG1 would also log Fiori Logs? But it does. 😊

When /IWFND/ERROR_LOG fails, age-old SLG1 comes to rescue.

The screenshot shows the SAP System Log (SLG1) interface. The main area displays log entries from April 24, 2017, at 15:57:32. One entry is highlighted in yellow, indicating a problem class 'Additional Information'. The message text pane below shows a log entry starting with '*** Start of log: 24.04.2017 15:57:33 ***' followed by several green icons. A red arrow points to a specific message: 'Navigation link for intent ZAPVIM_O-display could not be resolved'. This message is preceded by a red circle icon. The pane ends with '*** End of log: 24.04.2017 15:57:33 ***'.

It says "**Navigation link for intent could not be resolved**".

When we saw this message, the bell rang. The log was clear to point towards the Launchpad. Surprise surprise!! We forgot to save the Launchpad to a transport and move to Quality.

Overview of Launchpads							
<input type="checkbox"/> New Launchpad	<input type="checkbox"/> New Repository	<input type="checkbox"/> Show more columns	<input type="checkbox"/> Show Documentation				
UIHR001	TRANSACTIONAL_APP	UIHR001 Transactional Apps					
UIHR001	TRANSACTIONAL	Launchpad for HCM Fiori Transactional app					
UIOILSOH	TRANSACTIONAL	UPSTREAM - Transactional Apps					
ZAPVIM	TRANSACTIONAL	AP VIM Report App					
ZEPM	ZEPM	EPM Demo					
ZPREQ	TRANSACTIONAL	Purchase Requisition Monitor App					
ZTIMEEVENT	TRANSACTIONAL	My Time Event Launchpad					
ZUIHR001	TRANSACTIONAL	Custom HCM Apps					

The log message had keywords: **Intent, Object** ZAPVIM_O-display. So **Launchpad** was the culprit. Not we. 😊

SAPUI5 Tutorial with WebIDE. Part VIII. Deploy my First SAPUI5 App in WebIDE |

Configure: "Target Mapping"

Intent

Semantic Object: **ZAPVIM_O**

Action: display

Target

Application Type: SAP Fiori App using LPD_CUST

Launchpad Role: **ZAPVIM**

Launchpad Instance: TRANSACTIONAL

Application Alias: ZVIMREPORT

Application ID:

Issue 4: New update/change in UI does not reflect in Quality system after re-transport

To your surprise, the new UI changes are not effective in the Quality. You transport looks good. So what happened?

It is the **CACHE** issue. Just like in SAP Workflow we use t-code **SWU_OBUF** to clear the buffer and the workflow changes start reflecting. Similarly, in SAPUI5, we need to refresh the CACHE.

Refresh CACHE after every UI Change in Quality System. Transaction **/IWFND/CACHE_CLEANUP** should help. Also check t-code **/IWBEPCACHE_CLEANUP**.

This was our experience with our first SAPUI5 Deployment. There were some road blockers and hurdles. But in the end, we made it through. *As we always say, the issues in SAP might seem humongous, but the solution is always small and simple.* But finding that simple right solution is the trickiest and time-consuming part.

It was a good learning experience for all our team members. It was also exciting to see our first app in our mobile and iPad. *Moreover, our end users are super happy.* Although this was a super simple App, still they use it more often and the report we already have for them in SAP backend. After all, the *UI is so pretty and intuitive.* The end users do not need any training to use it. **Did we ever take training to play our Temple Run App on our mobile?** Same should hold good for SAP Fiori Apps. Sometimes, business should be fun and delightful. 😊

SAPUI5 Fiori and front end UI are here to stay long. That is what we feel from our experience. 😊

If you GENUINELY like our articles then it would be a HUGE help if you **shared, subscribed** and **liked** us on **facebook**. *It might seem insignificant, but it helps more than you might think.*

Step by Step Tutorials on SAPUI5

- [Journey to SAPUI5](#)
- [SAPUI5 Tutorial with WebIDE. Part I. How to Consume Custom OData in SAPUI5 Application](#)
- [SAPUI5 Tutorial with WebIDE. Part II. Routing and Navigation in SAPUI5 Application](#)
- [SAPUI5 Tutorial with WebIDE. Part III. Drop Down in SAPUI5 Applications \(2 Methods\)](#)
- [SAPUI5 Tutorial. Part IV with WebIDE. Routers and Routing in SAPUI5](#)
- [SAPUI5 Tutorial with WebIDE. Part V. Navigation in SAPUI5 without Routers](#)
- [SAPUI5 Tutorial with WebIDE. Part VI. Using Fragments in SAPUI5 Fiori Applications](#)
- [SAPUI5 Tutorial with WebIDE. Part VII. An ABAPer's First SAPUI5 App in SAP WebIDE](#)
- [SAPUI5 Tutorial with WebIDE. Part VIII. Deploy my First SAPUI5 App in WebIDE](#)
- [SAPUI5 Tutorial with WebIDE. Part IX. Alternative to oModel.setSizeLimit\(\)](#)
- [SAPUI5 Tutorial with WebIDE. Part X. Using Media Queries in UI5 Application](#)
- [SAPUI5 Tutorial with WebIDE. Part XI. An ABAPer's Second SAPUI5 App](#)
- [SAPUI5 Tutorial with WebIDE. Part XII. SAPUI5 Basic Debugging for Beginners](#)
- [Routing and Navigation in SAP UI5 – Theoretical Explanation Part 1](#)
- [Routing and Navigation in SAP UI5 – Theoretical Explanation Part 2](#)
- [Add Delete & Save Multiple Records in SAPUI5. Part 1 – ADD](#)
- [Add Delete & Save Multiple Records in SAPUI5. Part 2 – DELETE](#)
- [Add Delete & Save Multiple Records in SAPUI5. Part 3 – SAVE](#)
- [Modularization and Large Scale Architecture in SAPUI5](#)
- [Use of Third Party \(or\) External Resources in SAPUI5. Part I – Overview](#)
- [Use of Third Party \(or\) External Resources in SAPUI5. Part II – Practical with Gauges](#)
- [How to Deploy UI5 App without LPD_CUST?](#)
- [SAPUI5 For ABAPers – Component Reuse with Real Time Example](#)
- [SAPUI5 for ABAPers – Consuming OData Service from SAPUI5 Application – CRUD Operations](#)
- [Advance SAPUI5 – 1- Trick to Send QR code or Barcode Data Remotely from Android to PC for SAPUI5 App](#)
- [Advance SAPUI5 – 2- Push Notification in SAP – ABAP Push Channel, ABAP Messaging Channel in SAPUI5 – a Real Time Interaction](#)

- Advance SAPUI5 – 3 – How to send e-mail in SAPUI5 Hybrid App?
- Advance SAPUI5 – 4 – How to Get Weight from the Weigh Scale/Weigh Bridge Bluetooth Device using SAPUI5 Hybrid App?
- SAPUI5 – How to Change the Master List Item Selection Based on Changes in Hash Tag URL?
- SAPUI5 – How to Load a Full Screen and Navigate to Master-Detail Application? Approach 1

Also, Check Step by Step Tutorials on SAP Fiori

- SAP Fiori from Space Level
- Fiori App – An Introduction from an ABAPer
- SAP Fiori Tutorial. Part I. System Check, Installation and Configuration
- SAP Fiori Tutorial. Part II. End to End Implementation of Fiori App
- SAP Fiori Tutorial. Part III. Flow Chart to Enhance Standard SAP Fiori App
- SAP Fiori Tutorial. Part IV. How to change non-English Default Language in Fiori Launch Pad?
- SAP Fiori Tutorial. Part V. End to End Implementation of My Inbox – Purchase Order Approval App
- Display & Download PNG JPG PDF Document in Fiori Client Android with 3rd Party App for Zoom/additional options
- Configuring SAP GUI Transaction in Fiori Launchpad
- SAP Fiori Tutorial. Part VI. How to Troubleshoot SAP Fiori Errors?
- CDS Part 11. How to Consume CDS View in Smart Business Service KPI Fiori Apps?
- SAP Fiori Tutorial. Part 7 – Custom Fiori App to Approve Change Requests in SOLMAN
- SAP Fiori Tutorial. Part 8 – How to Extend Standard Fiori App – both UI & OData?
- SAP Fiori. Part 9 – Fiori Launch Pad (FLP) Basics
- SAP Fiori. Part 10 – Fiori Launch Pad – Trouble Shooting Tips – Part 1
- SAP Fiori. Part 11 – Fiori Launch Pad – Trouble Shooting Tips – Part 2
- 130 SAPUI5, SAP Fiori, HTML, CSS, JavaScript & jQuery, Interview Questions & Answers
- SAP Fiori. Part 12 – Fiori Launchpad – Applications and Maintenance
- Step by Step Guide to Install SAP Web IDE Personal Edition
- ABAP Programming Model for SAP Fiori – 1 – Overview
- ABAP Programming Model for SAP Fiori – 2 – CDS – Introduction

- ABAP Programming Model for SAP Fiori – 4 – OData Service Creation
- ABAP Programming Model for SAP Fiori – 5 – OData Service Generation
- ABAP Programming Model for SAP Fiori – 3 – CDS Views Creation
- ABAP Programming Model for SAP Fiori – 6 – Generating Read-Only Application in Fiori using Fiori Elements
- ABAP Programming Model for SAP Fiori – 7 – BOPF – Introduction
- ABAP Programming Model for SAP Fiori – 8 – Developing Transactional Application – CRUD Operations using BOPF
- ABAP Programming Model for SAP Fiori – 9 – Use of Determinations in BOPF
- ABAP Programming Model for SAP Fiori – 10 – Use of Actions in BOPF
- ABAP Programming Model for SAP Fiori – 11 – Enabling Draft Functionality for Transactional Apps

We have a very active Telegram SAP Technical Group. Please join it using below link.

Telegram SAP Technical Discuss Group.

WhatsApp had the limitation of 256 members per group and we were finding a hard time syncing and maintaining information in multiple WhatsApp group. Therefore we have moved to Telegram as it can accommodate more than 10,000 users. Please join.

SAPYard is one stop page for all Technical Folks in SAP. You would find un-conventional explanations, tutorials, tricks and end to end Free SAP Video Courses and Training. Please like our [Facebook Page](#), follow us at [Twitter](#), [Instagram](#) and also join our [LinkedIn Group](#). Please Subscribe to our [Youtube Channel](#) for Free SAP Video Trainings.