

CGE371

How to efficiently develop SAP Fiori Apps with SAP Fiori Elements

Create your first SAP Fiori Overview Page

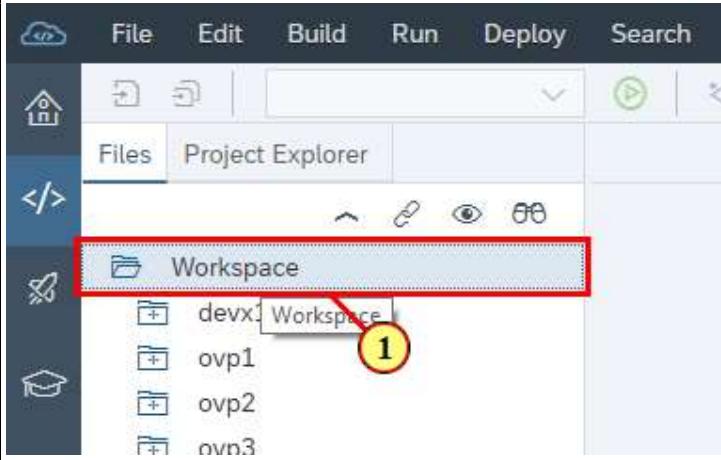
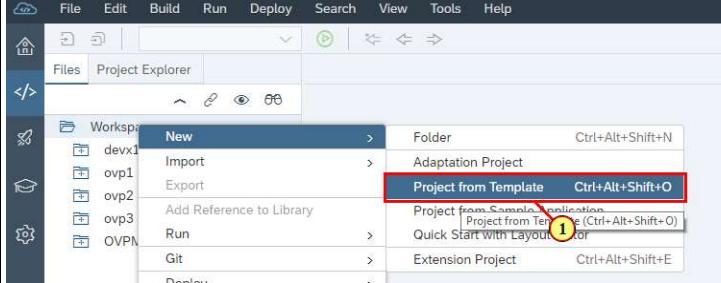
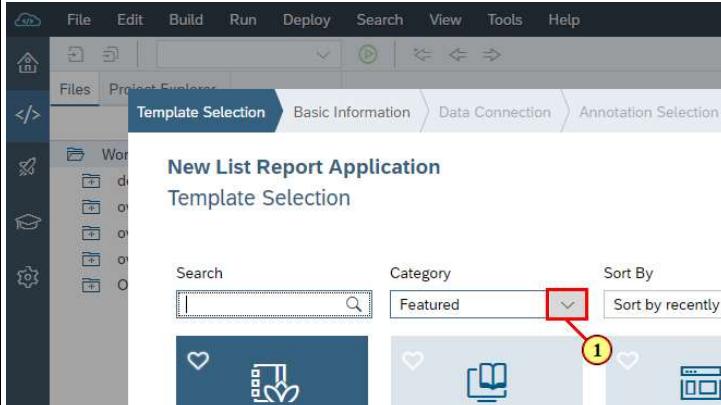
Table of Contents

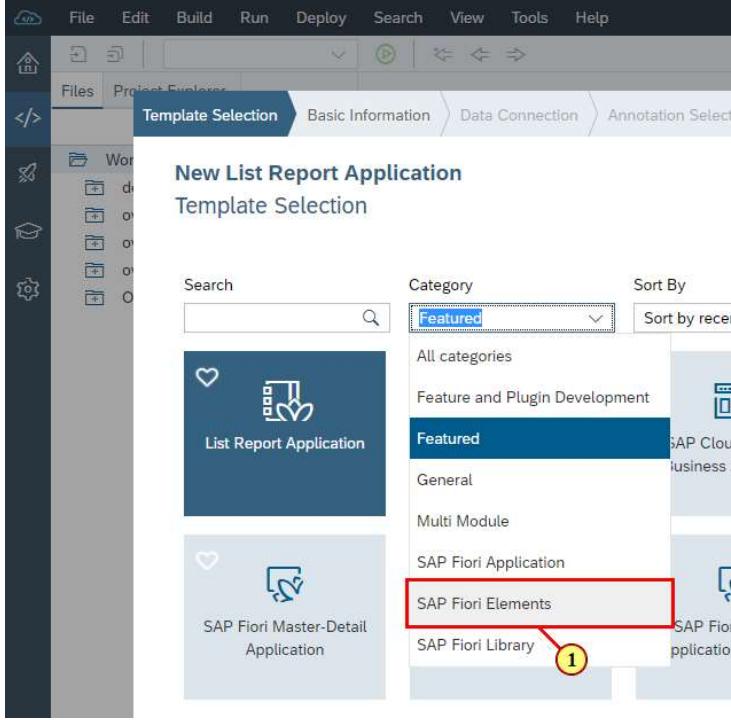
1. <i>Project Setup</i>	3
2. <i>Create Filterbar</i>	26
3. <i>Create a List Card</i>	53
4. <i>Create a Table Card</i>	81
5. <i>Bar List Card</i>	128
6. <i>Create a custom card</i>	170
7. <i>Create an Analytical Card</i>	177

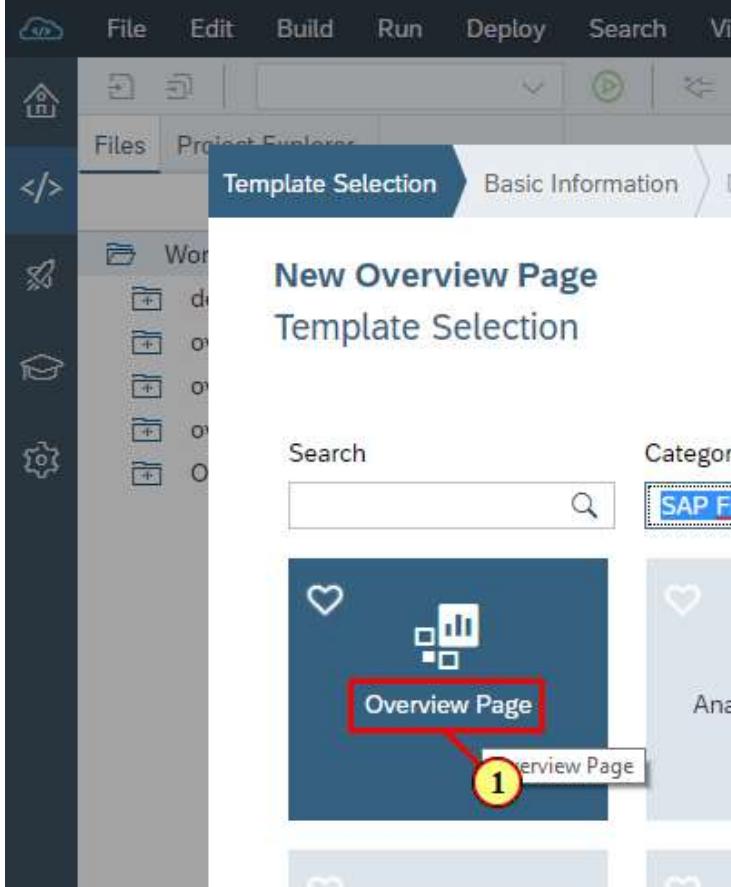
1. Project Setup

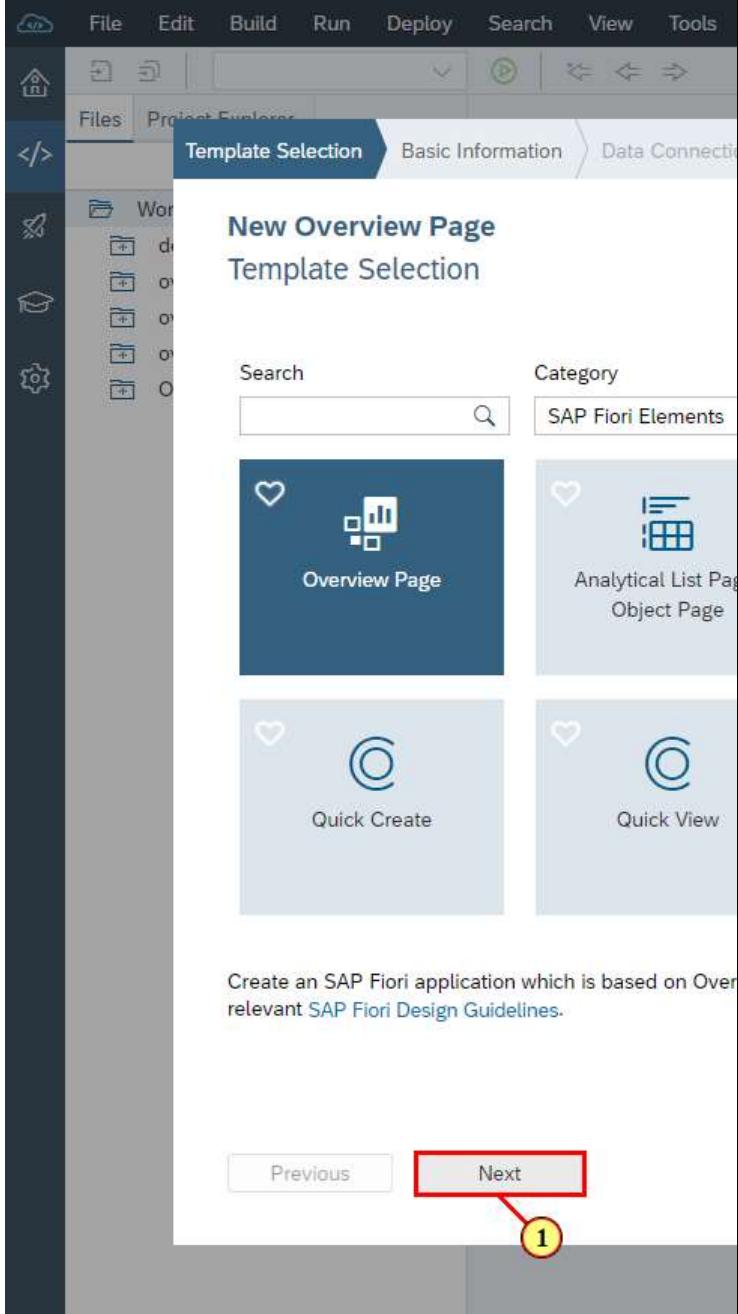
In this chapter, you learn how to create the initial project in SAP Web IDE. In addition, you will create an annotation file which will contain the annotations and also import the mock data which are needed for the Overview Page application.

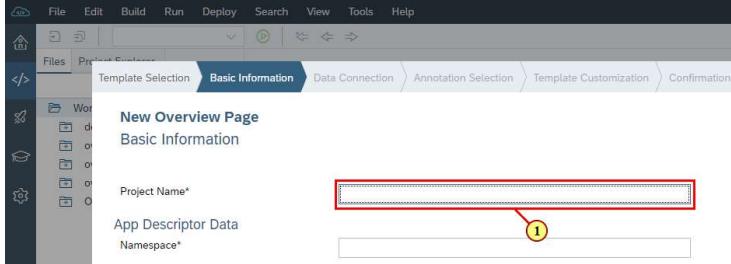
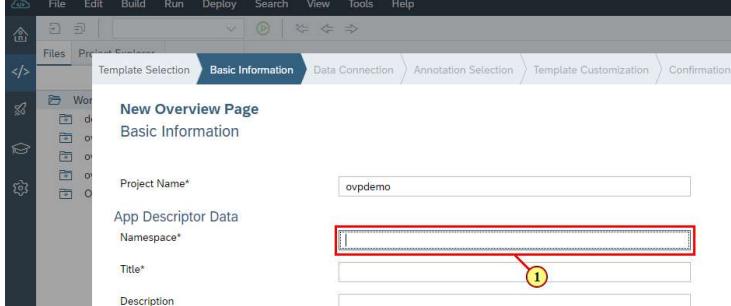
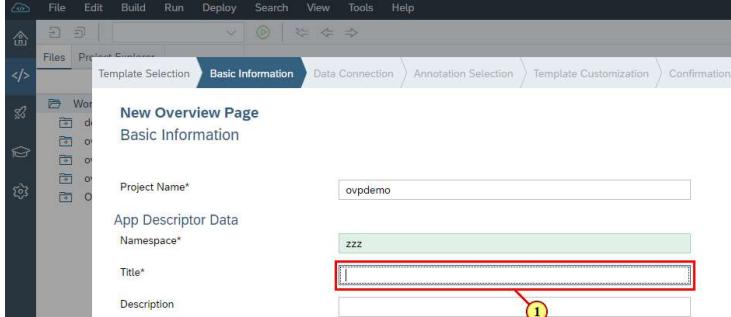
Open the SAP WebIDE to create and OVP Application: <https://webidecp-a57ygsm23j.dispatcher.hana.ondemand.com/>.

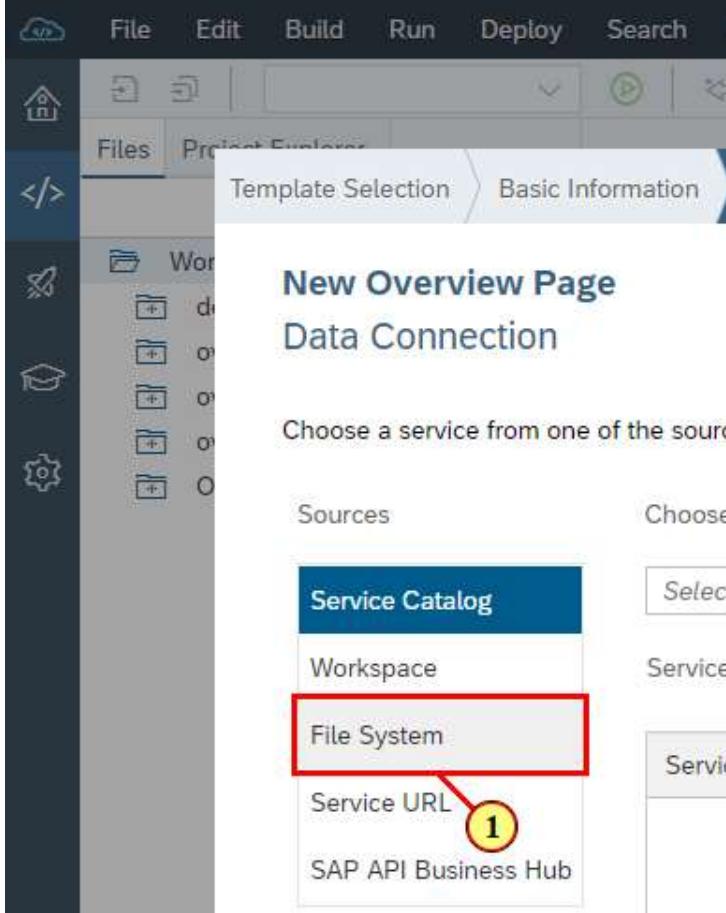
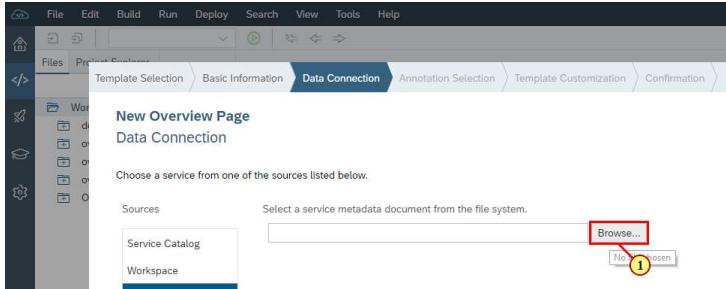
Steps/Instructions	Screenshot
(1) Right-Click on Workspace with the mouse opens a shortcut menu.	
(1) Select New > Project from Template Ctrl+Alt+Shift+O	
(1) Select Category ▾	

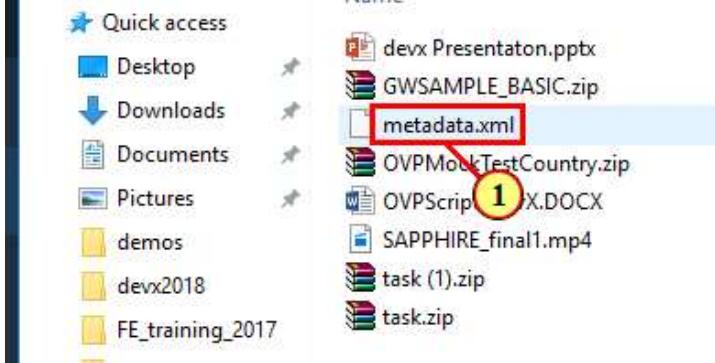
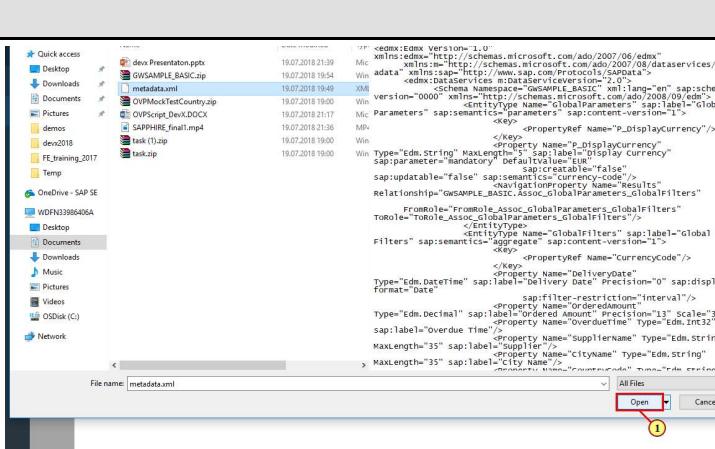
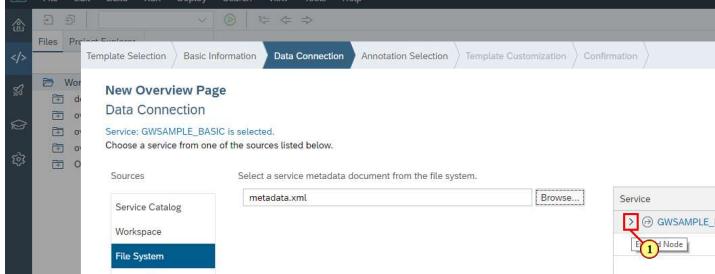
Steps/Instructions	Screenshot
(1) Select SAP Fiori Elements	 <p>The screenshot shows the SAP Fiori Elements interface for template selection. The top navigation bar includes File, Edit, Build, Run, Deploy, Search, View, Tools, and Help. Below the navigation is a breadcrumb trail: Files > Project Explorer > Template Selection > Basic Information > Data Connection > Annotation Selection. The main title is "New List Report Application" under "Template Selection". On the left is a sidebar with icons for Home, Work, Data, Objects, and Other. The central area has a search bar and a "Category" dropdown set to "Featured". A "Sort By" button is also present. Below these are two application cards: "List Report Application" and "SAP Fiori Master-Detail Application". To the right is a list of categories: All categories, Feature and Plugin Development, General, Multi Module, SAP Fiori Application, SAP Fiori Elements, SAP Fiori Library, and SAP Fiori application. The "SAP Fiori Elements" category is highlighted with a red box and a yellow circle containing the number "1", indicating it is the selected template.</p>

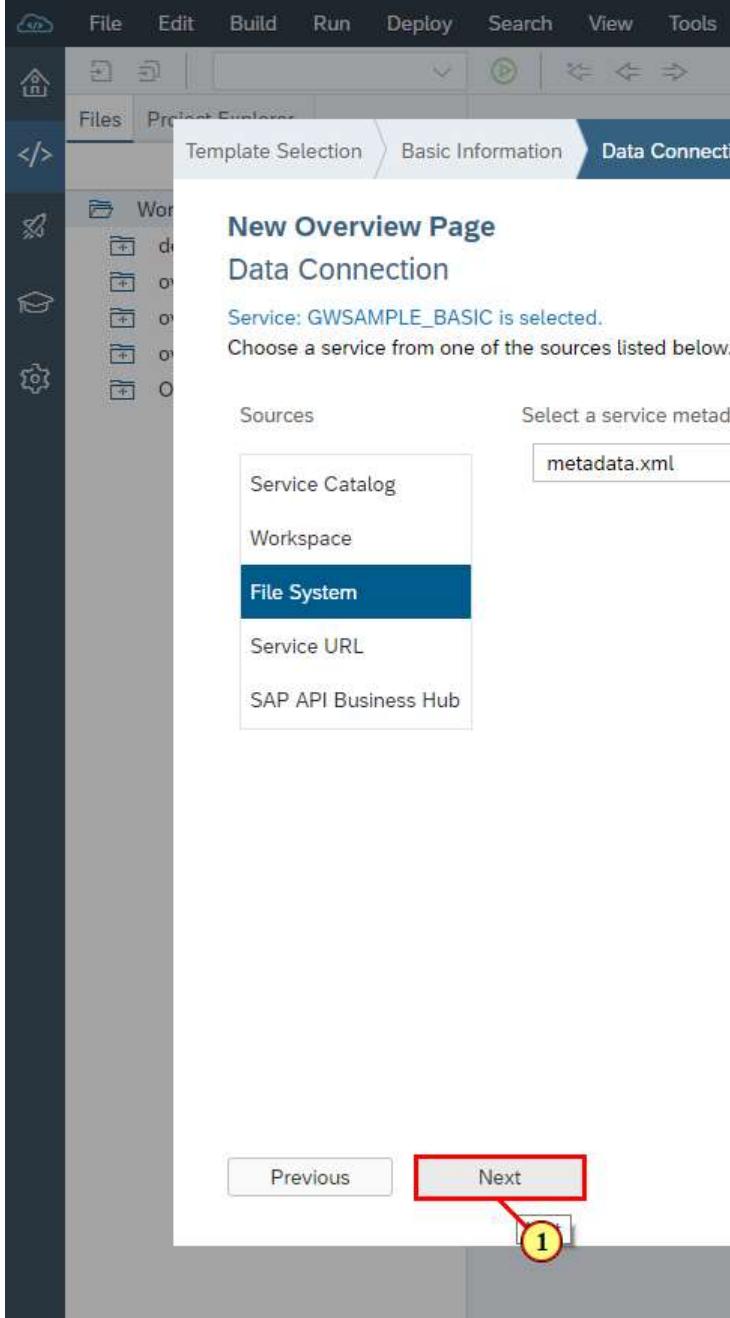
Steps/Instructions	Screenshot
(1) Select Overview Page	 <p>The screenshot shows the SAP Fiori Elementsession interface. The top navigation bar includes File, Edit, Build, Run, Deploy, Search, View, and a cloud icon. Below the navigation is a toolbar with icons for home, refresh, search, and deployment. The main area is titled "Template Selection" under "Basic Information". A sub-section titled "New Overview Page" displays a list of templates. One template, "Overview Page", is highlighted with a red box and a yellow circle containing the number 1, indicating it is the selected item. Other templates like "List Page" and "Card Page" are also visible. A search bar and a category filter for "SAP Fiori" are present on the right.</p>

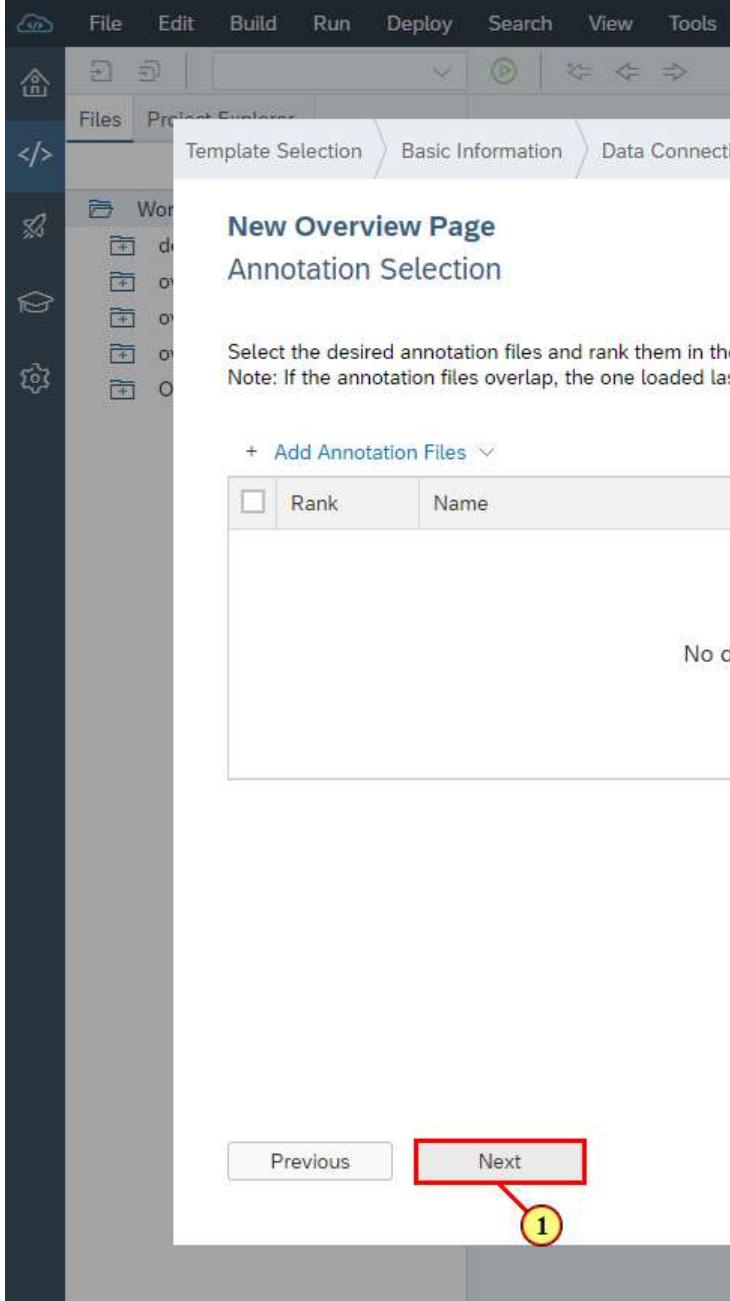
Steps/Instructions	Screenshot
(1) Click Next	 <p>The screenshot shows the SAP Fiori Elements interface with the 'Template Selection' tab active. A search bar and category filter ('SAP Fiori Elements') are present. Four template cards are displayed: 'Overview Page' (selected), 'Analytical List Page Object Page', 'Quick Create', and 'Quick View'. A note at the bottom encourages creating an SAP Fiori application based on design guidelines. Navigation buttons 'Previous' and 'Next' are at the bottom, with 'Next' highlighted by a red box and circled with a yellow number '1'.</p>

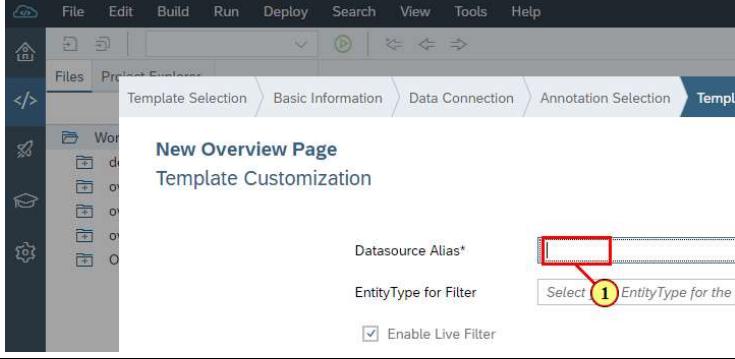
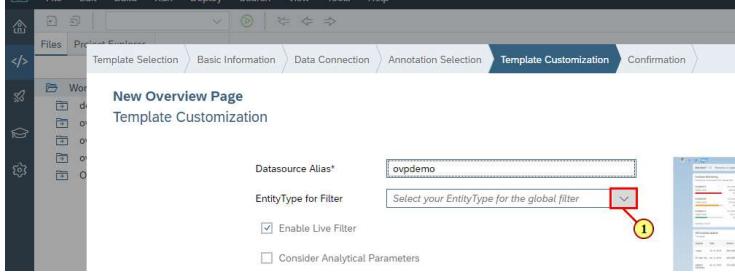
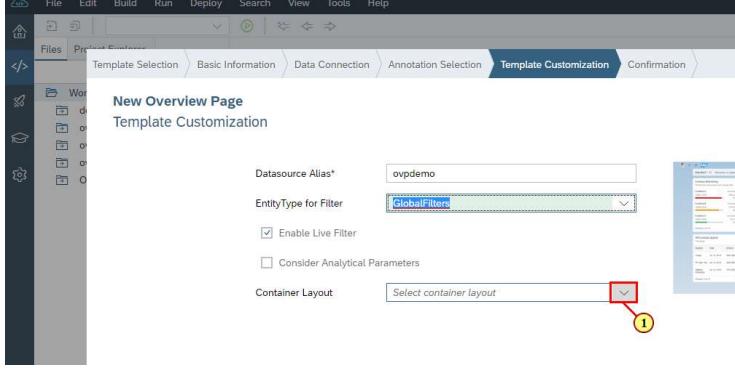
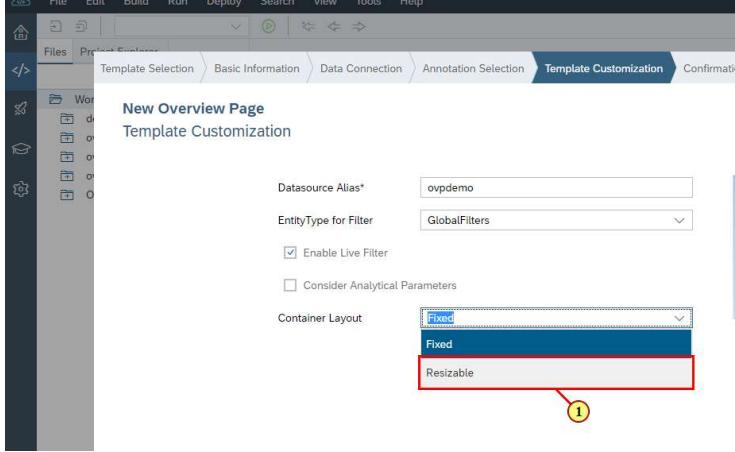
Steps/Instructions	Screenshot
(1) Enter a project name, e.g. "ovpdemo".	
(1) Enter your application namespace, e.g. "zzz".	
(1) Enter your application title, e.g. "Sales Overview". Click Next.	

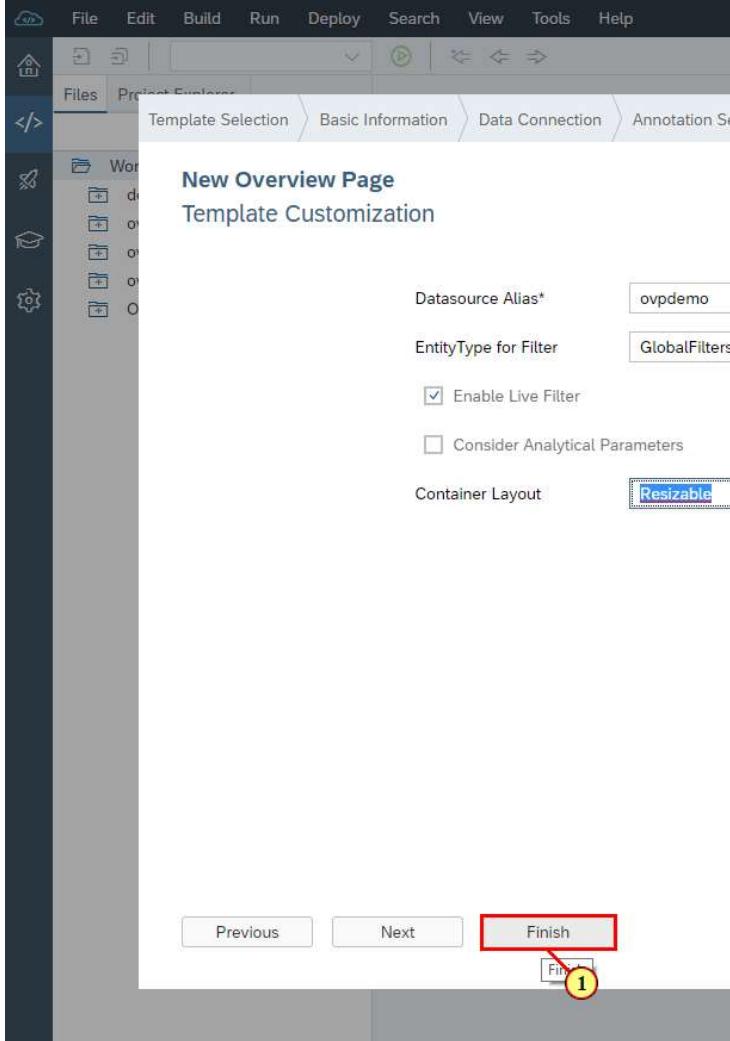
Steps/Instructions	Screenshot
(1) We will use a local service metadata document. Select File System	 <p>New Overview Page Data Connection</p> <p>Choose a service from one of the sources listed below.</p> <p>Sources</p> <ul style="list-style-type: none"> Service Catalog Workspace File System Service URL SAP API Business Hub <p>Select</p>
(1) Select Browse...	 <p>New Overview Page Data Connection</p> <p>Choose a service from one of the sources listed below.</p> <p>Sources</p> <ul style="list-style-type: none"> Service Catalog Workspace File System <p>Select a service metadata document from the file system.</p> <p>Browse...</p> <p>No file chosen</p>

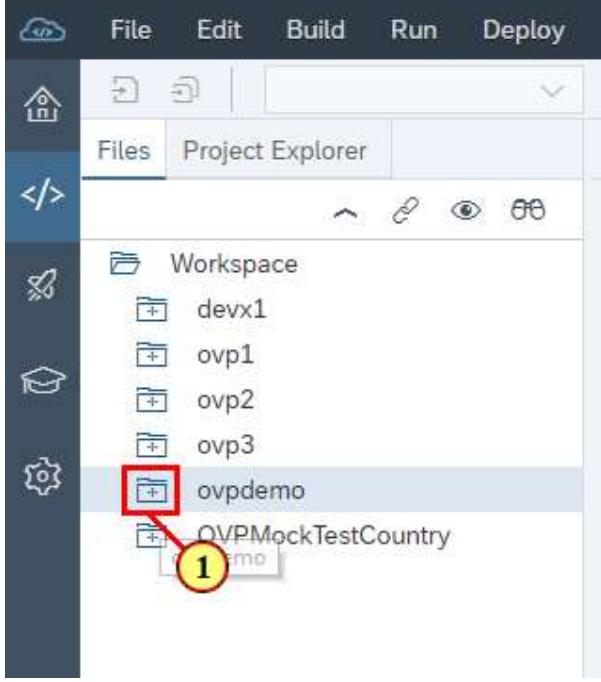
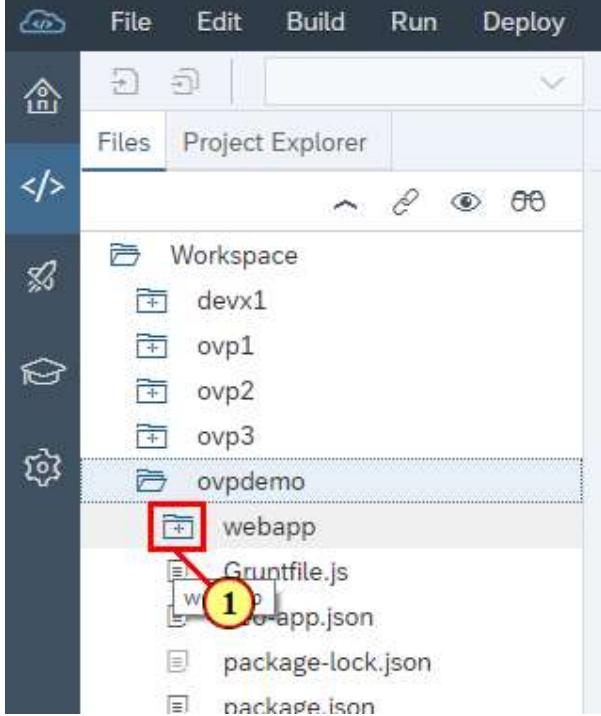
Steps/Instructions	Screenshot
(1) Select the locally stored <code>metadata.xml</code> from the file system.	
<p>Open</p> <p>(1) Click Open</p>	
<p>(1) Select  to explore the OData entities defined in the imported metadata document.</p>	

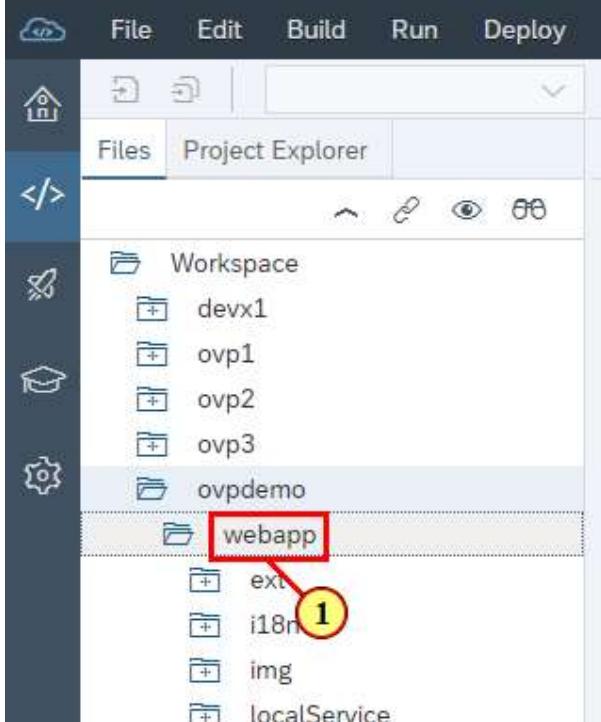
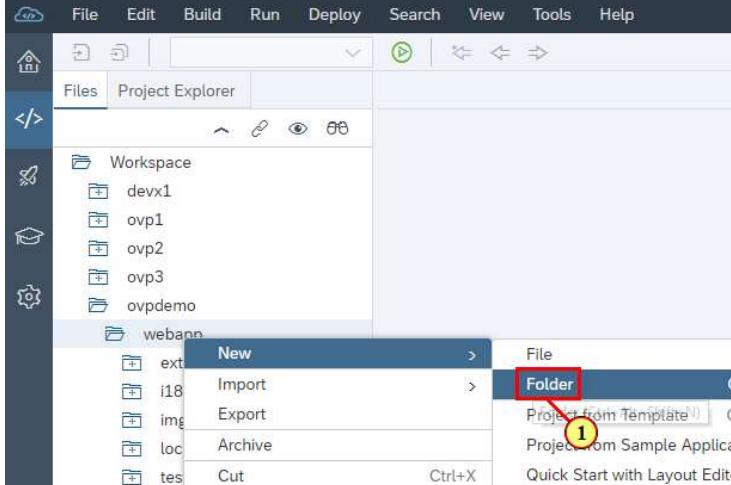
Steps/Instructions	Screenshot
(1) Click Next .	 <p>The screenshot shows the SAP Fiori Elementsession interface. The top navigation bar includes File, Edit, Build, Run, Deploy, Search, View, and Tools. Below the navigation is a toolbar with icons for home, files, project explorer, and search. The main area has tabs for Template Selection, Basic Information, and Data Connection, with Data Connection currently active. A title 'New Overview Page' is displayed. Under 'Data Connection', it says 'Service: GWSAMPLE_BASIC is selected.' and 'Choose a service from one of the sources listed below.' A 'Sources' section lists Service Catalog, Workspace, File System (which is highlighted in blue), Service URL, and SAP API Business Hub. To the right, a 'Select a service metadata' field contains 'metadata.xml'. At the bottom, there are 'Previous' and 'Next' buttons, with 'Next' being highlighted by a red box and a yellow circle containing the number '1'.</p>

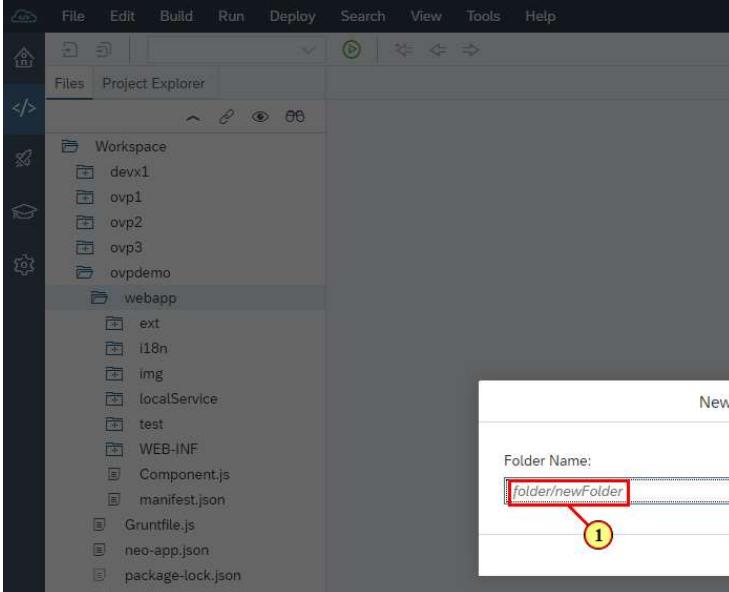
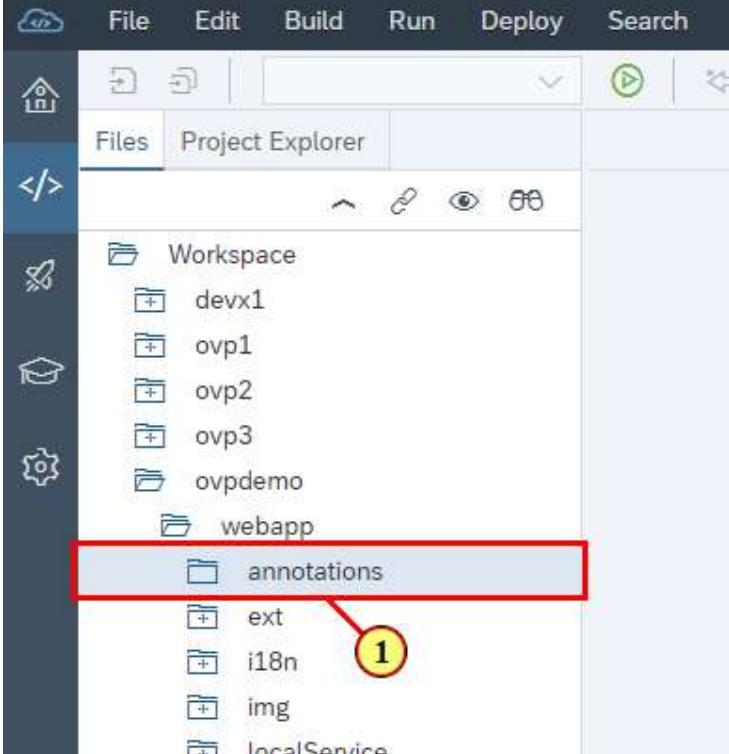
Steps/Instructions	Screenshot
(1) We will create a local annotation file later. Click Next	 <p>The screenshot shows the SAP Fiori Elementsession interface. The top navigation bar includes File, Edit, Build, Run, Deploy, Search, View, and Tools. Below the navigation is a toolbar with icons for home, files, project, and search. The main area is titled "Template Selection" and shows "Basic Information" and "Data Connection" tabs. A sub-section titled "New Overview Page" and "Annotation Selection" is displayed. It instructs the user to "Select the desired annotation files and rank them in the table below." A note states: "Note: If the annotation files overlap, the one loaded last will be used." Below this is a table with columns "Rank" and "Name". A button "+ Add Annotation Files" is available. At the bottom, there are "Previous" and "Next" buttons, with "Next" being highlighted by a red box and a yellow circle containing the number 1.</p>

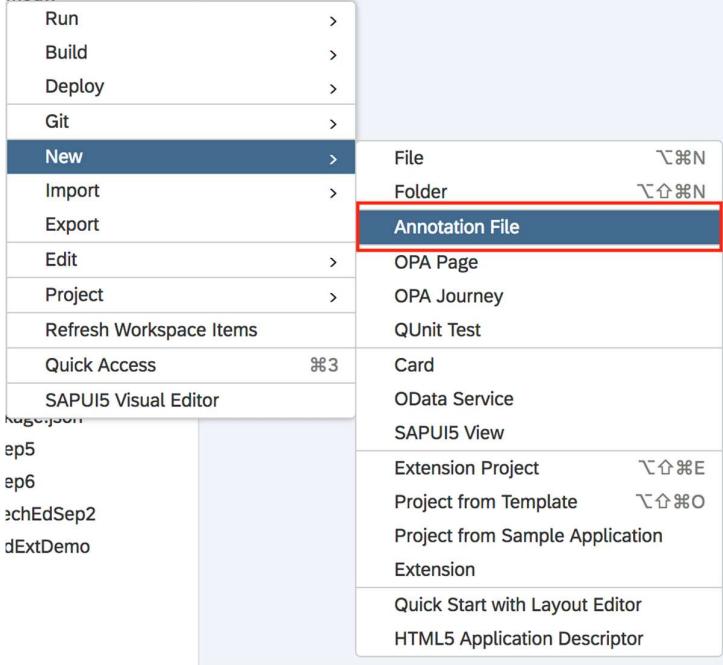
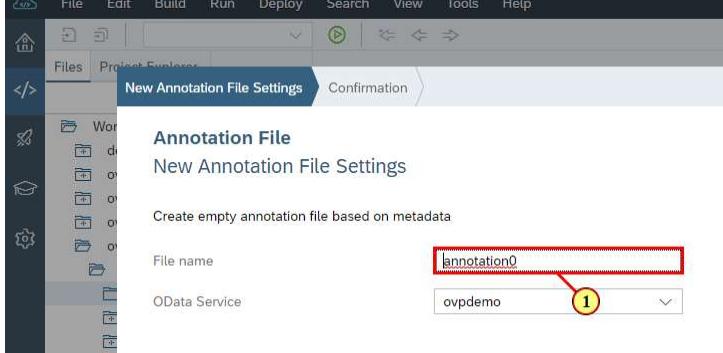
Steps/Instructions	Screenshot
(1) Enter the datasource name to be used by your application, e.g. "ovpdemo".	
(1) Select  to choose the GlobalFilters entity for the filterbar of your page	
(1) We will use a Resizable page layout (to allow users to resize the cards as per their need). Select  .	
(1) Select Resizable	

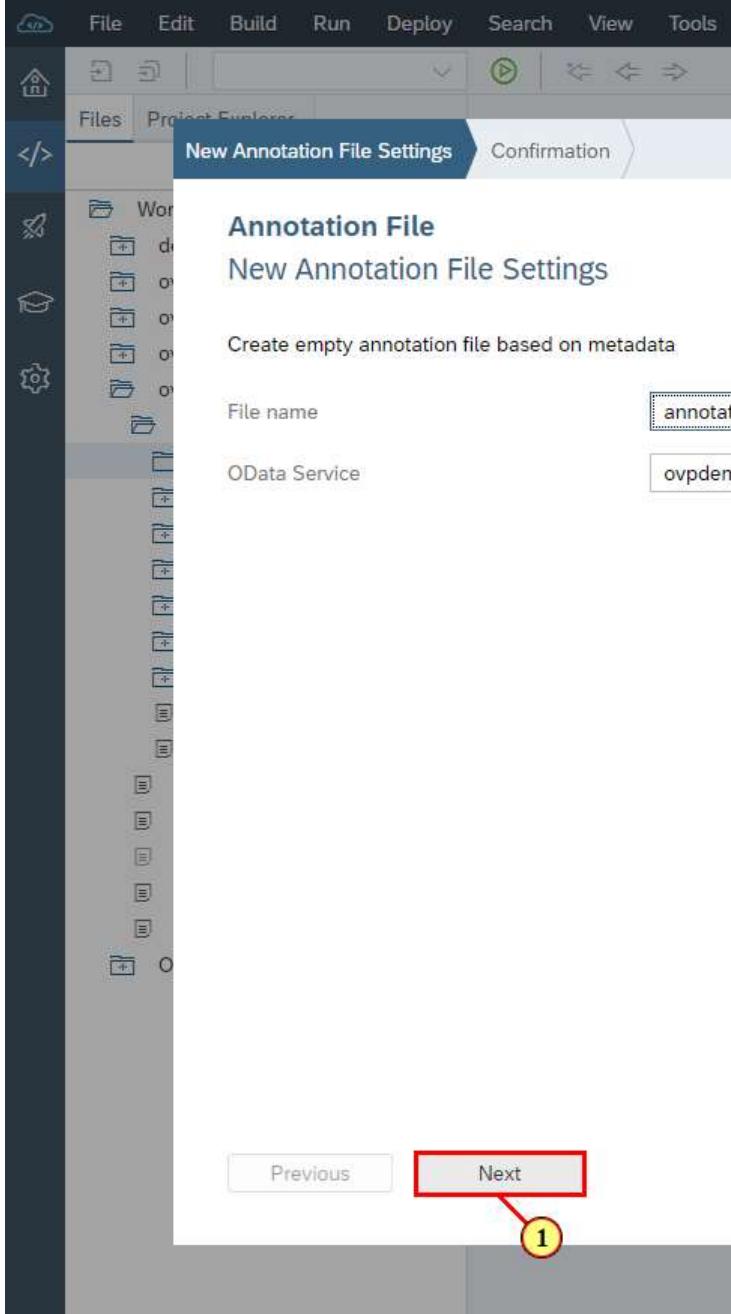
Steps/Instructions	Screenshot
(1) Click Finish .	 <p>New Overview Page Template Customization</p> <p>Datasource Alias* <input type="text" value="ovpdemo"/></p> <p>EntityType for Filter <input type="text" value="GlobalFilters"/></p> <p><input checked="" type="checkbox"/> Enable Live Filter</p> <p><input type="checkbox"/> Consider Analytical Parameters</p> <p>Container Layout <input type="button" value="Resizable"/></p> <p>Previous Next Finish</p> <p>1</p>

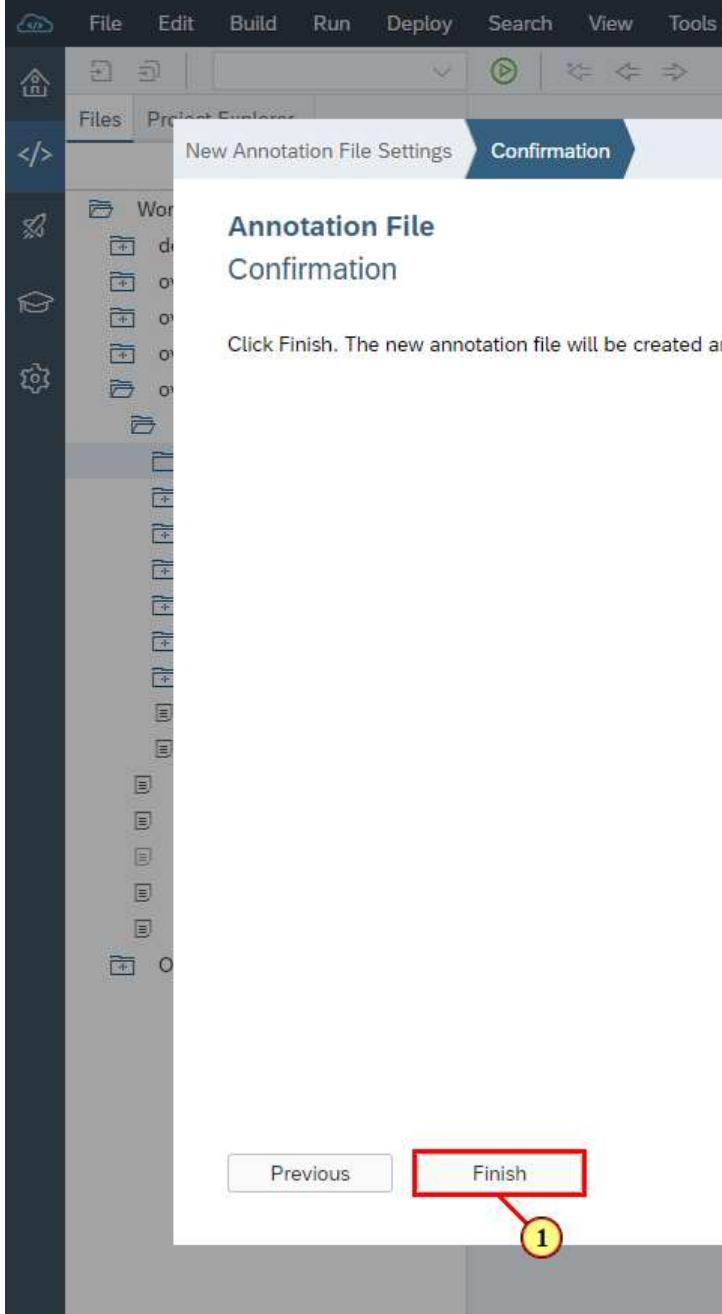
Steps/Instructions	Screenshot
(1) A project has been generated. Expand its structure by Clicking  .	
(1) Open the <i>webapp</i> folder where the local metadata and mock data is stored. Click  .	

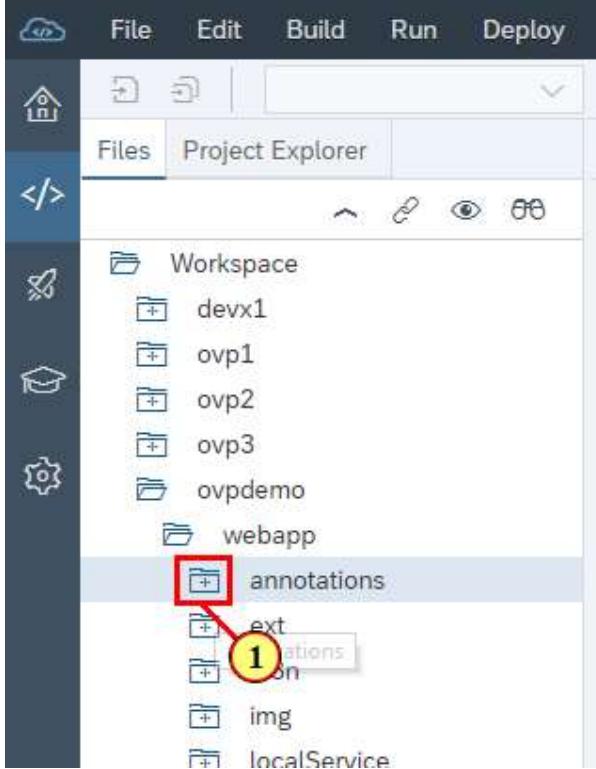
Steps/Instructions	Screenshot
(1) Let's create the folder for the local annotations. Right-Click on webapp with the mouse opens a shortcut menu.	 A screenshot of the SAP Fiori Elements Project Explorer. The 'Project Explorer' tab is selected. In the tree view, under 'Workspace', there are several folders: 'devx1', 'ovp1', 'ovp2', 'ovp3', 'ovpdemo', and 'webapp'. The 'webapp' folder is highlighted with a red box and has a yellow circle with the number '1' pointing to it, indicating it is the target for a right-click operation.
(1) Select New > Folder	 A screenshot of the SAP Fiori Elements Project Explorer with a context menu open over the 'webapp' folder. The menu is titled 'New' and includes options: 'Import', 'Export', 'Archive', 'Cut', and 'Folder'. The 'Folder' option is highlighted with a red box and has a yellow circle with the number '1' pointing to it, indicating it is the selected action.

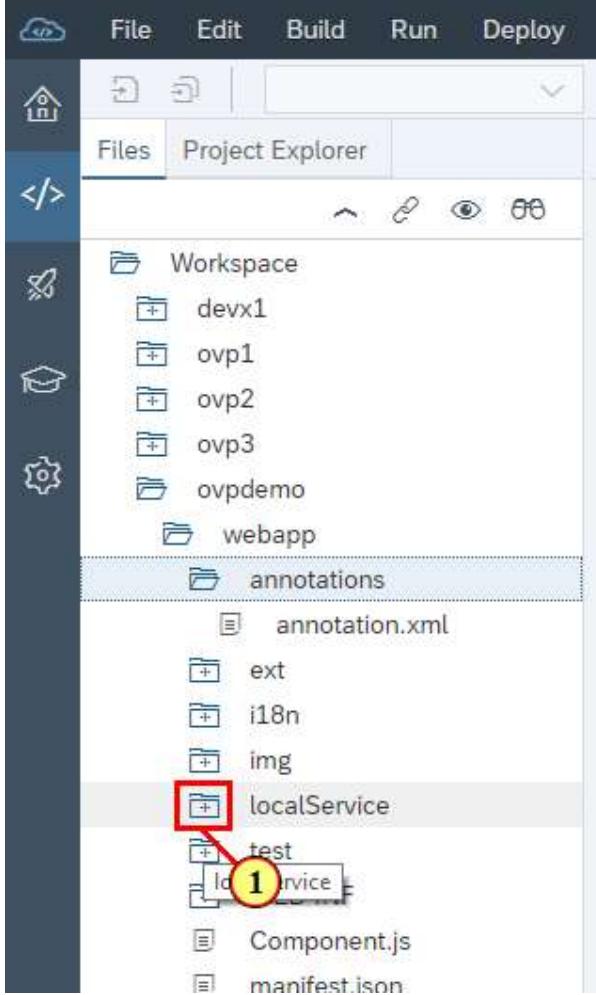
Steps/Instructions	Screenshot
(1) Enter “annotations” as folder name and click OK	 A screenshot of the SAP Fiori Elements Project Explorer. A context menu is open over a folder named 'annotations'. The menu has a 'New' option at the top, followed by a 'Folder Name:' input field containing 'Folder/newFolder'. A yellow circle with the number '1' is pointing to the 'Folder Name:' input field.
(1) Right-Click on annotations with the mouse opens a shortcut menu.	 A screenshot of the SAP Fiori Elements Project Explorer. A folder named 'annotations' is highlighted with a red box. A yellow circle with the number '1' is pointing to the 'annotations' folder.

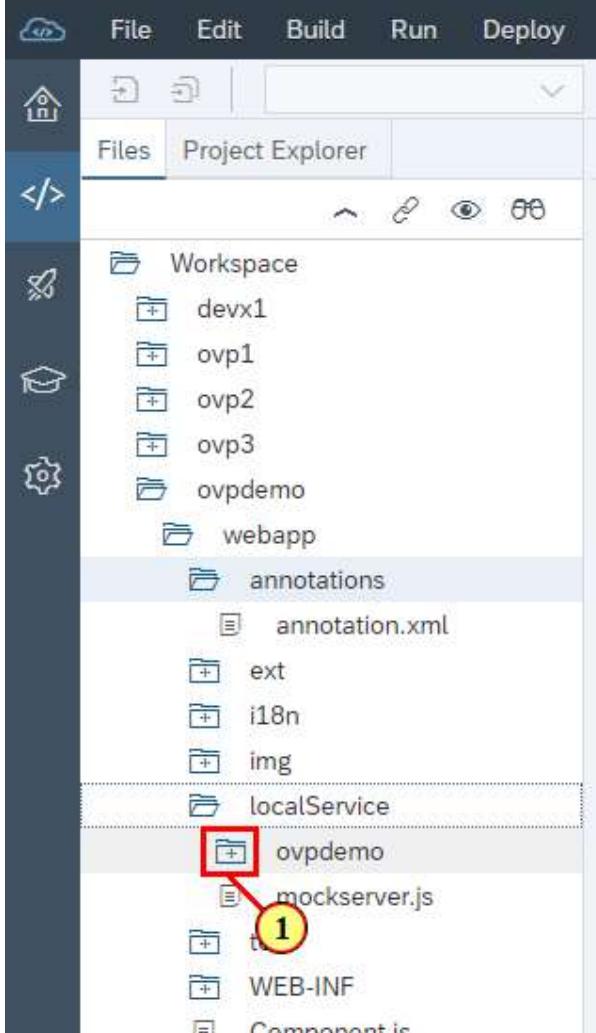
Steps/Instructions	Screenshot
(1) Select New > Annotation File	 <p>The screenshot shows a context menu with the following options:</p> <ul style="list-style-type: none"> Run Build Deploy Git New > Annotation File (highlighted with a red box) Import Export Edit Project Refresh Workspace Items Quick Access SAPUI5 Visual Editor ep5 ep6 echEdSep2 dExtDemo
(1) Give your document a filename, for example "annotations".	 <p>The screenshot shows the 'New Annotation File Settings' dialog with the following fields:</p> <ul style="list-style-type: none"> Annotation File New Annotation File Settings Create empty annotation file based on metadata File name: annotation0 OData Service: ovpdemo (with a yellow circle '1' pointing to the dropdown arrow)

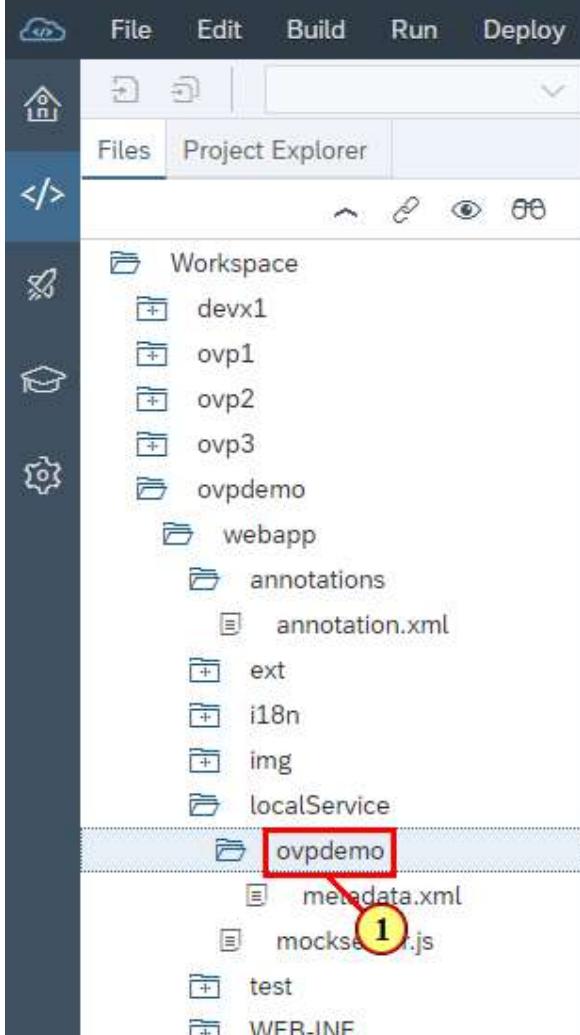
Steps/Instructions	Screenshot
(1) Click Next .	 <p>The screenshot shows the SAP Fiori Elementsession interface. The top menu bar includes File, Edit, Build, Run, Deploy, Search, View, and Tools. Below the menu is a toolbar with icons for home, files, project explorer, and search. The main area is titled "Annotation File" and "New Annotation File Settings". It displays instructions to "Create empty annotation file based on metadata". Two input fields are present: "File name" with the value "annotation" and "OData Service" with the value "ovpdem". At the bottom, there are "Previous" and "Next" buttons, with "Next" being highlighted by a red box and circled with a yellow circle containing the number "1".</p>

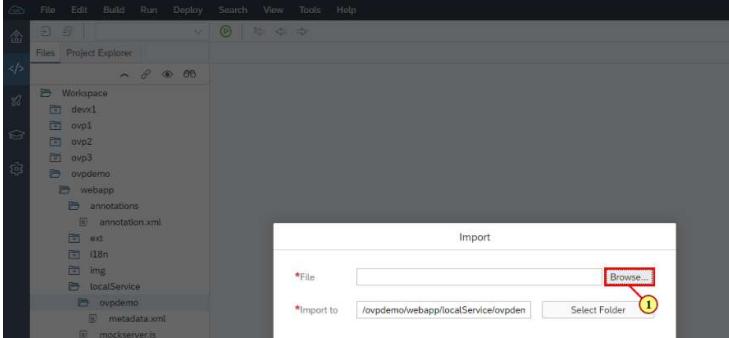
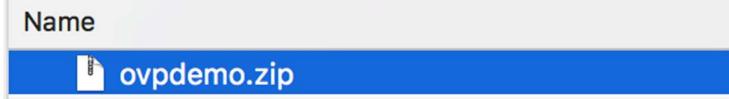
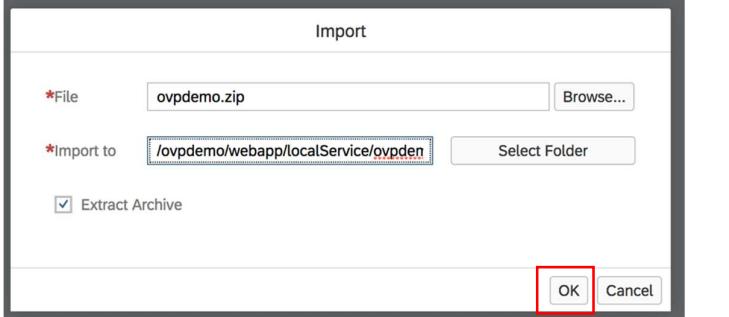
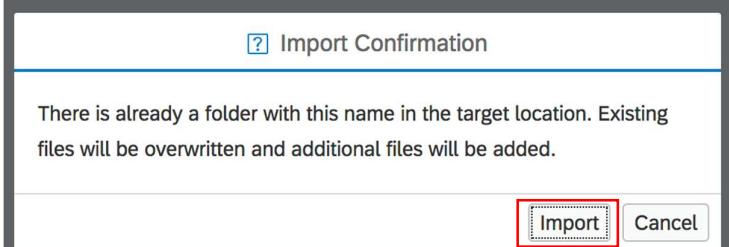
Steps/Instructions	Screenshot
(1) Click Finish	 <p>The screenshot shows the SAP Fiori Elementsession interface. The top navigation bar includes File, Edit, Build, Run, Deploy, Search, View, and Tools. Below the navigation is a toolbar with icons for home, files, project explorer, and search. A breadcrumb trail shows 'New Annotation File Settings' and 'Confirmation'. The main content area is titled 'Annotation File Confirmation' with the sub-instruction 'Click Finish. The new annotation file will be created and...'.</p> <p>(1) Click Finish</p>

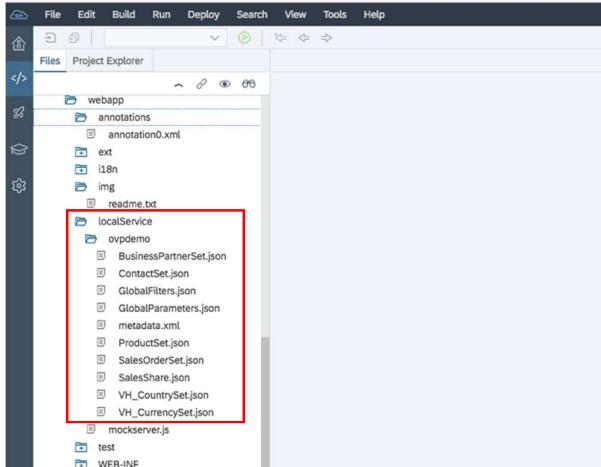
Steps/Instructions	Screenshot
<p>(1) Verify if the file is successfully created under the annotations folder. Click .</p>	 <p>The screenshot shows the SAP Fiori Elementsession interface with the Project Explorer tab selected. The sidebar contains icons for Home, Annotations, Webapp, and Settings. The main area displays a project structure under 'webapp'. A folder named 'annotations' is highlighted with a red box and a yellow circle containing the number '1' over its icon.</p> <ul style="list-style-type: none">AnnotationsextlocalServiceimg

Steps/Instructions	Screenshot
<p>(1) You will import now the pre-generated application mock data. In a production scenario, the application displays data by calling an OData service, but in this exercise, we use local data. Go inside the <i>localService</i> folder.</p> <p>Select .</p>	 <p>The screenshot shows the SAP Fiori Elements Project Explorer interface. The sidebar contains icons for Home, Recent, and Settings. The main area shows a tree view of the project structure under 'Files'. A folder named 'localService' is highlighted with a red box and a yellow circle containing the number '1'. Other visible folders include 'devx1', 'ovp1', 'ovp2', 'ovp3', 'ovpdemo', 'webapp', 'annotations', 'annotation.xml', 'ext', 'i18n', 'img', 'Component.js', and 'manifest.json'.</p>

Steps/Instructions	Screenshot
(1) Go inside the <i>ovpdemo</i> (named after the datasource name we specified previously). Select  .	 <p>The screenshot shows the SAP Fiori Elements Project Explorer. The left sidebar has icons for Home, Recent, Annotations, and Settings. The main area shows a tree view of a project structure:</p> <ul style="list-style-type: none">Workspace<ul style="list-style-type: none">devx1ovp1ovp2ovp3ovpdemo<ul style="list-style-type: none">webapp<ul style="list-style-type: none">annotations<ul style="list-style-type: none">annotation.xmlexti18nimglocalService<ul style="list-style-type: none">ovpdemo<ul style="list-style-type: none">+ (highlighted with a red box)mockserver.js (highlighted with a yellow circle and number 1)tWEB-INFComponent.js

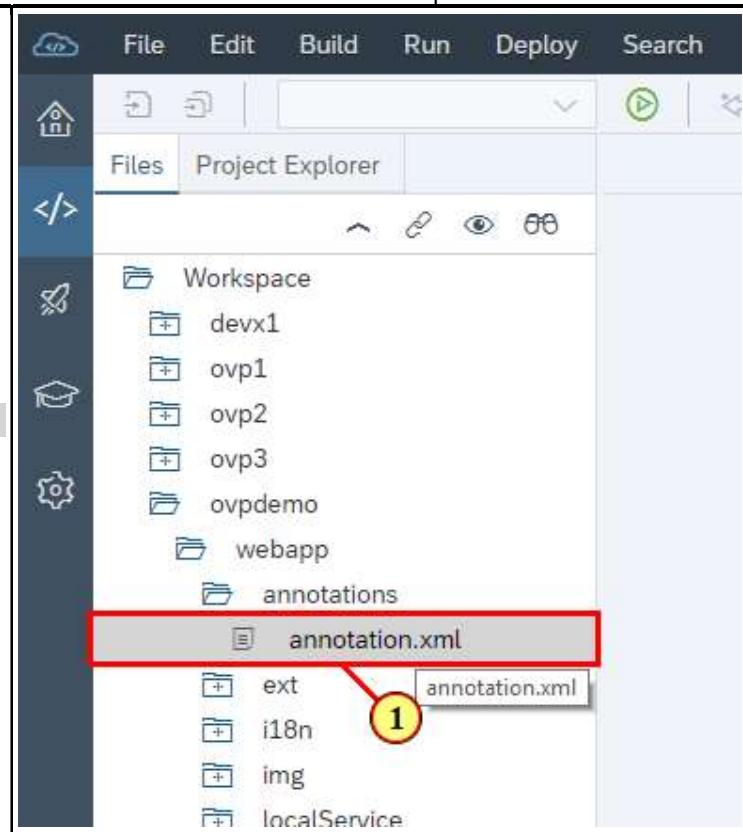
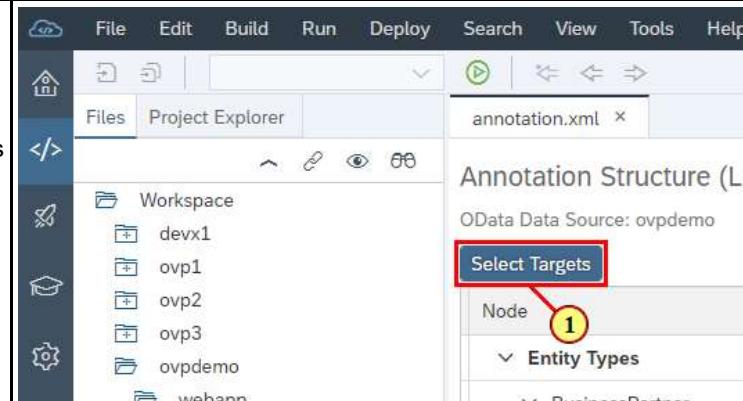
Steps/Instructions	Screenshot
<p>(1) We will import in here the pregenerated mock data. Right-click on ovpdemo with the mouse opens a shortcut menu.</p>	 <p>The screenshot shows the SAP Fiori Elements Project Explorer. A folder named 'ovpdemo' is highlighted with a red box and has a yellow circle with the number '1' pointing to its context menu. The context menu is open, showing options like Run, Git, New, Import, Export, Archive, and Edit. The 'Import' option is selected, and a submenu titled 'File or Project' is displayed, listing 'Annotation File' and 'Application from SAPUI5 ABAP Repository'.</p>
<p>(1) Select Import > File or Project</p>	

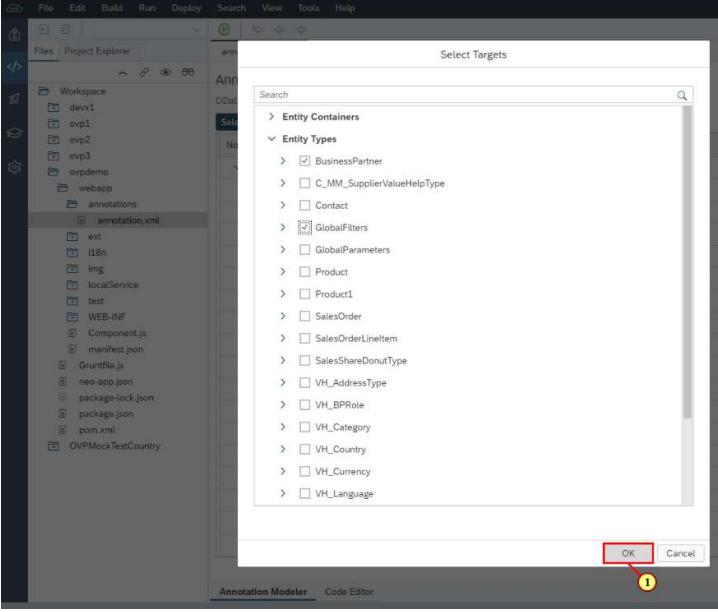
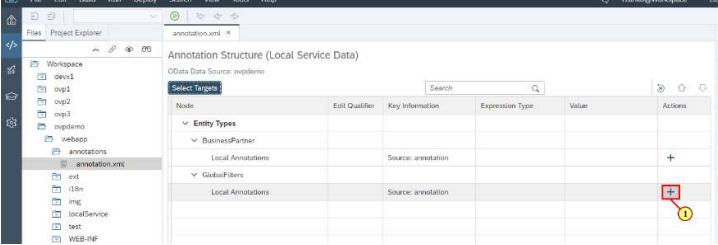
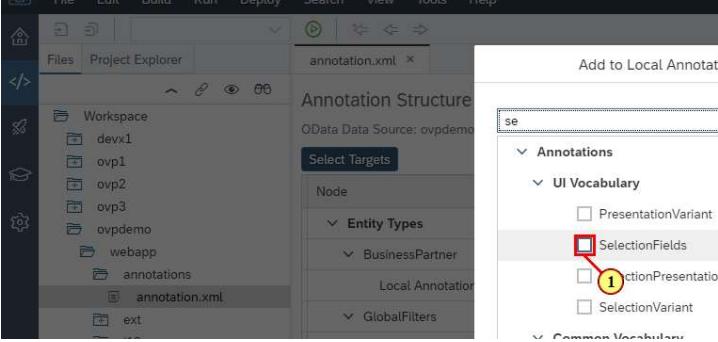
Steps/Instructions	Screenshot
(1) Select the zip with the mock data from your local file system Select Browse...	
(1) Select "ovpdemo.zip" and click Open	
(1) Click OK	
(1) Confirm that you are fine with overwriting any existing content Click Import	

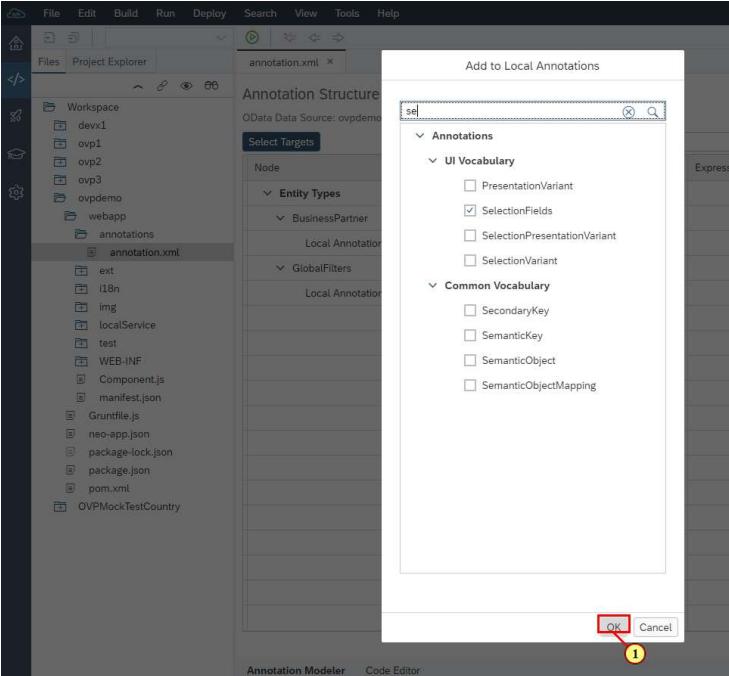
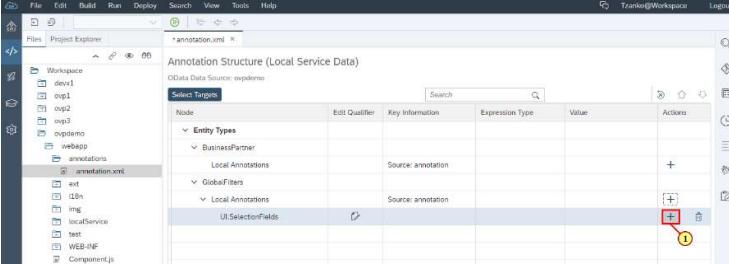
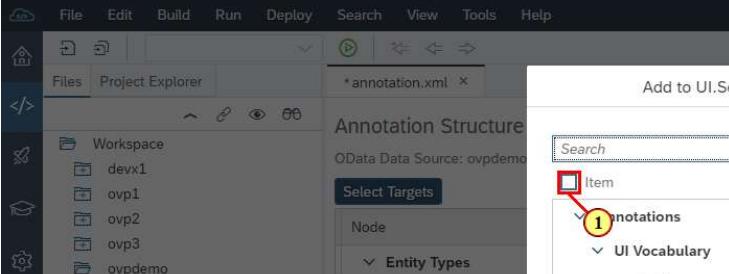
Steps/Instructions	Screenshot
<p>You have now successfully created a new OVP application project, based on local service definition, with local annotations and imported the mock data.</p>	 <p>The screenshot shows the SAP Fiori Elements Project Explorer interface. The project structure is as follows:</p> <ul style="list-style-type: none">Project root:<ul style="list-style-type: none">webapp<ul style="list-style-type: none">annotations<ul style="list-style-type: none">annotation0.xmlexti18nimg<ul style="list-style-type: none">readme.txtlocalService<ul style="list-style-type: none">ovpdemo<ul style="list-style-type: none">BusinessPartnerSet.jsonContactSet.jsonGlobalFilters.jsonGlobalParameters.jsonmetadata.xmlProductSet.jsonSalesOrderSet.jsonSalesShare.jsonVH_CountrySet.jsonVH_CurrencySet.jsonmockserver.jstestWEB-INF

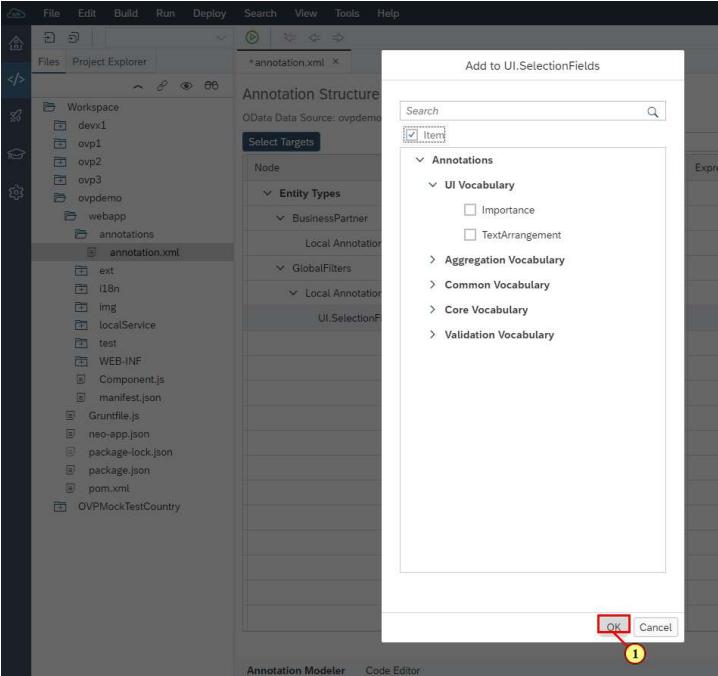
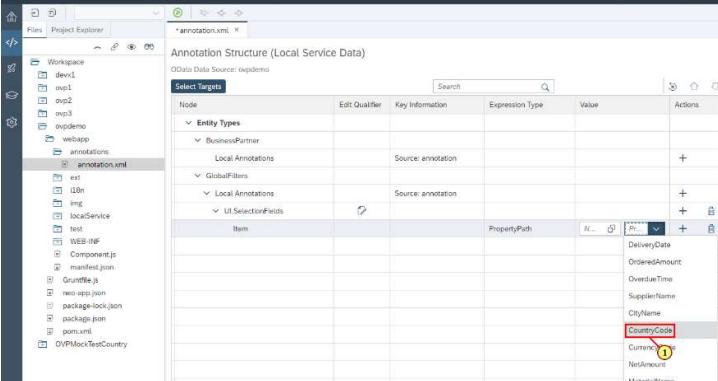
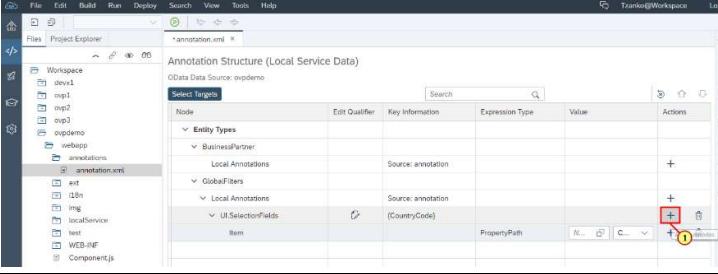
2. Create Filterbar

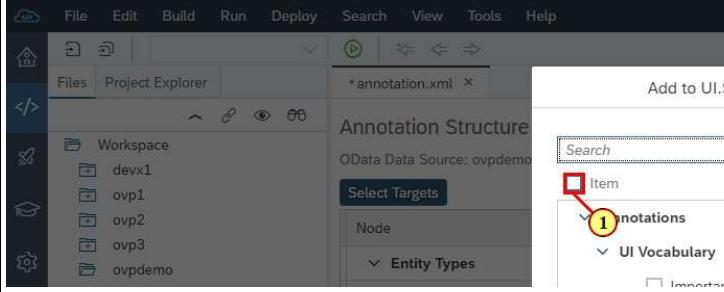
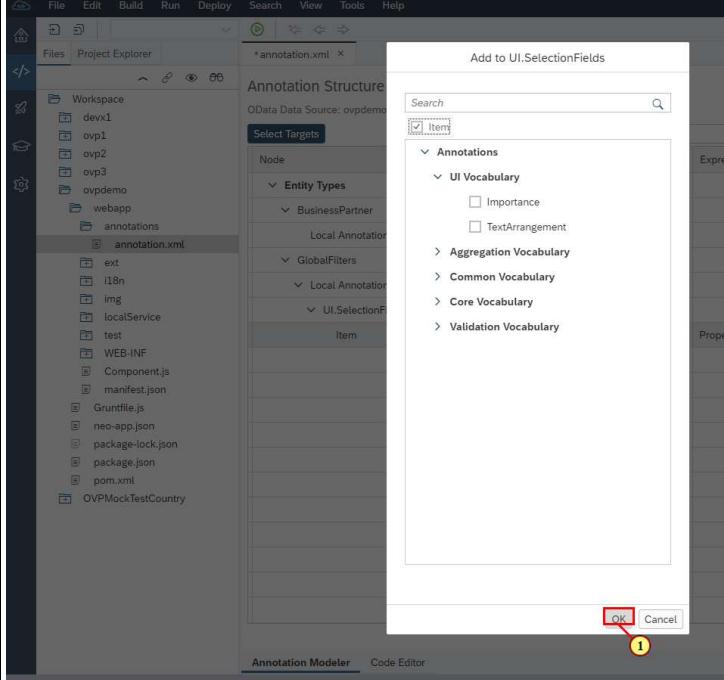
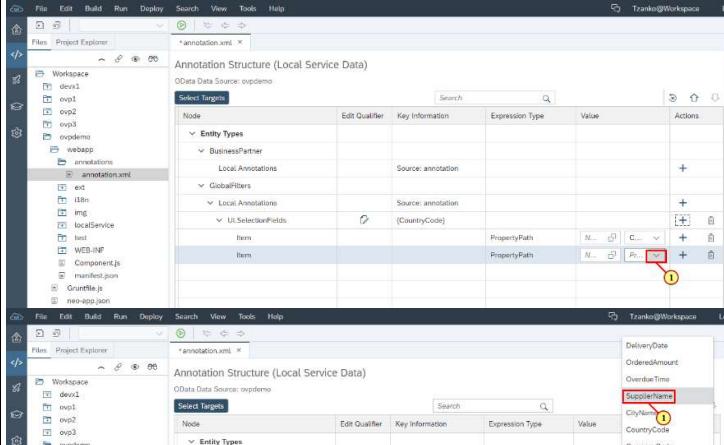
Here you will add the required annotations to include filters with Value Helps.

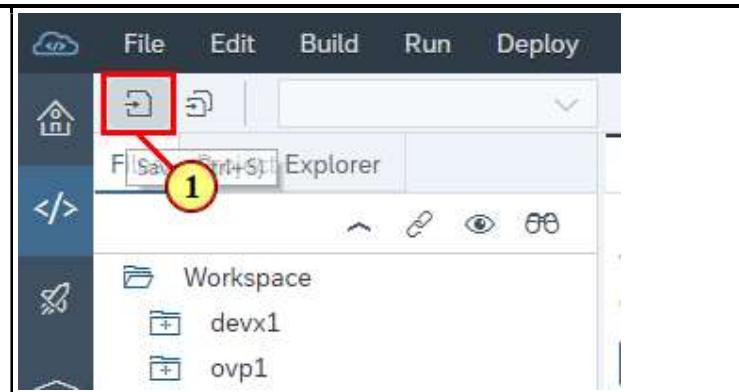
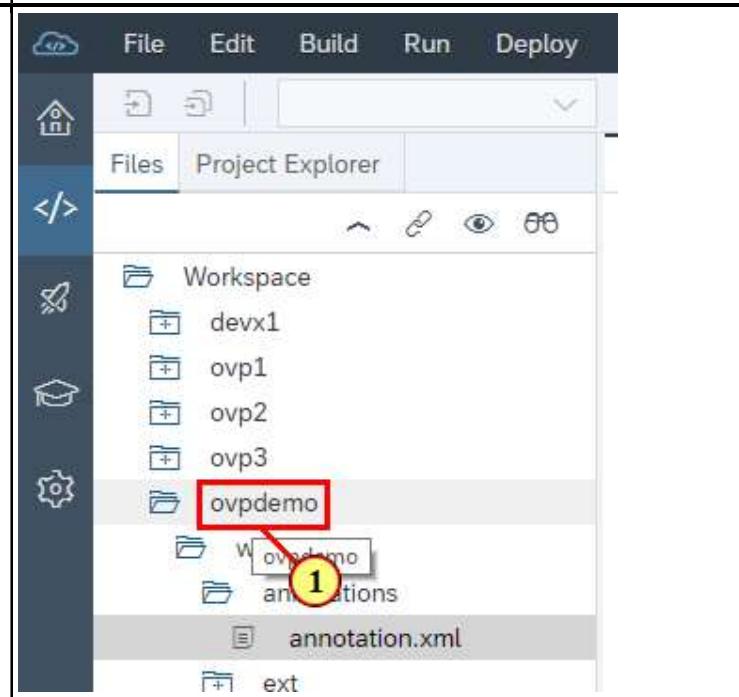
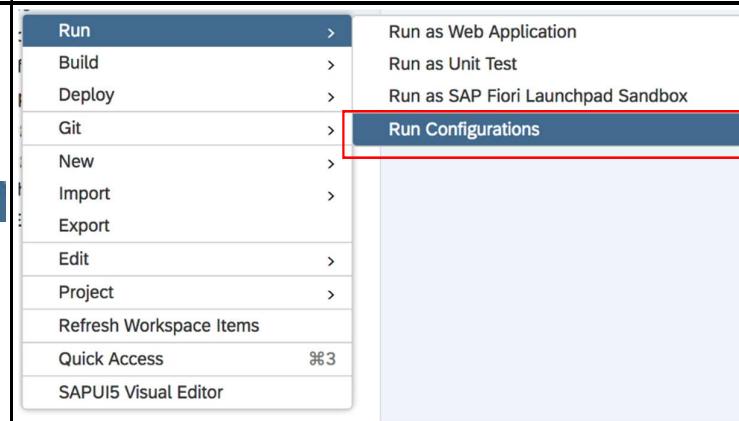
<p>(1) Edit the local annotations document via the Annotation Modeler. Right-Click on <code>annotation.xml</code> with the mouse opens a shortcut menu.</p>	 <p>The screenshot shows the SAP Fiori Elements Project Explorer. A red box highlights the <code>annotation.xml</code> file under the <code>annotations</code> folder. A yellow circle with the number '1' points to the right-click context menu that has opened for this file.</p>
<p>(1) Select Open Annotation Modeler</p>	 <p>The screenshot shows the SAP Fiori Elements interface with a blue bar at the bottom labeled "Open Annotation Modeler".</p>
<p>(1) We need to specify which fields shall be shown in the filterbar by default. Select Targets</p>	 <p>The screenshot shows the SAP Fiori Elements interface with a red box highlighting the "Select Targets" button. A yellow circle with the number '1' points to the "Entity Types" section in the dialog.</p>

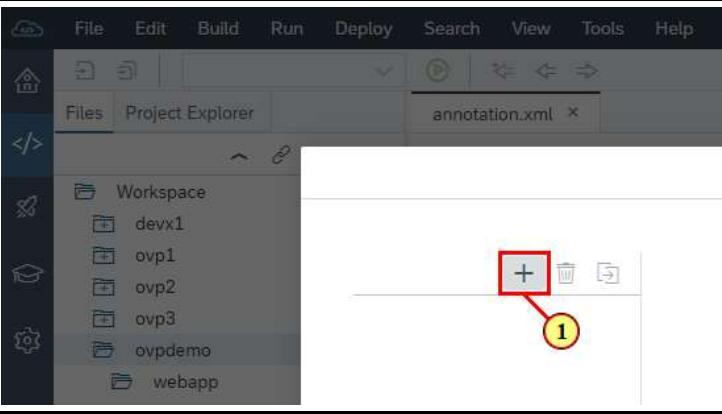
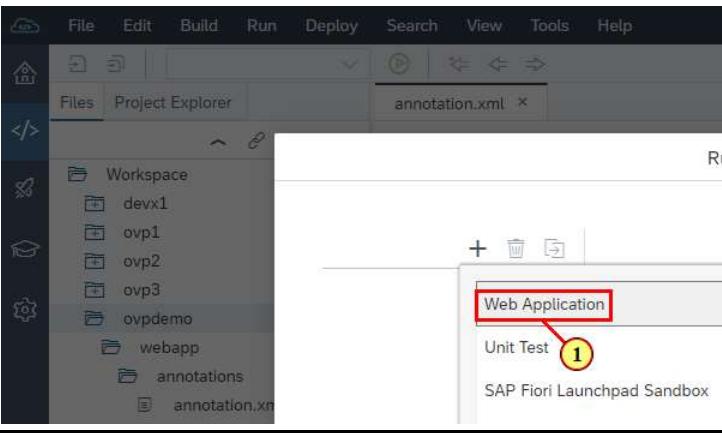
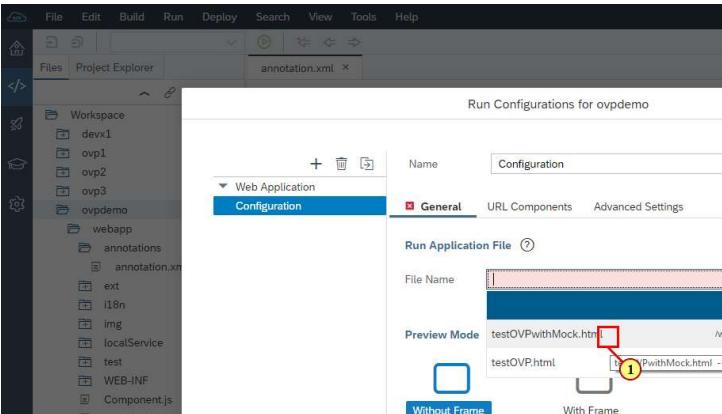
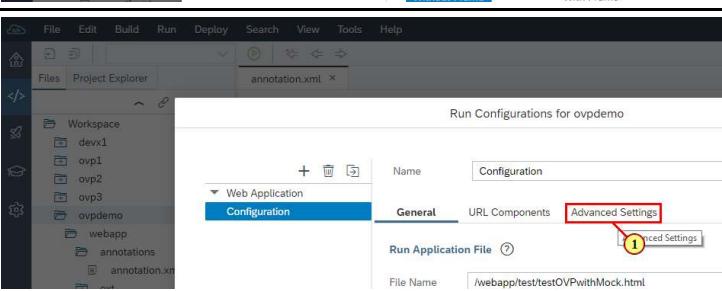
<p>(1) The corresponding annotations will be defined on the entity bound to the filter, namely GlobalFilters Entity type. Go ahead and select it.</p>	
<p>(1) Click OK</p>	
<p>(1) Add new local annotations Click + at the globalfilters local annotations</p>	
<p>(1) Find and select the SelectionFields annotation.</p>	

<p>(1) Click .</p>	
<p>Expand local annotations (1) We will add the CountryCode and the SupplierName as default search fields. Click  corresponding to ui.selectionfields.</p>	
<p>(1) Add an Item.</p>	

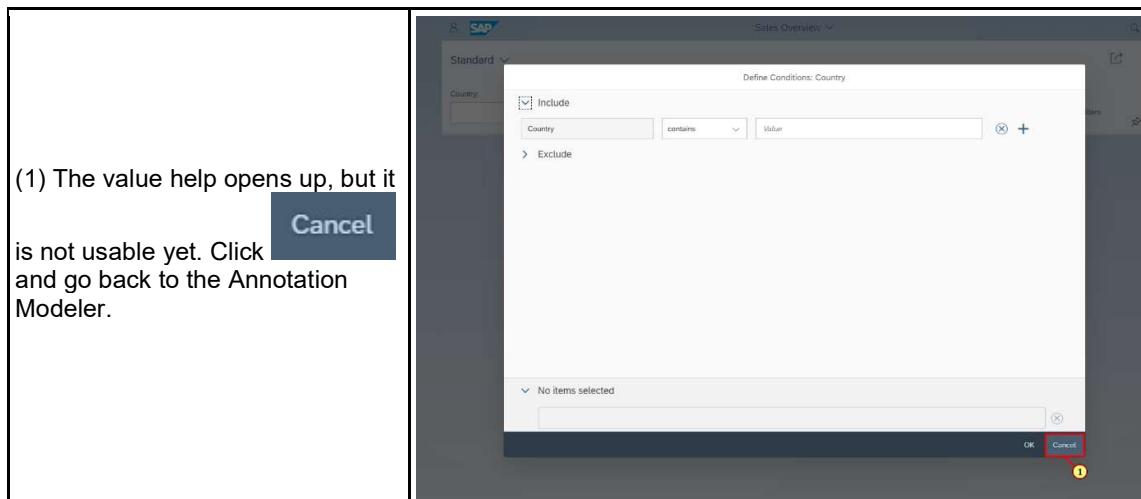
<p>(1) Click OK.</p>	
<p>(1) Map the first Item within "UI.SelectionFields" to the CountryCode (via a PropertyPath).</p>	
<p>(1) Now let's add the SupplierName. Click + on UI.SelectionFields.</p>	

<p>(1) Add another Item on "UI.SelectionFields".</p>	
<p>(1) Click OK.</p>	
<p>(1) For the 2nd Item select SupplierName ▾</p>	

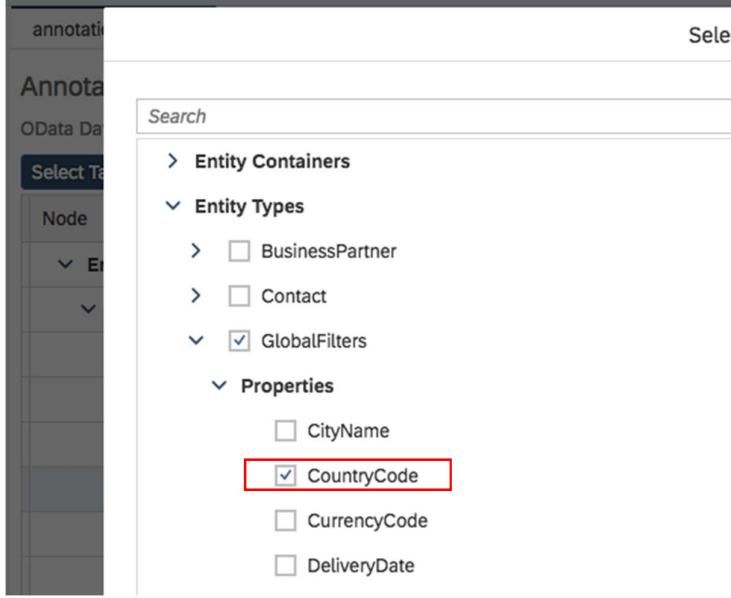
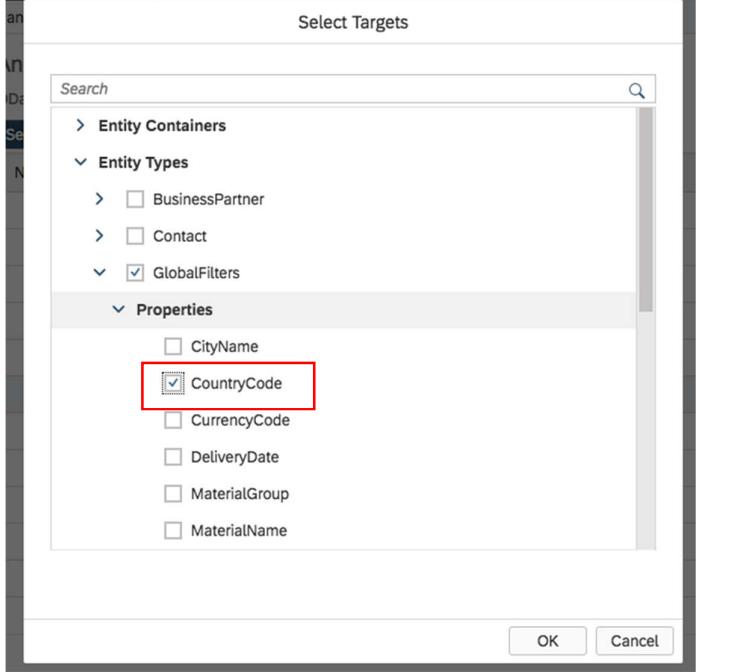
<p>(1) Save your changes. Click </p>	
<p>(1) Next you will define a new Run Configuration. It shall instruct the WebIDE to run the app in a local Fiori Launchpad sandbox environment using the mock data. Right-Click on ovpdemo with the mouse opens a shortcut menu.</p>	
<p>(1) Select Run→ Run Configurations ...</p>	

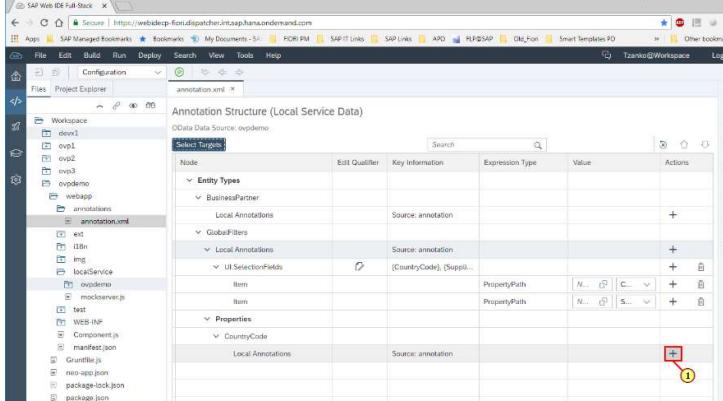
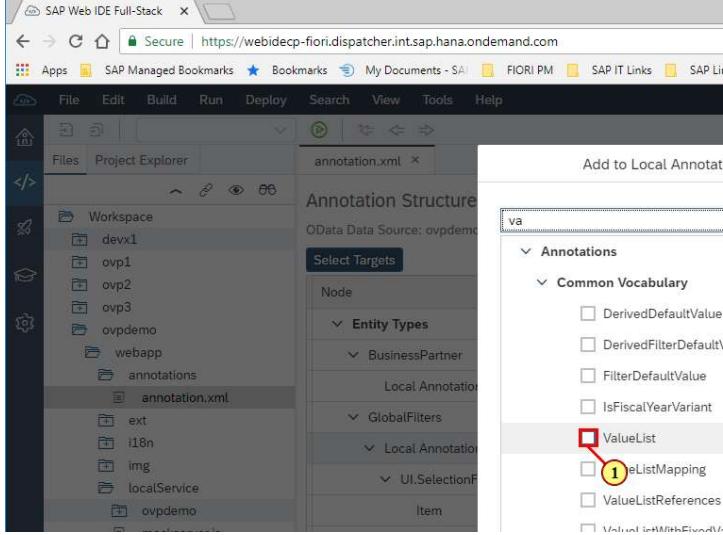
<p>(1) Click </p>	
<p>(1) Select Web Application</p>	
<p>(1) Select testOVPwithMock.html.</p>	
<p>(1) Check that the UI5 version in the Advanced Settings -> SAPUI5 Runtime settings points to latest</p>	

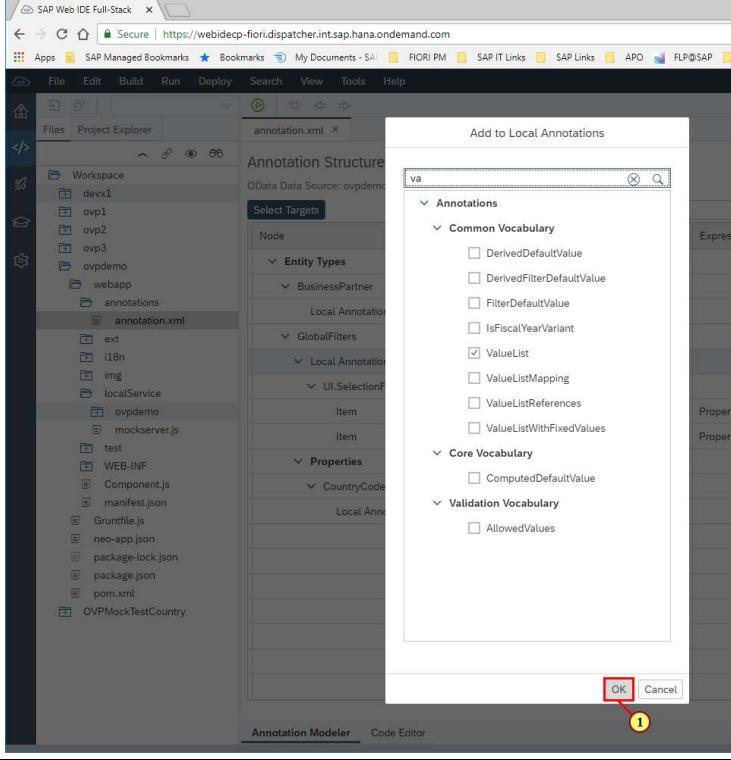
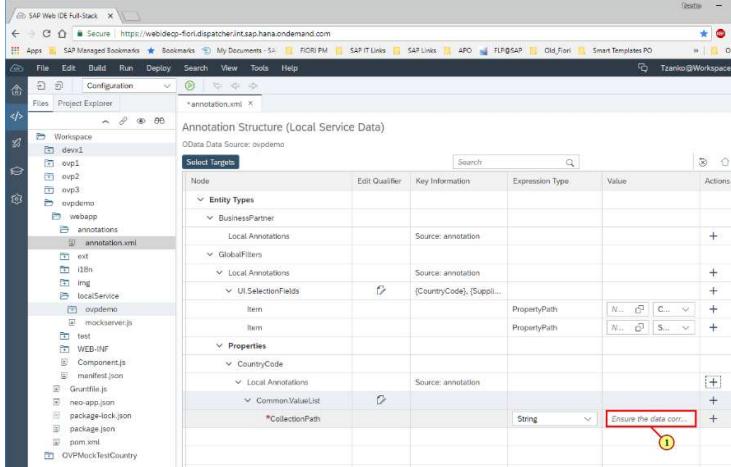
(1) Click Save and Run .	
(1) Your application starts. It contains only a filterbar. Expand it.	
(1) You will see the two default filter dimensions we defined in our annotations. Click  .	

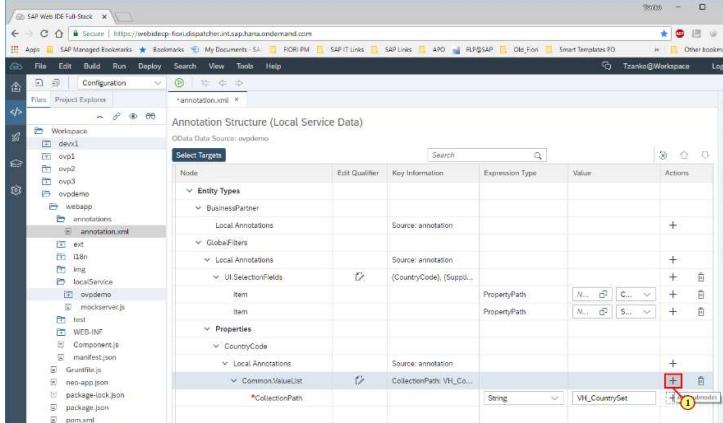
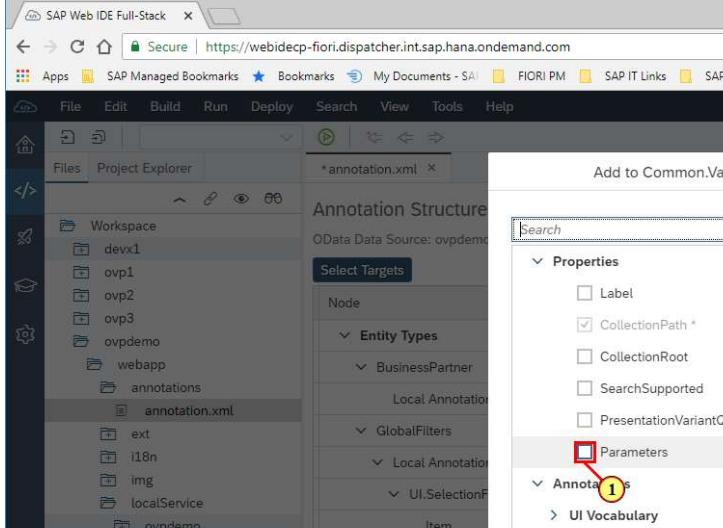


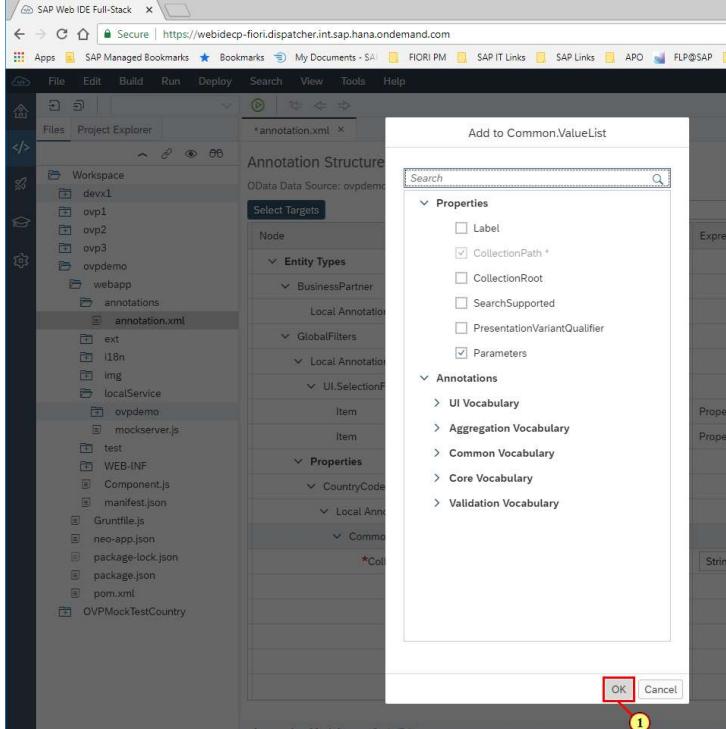
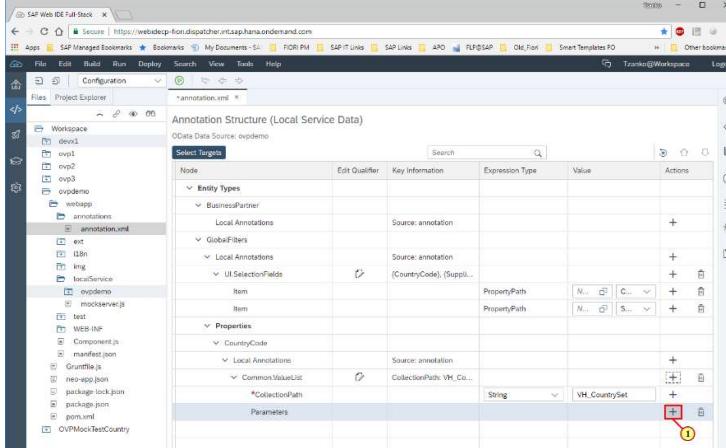
Explanation	Screenshot
<p>(1) We will add a Value Help to the Country Code property of the GlobalFilters entity. The first step is to select that property as a target. Click Select Targets.</p>	<p>The screenshot shows the SAP Web IDE interface. In the center, there is a 'Select Targets' dialog box. At the top of this dialog, the text 'Select Targets' is highlighted with a red box and a yellow circle containing the number '1'. Below this, there is a 'Node' section which is currently empty. To the right of the 'Node' section, there is a 'Entity Types' section. The rest of the interface includes a 'File' menu bar, a 'Project Explorer' sidebar with workspace items like 'devx1', 'ovp1', 'ovp2', 'ovp3', 'ovpdemo', and 'mohann', and a main area titled 'Annotation Structure (L)'.</p>

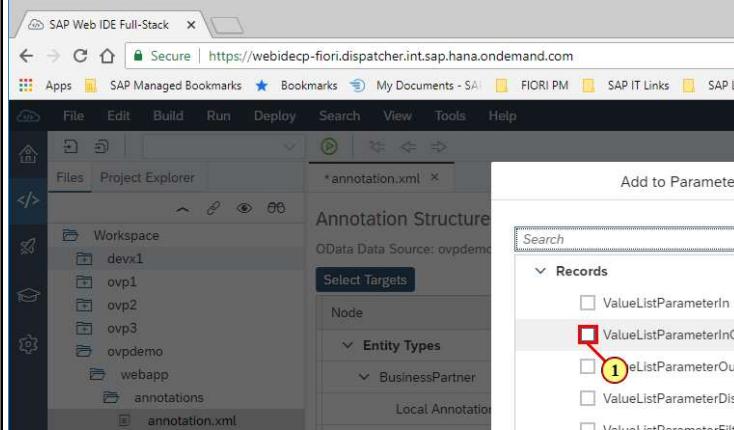
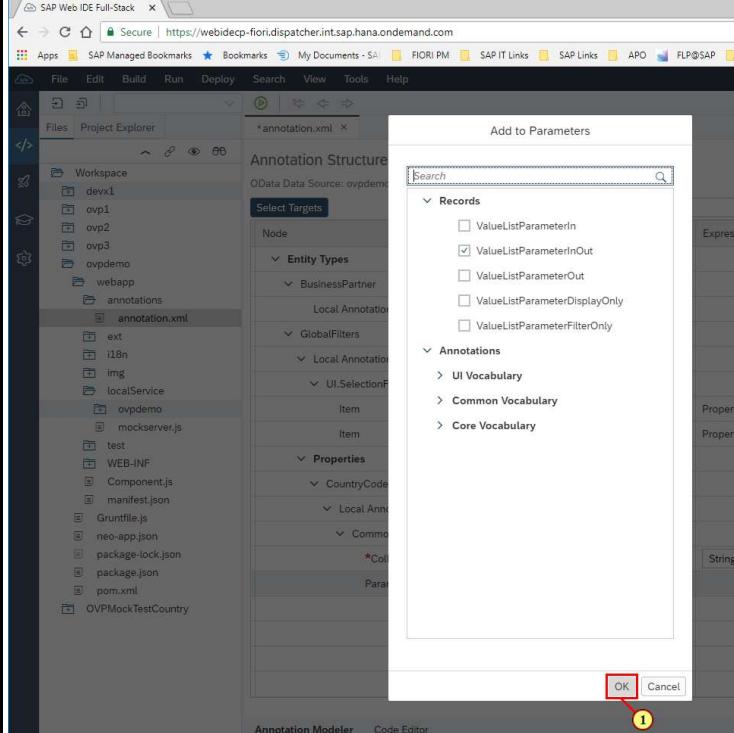
Explanation	Screenshot
(1) Select the CountryCode property.	 <p>The screenshot shows the SAP Fiori Elements annotation dialog. In the 'Properties' section, the 'CountryCode' checkbox is checked and highlighted with a red box.</p>
(1) Click OK .	 <p>The screenshot shows the 'Select Targets' dialog. In the 'Properties' section, the 'CountryCode' checkbox is checked and highlighted with a red box. At the bottom right of the dialog are 'OK' and 'Cancel' buttons.</p>

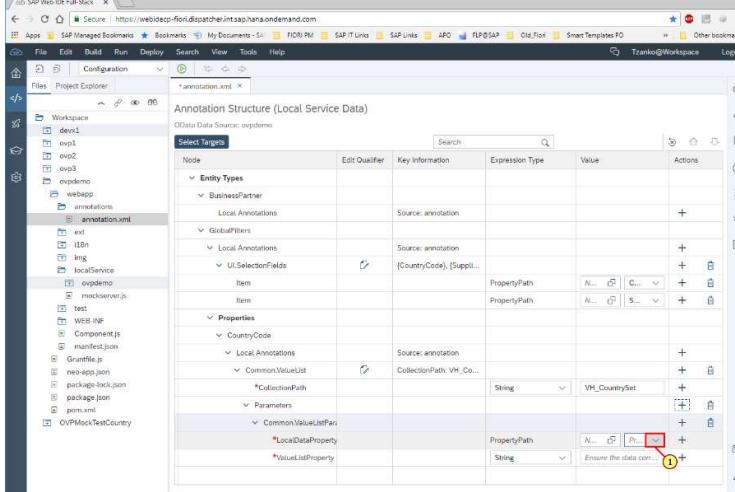
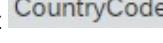
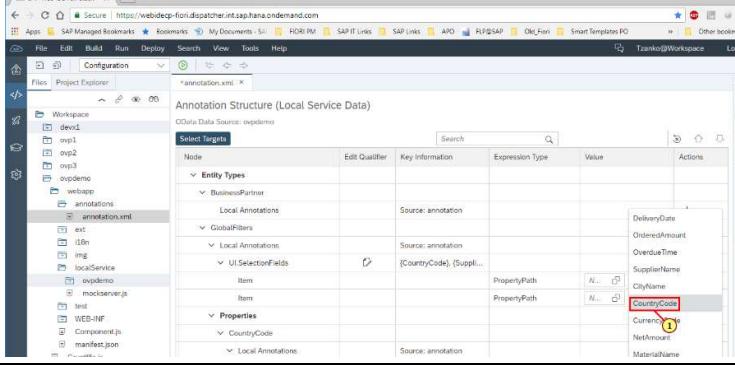
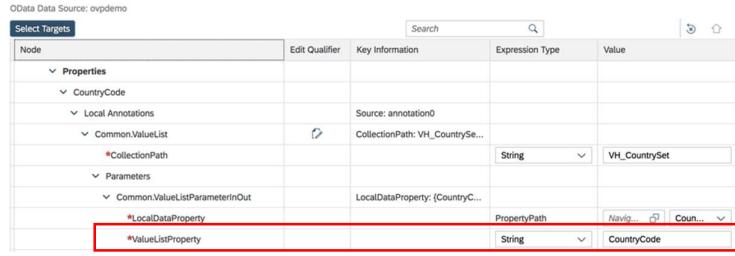
Explanation	Screenshot
<p>(1) Now let's add the ValueList annotation to the CountryCode property. Click .</p>	
<p>(1) Select the ValueList annotation.</p>	

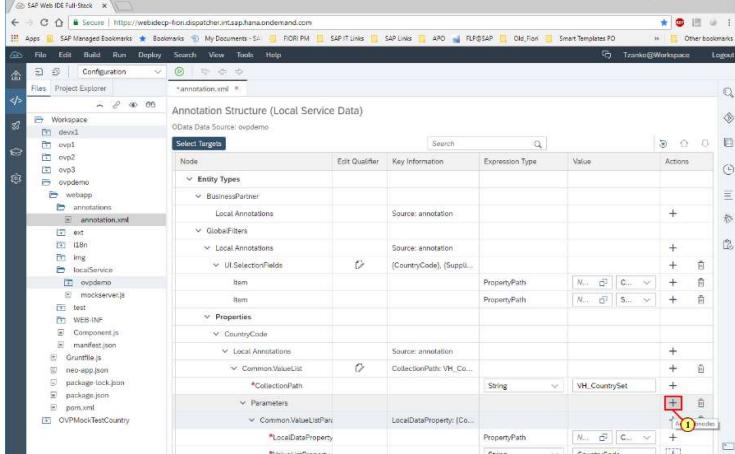
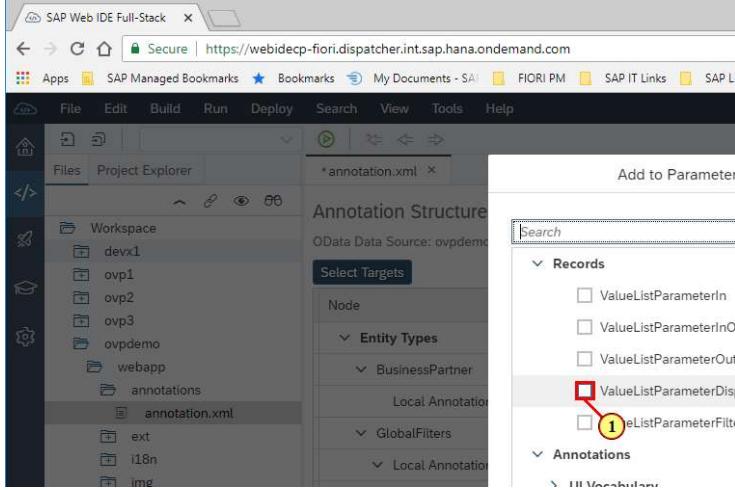
Explanation	Screenshot
(1) Click OK .	
(1) Enter the name of the entity that shall be used to look up the value help data: VH_CountrySet .	

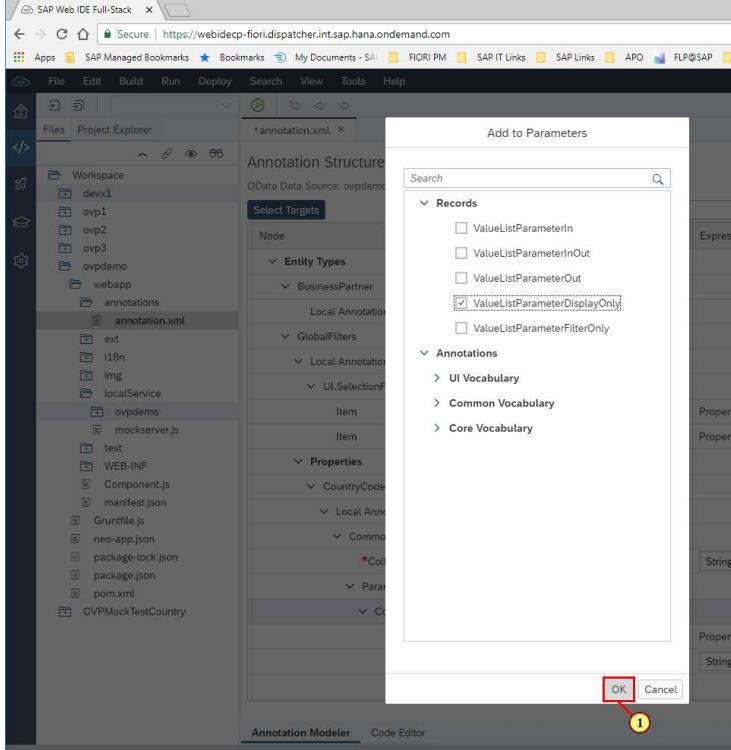
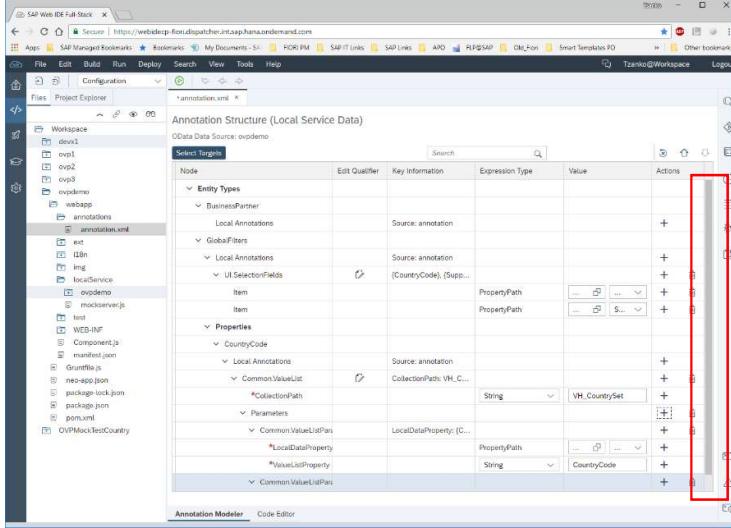
Explanation	Screenshot
<p>(1) Add ValueList parameters. Click .</p>	
<p>(1) Select Parameters.</p>	

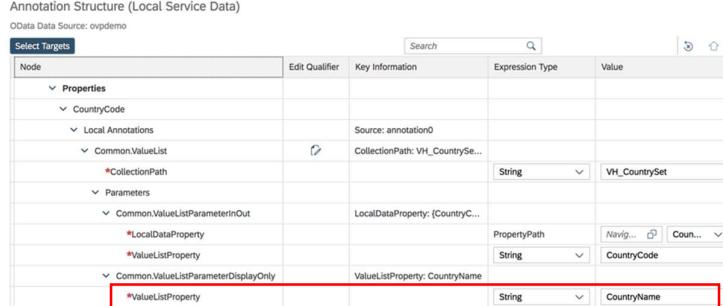
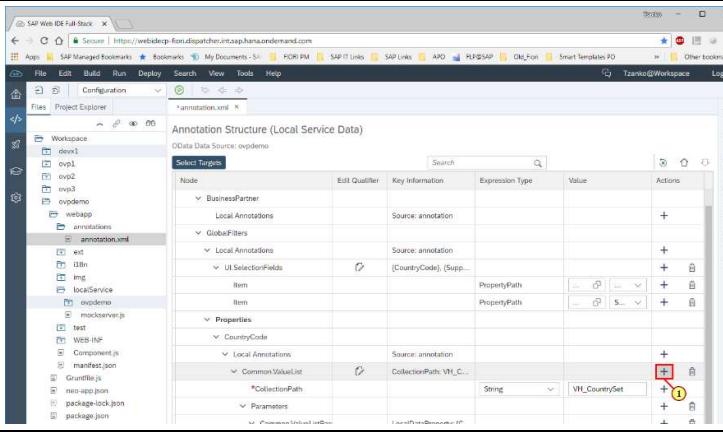
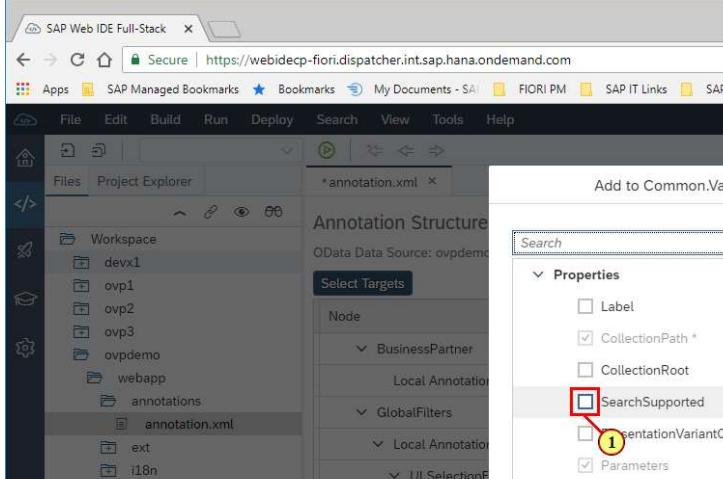
Explanation	Screenshot
(1) Click 	
(1) Click 	

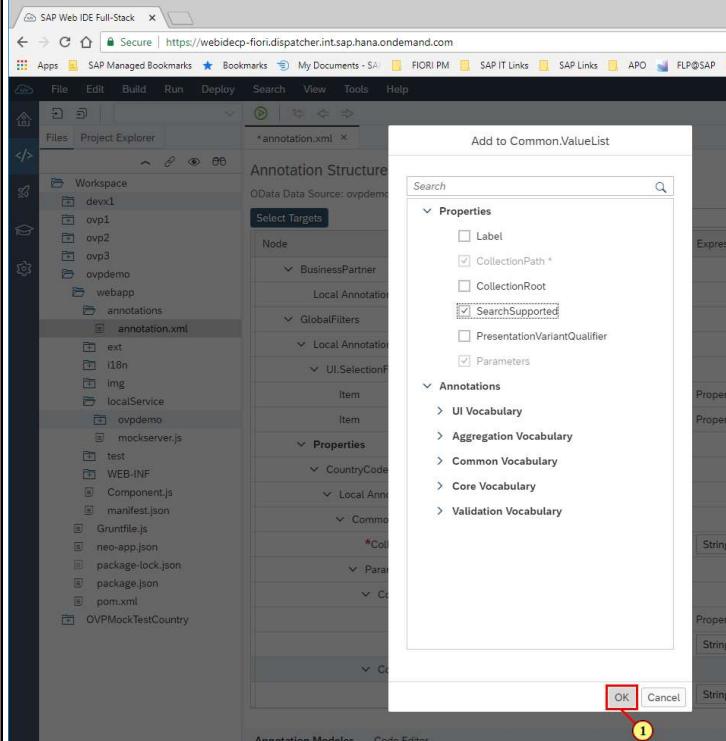
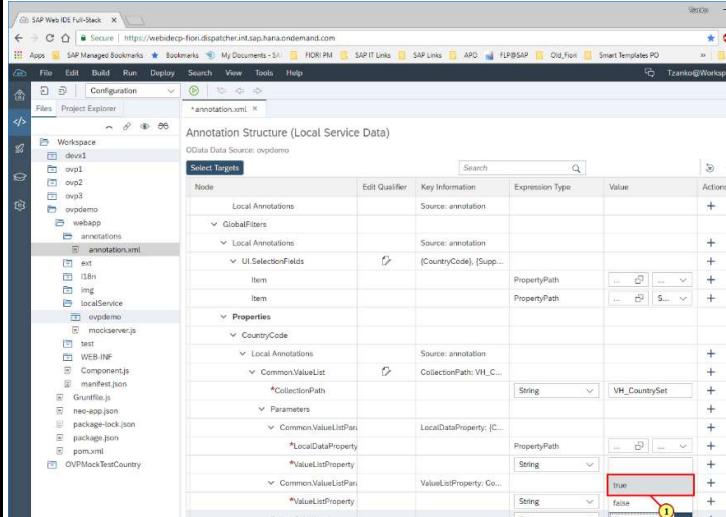
Explanation	Screenshot
<p>(1) We need to map ValueHelp entity (VH_Country) to the filter entity (as referred to as a local entity). This is done via the <i>ValueListParameterInOut</i> annotation where we will map the CountryCode property from the VH_Country to CountryCode from the GlobalFilters. Add <i>ValueListParameterInOut</i> to the Parameters annotations.</p>	
<p>(1) Click OK.</p>	

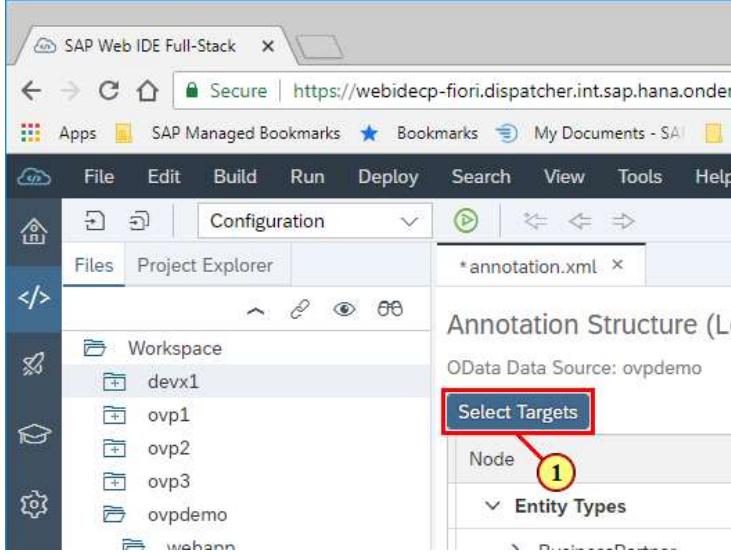
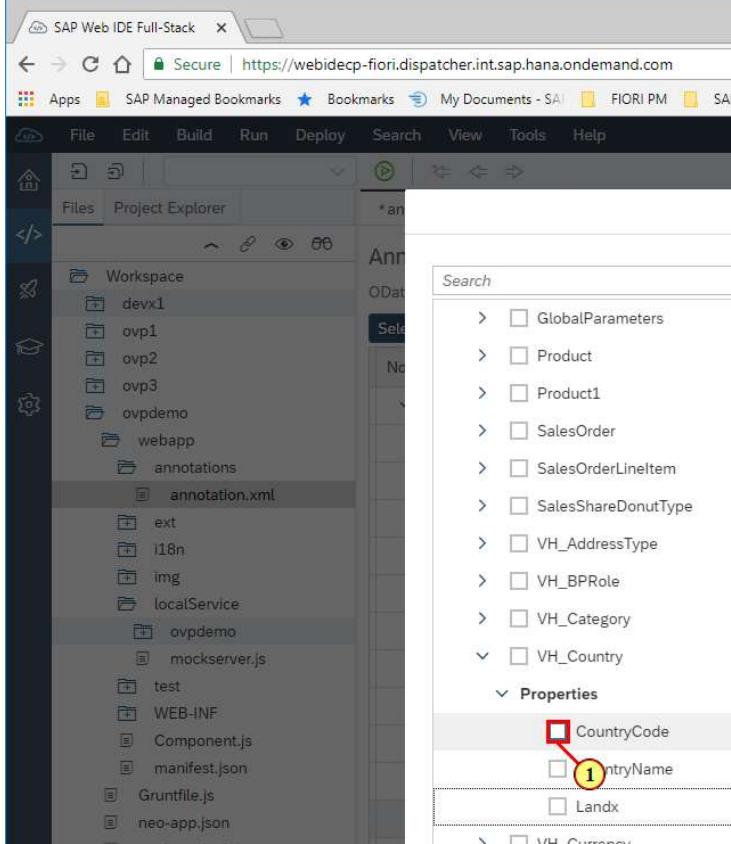
Explanation	Screenshot
<p>(1) Select the CountyCode of the GlobalFilters as a LocalDataProperty. Click </p>	
<p>(1) Select </p>	
<p>(1) For the ValueListProperty enter "CountryCode" as a String – the CountryCode property from the VH_Country entity.</p>	

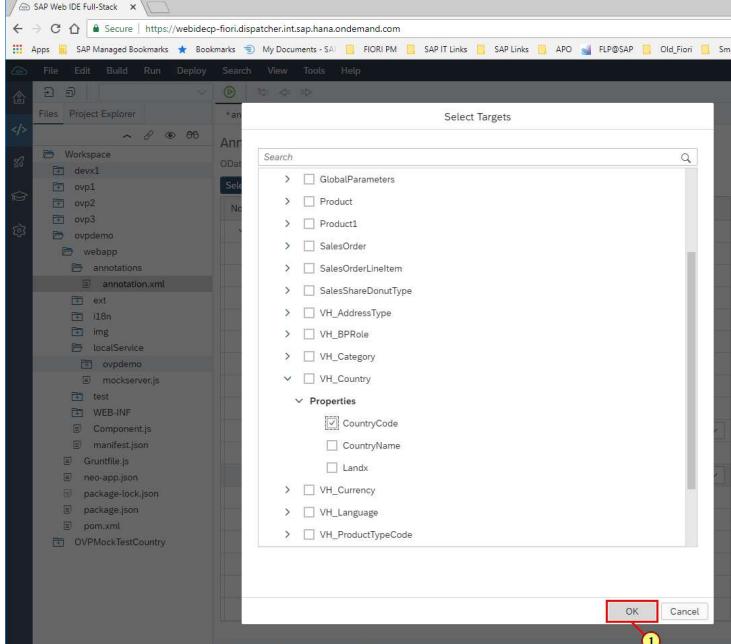
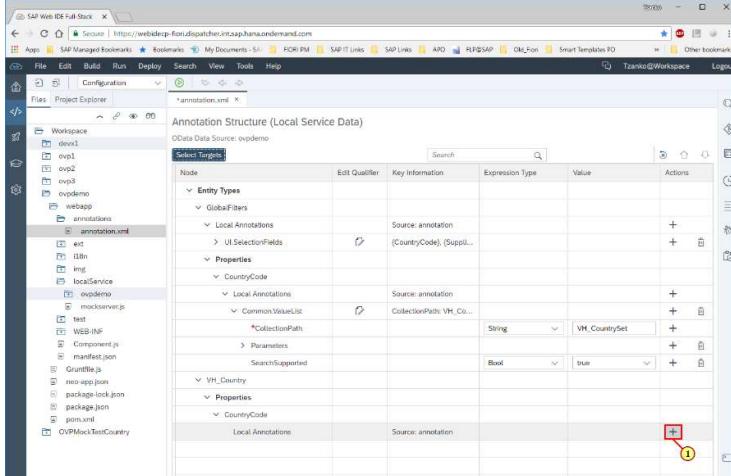
Explanation	Screenshot
<p>(1) Add the VH's <i>CountryName</i> as display property (to show it in the VH dialog table, but no interaction with it will be possible) using <i>ValueListParameterDisplayOnly</i>. Click .</p>	
<p>(1) Select <i>ValueListParameterDisplayOnly</i>.</p>	

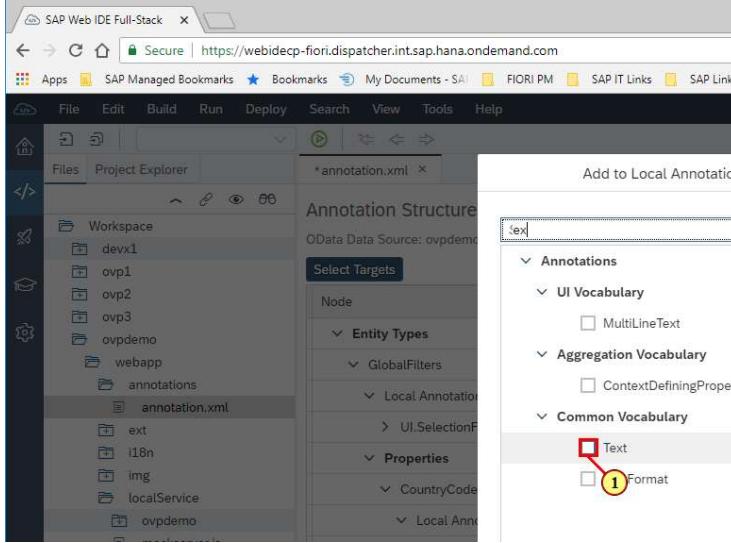
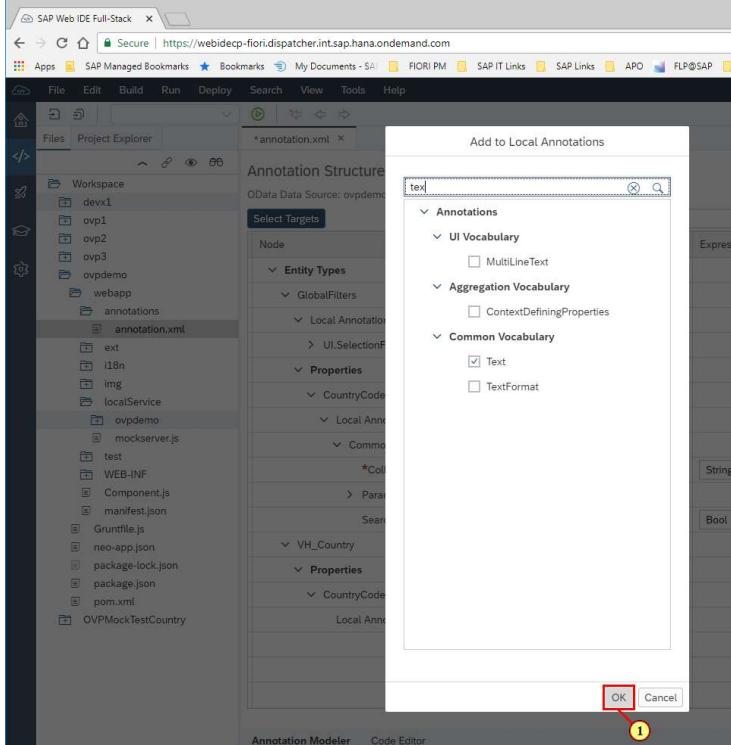
Explanation	Screenshot
(1) Click 	
(1) Scroll down to bring the screen to desired location	

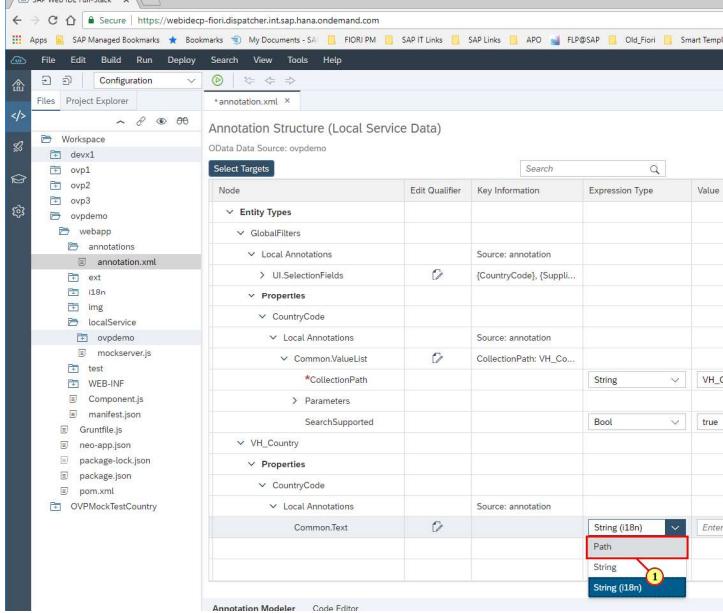
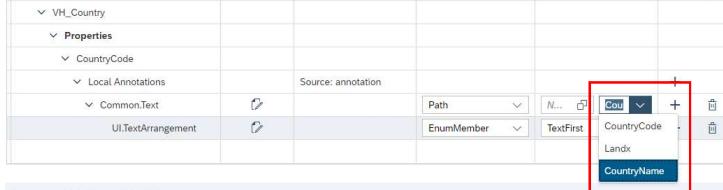
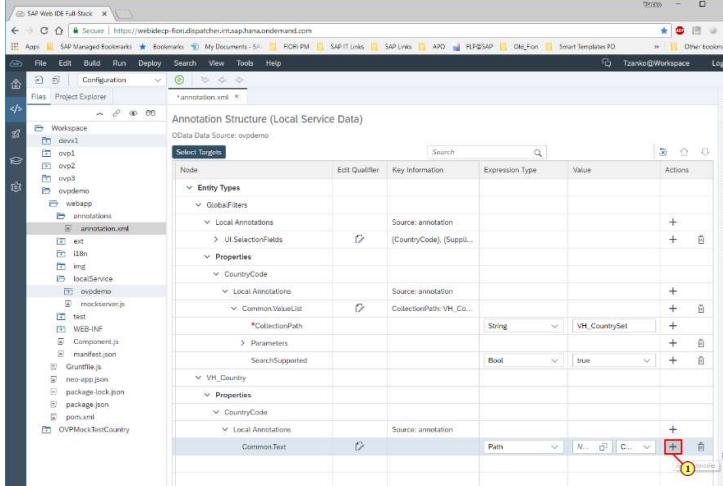
Explanation	Screenshot																																																												
(1) Enter text as "CountryName".	 <p>Annotation Structure (Local Service Data) OData Data Source: ovpdemo</p> <p>Select Targets</p> <table border="1"> <thead> <tr> <th>Node</th> <th>Edit Qualifier</th> <th>Key Information</th> <th>Expression Type</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Properties</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> CountryCode</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> Local Annotations</td> <td></td> <td>Source: annotation0</td> <td></td> <td></td> </tr> <tr> <td> Common.ValueList</td> <td></td> <td>CollectionPath: VH_CountrySe...</td> <td></td> <td></td> </tr> <tr> <td> *CollectionPath</td> <td></td> <td></td> <td>String</td> <td>VH_CountrySet</td> </tr> <tr> <td> Parameters</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> Common.ValueListParameterInOut</td> <td></td> <td>LocalDataProperty: (CountryC...</td> <td></td> <td></td> </tr> <tr> <td> *LocalDataProperty</td> <td></td> <td></td> <td>PropertyPath</td> <td>Navig... Coun...</td> </tr> <tr> <td> *ValueListProperty</td> <td></td> <td></td> <td>String</td> <td>CountryCode</td> </tr> <tr> <td> Common.ValueListParameterDisplayOnly</td> <td></td> <td>ValueListProperty: CountryName</td> <td></td> <td></td> </tr> <tr> <td> *ValueListProperty</td> <td></td> <td></td> <td>String</td> <td>CountryName</td> </tr> </tbody> </table>	Node	Edit Qualifier	Key Information	Expression Type	Value	Properties					CountryCode					Local Annotations		Source: annotation0			Common.ValueList		CollectionPath: VH_CountrySe...			*CollectionPath			String	VH_CountrySet	Parameters					Common.ValueListParameterInOut		LocalDataProperty: (CountryC...			*LocalDataProperty			PropertyPath	Navig... Coun...	*ValueListProperty			String	CountryCode	Common.ValueListParameterDisplayOnly		ValueListProperty: CountryName			*ValueListProperty			String	CountryName
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(1) Add another Parameter to Value list. This is to enable free text search in the value help dialog. Click  .	 <p>Annotation Structure (Local Service Data) OData Data Source: ovpdemo</p> <p>Select Targets</p> <table border="1"> <thead> <tr> <th>Node</th> <th>Edit Qualifier</th> <th>Key Information</th> <th>Expression Type</th> <th>Value</th> <th>Actions</th> </tr> </thead> <tbody> <tr> <td>BusinessPartner</td> <td></td> <td>Local Annotations</td> <td>Source: annotation</td> <td></td> <td>+</td> </tr> <tr> <td>GlobeFilters</td> <td></td> <td>Local Annotations</td> <td>Source: annotation</td> <td></td> <td>+</td> </tr> <tr> <td> UI.SelectionFields</td> <td></td> <td>Item</td> <td>(CountryCode). [Supp...</td> <td></td> <td>+</td> </tr> <tr> <td> Properties</td> <td></td> <td>Item</td> <td>PropertyPaths</td> <td></td> <td>+</td> </tr> <tr> <td> CountryCode</td> <td></td> <td>Properties</td> <td></td> <td></td> <td>+</td> </tr> <tr> <td> Local Annotations</td> <td></td> <td>Local Annotations</td> <td>Source: annotation</td> <td></td> <td>+</td> </tr> <tr> <td> Common.ValueList</td> <td></td> <td> CollectionPath: VH_C...</td> <td></td> <td></td> <td>+</td> </tr> <tr> <td> *CollectionPath</td> <td></td> <td> String</td> <td></td> <td>VH_CountrySet</td> <td>+</td> </tr> <tr> <td> Parameters</td> <td></td> <td> Parameters</td> <td></td> <td></td> <td>+</td> </tr> </tbody> </table>	Node	Edit Qualifier	Key Information	Expression Type	Value	Actions	BusinessPartner		Local Annotations	Source: annotation		+	GlobeFilters		Local Annotations	Source: annotation		+	UI.SelectionFields		Item	(CountryCode). [Supp...		+	Properties		Item	PropertyPaths		+	CountryCode		Properties			+	Local Annotations		Local Annotations	Source: annotation		+	Common.ValueList		CollectionPath: VH_C...			+	*CollectionPath		String		VH_CountrySet	+	Parameters		Parameters			+
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*CollectionPath		String		VH_CountrySet	+																																																								
Parameters		Parameters			+																																																								
(1) Select SearchSupported.	 <p>Add to Common.ValueList</p> <p>Annotation Structure OData Data Source: ovpdemo</p> <p>Select Targets</p> <p>Properties</p> <ul style="list-style-type: none"> <input type="checkbox"/> Label <input checked="" type="checkbox"/> CollectionPath * <input type="checkbox"/> CollectionRoot <input checked="" type="checkbox"/> SearchSupported 1 <input type="checkbox"/> ContentVariantQu... <input checked="" type="checkbox"/> Parameters 																																																												

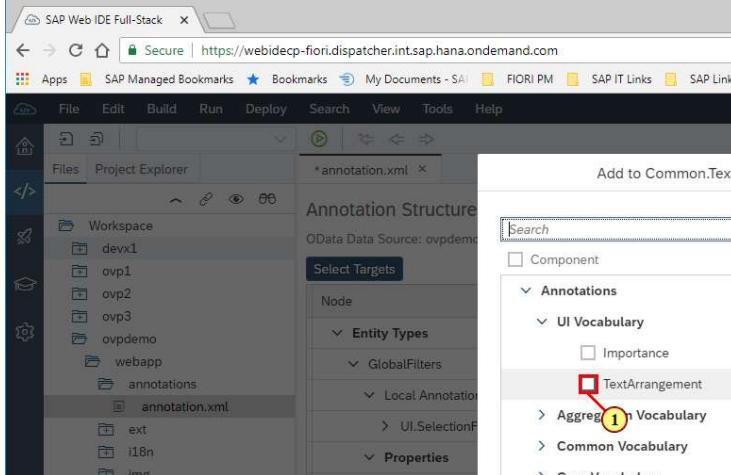
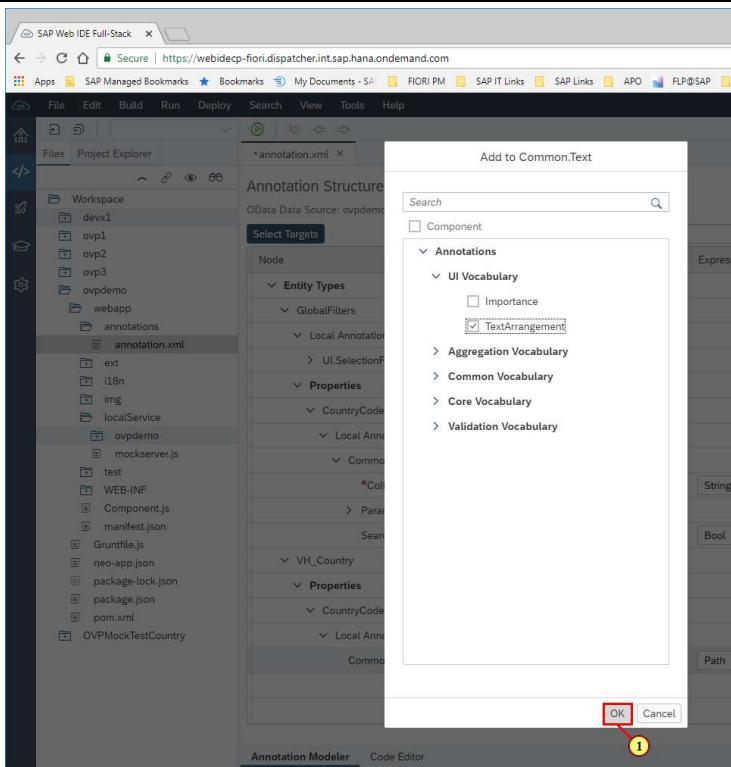
Explanation	Screenshot
(1) Click OK	
(1) Select true	

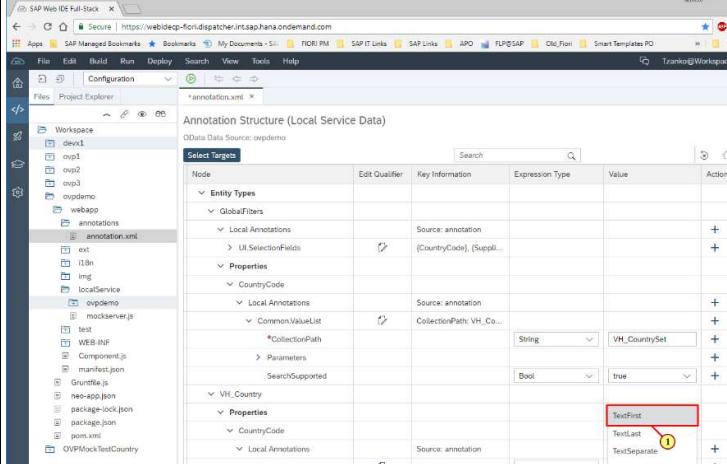
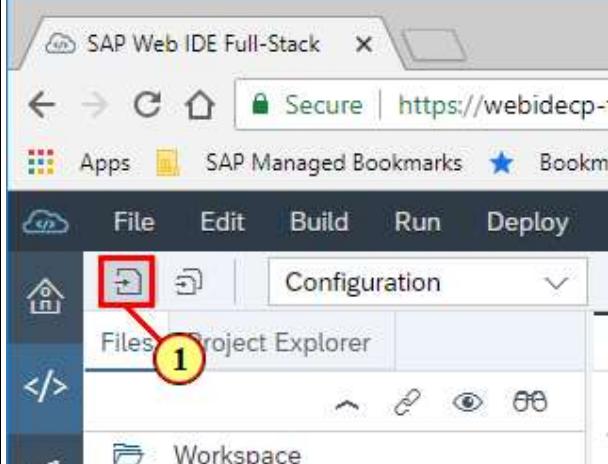
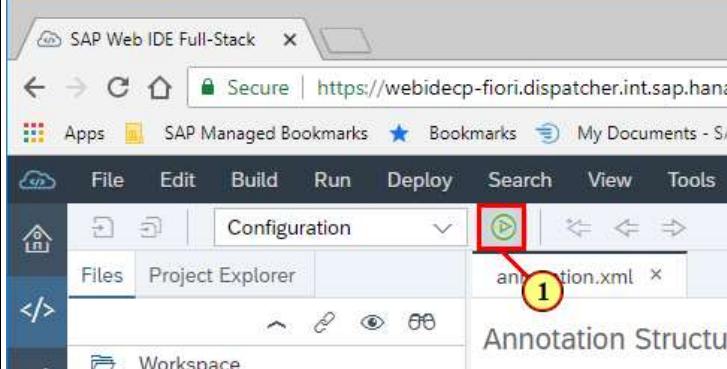
Explanation	Screenshot
(1) Annotate VH_Country's CountryCode so that it is displayed in the format Text(ID). Click Select Targets	 <p>The screenshot shows the SAP Web IDE interface. In the center, there is a 'Project Explorer' view showing a workspace with several projects like 'devx1', 'ovp1', 'ovp2', 'ovp3', and 'ovpdemo'. On the right side, there is a 'Annotation Structure (Local)' panel. At the top of this panel, there is a 'Select Targets' button, which is highlighted with a red box and circled with a yellow number 1. Below this, there are sections for 'Node' and 'Entity Types'.</p>
(1) Select CountryCode property of VH_Country as a target.	 <p>The screenshot shows the SAP Web IDE interface with the 'Project Explorer' view open. A file named 'annotation.xml' is selected in the 'annotations' folder of the 'ovpdemo' project. On the right, the 'Annotation Structure (Local)' panel is visible. Under the 'Properties' section, there is a list of properties for the 'VH_Country' entity type. The 'CountryCode' property is checked, and this checkmark is highlighted with a red box and circled with a yellow number 1.</p>

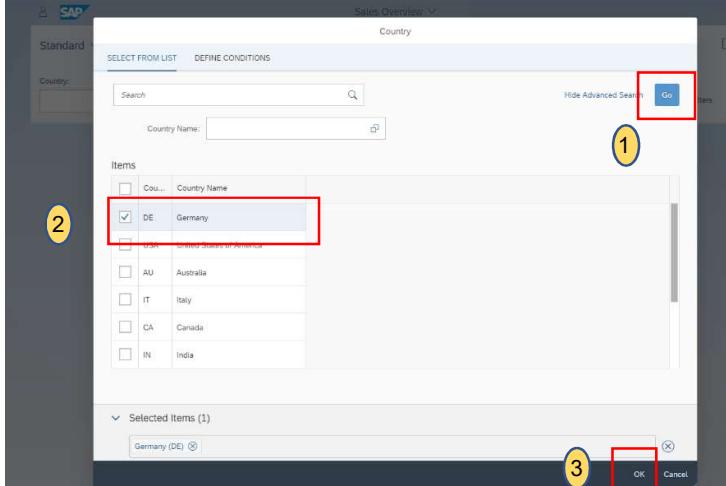
Explanation	Screenshot
(1) Click 	 <p>The screenshot shows the SAP Web IDE Full Stack interface. A modal dialog titled 'Select Targets' is open. It contains a search bar and a list of targets. The list includes 'GlobalParameters', 'Product', 'Product1', 'SalesOrder', 'SalesOrderLineItem', 'SalesShareDonutType', 'VH_AddressType', 'VH_BPRole', 'VH_Category', and 'VH_Country'. Under 'Properties', it lists 'CountryCode', 'CountryName', 'Landx', 'VH_Currency', 'VH_Language', and 'VH_ProductTypeCode'. At the bottom right of the dialog, the 'OK' button is highlighted with a red box.</p>
(1) Click 	 <p>The screenshot shows the SAP Web IDE Full Stack interface with the 'Annotation Structure (Local Service Data)' editor open. The editor displays a table with rows corresponding to annotations. The columns are: Node, Edit Qualifier, Key Information, Expression Type, Value, and Actions. The 'Actions' column contains '+' and '-' buttons. The bottom right corner of the editor window is highlighted with a red box.</p>

Explanation	Screenshot
(1) Add Text annotation.	
(1) Click OK .	

Explanation	Screenshot
(1) Bind to a Path	
(1) Select CountryName.	
(1) Add TextArrangement annotation to indicate the display format. Click +.	

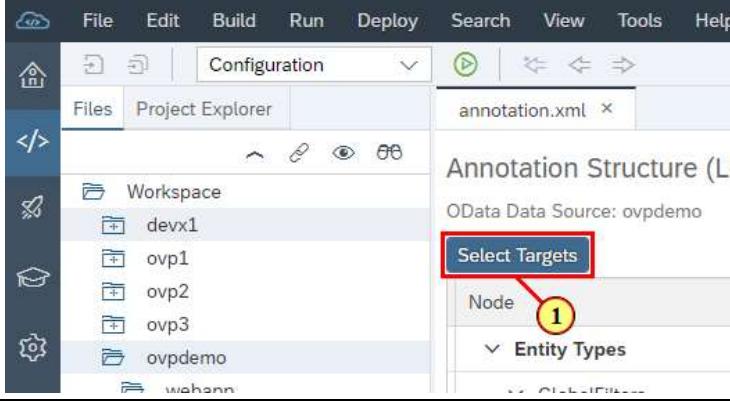
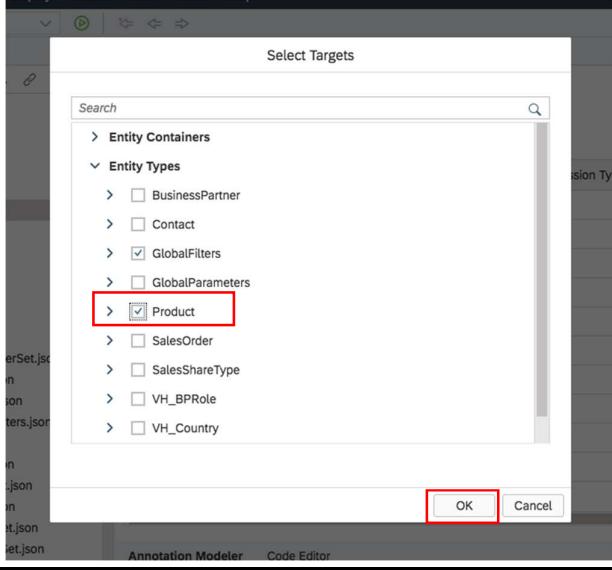
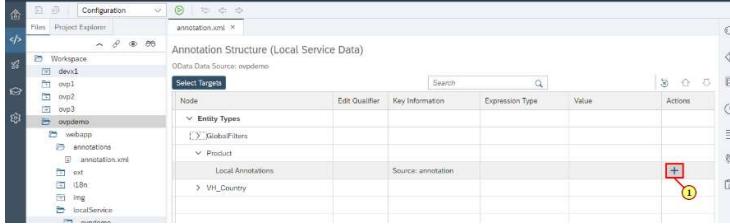
Explanation	Screenshot
(1) Select TextArrangement.	
(1) Click OK	

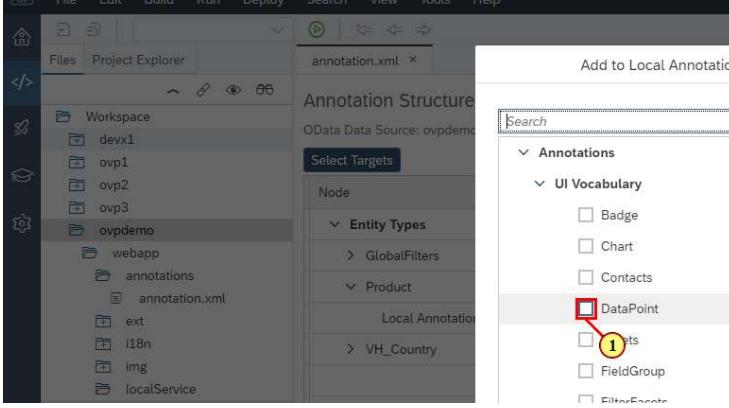
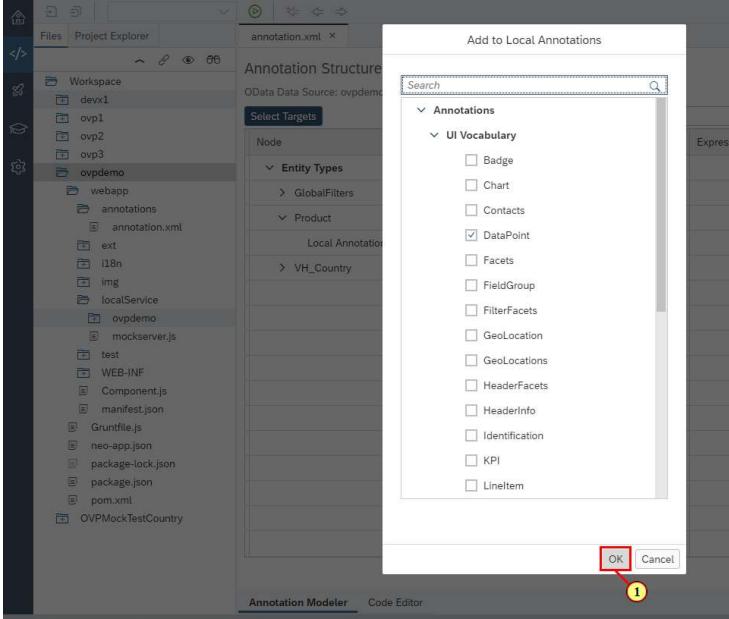
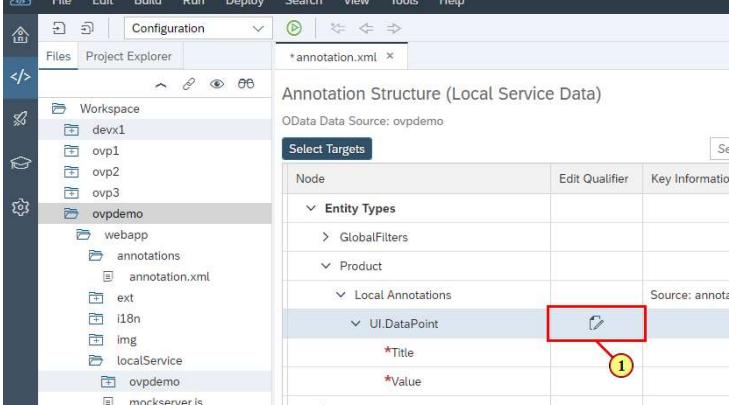
Explanation	Screenshot
(1) Specify format as part of text arrangement TextFirst	
(1) Save your changes.	
(1) Run the app - Click  .	

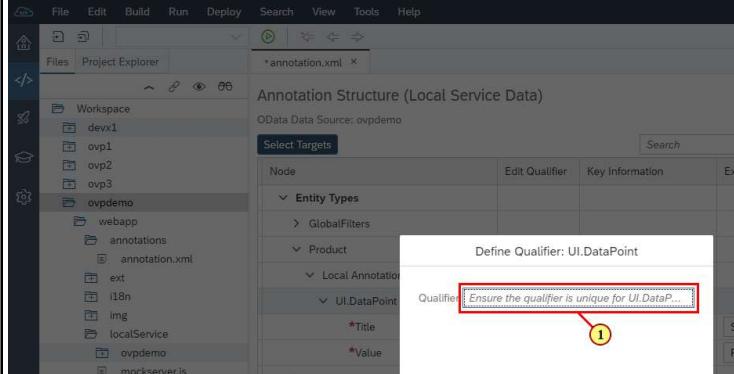
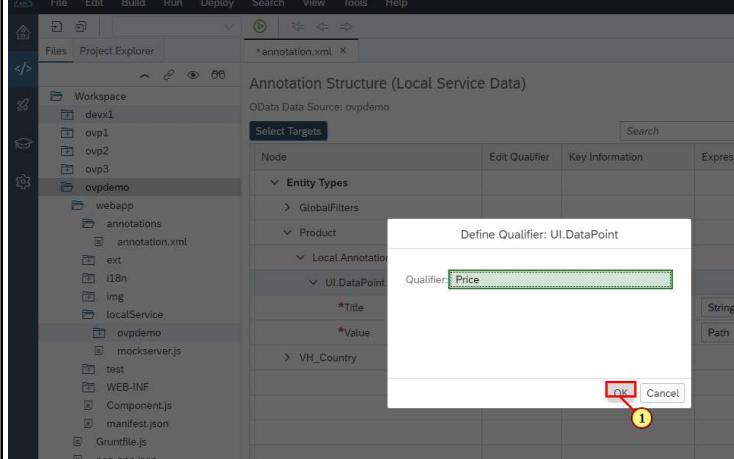
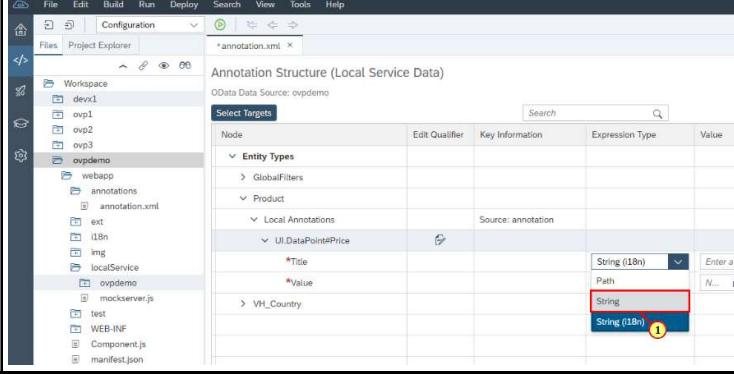
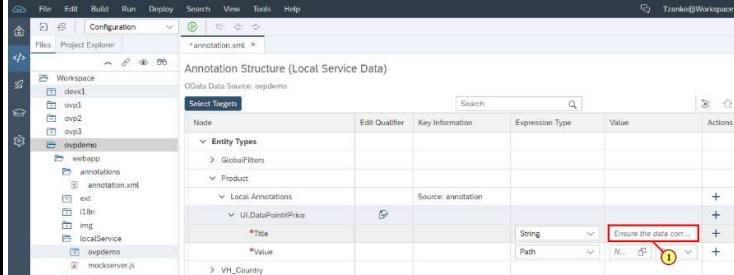
Explanation	Screenshot
<p>Open the Value Help for the country, (1) press GO to get the values, (2) select Germany and (3) confirm your selection via OK.</p>	 <p>The screenshot shows a SAP Fiori Value Help dialog for 'Country'. The search bar contains 'Country Name'. A red box highlights the 'Go' button at the top right. Below it, a yellow circle labeled '1' is over the 'Go' button. The list of items includes 'DE Germany' which is checked and highlighted with a red box. A yellow circle labeled '2' is over the 'DE Germany' row. At the bottom, a yellow circle labeled '3' is over the 'OK' button, which is also highlighted with a red box.</p>
<p>Observe how data is carried over from the value help and shown in the filter field in the format Text(ID).</p>	 <p>The screenshot shows the main application interface after selecting 'Germany (DE)'. The 'Country:' filter field now displays 'Germany (DE)' in a dropdown format, indicating the value has been carried over from the value help dialog.</p>

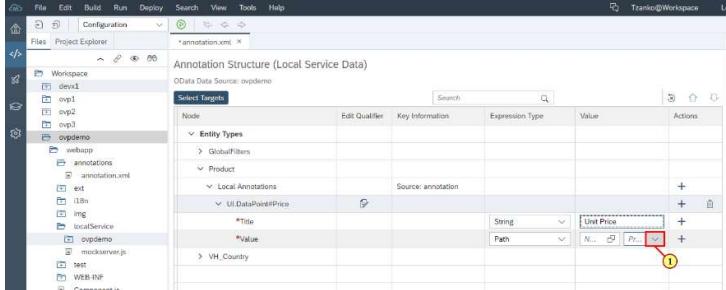
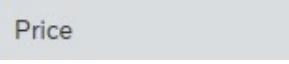
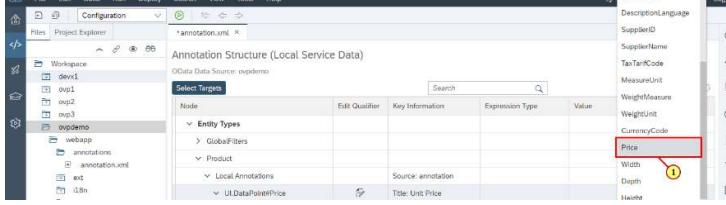
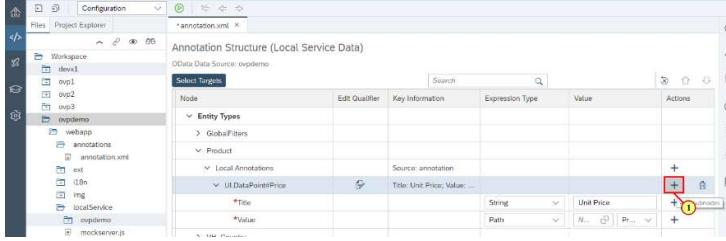
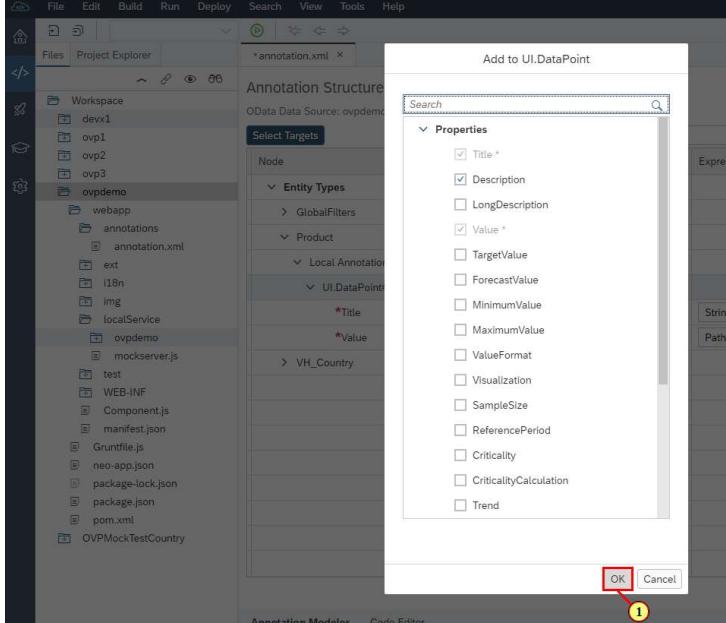
3. Create a List Card

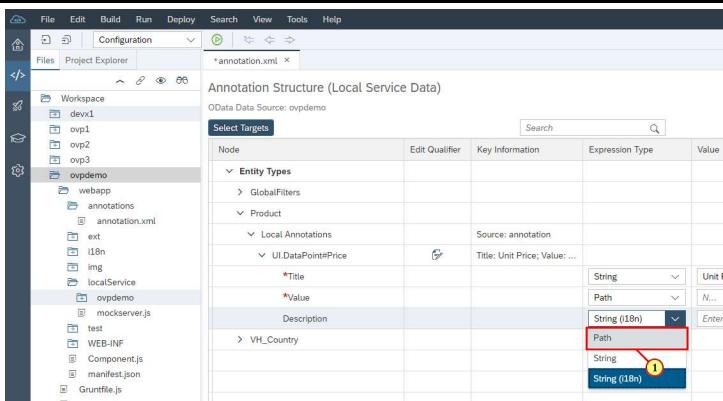
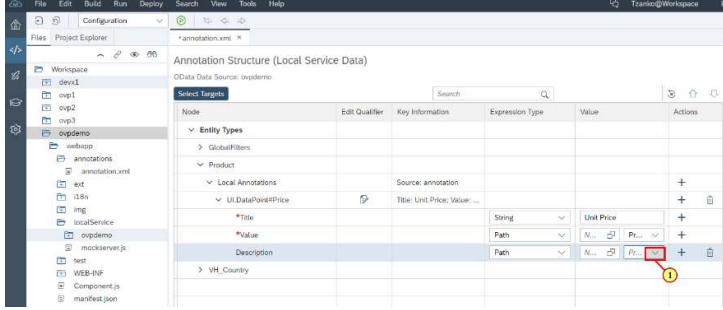
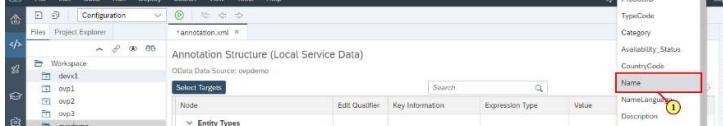
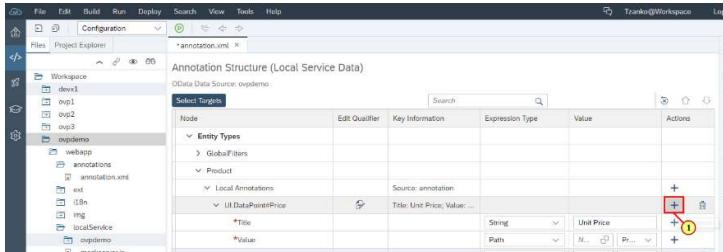
In this chapter, you will create the annotations required to have a List Card on top of the Product entity and generate the card itself.

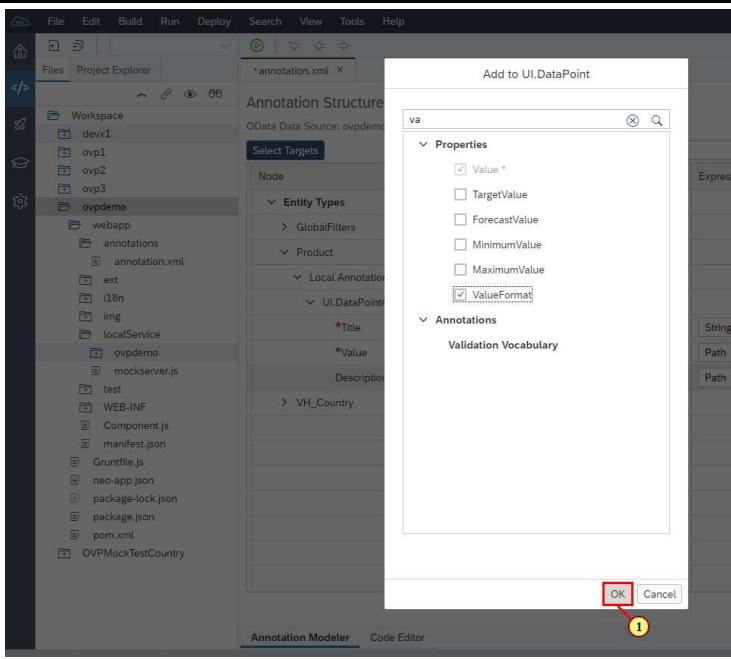
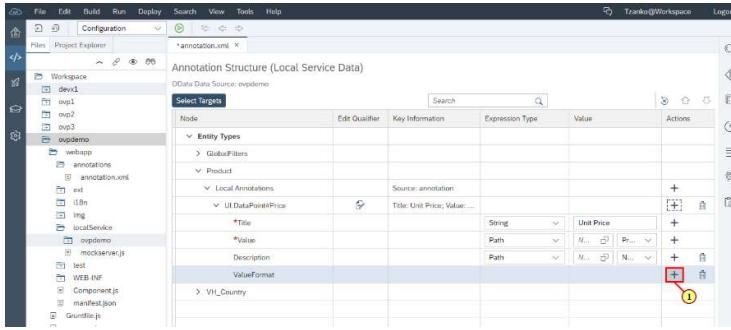
Explanation	Screenshot
(1) First you have to annotate the Product Entity. Click Select Targets .	
(1) Select the Product and Click OK.	
(1) Add a DataPoint annotation under the local annotations of product - Click + .	

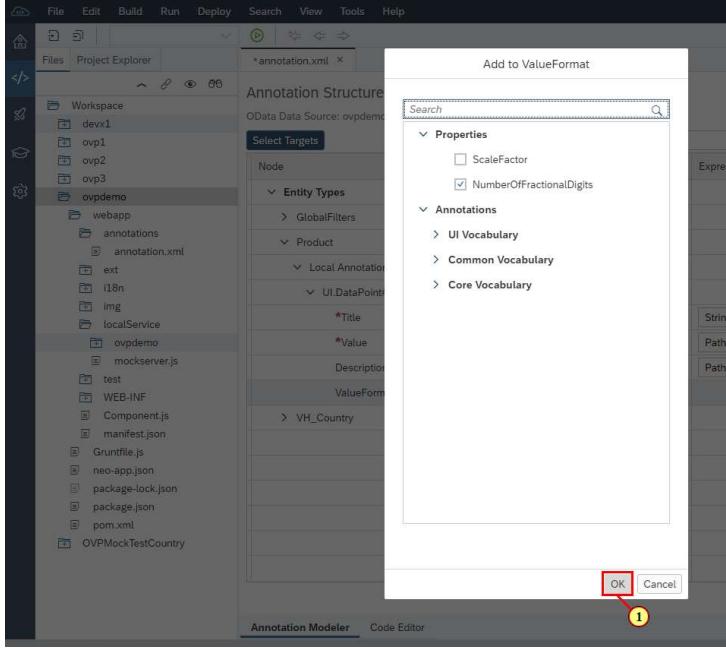
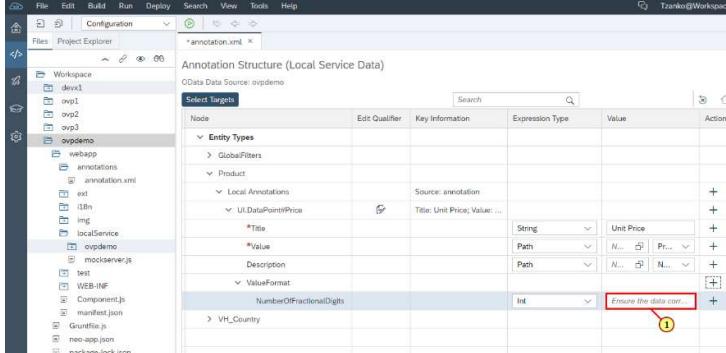
Explanation	Screenshot
(1) Select DataPoint.	
(1) Click 	
(1) Set a qualifier – “Price”. Click 	

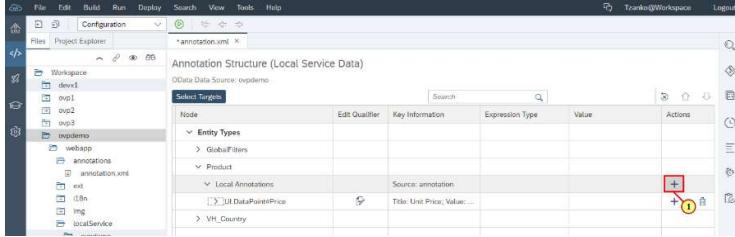
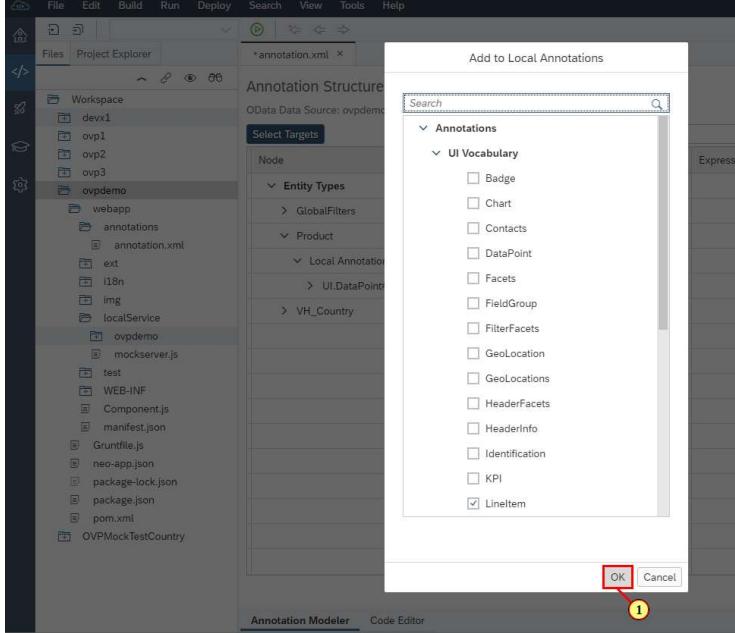
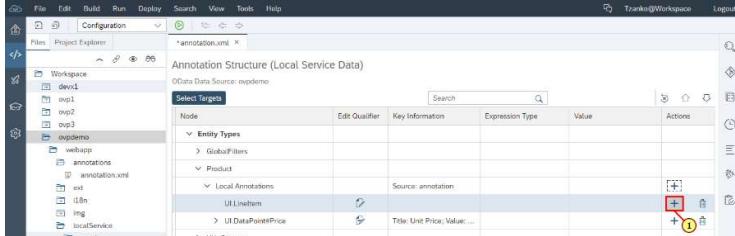
Explanation	Screenshot
(1) Set text "Price".	
(1) Click OK .	
(1) Set the Title to a String.	
(1) Enter "Cost Price".	

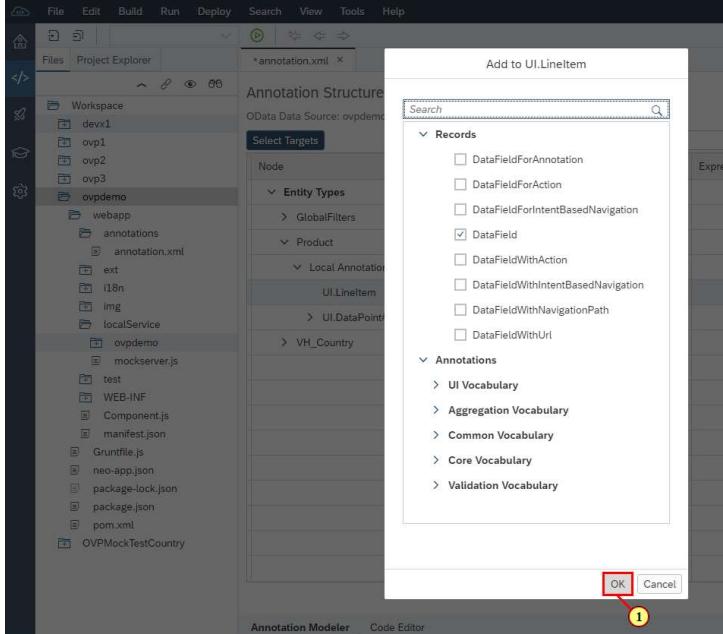
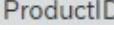
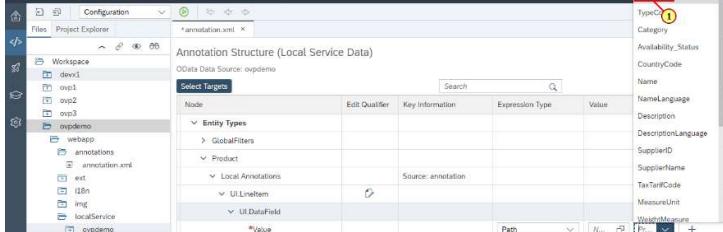
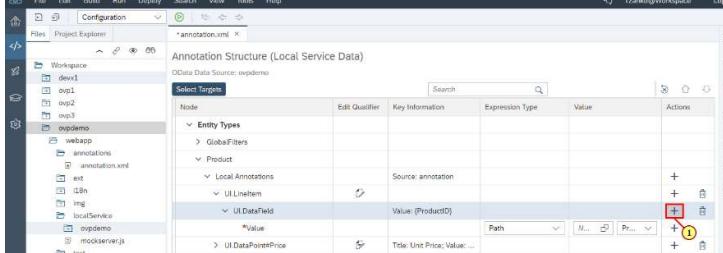
Explanation	Screenshot
(1) Set the Value to Path = <i>Price</i> . Click 	
(1) Select 	
(1) Let's add a Description. Select 	
(1) Select Description and Click 	 <p>Add to UI.DataPoint</p> <p>Properties</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Title * <input checked="" type="checkbox"/> Description <input type="checkbox"/> LongDescription <input checked="" type="checkbox"/> Value * <input type="checkbox"/> TargetValue <input type="checkbox"/> ForecastValue <input type="checkbox"/> MinimumValue <input type="checkbox"/> MaximumValue <input type="checkbox"/> ValueFormat <input type="checkbox"/> Visualization <input type="checkbox"/> SampleSize <input type="checkbox"/> ReferencePeriod <input type="checkbox"/> Criticality <input type="checkbox"/> CriticalityCalculation <input type="checkbox"/> Trend <p>OK Cancel</p>

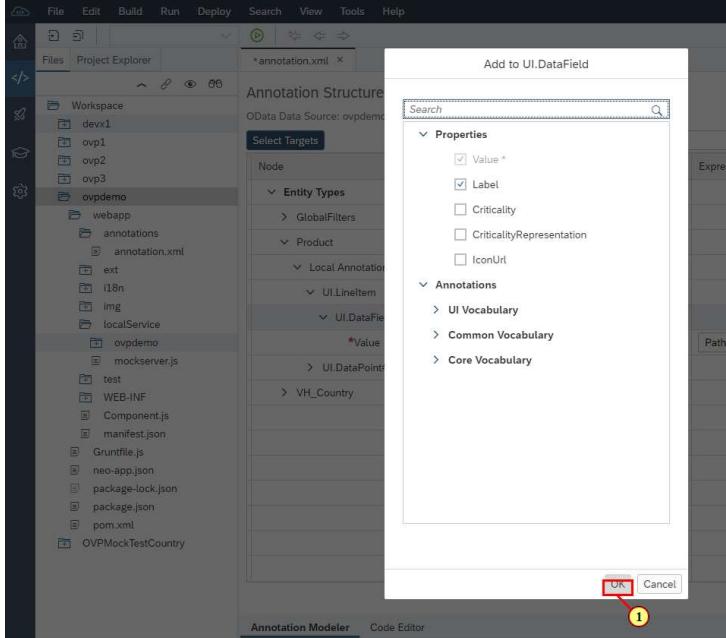
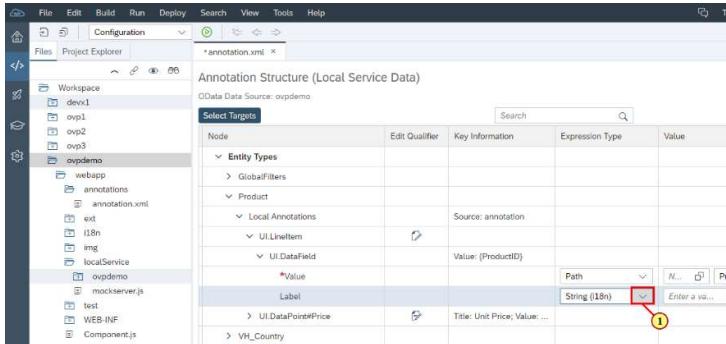
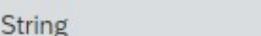
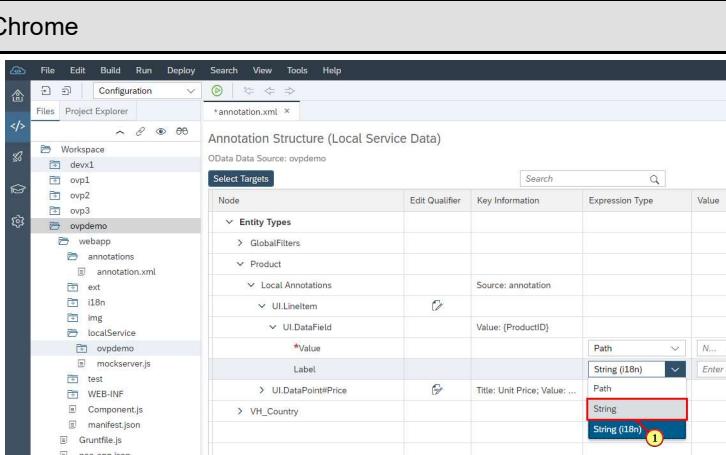
Explanation	Screenshot
(1) We will bind the Description to a property Path	 <p>The screenshot shows the SAP Fiori Elements annotation editor. In the left sidebar, under 'Annotations', there is a 'Local Annotations' section for 'UI.DataPoint#Price'. Under 'Value', the 'Expression Type' is set to 'Path' and the 'Value' field contains 'VH_Country'. A red box highlights the 'Path' dropdown, and a yellow circle with a question mark is on the 'Value' field.</p>
(1) Select 	 <p>The screenshot shows the SAP Fiori Elements annotation editor. In the left sidebar, under 'Annotations', there is a 'Local Annotations' section for 'UI.DataPoint#Price'. Under 'Value', the 'Expression Type' is set to 'Path' and the 'Value' field contains 'VH_Country'. A red box highlights the 'Path' dropdown, and a yellow circle with a question mark is on the 'Value' field.</p>
(1) Select property Name	 <p>The screenshot shows the SAP Fiori Elements annotation editor. In the left sidebar, under 'Annotations', there is a 'Local Annotations' section for 'UI.DataPoint#Price'. Under 'Value', the 'Expression Type' is set to 'Path' and the 'Value' field contains 'Name'. A red box highlights the 'Path' dropdown, and a yellow circle with a question mark is on the 'Value' field.</p>
(1) We will now add a value format to show the numbers with 1 fraction digit. Click 	 <p>The screenshot shows the SAP Fiori Elements annotation editor. In the left sidebar, under 'Annotations', there is a 'Local Annotations' section for 'UI.DataPoint#Price'. Under 'Value', the 'Expression Type' is set to 'Path' and the 'Value' field contains 'Name'. A red box highlights the 'Path' dropdown, and a yellow circle with a question mark is on the 'Value' field.</p>

Explanation	Screenshot
<p>(1) Select ValueFormat and Click OK</p> 	
<p>(1) Click +</p> 	

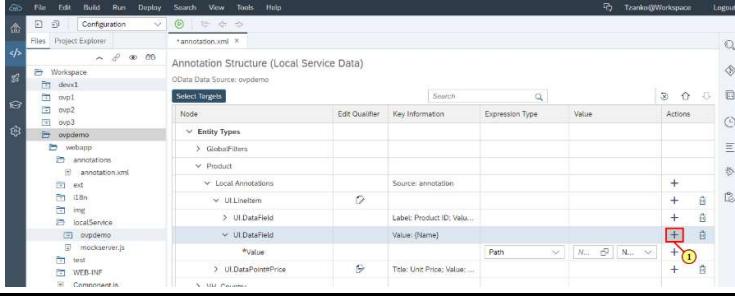
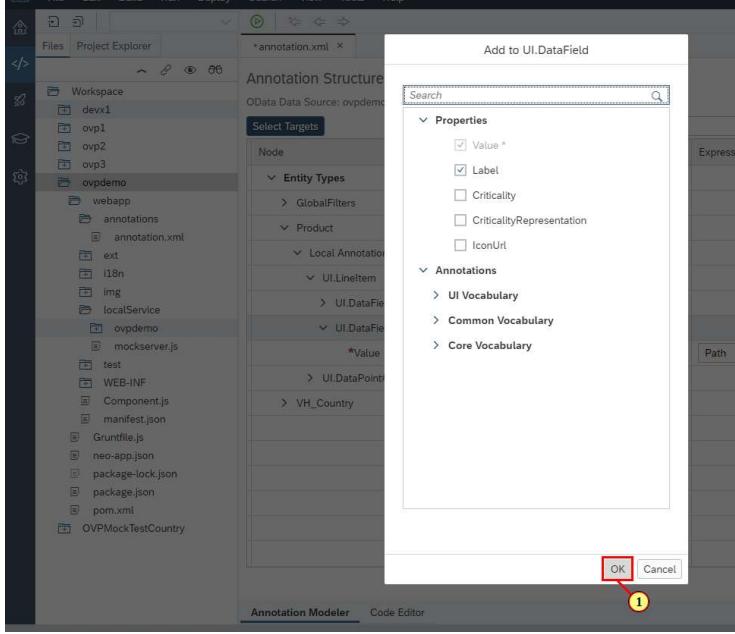
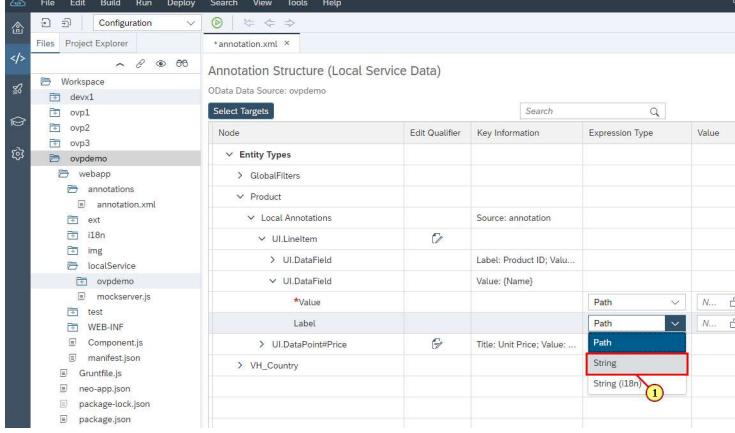
Explanation	Screenshot
<p>(1) Select NumberOfFractionDigits and Click .</p>	
<p>(1) Enter 1 as an integer.</p>	
<p>(1) Let's collapse the DataPoint definition to gain some space. Select .</p>	

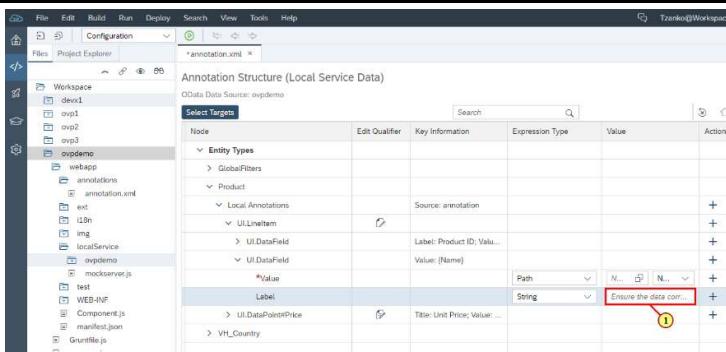
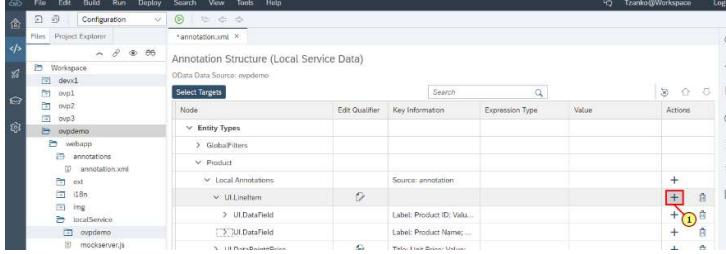
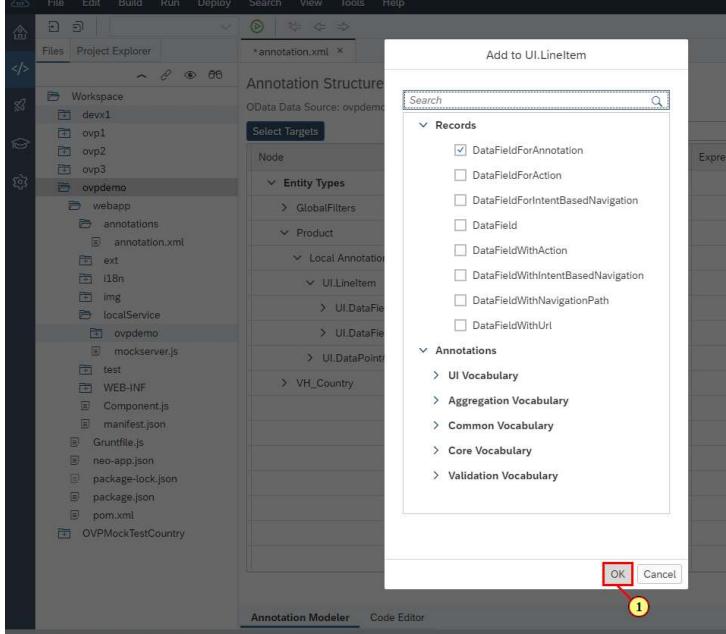
Explanation	Screenshot
<p>(1) Now let's add a LineItem and define the properties that shall be displayed in the List Card. Click </p>	
<p>(1) Select LineItem and Click </p>	
<p>(1) Now you will add 2 DataFields and one DataFieldForAnnotation. The latter will refer to the previously defined DataPoint#Price. Click </p>	

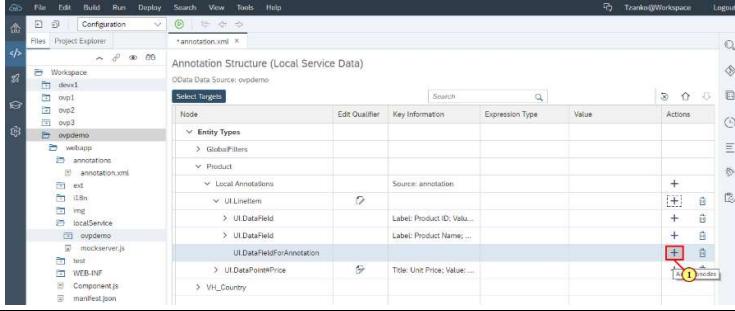
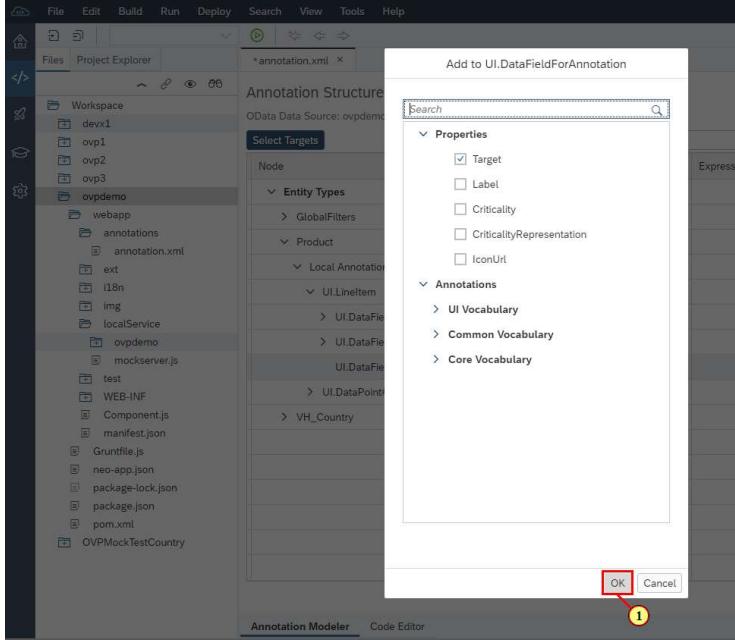
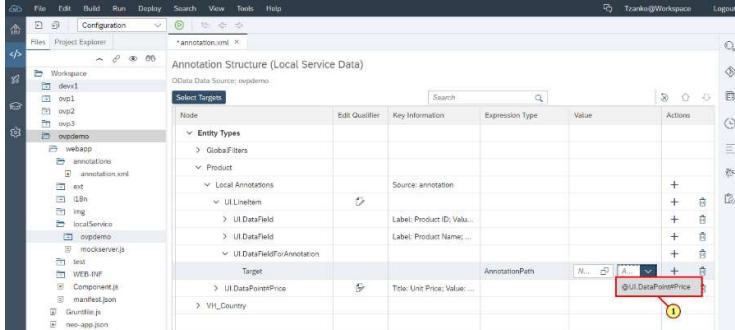
Explanation	Screenshot
(1) Select DataField and Click 	
(1) The value will be  (Path).	
(1) Add a Label. Click 	

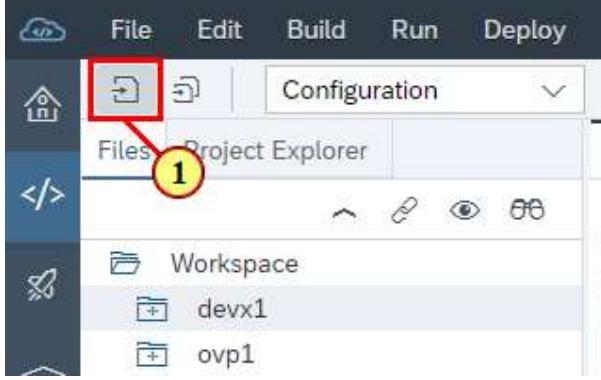
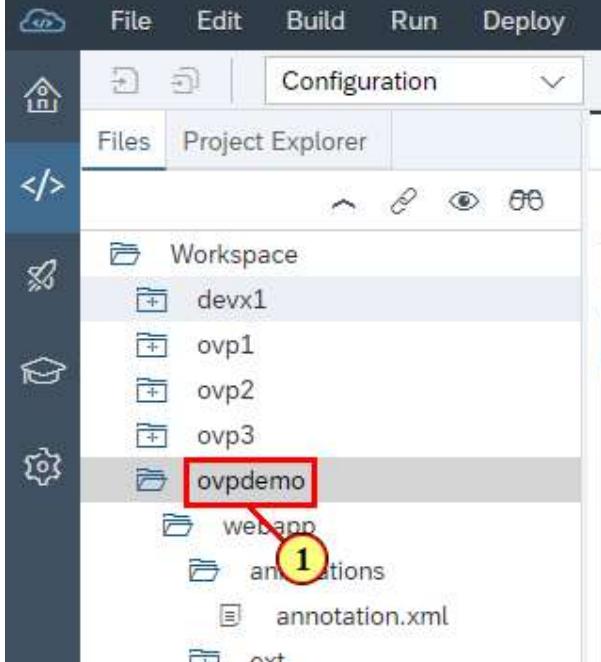
Explanation	Screenshot
(1) Click 	
(1) For simplicity we will use static Strings. Click 	
(1) Select 	

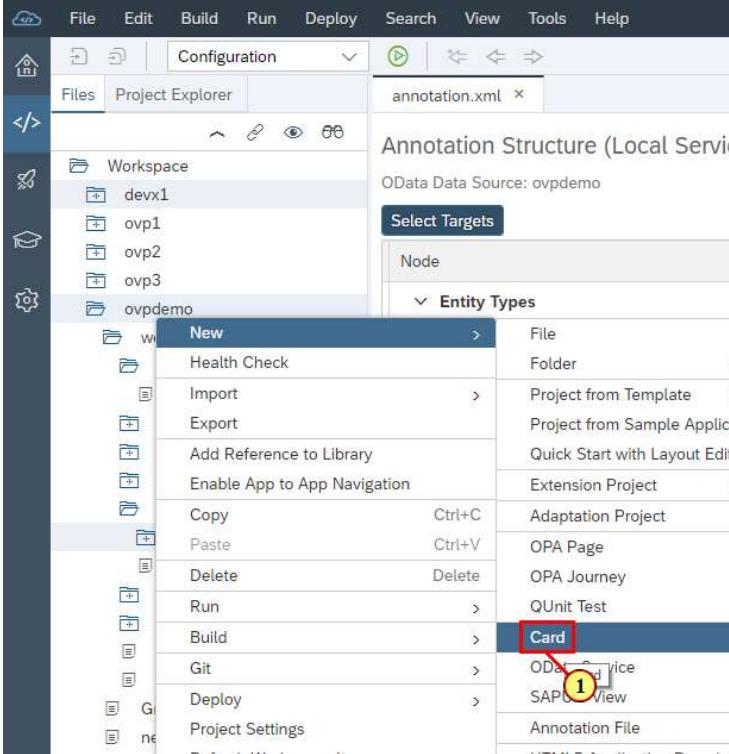
Explanation	Screenshot
(1) Enter "Product ID " as Label value.	
(1) Add the 2nd DataField. Click +	
(1) Click OK	
(1) Bind to Path = Name	

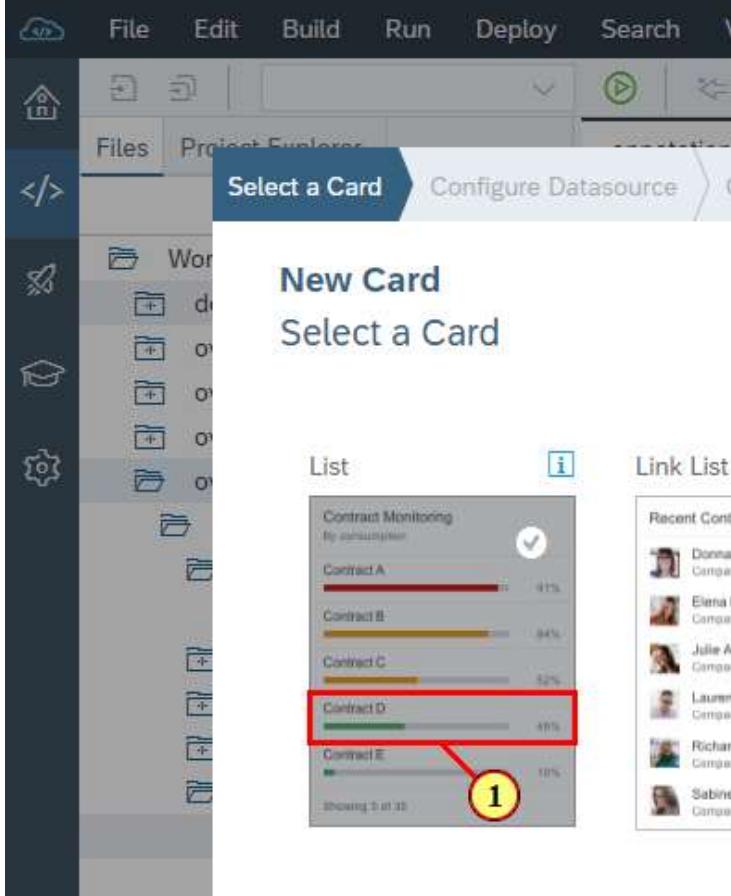
Explanation	Screenshot
(1) Add a Label. Click 	
(1) Select Label and Click 	
(1) The Label will be a String	

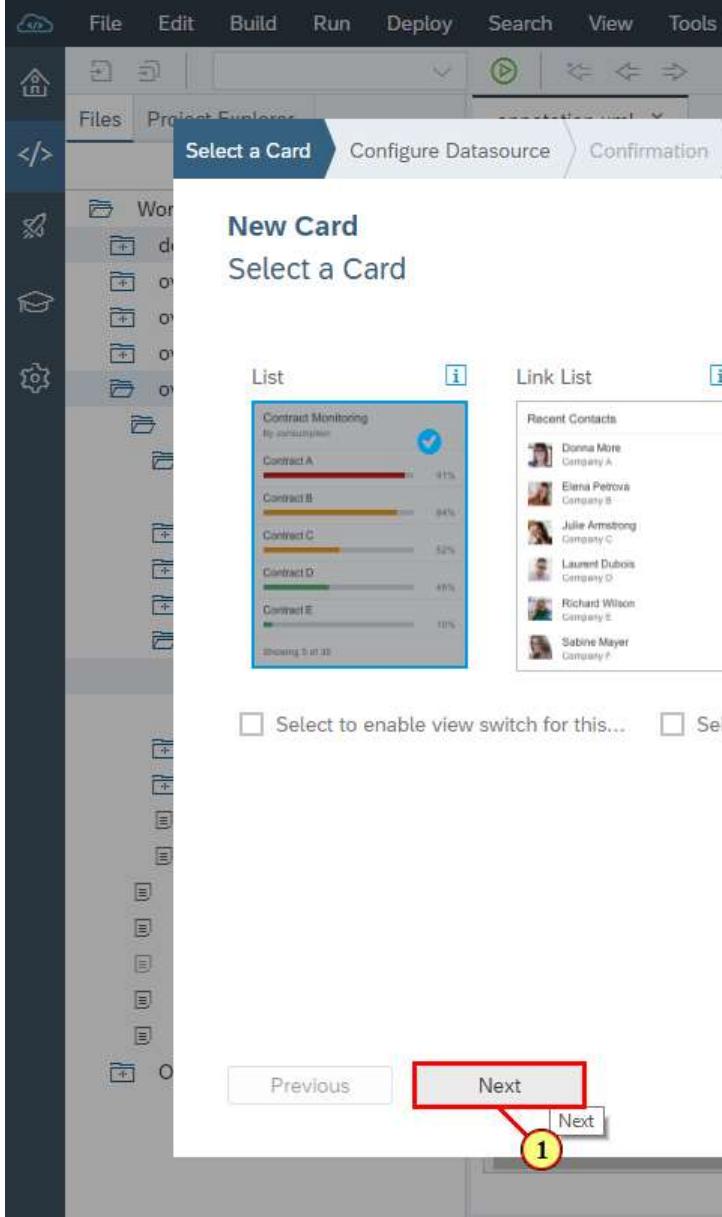
Explanation	Screenshot
(1) .. with value "Product Name"	 <p>The screenshot shows the SAP Fiori Elements Annotation Structure tool. A DataFieldForAnnotation entry is selected, with its value set to 'Product Name'. A red box highlights the 'Value' field, and a yellow circle with the number '1' is positioned near the bottom right of the interface.</p>
(1) Add a DataFieldForAnnotation. Click  .	 <p>The screenshot shows the same tool interface, but now a new DataFieldForAnnotation entry is being added under the UI.DataField section. A red box highlights the '+' button for adding a new row, and a yellow circle with the number '1' is near the bottom right.</p>
(1) Select DataFieldForAnnotation and Click  .	 <p>The screenshot shows the 'Add to UI.LineItem' dialog box. Under the 'Annotations' section, 'DataFieldForAnnotation' is selected and checked. The 'OK' button at the bottom right is highlighted with a red box and a yellow circle with the number '1'.</p>

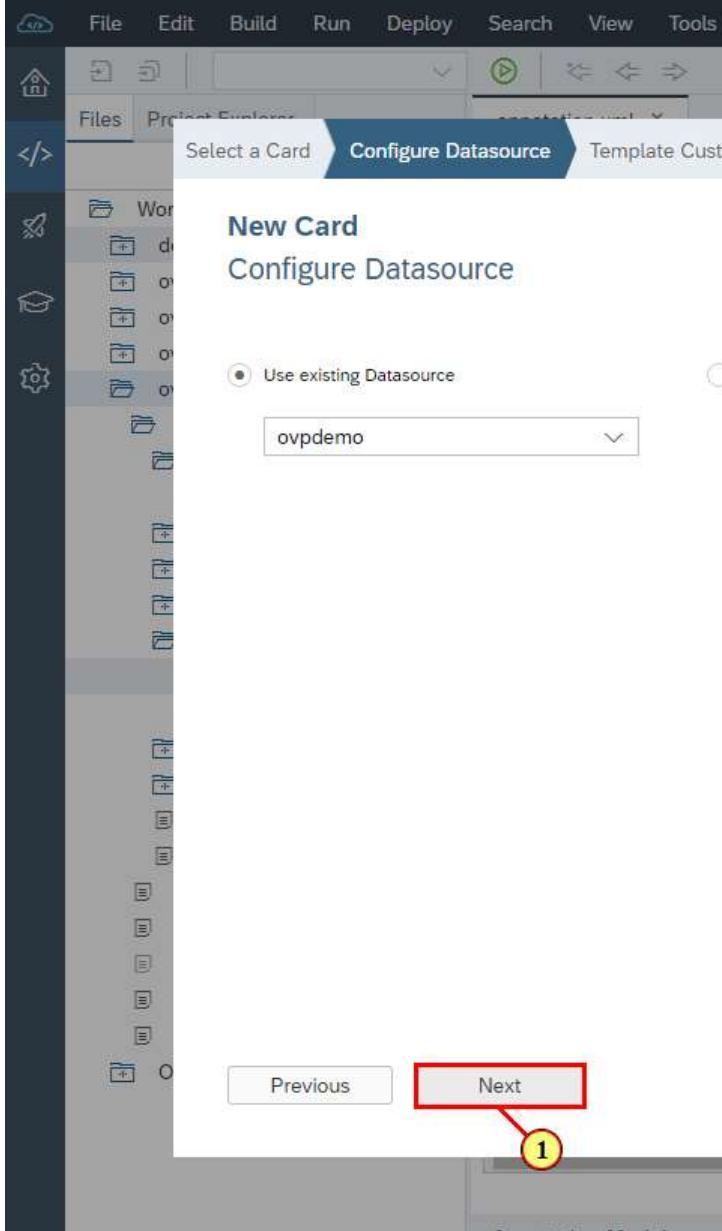
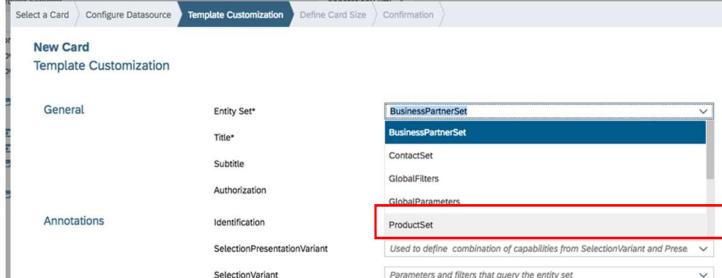
Explanation	Screenshot
(1) Add a Target to DataFieldForAnnotation 	 A screenshot of the SAP Fiori Elements annotation structure dialog. The 'Annotations' section shows a table with columns: Node, Edit Qualifier, Key Information, Expression Type, Value, and Actions. A new row is being added for 'UI.DataPointForAnnotation'. The 'Actions' column for this row contains a '+' button, which is highlighted with a red circle and a yellow number '1'.
(1) Select target and Click 	 A screenshot of the SAP Fiori Elements Annotation Modeler dialog. It shows a 'Select Targets' list and a properties panel. Under 'Annotations', 'UI.DataPointForAnnotation' is selected. The 'OK' button at the bottom right is highlighted with a red circle and a yellow number '1'.
(1) Map the target to the DataPoint we created earlier (with qualifier Price) 	 A screenshot of the SAP Fiori Elements annotation structure dialog. The 'Annotations' section shows the 'UI.DataPointForAnnotation' row. The 'Target' column has a dropdown menu with 'UI.DataPointForAnnotation' selected. The 'AnnotationPath' column contains the expression '@UI.DataPoint#Price', which is highlighted with a red circle and a yellow number '1'.

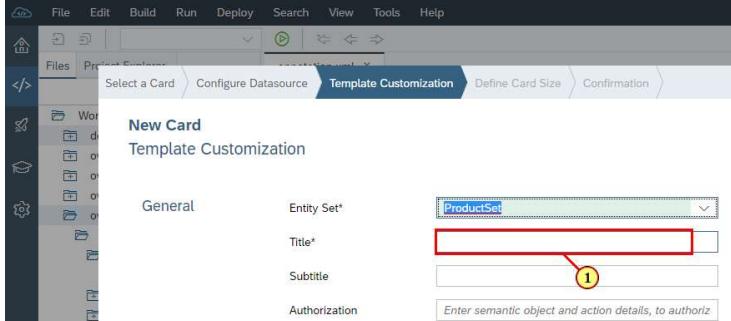
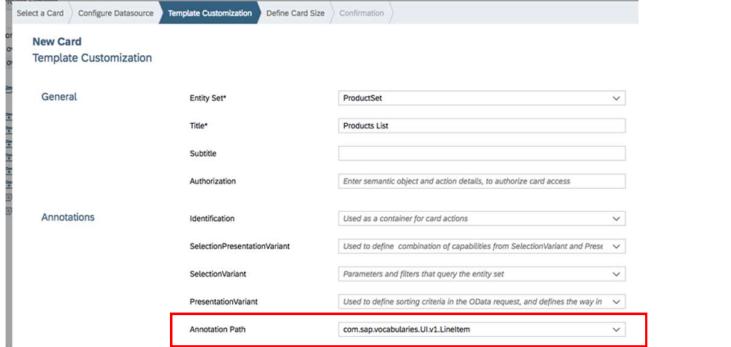
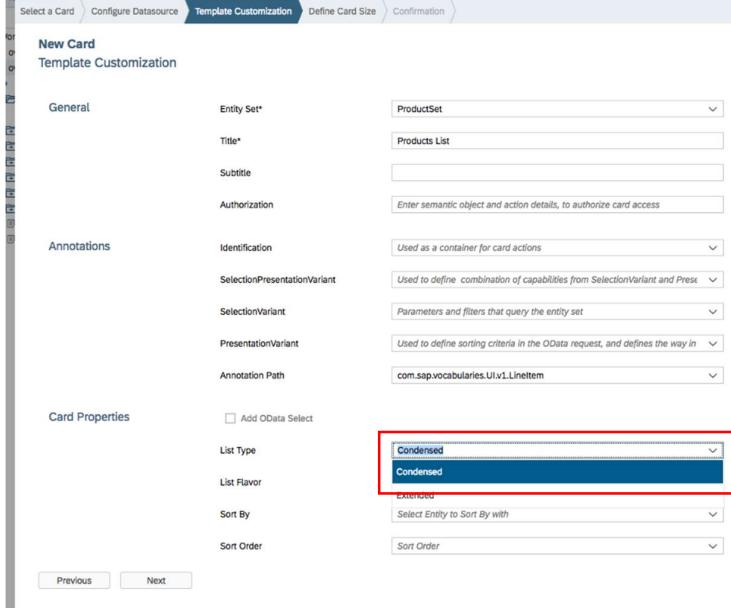
Explanation	Screenshot
(1) Save your settings.	
(1) Let's add our first Card. Right-Click on ovpdemo with the mouse opens a shortcut menu.	

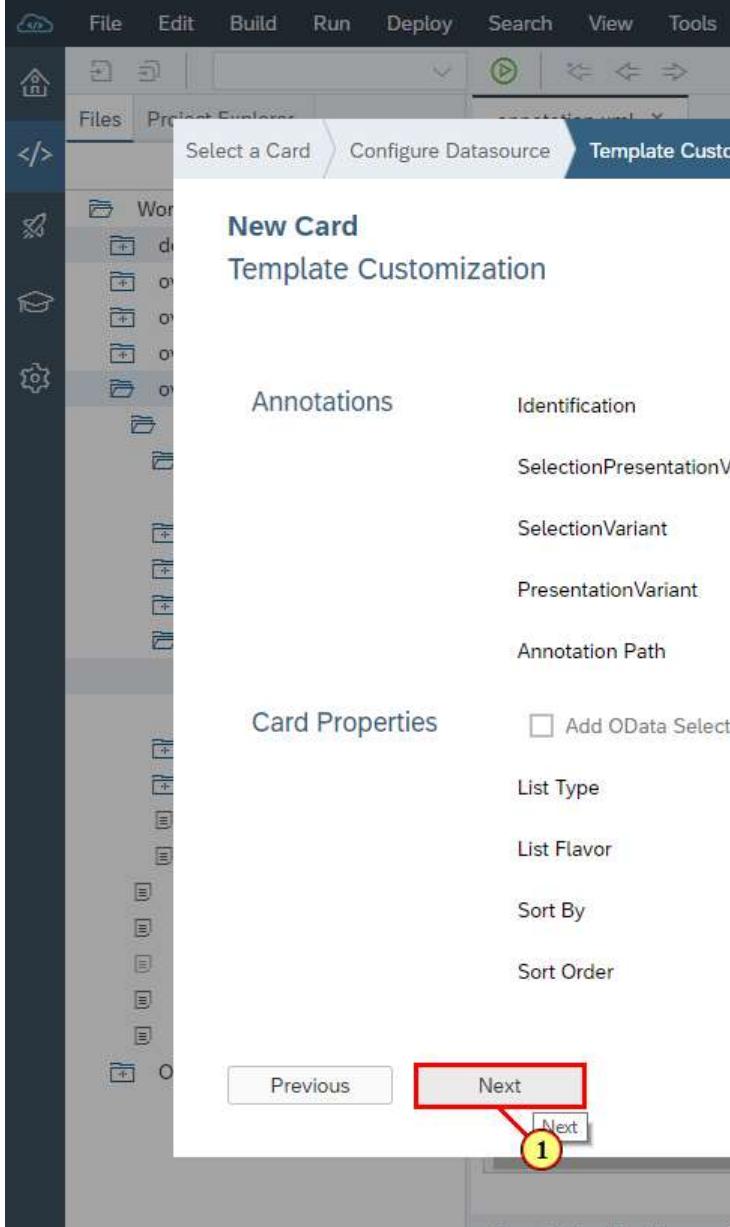
Explanation	Screenshot
(1) Select New -> Card	 <p>The screenshot shows the SAP Fiori Elementsession interface. In the center, there is a 'New' context menu open, listing various project creation options. The 'Card' option is highlighted with a red box and a yellow circle containing the number '1'.</p>

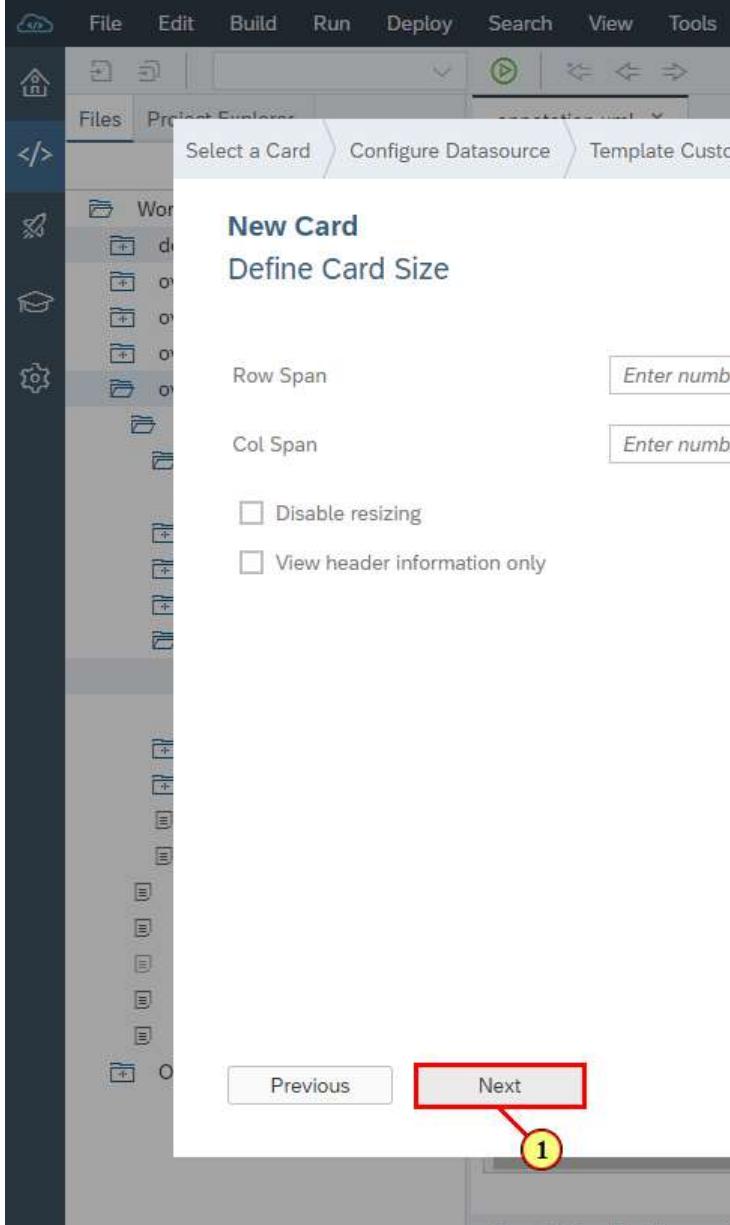
Explanation	Screenshot
(1) Select List card.	 <p>The screenshot shows the SAP Fiori Elementsession interface. At the top, there's a navigation bar with 'File', 'Edit', 'Build', 'Run', 'Deploy', 'Search', and other icons. Below it is a toolbar with icons for home, files, project explorer, and search. A central dialog box titled 'Select a Card' is open, displaying 'New Card' and 'Select a Card'. On the left, there's a sidebar with various icons. The main area shows a 'List' card titled 'Contract Monitoring' with five entries: Contract A (91%), Contract B (94%), Contract C (42%), Contract D (48%, highlighted with a red box), and Contract E (10%). A yellow circle with the number '1' points to the 'Contract D' entry. To the right, there's a 'Link List' section showing recent contacts like Donna, Elena, Julie, Lauren, Richard, and Sabine.</p>

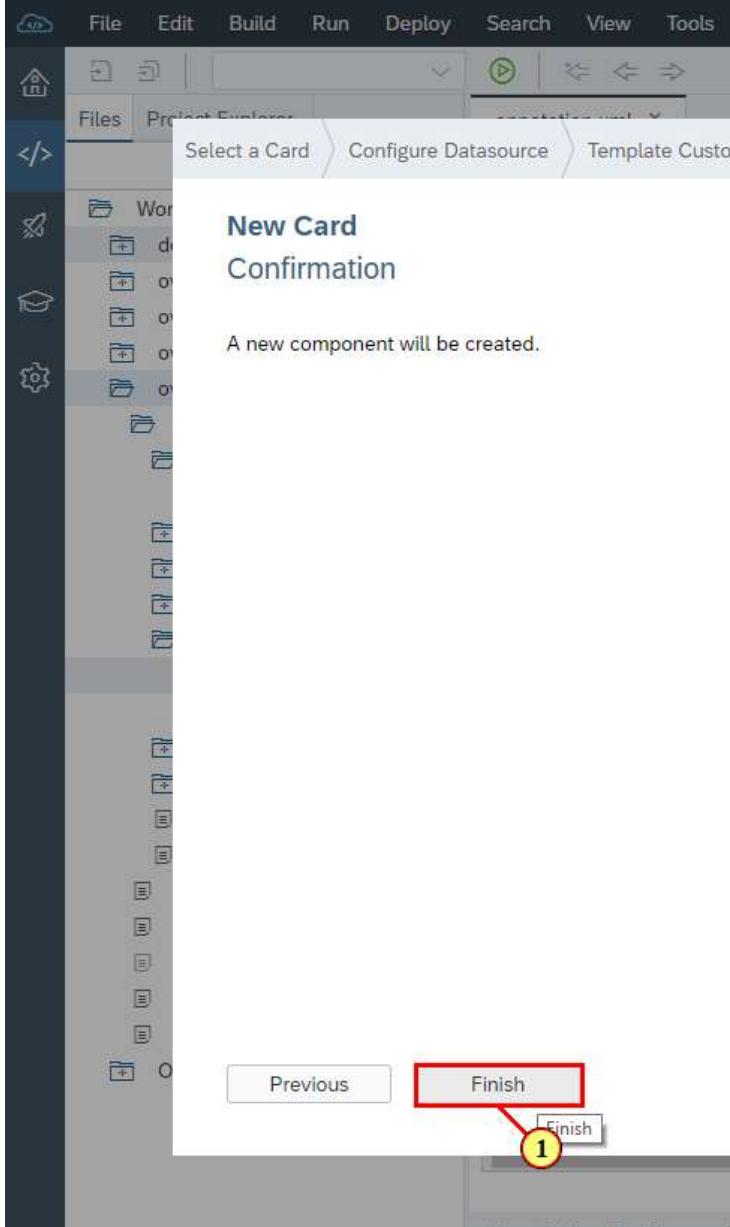
Explanation	Screenshot
(1) Click Next	 <p>The screenshot shows the SAP Fiori Elementsession interface. The top navigation bar includes File, Edit, Build, Run, Deploy, Search, View, and Tools. Below the navigation is a toolbar with icons for home, files, project explorer, and search. The main area is titled 'Select a Card' with a sub-section 'New Card'. A 'List' section displays five contracts with progress bars: Contract A (91%), Contract B (94%), Contract C (52%), Contract D (48%), and Contract E (10%). To the right is a 'Link List' titled 'Recent Contacts' showing six entries: Donna More (Company A), Elena Petrova (Company B), Julie Armstrong (Company C), Laurent Dubois (Company D), Richard Wilson (Company E), and Sabine Mayer (Company F). At the bottom, there are 'Previous' and 'Next' buttons, with 'Next' being highlighted by a red box and circled with a yellow number 1.</p>

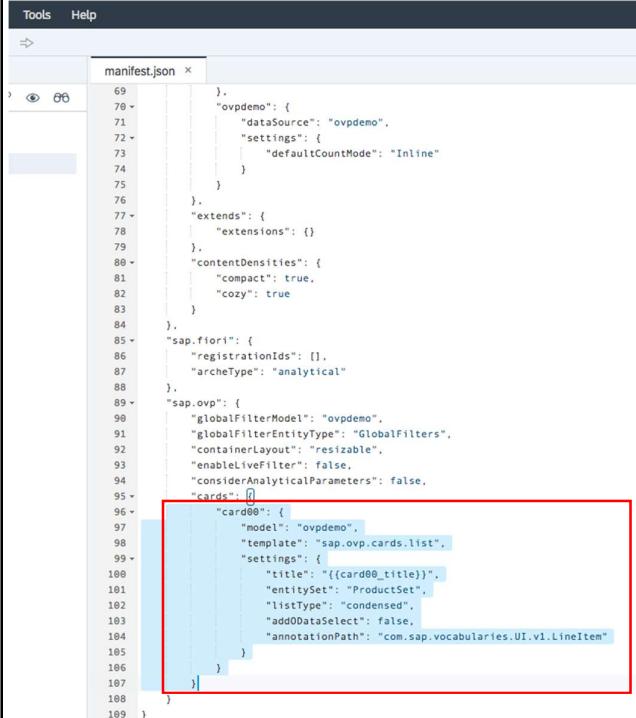
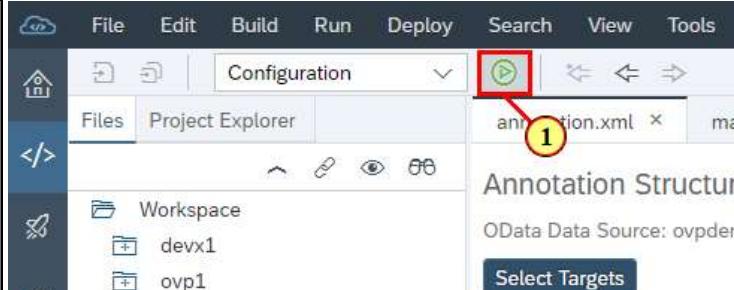
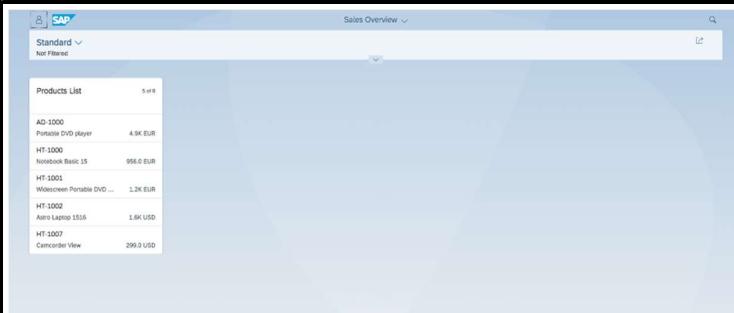
Explanation	Screenshot
(1) Click Next	
(1) Select ProductSet as card's Entity Set.	

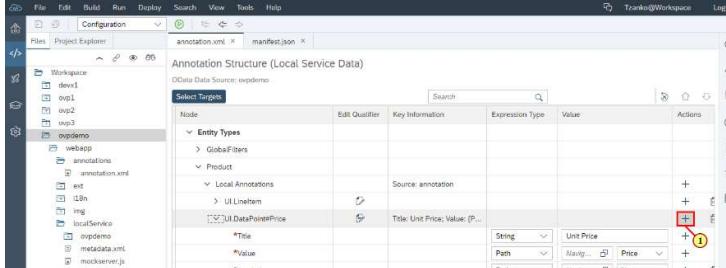
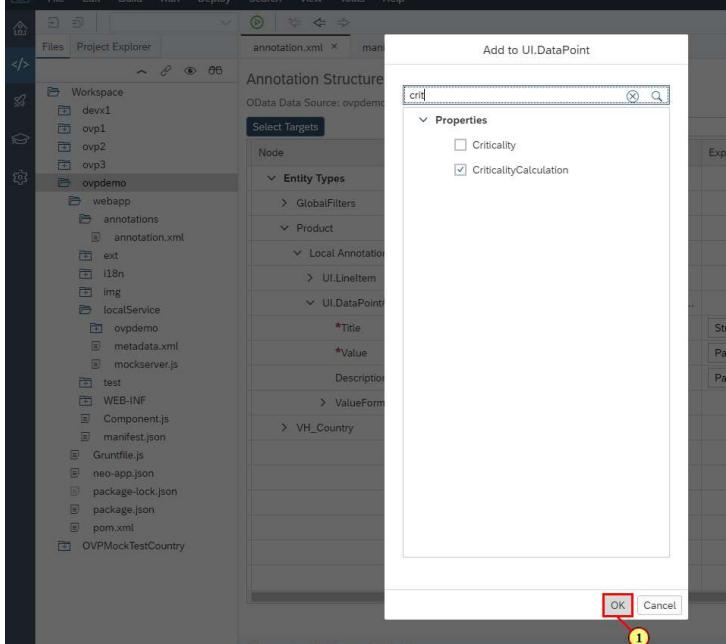
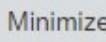
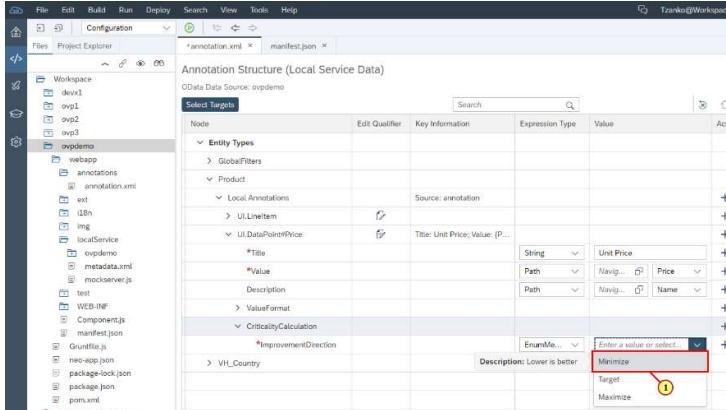
Explanation	Screenshot
(1) Enter "Products List" as Title.	
The LineItem annotation created is shown in the Annotation Path	
<p>(1) Scroll further down to find additional customization options for the list card, the List Type shall be Condensed</p>	

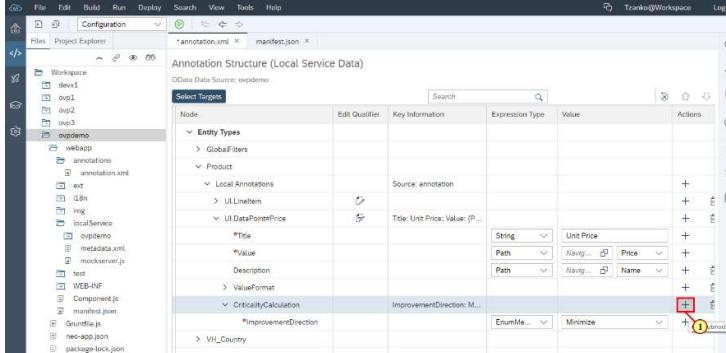
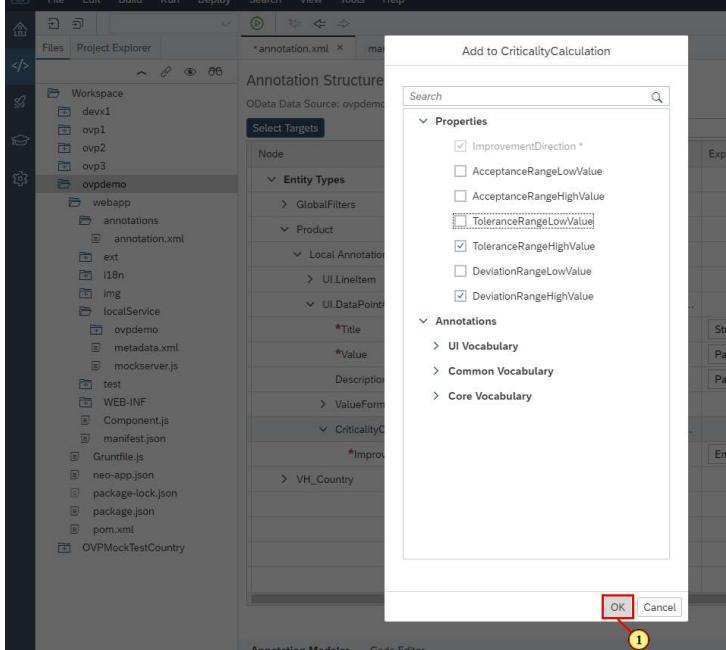
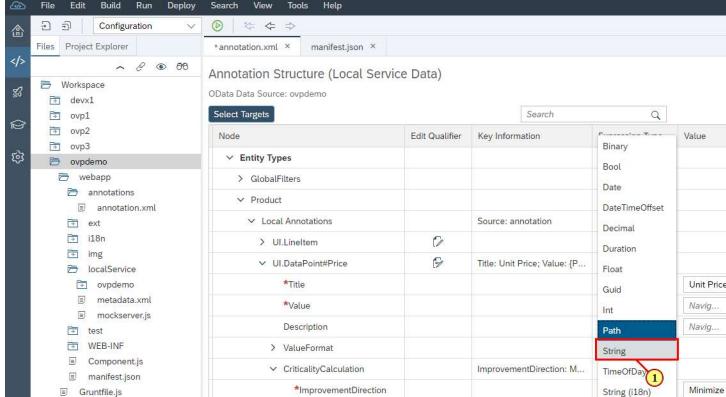
Explanation	Screenshot
(1) Click Next	 <p>The screenshot shows the SAP Fiori Elementsession interface. The top navigation bar includes File, Edit, Build, Run, Deploy, Search, View, and Tools. Below the navigation is a toolbar with icons for home, files, project explorer, and search. The main area is titled "New Card" under "Template Customization". It displays several configuration sections: Annotations, Identification, SelectionPresentationVariant, SelectionVariant, PresentationVariant, Annotation Path, Card Properties, Add OData Select (checkbox), List Type, List Flavor, Sort By, and Sort Order. At the bottom, there are "Previous" and "Next" buttons, with the "Next" button being the one highlighted by a red box and a yellow circle containing the number 1.</p>

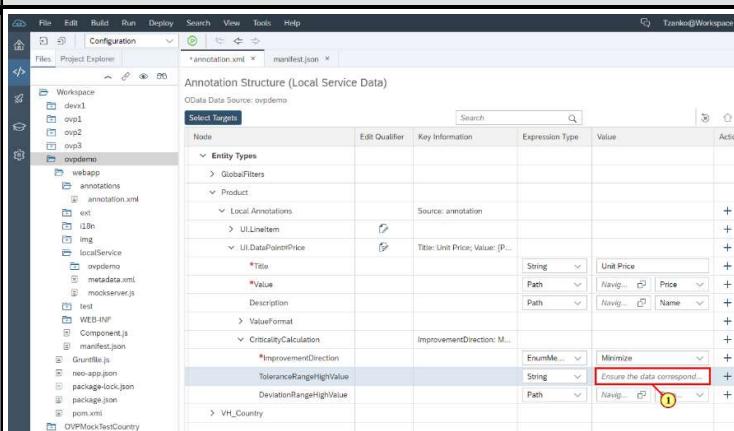
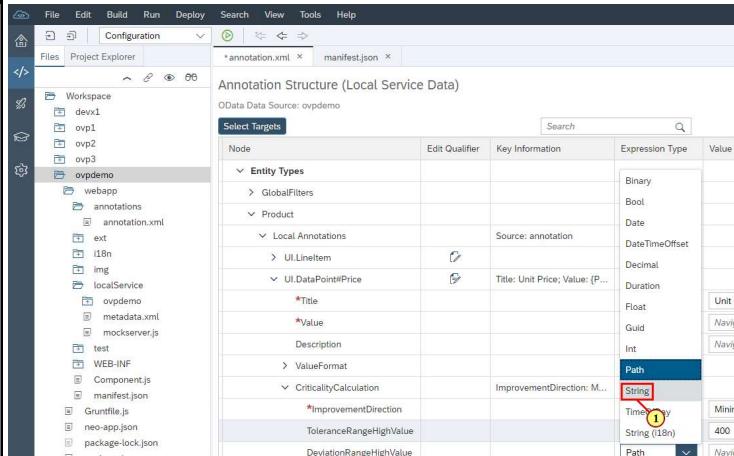
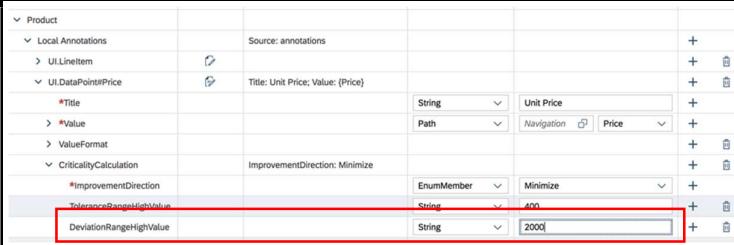
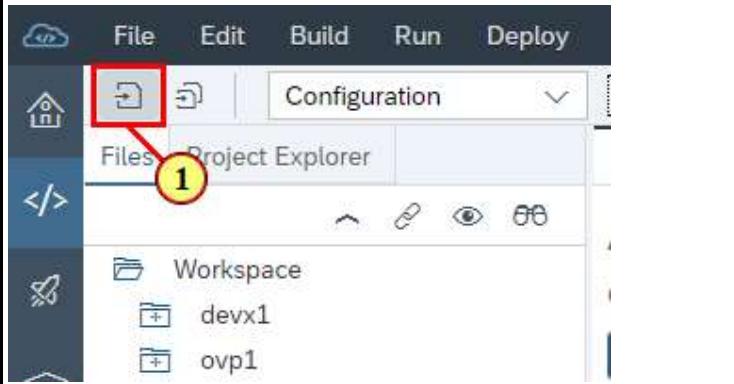
Explanation	Screenshot
(1) Click Next	 <p>The screenshot shows the SAP Fiori Elementsession interface. A central dialog box is open, titled "New Card" with the sub-section "Define Card Size". The dialog contains several input fields and checkboxes:</p> <ul style="list-style-type: none">"Row Span" with an input field "Enter number...""Col Span" with an input field "Enter number..."<input type="checkbox"/> "Disable resizing"<input type="checkbox"/> "View header information only" <p>At the bottom of the dialog, there are "Previous" and "Next" buttons. The "Next" button is highlighted with a red box and a yellow circle containing the number 1, indicating it is the next step in the process.</p>

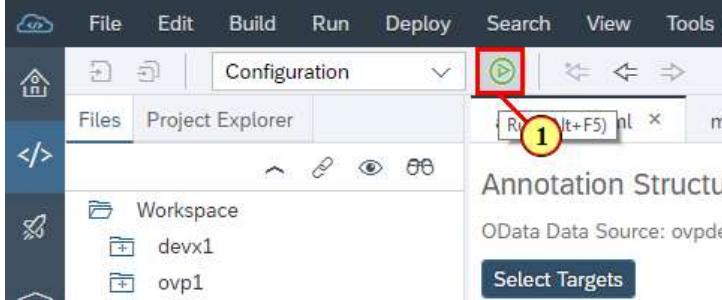
Explanation	Screenshot
(1) Click Finish .	 <p>The screenshot shows the SAP Fiori Elementsession interface. A confirmation dialog box is centered on the screen with the title "New Card Confirmation". The message inside the box reads "A new component will be created." At the bottom of the dialog, there are two buttons: "Previous" and "Finish". The "Finish" button is highlighted with a red rectangular box and a yellow circle containing the number "1", indicating it is the target for the first step in the process.</p>

Explanation	Screenshot																		
(1) Open the manifest.json and take note of the new entry under cards created by the card creation wizard.	 <pre data-bbox="605 276 1241 994"> ... "sap.fiori": { "registrationIds": [], "archetype": "analytical" }, "sap.ovp": { "globalFilterModel": "ovpdemo", "globalFilterEntityType": "GlobalFilters", "containerLayout": "resizable", "enableLiveFilter": false, "considerAnalyticalParameters": false, "cards": ["card00": { "model": "ovpdemo", "template": "sap.ovp.cards.list", "settings": { "title": "{{card00_title}}", "entitySet": "ProductSet", "listType": "condensed", "addDataSelect": false, "annotationPath": "com.sap.vocabularies.UI.v1.LineItem" } }] } } ... } </pre>																		
(1) Run the app. 	 <p>Annotation Structure OData Data Source: ovpdemo Select Targets</p>																		
Congratulations! You have successfully created your first OVP card. It is somewhat boring so we will add some color to it.	 <table border="1"> <thead> <tr> <th>Product ID</th> <th>Product Name</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>AD-1000</td> <td>Portable DVD player</td> <td>499 EUR</td> </tr> <tr> <td>HT-1000</td> <td>Notebook Basic 15</td> <td>999.0 EUR</td> </tr> <tr> <td>HT-1001</td> <td>Wireless Portable DVD ...</td> <td>12K EUR</td> </tr> <tr> <td>HT-1002</td> <td>Alto Laptop 1556</td> <td>1.6K USD</td> </tr> <tr> <td>HT-1007</td> <td>Concorde New</td> <td>299.0 USD</td> </tr> </tbody> </table>	Product ID	Product Name	Price	AD-1000	Portable DVD player	499 EUR	HT-1000	Notebook Basic 15	999.0 EUR	HT-1001	Wireless Portable DVD ...	12K EUR	HT-1002	Alto Laptop 1556	1.6K USD	HT-1007	Concorde New	299.0 USD
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Explanation	Screenshot
<p>(1) Next you will add a CriticalityCalculation that will color of the Price based on thresholds. Go back to the annotation file and Add a new annotation to the DataPoint#Price.</p> 	 <p>The screenshot shows the SAP Fiori Elements Annotation Structure tool. In the left sidebar, under 'annotation.xml', there is a section for 'UI.DataPoint#Price'. A new annotation is being added, specifically 'Title: Unit Price; Value: (P...'. The 'Value' field is set to 'Unit Price' with a dropdown menu open. A red box highlights the '+' button next to the dropdown, and a yellow circle with the number '1' is placed near it.</p>
<p>(1) Select CriticalityCalculation and Click </p>	 <p>The screenshot shows the 'Add to UI.DataPoint' dialog box. Under the 'Properties' section, the 'CriticalityCalculation' checkbox is selected. At the bottom right of the dialog, there is an 'OK' button with a red box around it and a yellow circle with the number '1' placed near it.</p>
<p>(1) The ImprovementDirection will be </p>	 <p>The screenshot shows the SAP Fiori Elements Annotation Structure tool. In the 'ValueFormat' section, there is a dropdown menu for 'ImprovementDirection' with the value 'Minimize' selected. A red box highlights the dropdown menu, and a yellow circle with the number '1' is placed near it.</p>

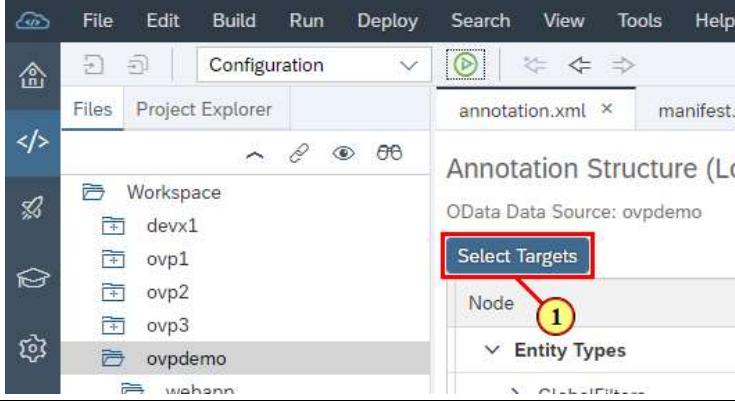
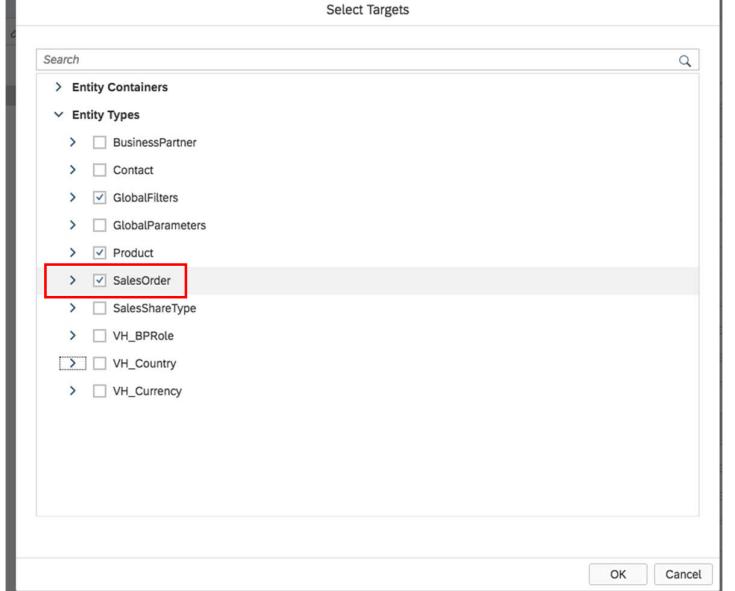
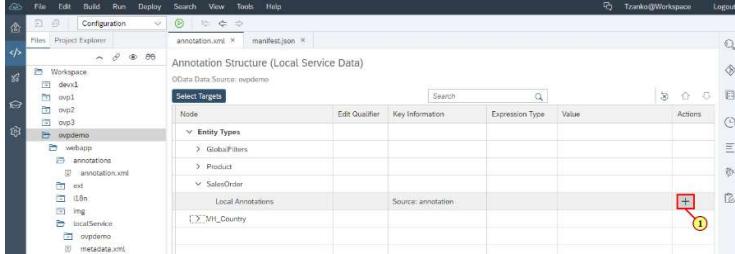
Explanation	Screenshot
(1) Within the CriticalityCalculation you will define the thresholds.	
(1) Select DeviationRangeHighValue and ToleranceRangeHighValue and Click OK.	
(1) Change the Expression type of ToleranceRangeHighValue to a String.	

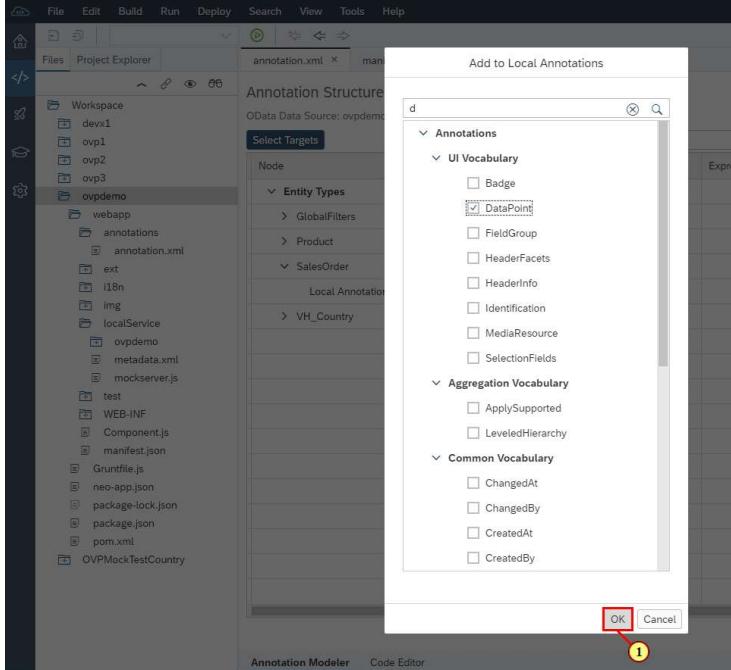
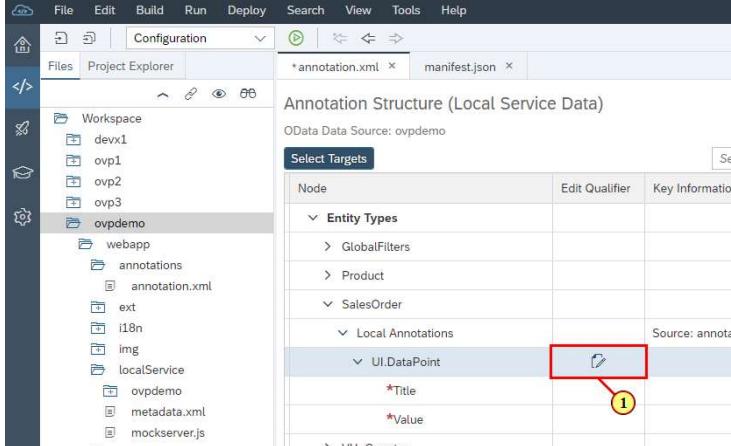
Explanation	Screenshot
(1) ToleranceRangeHighValue(String)=400.	 <p>The screenshot shows the SAP Fiori Elements annotation structure editor. In the 'Entity Types' section, under 'Product', there is a 'Local Annotations' entry for 'UI.DataPointPrice'. Under this entry, the 'Title' field is set to 'Unit Price; Value: (P...)' and the 'Value' field is set to 'Path'. The 'ImprovementDirection' is set to 'Minimize'. The 'ToleranceRangeHighValue' field is highlighted and has its expression type set to 'String'. A tooltip 'Ensure the data corresponds' is visible next to the 'String' dropdown. The 'DeviationRangeHighValue' field is also present but not highlighted.</p>
(1) Change the Expression type of DeviationRangeHighValue to a String.	 <p>The screenshot shows the SAP Fiori Elements annotation structure editor. The 'DeviationRangeHighValue' field's expression type is now set to 'String', indicated by a red box around the 'String' dropdown in the 'Value' column. The 'ToleranceRangeHighValue' field's expression type is still set to 'Path'.</p>
(1) DeviationRangeHighValue(String)=2000	 <p>The screenshot shows the SAP Fiori Elements annotation structure editor. The 'DeviationRangeHighValue' field's value is now set to '2000', indicated by a red box around the '2000' input field in the 'Value' column. The 'ToleranceRangeHighValue' field's value is still set to '400'.</p>
(1) Save your changes.	 <p>The screenshot shows the SAP Fiori Elements configuration interface. The 'File' menu is open, and the 'Save' icon (represented by a floppy disk) is highlighted with a red box. A yellow circle with the number '1' is placed over the 'Save' icon.</p>

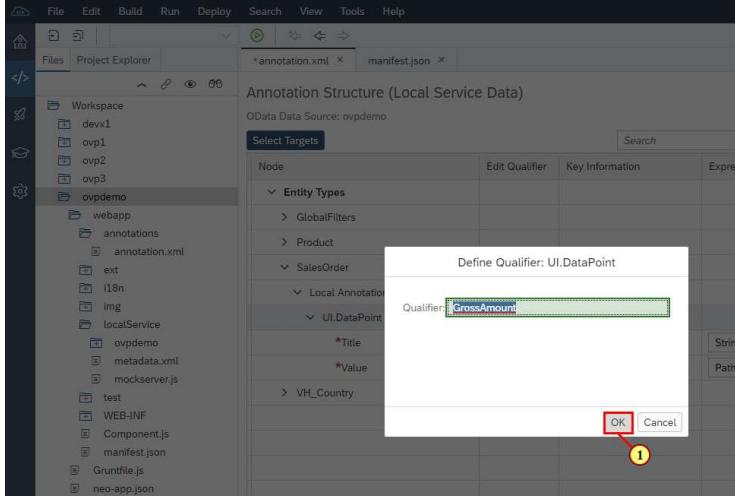
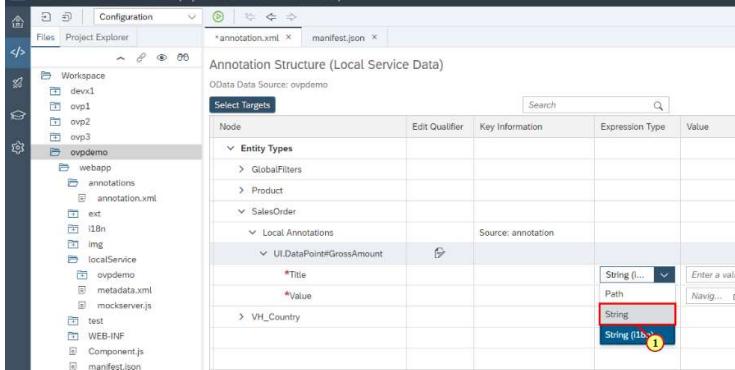
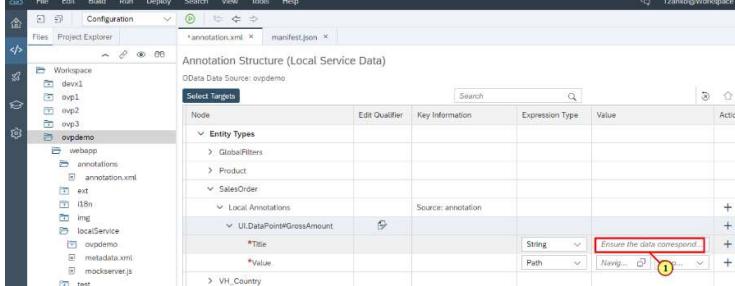
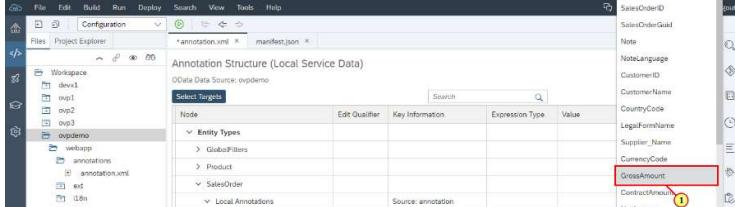
Explanation	Screenshot																		
(1) Run the app.	 <p>The screenshot shows the SAP Fiori Elementsession interface. The toolbar at the top has a green play button icon highlighted by a red box. Below the toolbar is a menu bar with File, Edit, Build, Run, Deploy, Search, View, and Tools. A dropdown menu labeled 'Configuration' is open. To the right of the toolbar is a search bar with the placeholder 'Search' and a magnifying glass icon. Below the search bar is a button labeled 'Run (Alt+F5)' with a yellow circle containing the number 1. The main workspace shows a 'Workspace' section with two projects: 'devx1' and 'ovp1'. The status bar at the bottom right shows 'Annotation Structure' and 'OData Data Source: ovpder'.</p>																		
<p>Your first card is now done. Take a note of the different semantic colors of the Price (based on its value).</p>	 <p>The screenshot shows the SAP Fiori Sales Overview application. The page title is 'Sales Overview'. On the left, there is a navigation bar with 'Standard' and 'Not Filtered' options. The main content area is titled 'Products List' and shows a table with the following data:</p> <table border="1"> <thead> <tr> <th>Product ID</th> <th>Product Name</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>AD-1000</td> <td>Portable DVD player</td> <td>4.9K EUR</td> </tr> <tr> <td>HT-1000</td> <td>Notebook Basic 15</td> <td>998.0 EUR</td> </tr> <tr> <td>HT-1001</td> <td>Widescreen Portable DVD ...</td> <td>1.2K EUR</td> </tr> <tr> <td>HT-1002</td> <td>Astro Laptop 1516</td> <td>1.8K USD</td> </tr> <tr> <td>HT-1007</td> <td>Camcorder View</td> <td>299.0 USD</td> </tr> </tbody> </table>	Product ID	Product Name	Price	AD-1000	Portable DVD player	4.9K EUR	HT-1000	Notebook Basic 15	998.0 EUR	HT-1001	Widescreen Portable DVD ...	1.2K EUR	HT-1002	Astro Laptop 1516	1.8K USD	HT-1007	Camcorder View	299.0 USD
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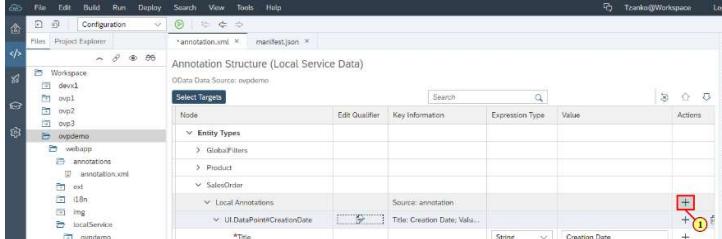
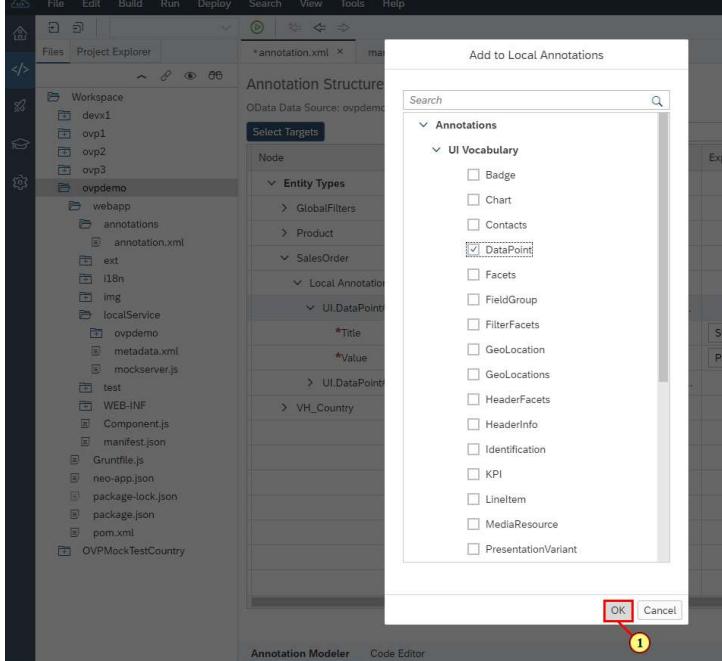
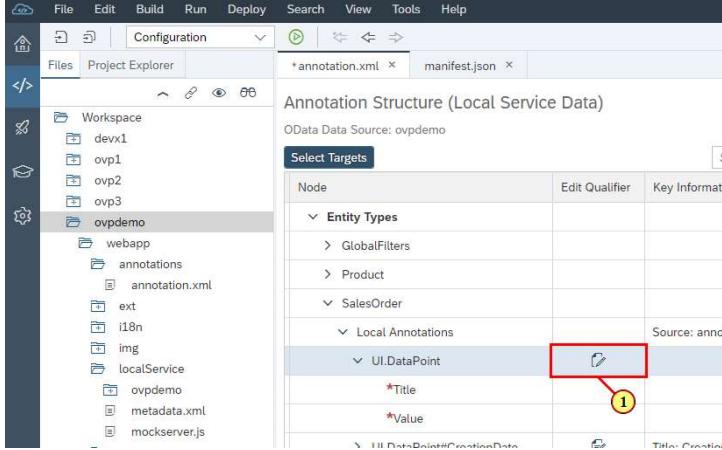
4. Create a Table Card

In this chapter you will create a Table Card visualizing data from SalesOrder entity. First we will create the basic annotations and then generate a new card. We will improve the usefulness of the card by adding a quick view with additional details regarding the partner who created the order. To do so we will annotate the BusinessPartner entity with Contact annotation.

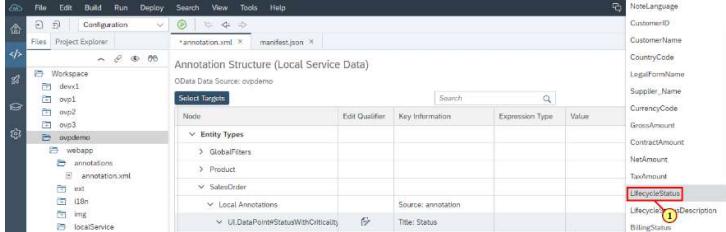
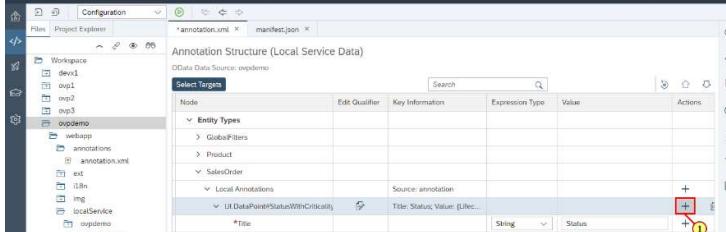
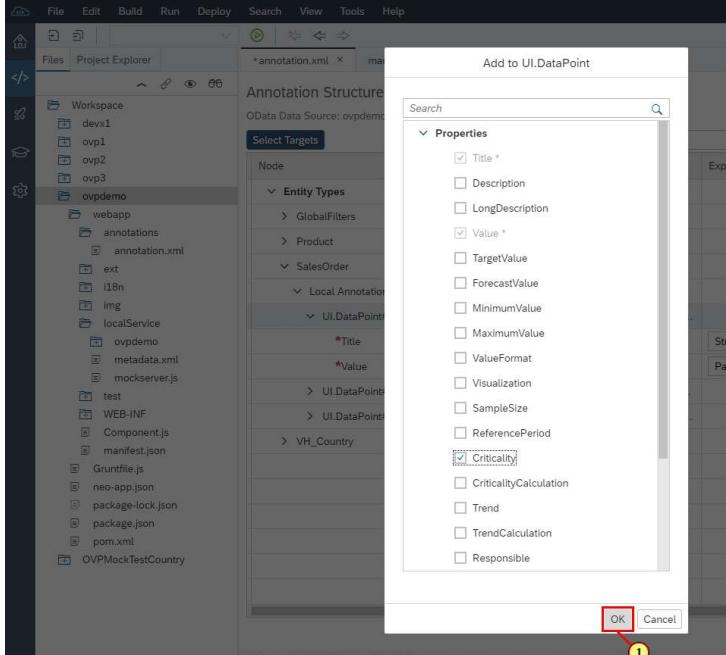
Explanation	Screenshot
<p>(1) Let's annotate the SalesOrder with 3 DataPoints and a LineItem for the table content. Go to your annotation file and Click Select Targets</p>	
<p>(1) Select SalesOrder and Click OK</p>	
<p>(1) Add a <i>DataPoint</i> +</p>	

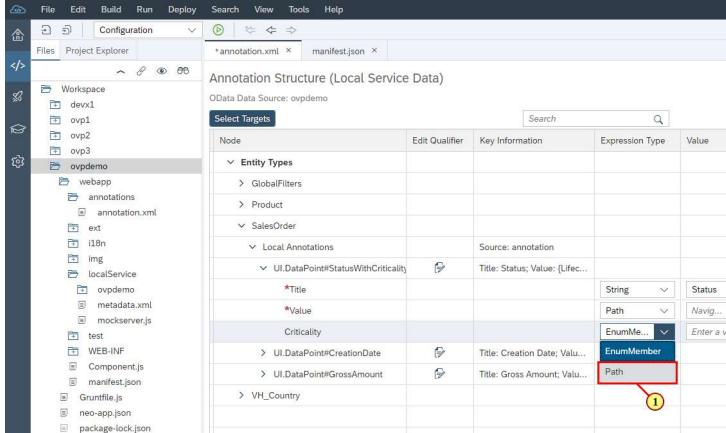
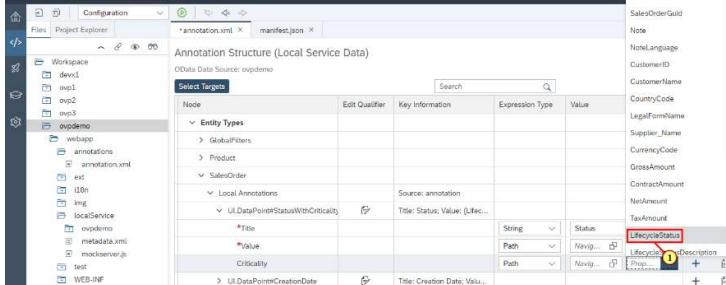
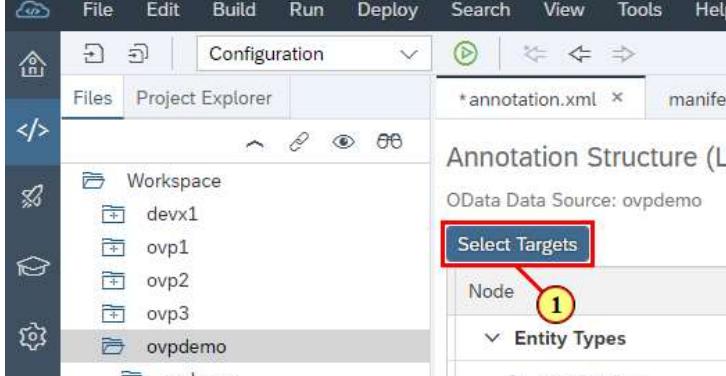
Explanation	Screenshot
(1) Select DataPoint and Click OK	 <p>The screenshot shows the SAP Fiori Elements Annotation Modeler interface. A dialog box titled 'Add to Local Annotations' is open over the main workspace. In the dialog, under the 'Annotations' section, the 'DataPoint' option is checked. At the bottom right of the dialog, there are 'OK' and 'Cancel' buttons, with 'OK' being highlighted by a red box and a yellow circle containing the number 1.</p>
(1) Set qualifier to GrossAmount.	 <p>The screenshot shows the SAP Fiori Elements Configuration interface. The 'annotation.xml' file is open in the editor. In the 'Local Annotations' section of the annotation structure, there is a row for 'UI.DataPoint'. The 'Value' field in this row is selected and highlighted with a red box and a yellow circle containing the number 1.</p>

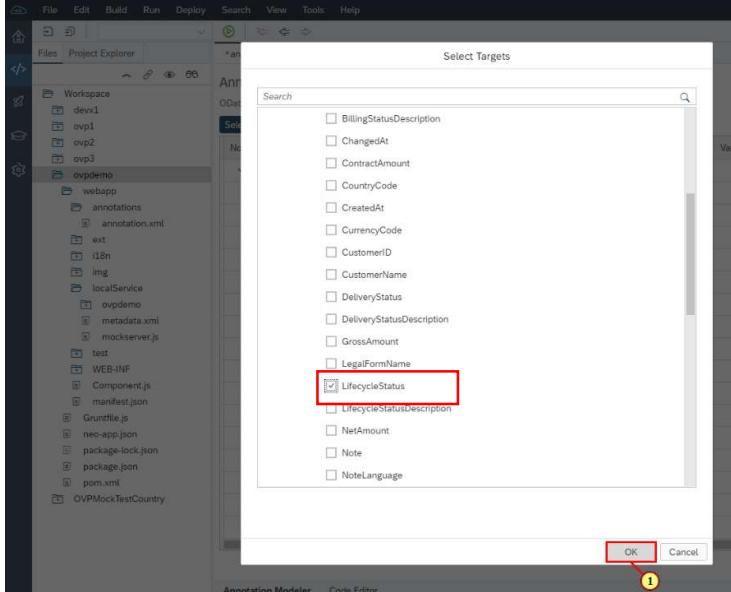
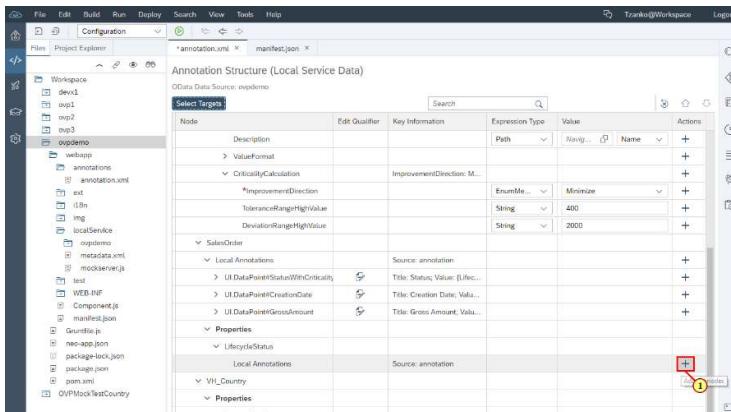
Explanation	Screenshot
(1) Click OK	
(1) Define Title as a static String	
(1) Enter "Gross Amount".	
(1) Bind the Value to GrossAmount	

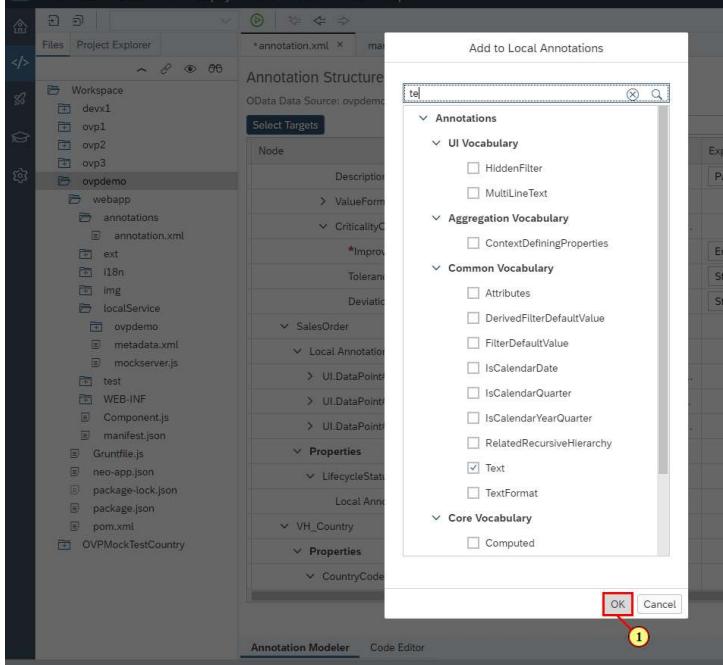
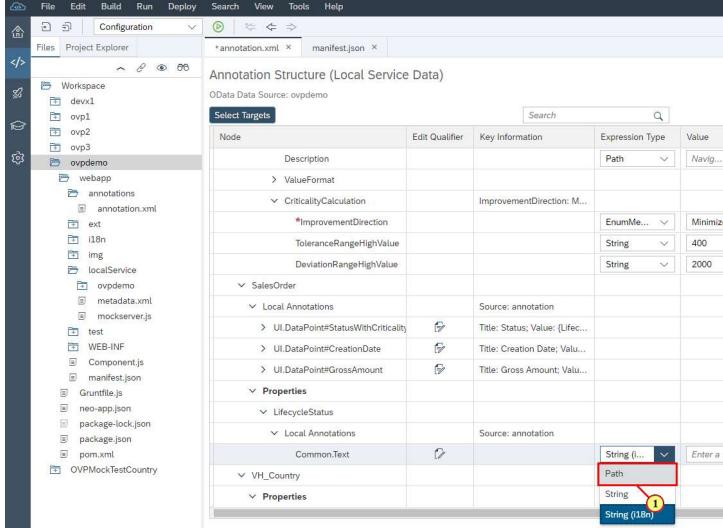
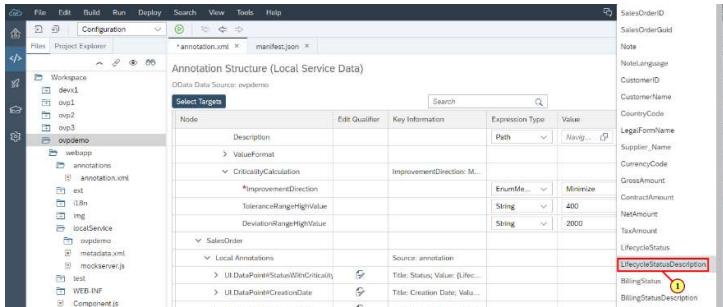
Explanation	Screenshot
(1) Add another DataPoint, Click  on Local Annotations for SalesOrder and select datapoint	
(1) Click 	
(1) Set Qualifier by clicking on 	

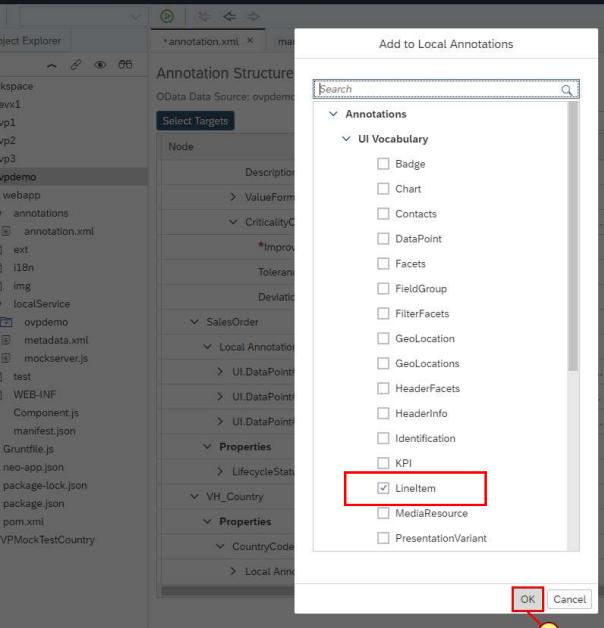
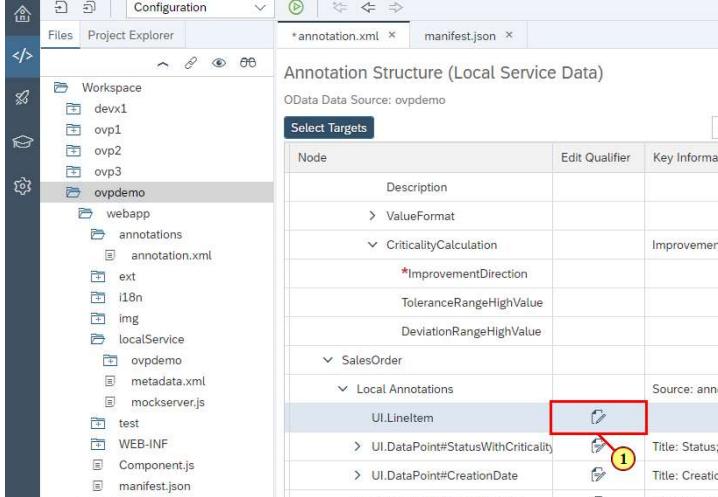
Explanation	Screenshot
(1) Enter StatusWithCriticality and press OK .	
(1) Enter Title as String.	
(1) Enter "Status".	
(1) Select a value path .	

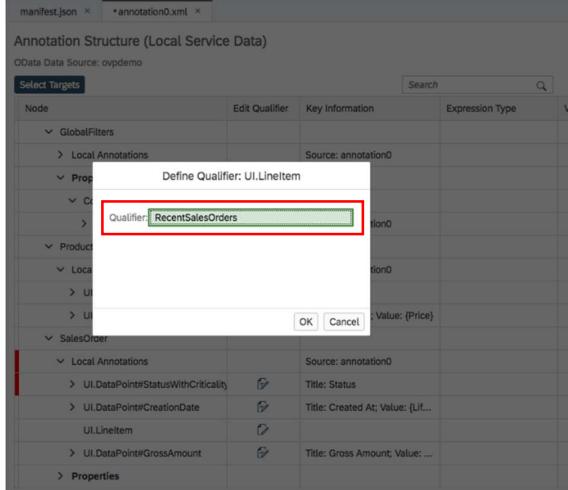
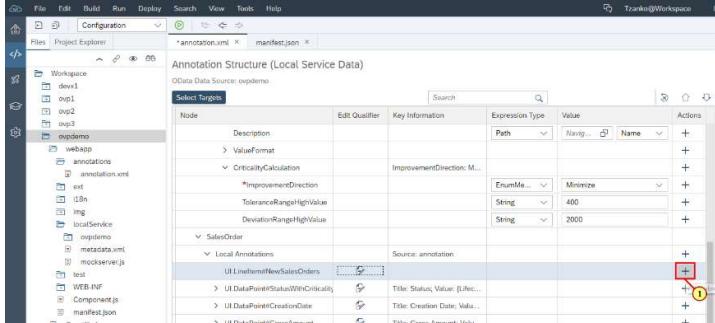
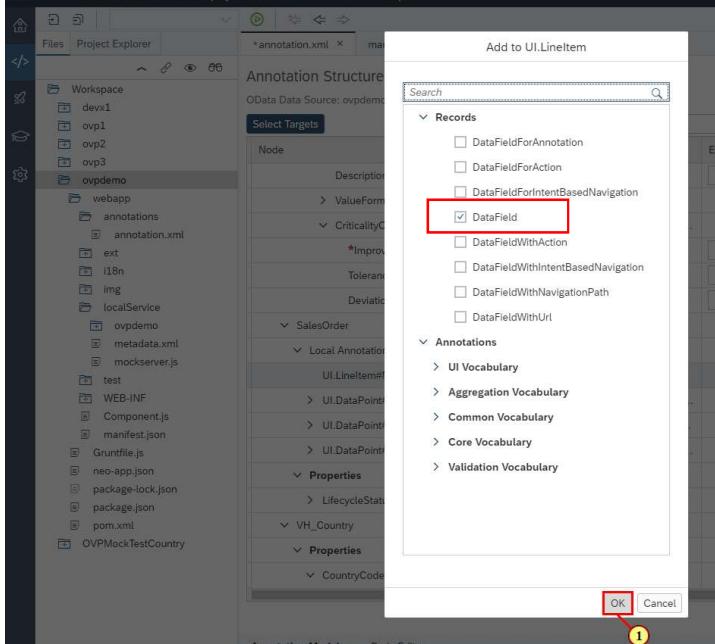
Explanation	Screenshot
(1) Select LifecycleStatus	
(1) Add Criticality for the LifecycleStatus , click on icon corresponding to the statuswithcriticality datapoint annotation	
(1) Select Criticality and Click OK	

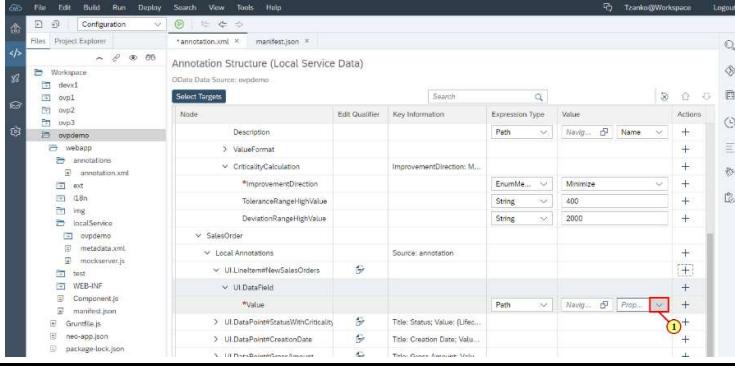
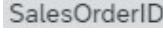
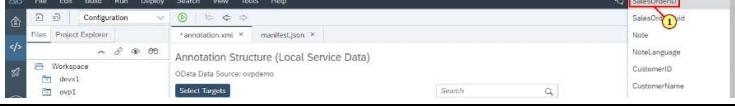
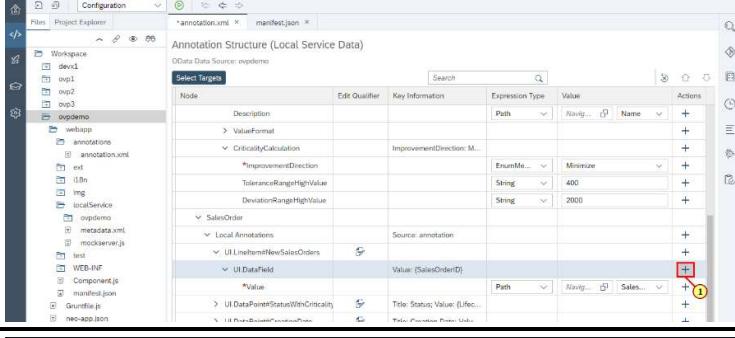
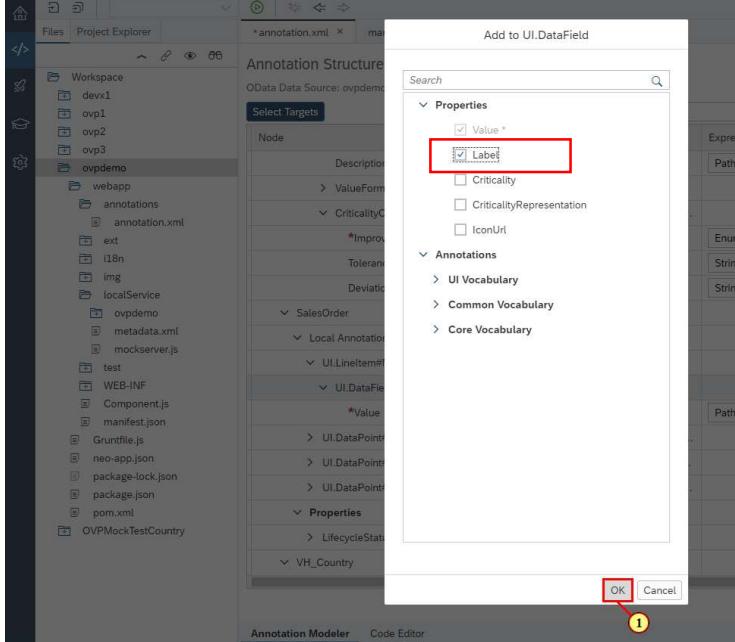
Explanation	Screenshot
(1) Bind Criticality to a Path	
(1) Set the Path to LifecycleStatus	
(1) Let's make sure that the LifecycleStatus is displayed via its description. Click Select Targets	

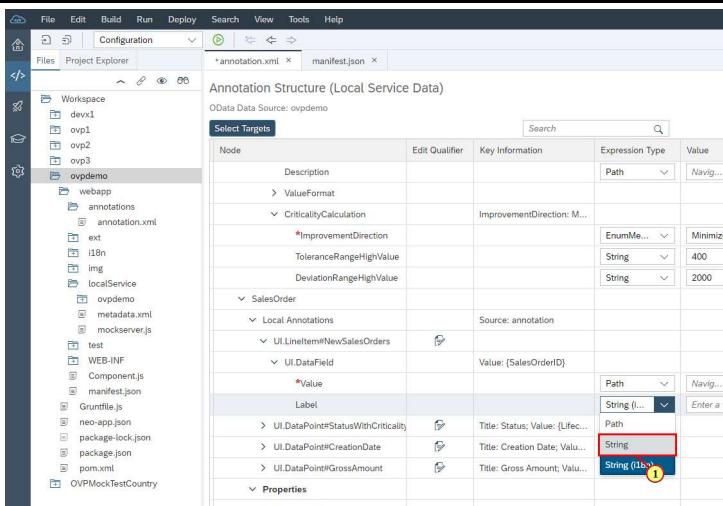
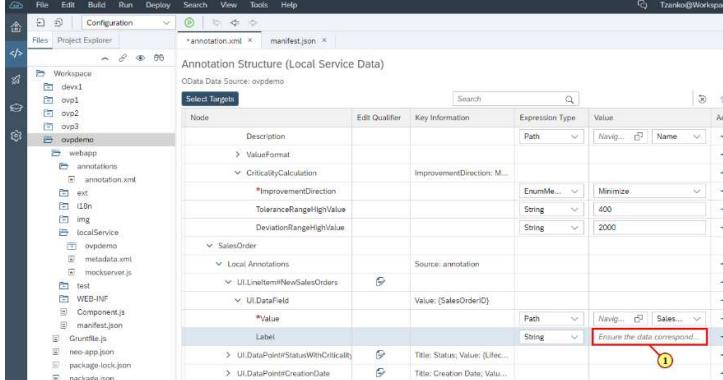
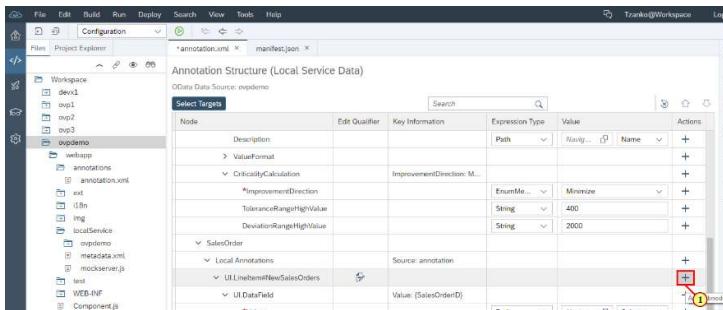
Explanation	Screenshot
<p>(1) Select the LifecycleStatus property under the SalesOrder entity and Click </p>	
<p>(1) Now you will add a Text annotation for SalesOrder/LifecycleStatus .</p>	

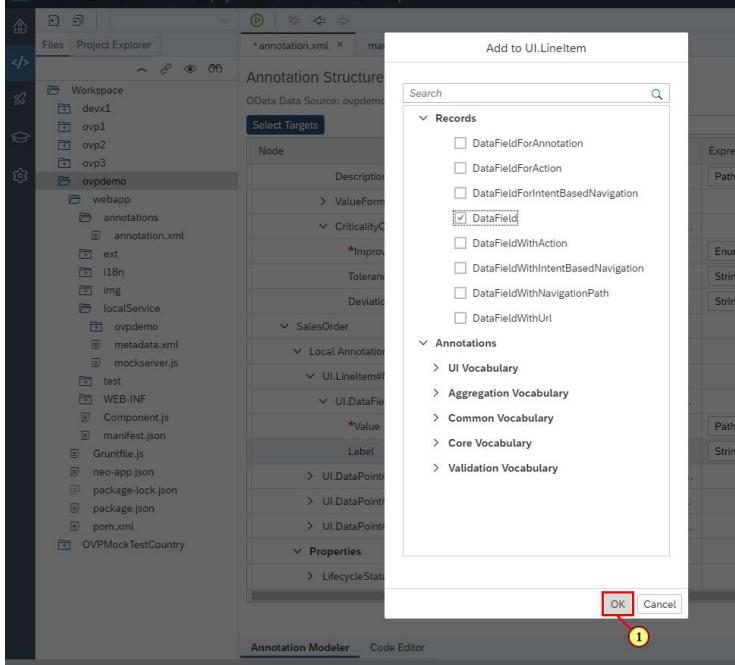
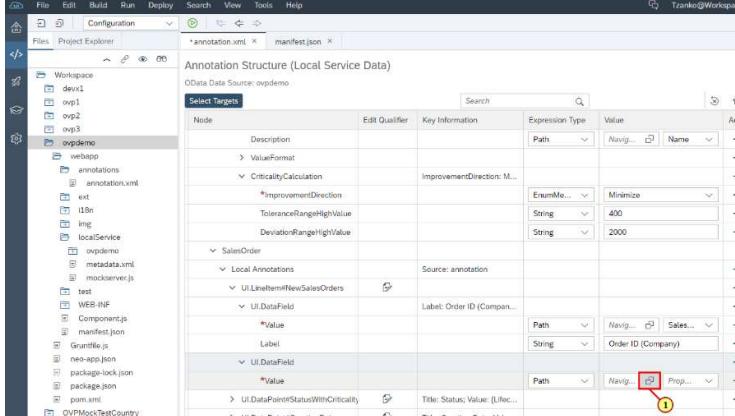
Explanation	Screenshot
(1) Select Text and Click 	
(1) Bind the Text to a Path	
(1) Select LifecycleStatusDescription	

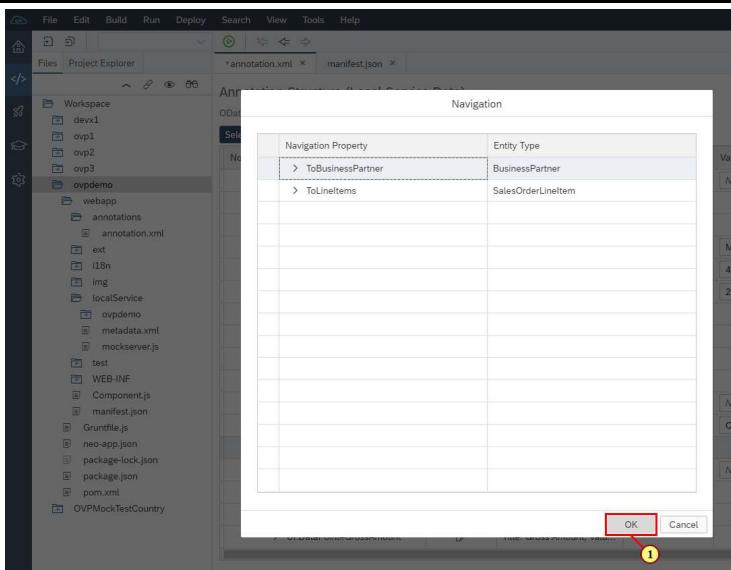
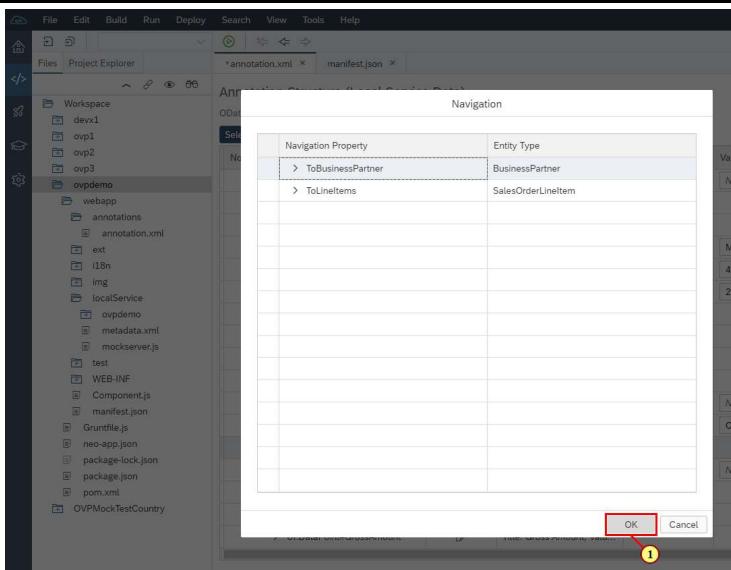
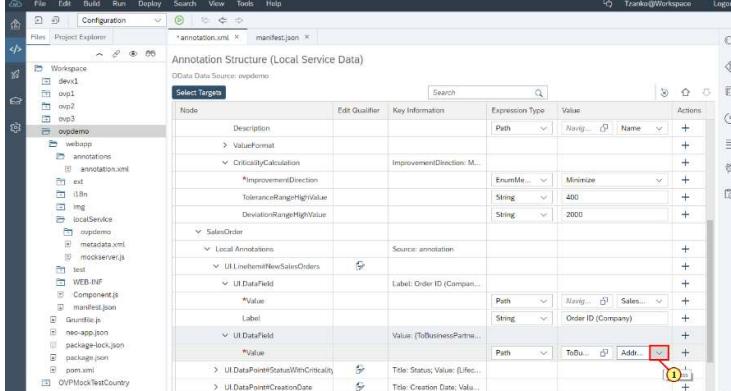
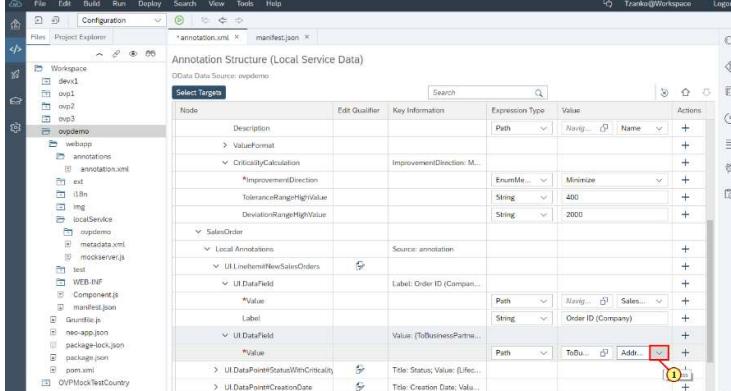
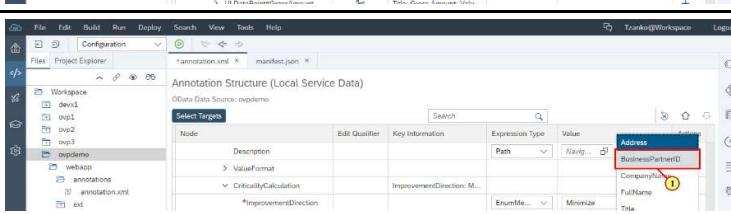
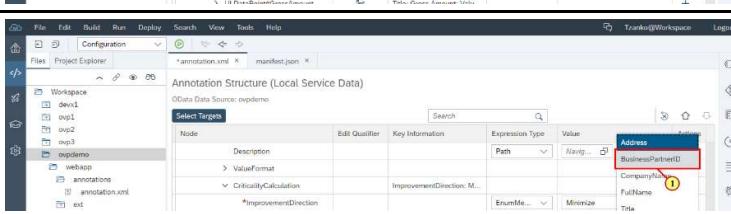
Explanation	Screenshot
<p>(1) Now you will add the LineItem defining what shall the Table visualize, click on  Icon corresponding to local annotations under sales order</p>	
<p>(1) Select LineItem and Click </p>	
<p>(1) Set Qualifier by clicking on </p>	

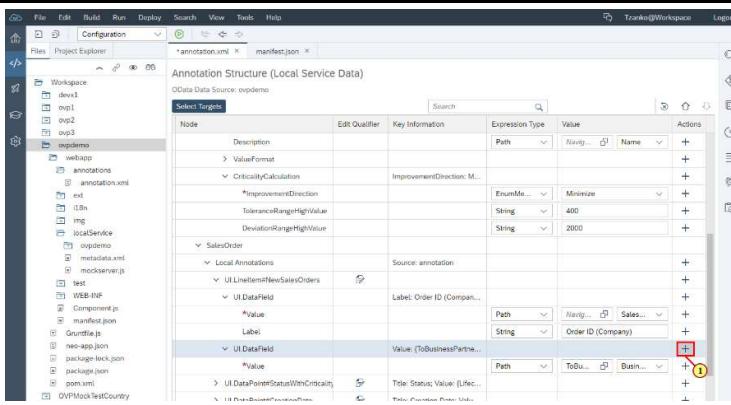
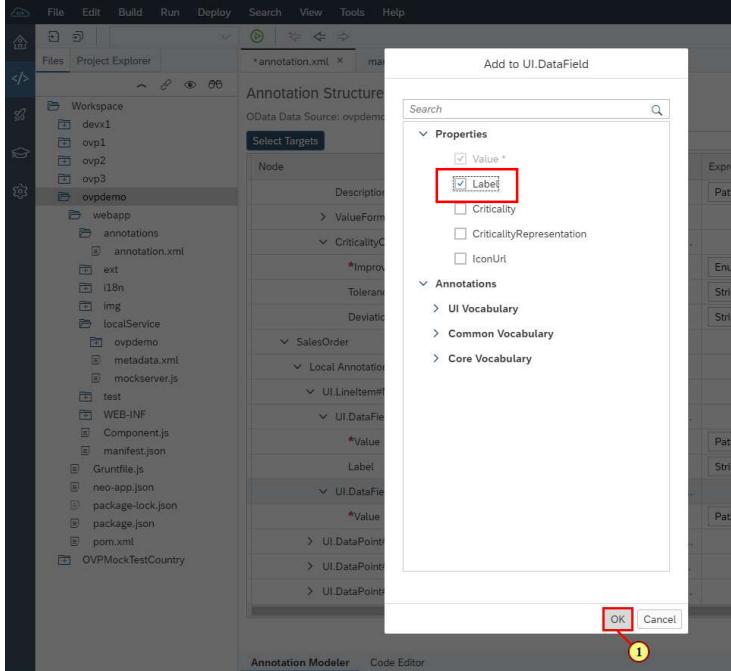
Explanation	Screenshot
(1) Enter "RecentSalesOrders" and press 	
(1) Add a DataField to the LineItem - Click 	
(1) Select DataField and Click 	

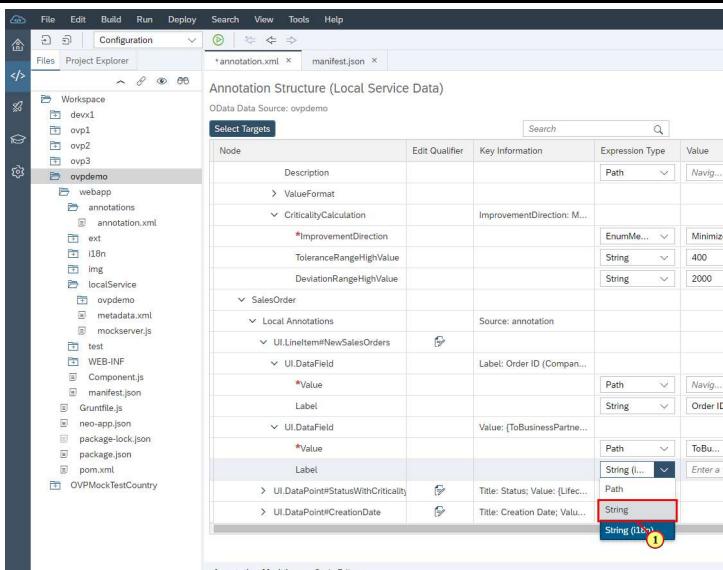
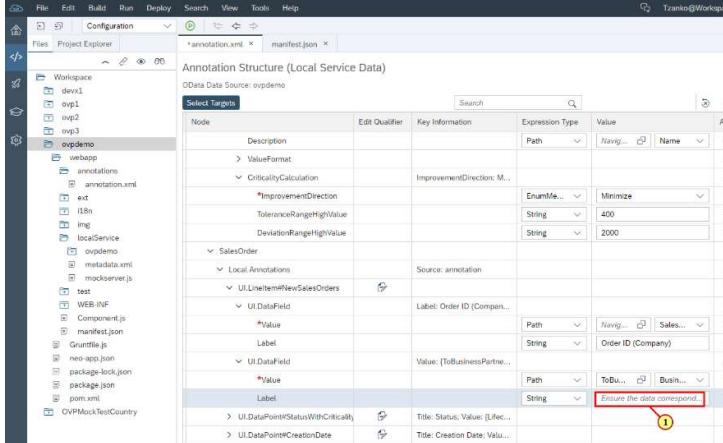
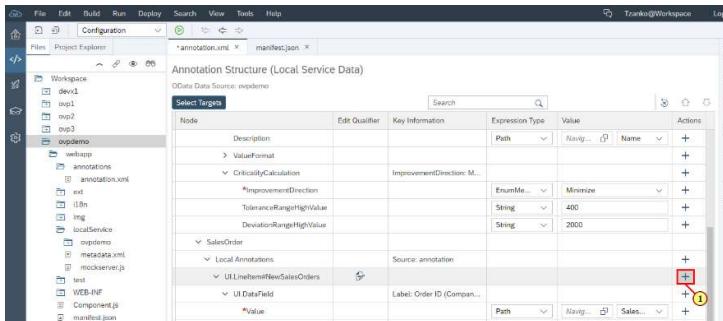
Explanation	Screenshot
(1) Value will be bound to a Path 	 <p>The screenshot shows the SAP Fiori Elements Annotation Structure dialog for the OData Data Source 'ovpdemo'. In the 'SalesOrder' section, under 'UI.LineItemNewSalesOrders', there is a 'UI.DataField' node with a 'Value' property. The 'Value' property is expanded, showing its expression type as 'Path' and its value as 'SalesOrderID'. A red box highlights the 'Value' field, and a yellow circle with the number '1' is placed next to it.</p>
(1) Select SalesOrderID 	 <p>The screenshot shows the SAP Fiori Elements annotation dialog. The 'SalesOrderID' field is highlighted with a red box and a yellow circle with the number '1'.</p>
(1) Add a Label to the datafield, click on + 	 <p>The screenshot shows the SAP Fiori Elements annotation dialog. The 'UI.DataField' node is selected and highlighted with a red box and a yellow circle with the number '1'.</p>
(1) Select Label and Click OK 	 <p>The screenshot shows the 'Add to UI.DataField' dialog. In the 'Properties' section, the 'Label' checkbox is checked and highlighted with a red box. At the bottom right, the 'OK' button is highlighted with a red box and a yellow circle with the number '1'.</p>

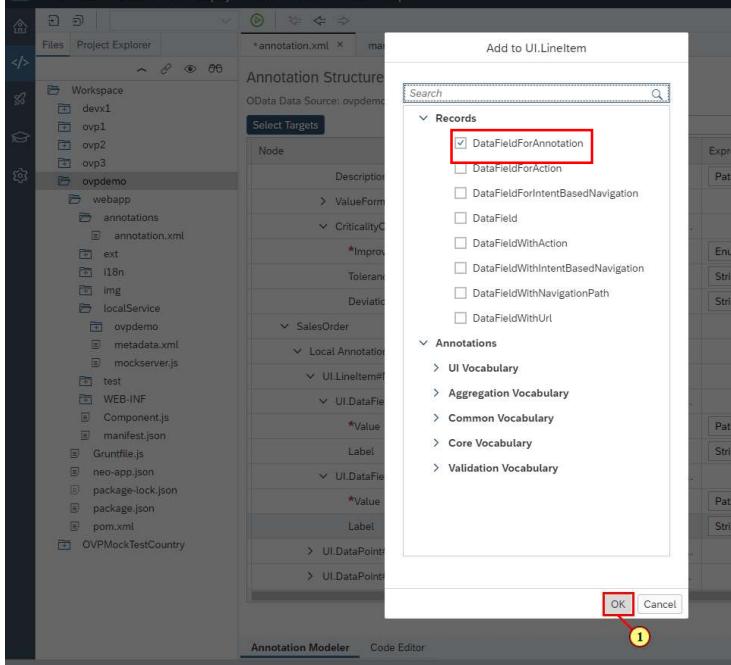
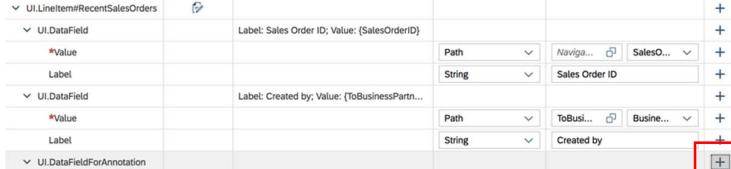
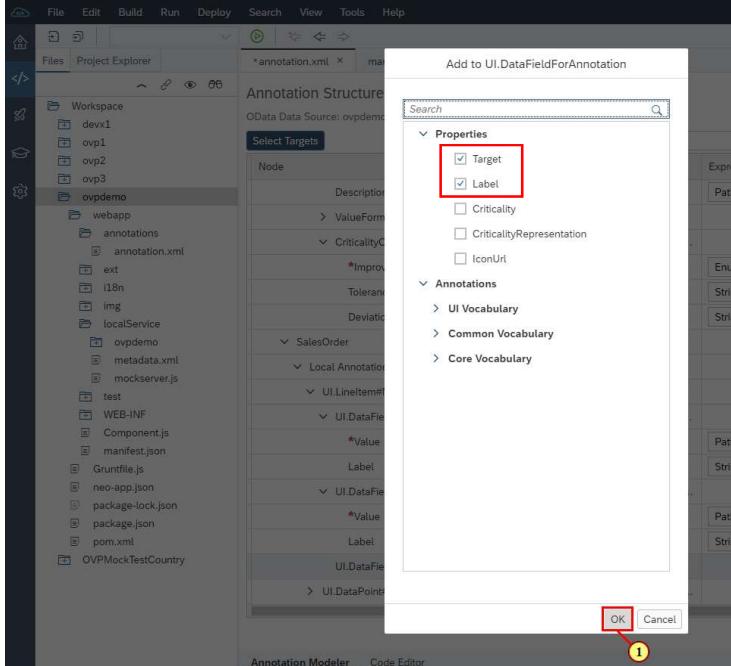
Explanation	Screenshot
<p>(1) The label will be a static String</p>	
<p>(1) Enter “Order ID”.</p>	
<p>(1) Add one more DataField, click on +. Icon corresponding to the lineitem annotation.</p>	

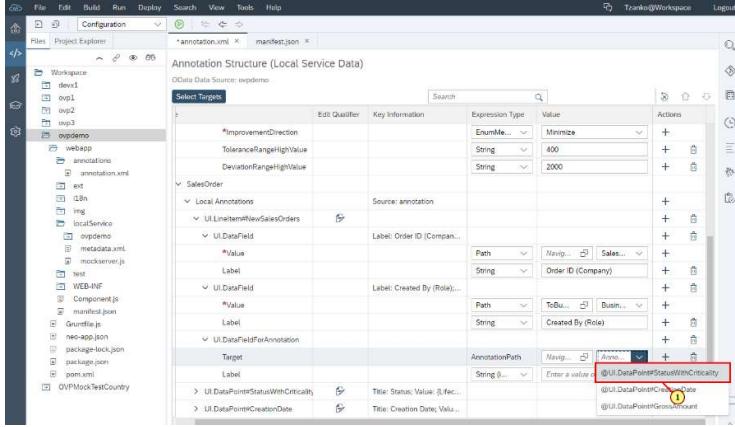
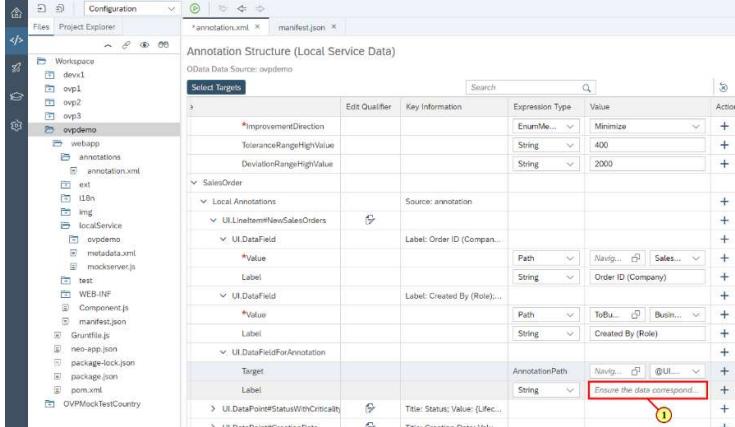
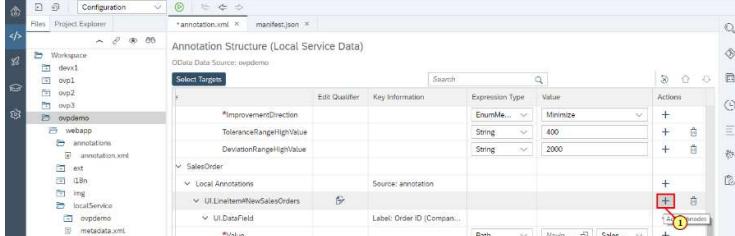
Explanation	Screenshot
(1) Click 	
<p>(1) Here we will bind the path to the business partner ID's property in another entity. We access the later via an existing </p>	

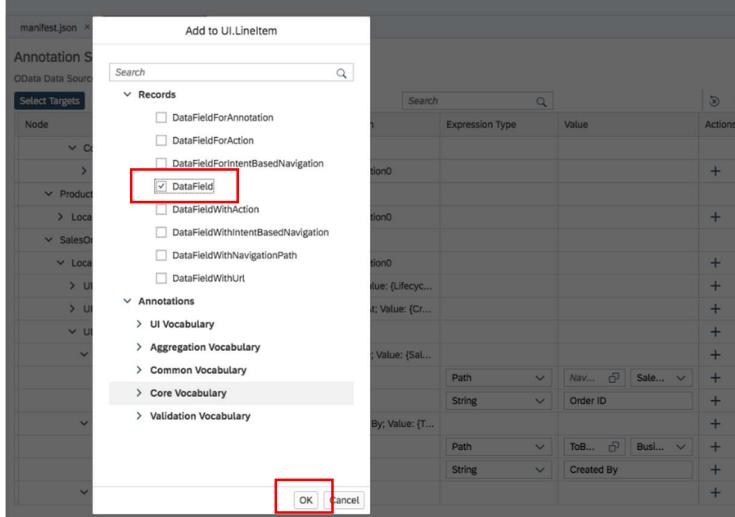
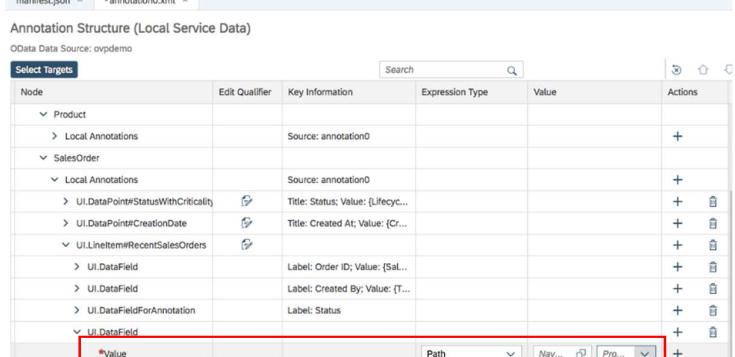
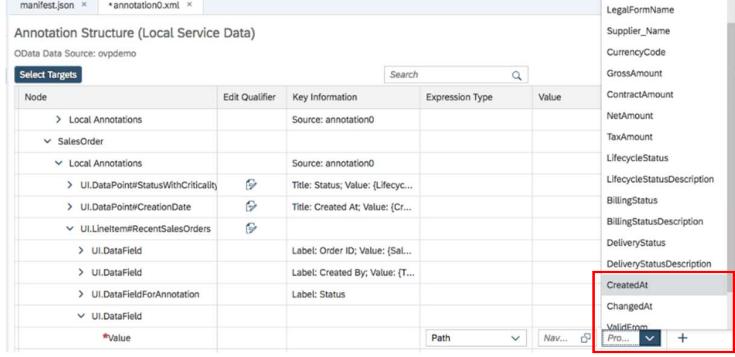
Explanation	Screenshot
<p>(1) Select the Navigation Property ToBusinessPartner and Click OK</p> 	
<p>(1) Select a property from BusinessPartner</p> 	
<p>(1) Select BusinessPartnerID</p> 	

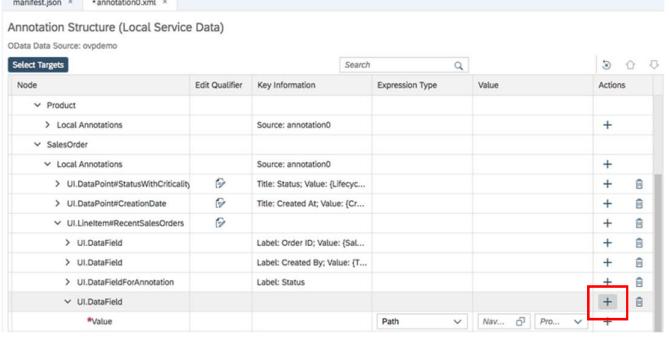
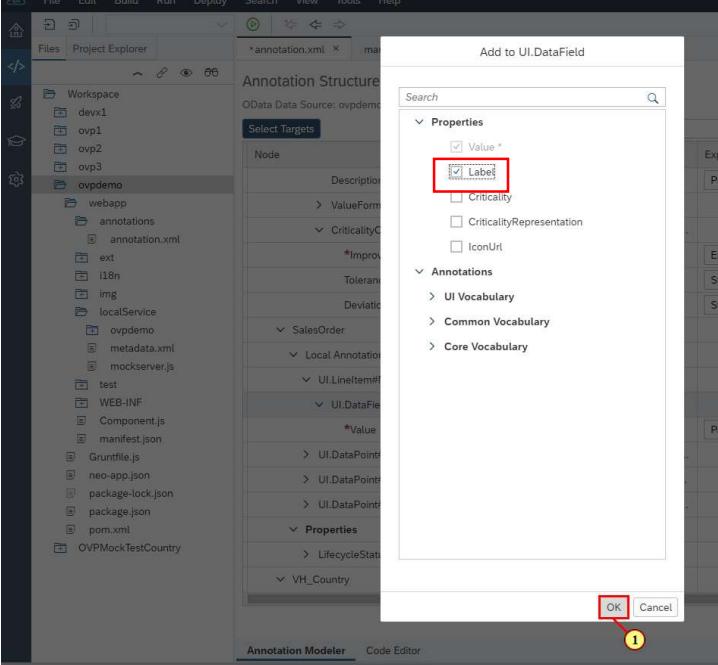
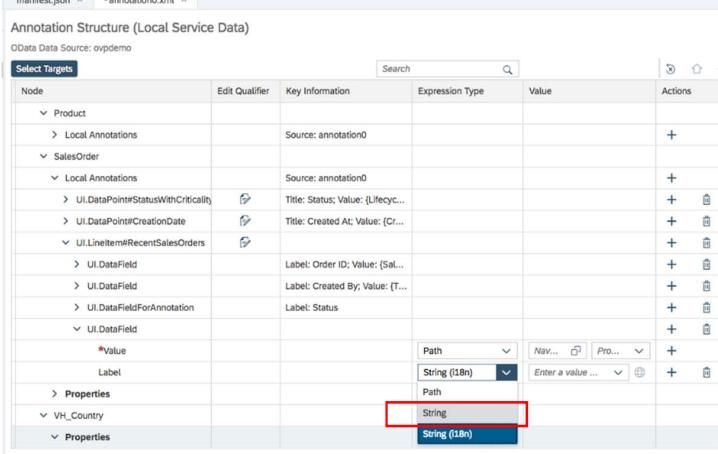
Explanation	Screenshot
<p>(1) Add a Label for the DataField</p> 	
<p>(1) Select Label and Click </p>	

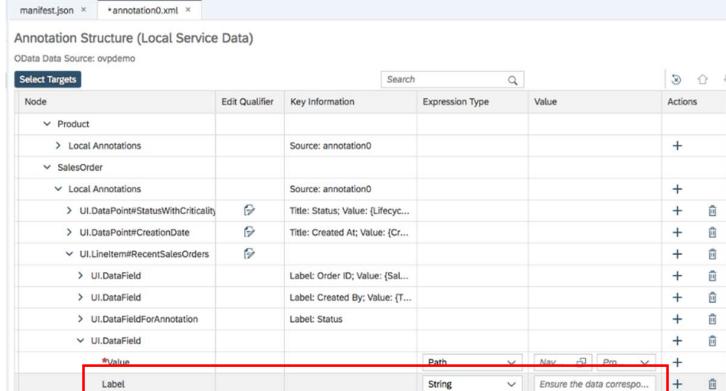
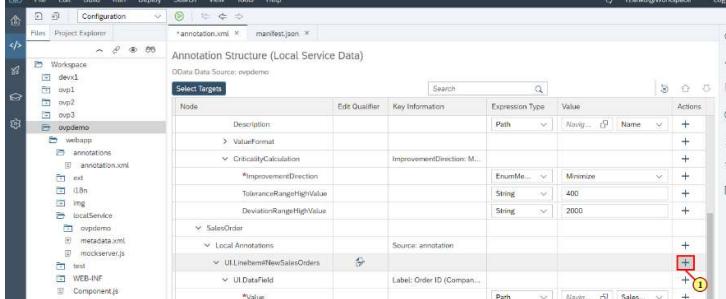
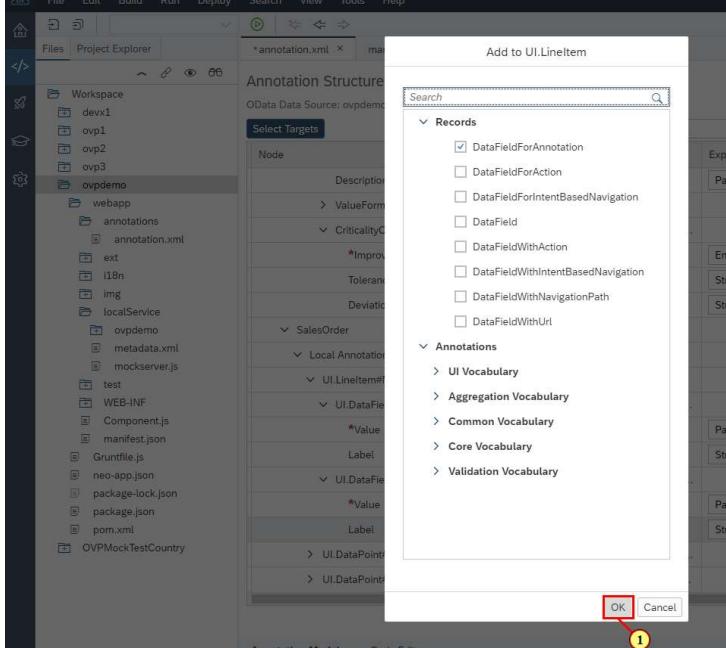
Explanation	Screenshot
<p>(1) Select String</p>	
<p>(1) A text is entered in the text field: "Created By"</p>	
<p>(1) Now you will include the previously defined DataPoints Click + corresponding to the LineItem.</p>	

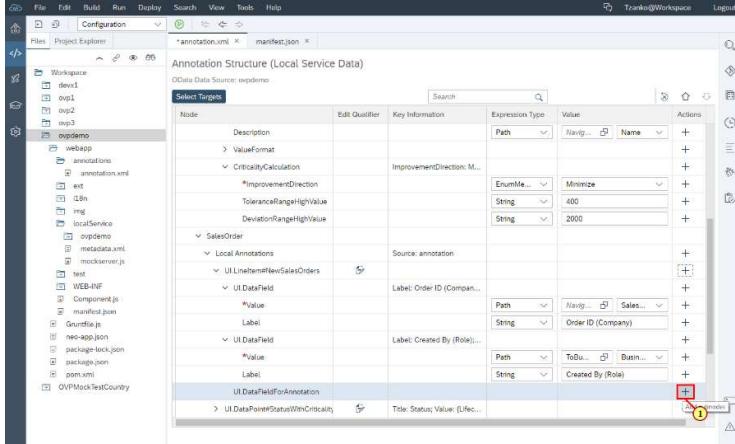
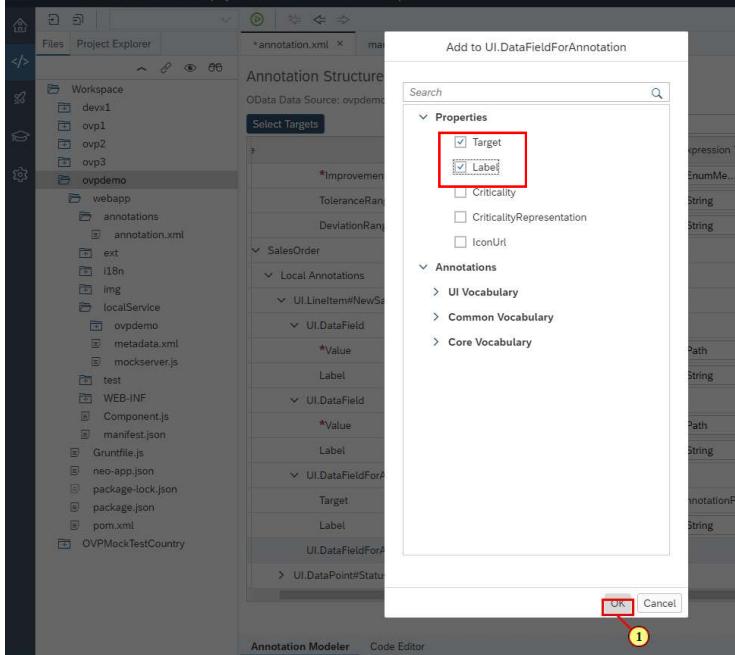
Explanation	Screenshot
(1) Select DataFieldForAnnotation and Click 	
(1) Click  at DataFieldForAnnotation.	
(1) Select Target and Label and Click 	

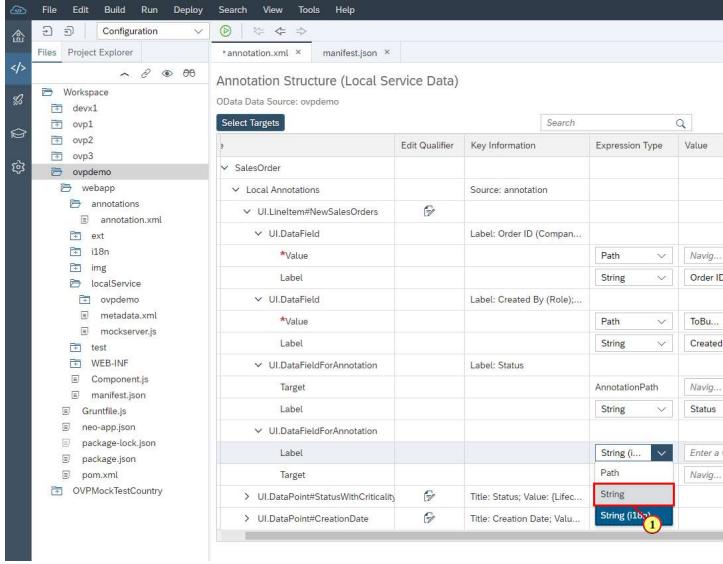
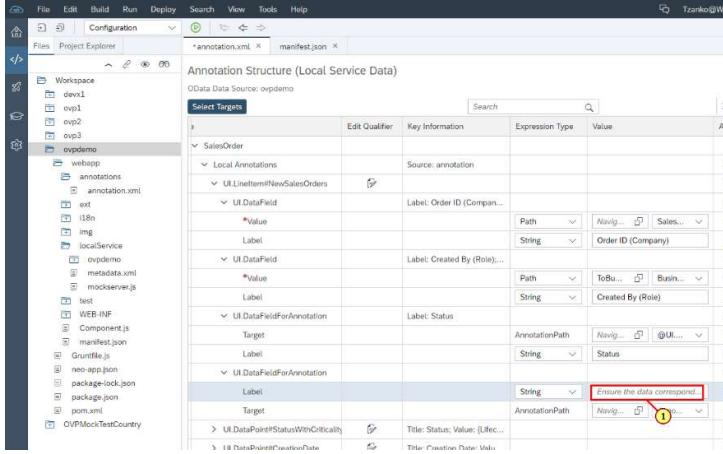
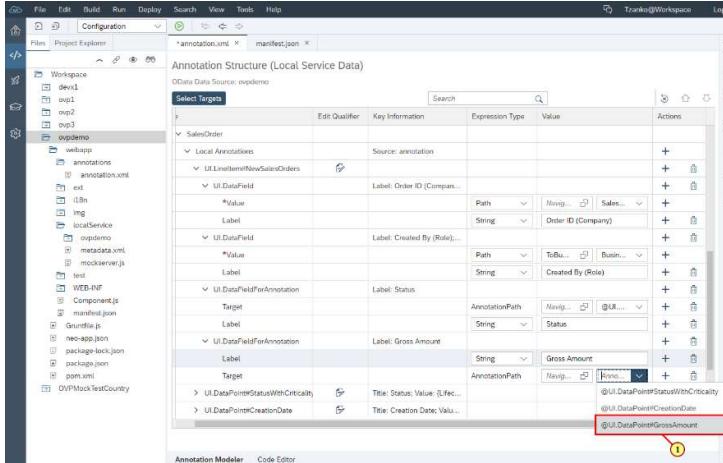
Explanation	Screenshot
<p>(1) Set the Target to <code>@UI.DataPoint#StatusWithCriticality</code></p>	 <p>The screenshot shows the SAP Fiori Elements annotation structure editor. In the center, there's a table titled "Annotation Structure (Local Service Data)". One row in the table is expanded, showing a "SalesOrder" entity with a "Local Annotations" section. Under "Local Annotations", there's a "UI.LineItemInNewSalesOrders" entry, which contains a "UI.DataField" annotation. The "Target" column for this annotation has a dropdown menu open, showing the option <code>@UI.DataPoint#StatusWithCriticality</code>. A red box highlights this option, and a yellow circle with the number "1" is placed next to it.</p>
<p>(1) A text is entered in the text field: "Status" by selecting the expression type as "String"</p>	 <p>This screenshot is similar to the previous one but focuses on the "Value" field of the "UI.DataField" annotation. The "Expression Type" dropdown is set to "String". The "Value" field contains the text "Status". A red box highlights the "String" expression type, and a yellow circle with the number "1" is placed next to it.</p>
<p>(1) Click . Corresponding to the lineitem annotation in sales order.</p>	 <p>This screenshot shows the "Actions" section of the annotation structure editor. A large blue plus sign button is highlighted with a red box. To its right, a tooltip says "Add annotation". A yellow circle with the number "1" is placed next to the plus sign.</p>

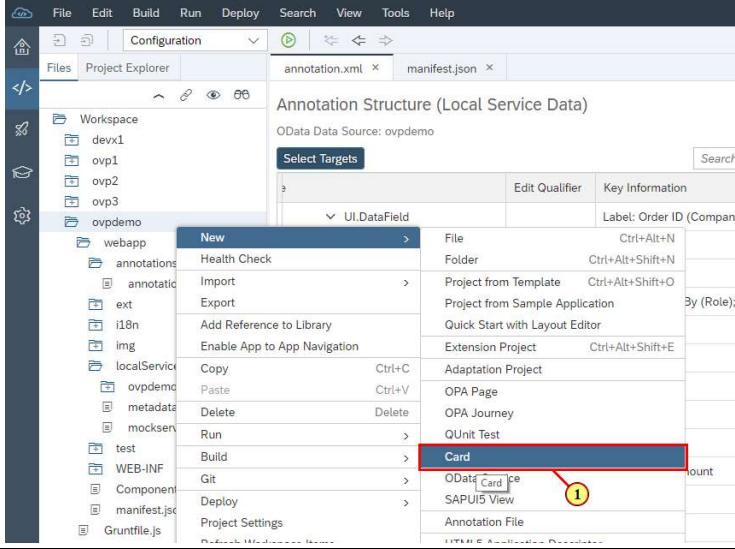
Explanation	Screenshot
(1) Select DataField and Click OK	
Value will be bound to a Path	
(1) Select CreatedAt	

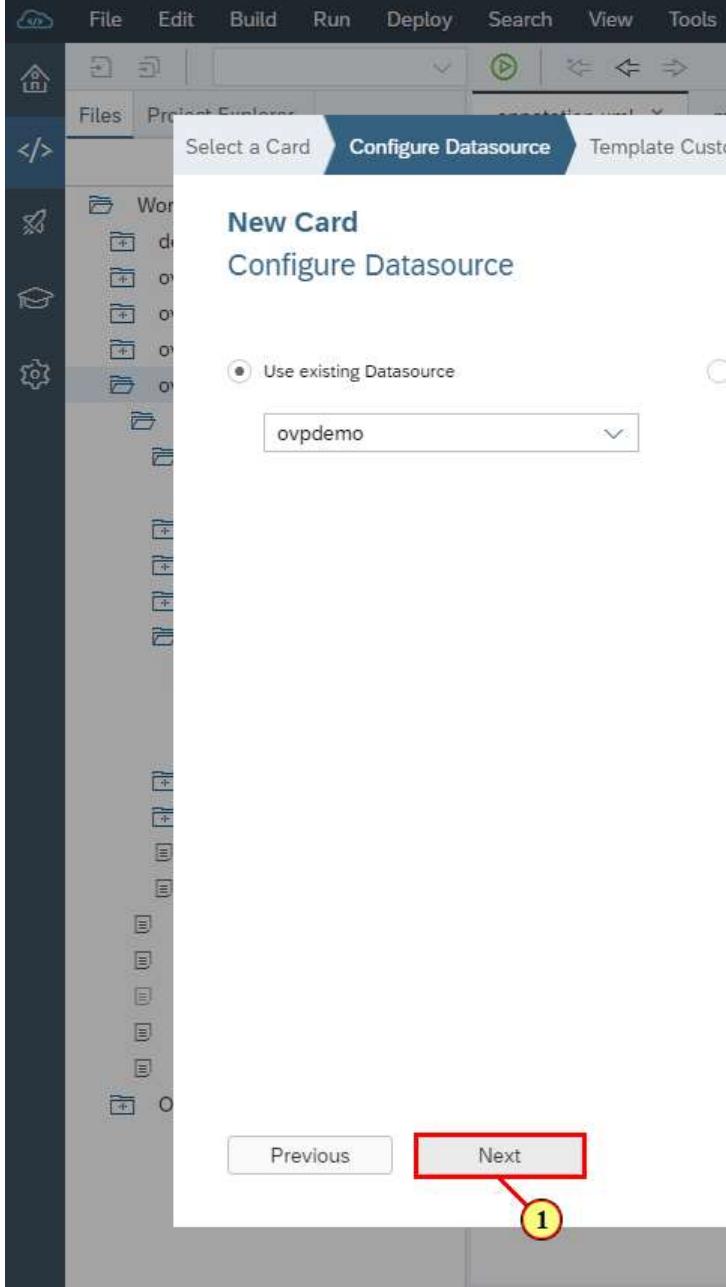
Explanation	Screenshot
(1) Add a Label, Click  at UI.DataField.	
(1) Select Label and Click  .	
(1) The label will be a static String	

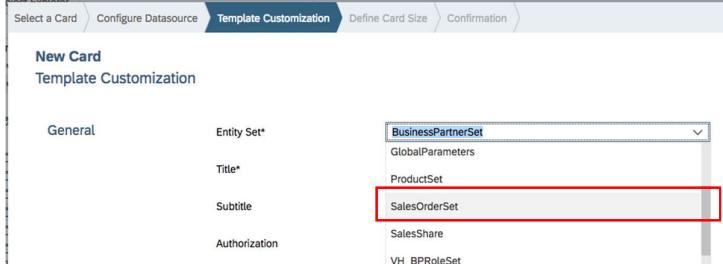
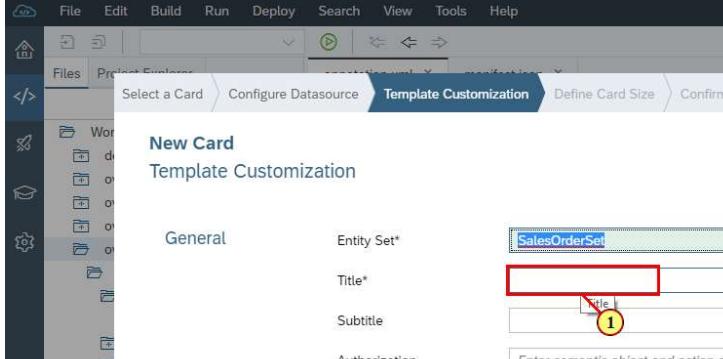
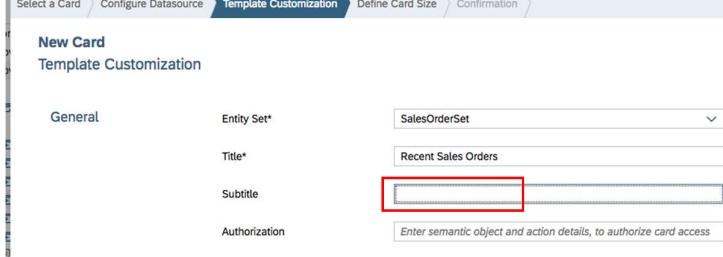
Explanation	Screenshot
Enter "Creation Date" for Label.	
(1) Now you will include the GrossAmount DataPoint Click + for the LineItem.	
(1) Select DataFieldForAnnotation and Click OK	

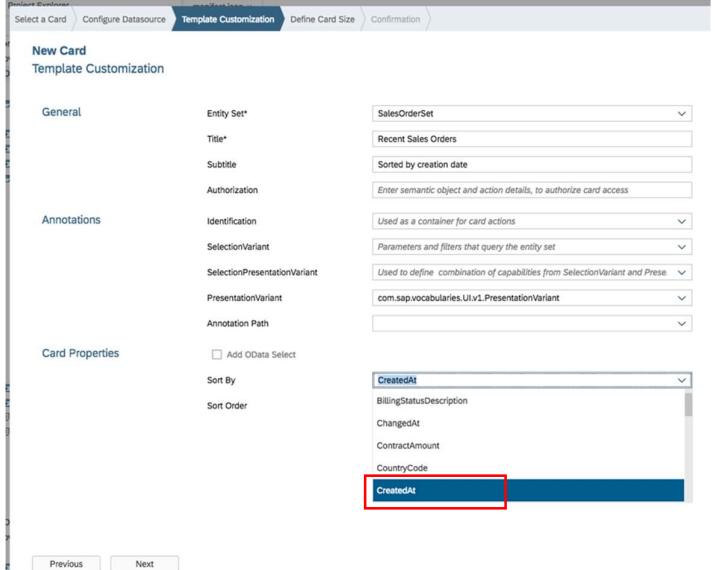
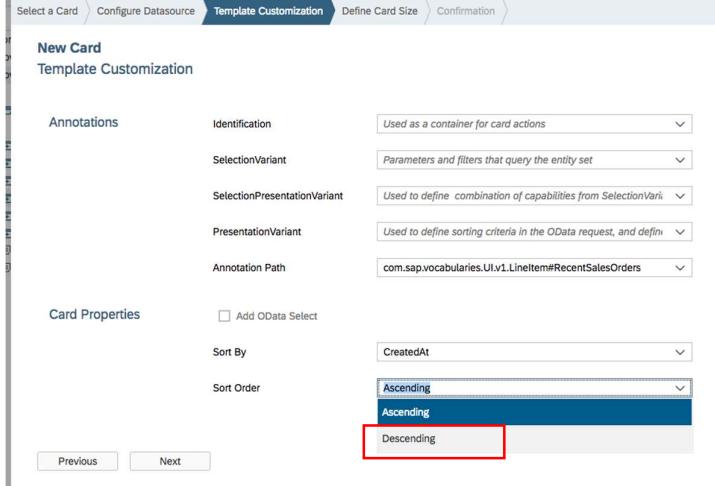
Explanation	Screenshot
<p>(1) Click  at UI.DataFieldForAnnotation.</p>	
<p>(1) Add a target and a label and Click .</p>	

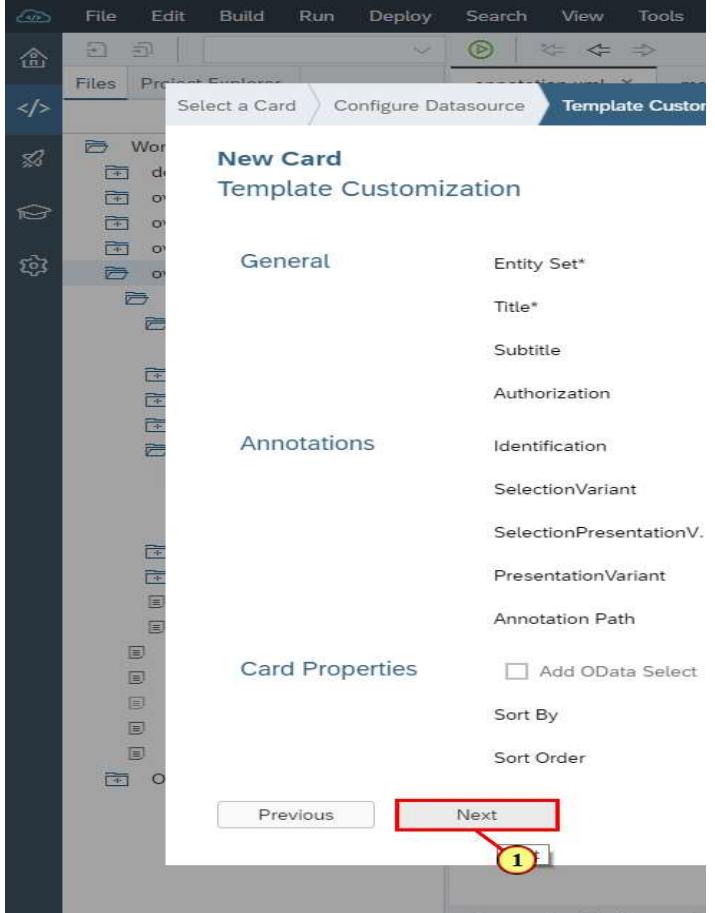
Explanation	Screenshot
<p>(1) Select String. As the expression type for the label</p>	 <p>The screenshot shows the SAP Fiori Elements Annotation Modeler interface. The left pane displays a project structure for 'ovpdemo'. The right pane shows the 'Annotation Structure (Local Service Data)' for 'SalesOrder'. A specific node, 'UI.DataFieldForAnnotation' under 'Local Annotations', has its 'Expression Type' dropdown set to 'String'. A red box highlights this selection, and a yellow circle with an 'i' indicates further details.</p>
<p>(1) A text is entered in the text field: "Gross Amount"</p>	 <p>The screenshot shows the same interface as above, but now the 'Value' field of the 'UI.DataFieldForAnnotation' node contains the text 'Gross Amount'. A red box highlights the text input field, and a yellow circle with an 'i' indicates further details.</p>
<p>(1) Set the Target to @UI.DataPoint#GrossAmount</p> <p>Save the annotation file</p>	 <p>The screenshot shows the final step where the 'Target' field of the 'UI.DataFieldForAnnotation' node is set to '@UI.DataPoint#GrossAmount'. A red box highlights this target value, and a yellow circle with an 'i' indicates further details.</p>

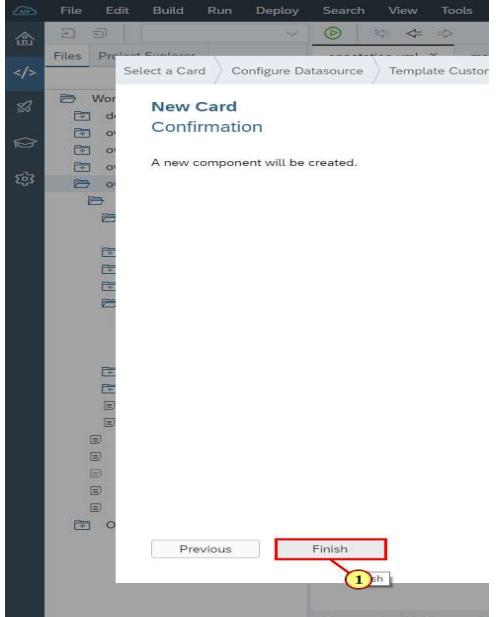
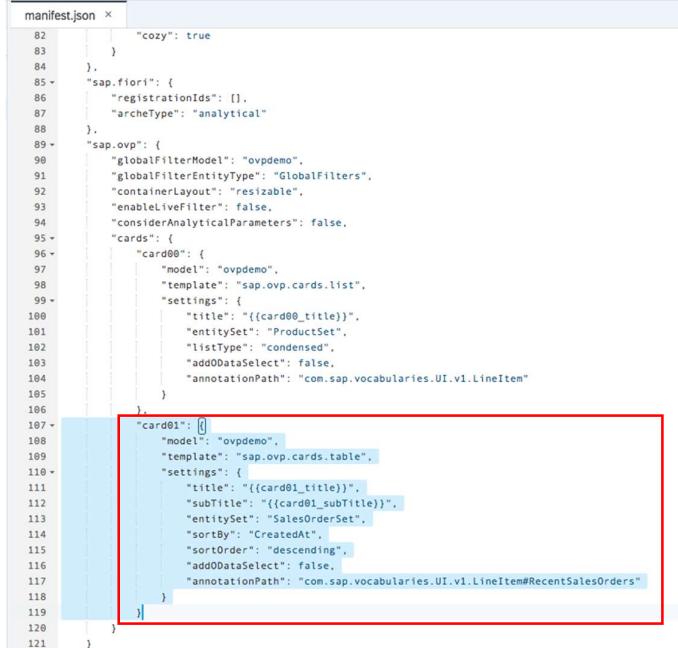
Explanation	Screenshot																																		
<p>(1) Create a new card by Right Clicking on the project and Selecting New -></p> <p style="background-color: #0070C0; color: white; padding: 2px;">Card</p>																																			
<p>(1) Select a Table card and Click Next</p> <p style="background-color: #D9E1F2; color: black; padding: 5px; text-align: center;">Next</p>	<p>Select a Card Configure Datasource Confirmation</p> <p>New Card Select a Card</p> <p>List Link List Table</p> <div style="display: flex; justify-content: space-around;"> <div style="width: 30%;"> <p>Contract Monitoring By consumption</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Contract A</td><td style="width: 15%;">31%</td></tr> <tr><td>Contract B</td><td>84%</td></tr> <tr><td>Contract C</td><td>52%</td></tr> <tr><td>Contract D</td><td>48%</td></tr> <tr><td>Contract E</td><td>10%</td></tr> </table> <p>Showing 3 of 35</p> </div> <div style="width: 30%;"> <p>Recent Contacts</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Donna More</td><td>Company A</td></tr> <tr><td>Elena Petrova</td><td>Company B</td></tr> <tr><td>Julie Armstrong</td><td>Company C</td></tr> <tr><td>Laurent Dubois</td><td>Company D</td></tr> <tr><td>Richard Wilson</td><td>Company E</td></tr> <tr><td>Sabine Mayer</td><td>Company F</td></tr> </table> </div> <div style="width: 30%;"> <p>Off-Contract Spend This week</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr><th>Supplier</th><th>Date</th><th>Amount</th></tr> </thead> <tbody> <tr><td>Jetgo</td><td>Jul 14, 2018</td><td>\$1K USD</td></tr> <tr><td>PG Gym Tech</td><td>Jul 13, 2018</td><td>20K USD</td></tr> <tr><td>Delltron Industries</td><td>Jul 12, 2018</td><td>77K USD</td></tr> </tbody> </table> <p>Showing 3 of 10</p> </div> </div> <p><input type="checkbox"/> Select to enable view switch for this... <input type="checkbox"/> Select to add KPI header for this card</p> <p style="text-align: center;">Previous Next Next</p>	Contract A	31%	Contract B	84%	Contract C	52%	Contract D	48%	Contract E	10%	Donna More	Company A	Elena Petrova	Company B	Julie Armstrong	Company C	Laurent Dubois	Company D	Richard Wilson	Company E	Sabine Mayer	Company F	Supplier	Date	Amount	Jetgo	Jul 14, 2018	\$1K USD	PG Gym Tech	Jul 13, 2018	20K USD	Delltron Industries	Jul 12, 2018	77K USD
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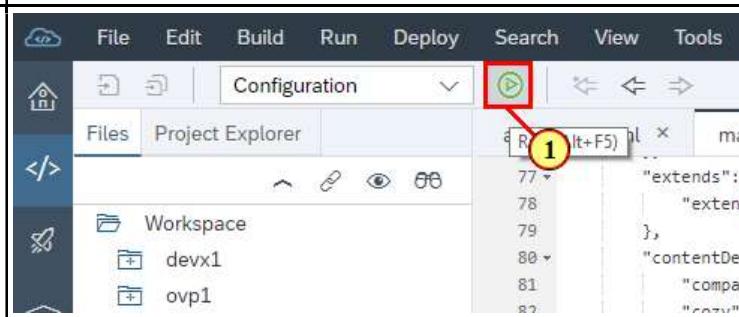
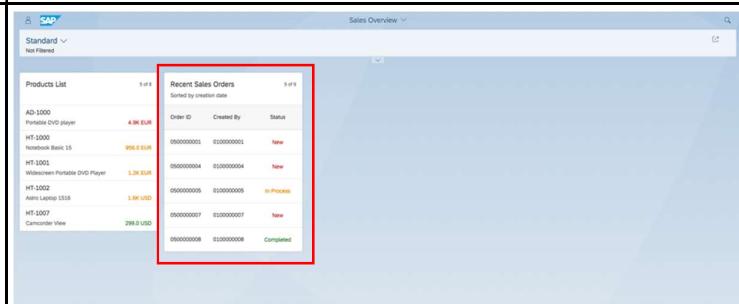
Explanation	Screenshot
(1) Click Next	 <p>The screenshot shows the SAP Fiori Elementsession interface. The top navigation bar includes File, Edit, Build, Run, Deploy, Search, View, and Tools. Below the navigation is a toolbar with icons for home, files, project browser, and search. A dropdown menu is open, showing 'Select a Card' and 'Configure Datasource' (which is highlighted in blue). The main workspace is titled 'New Card' and 'Configure Datasource'. It contains a radio button group for 'Use existing Datasource' (selected) and 'Create new Datasource'. A dropdown menu shows 'ovpdemo'. At the bottom, there are 'Previous' and 'Next' buttons, with 'Next' being highlighted by a red box and a yellow circle containing the number '1' pointing to it.</p>

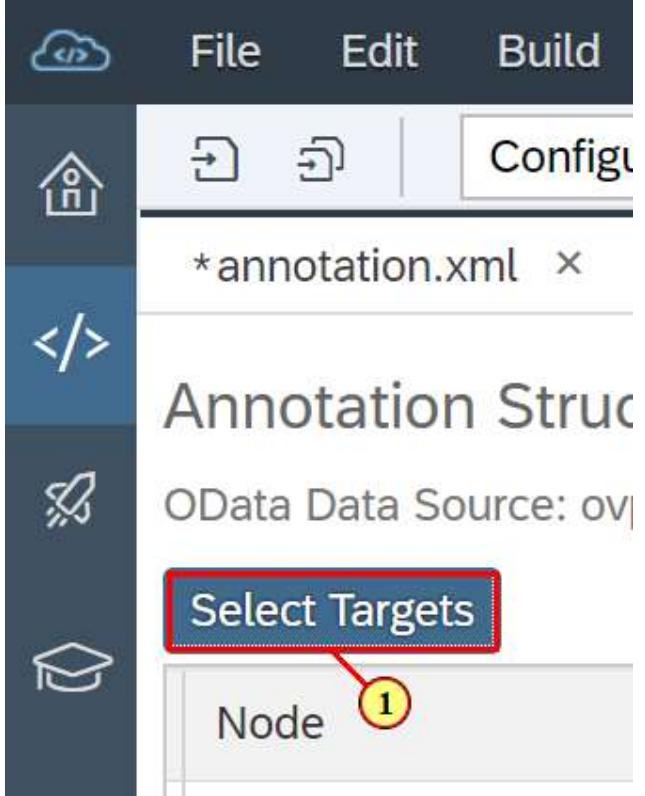
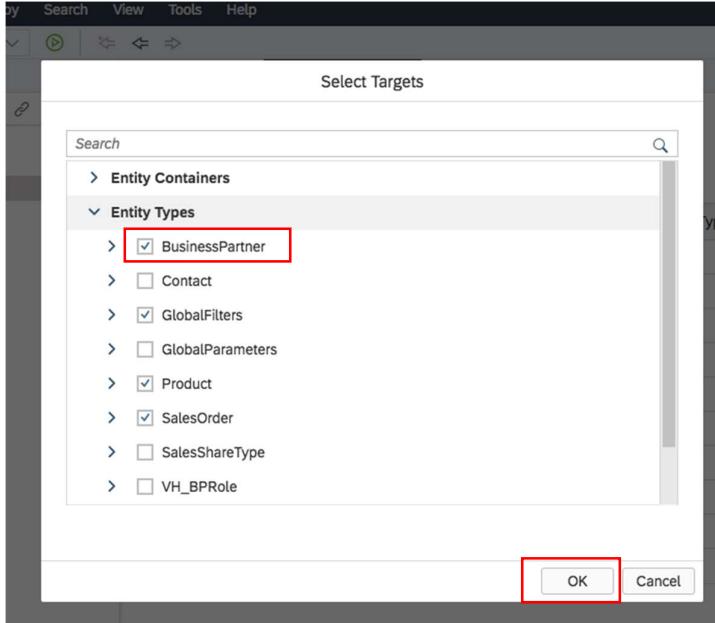
Explanation	Screenshot
(1) Set the Entity Set to SalesOrderSet	
(1) Enter Recent Sales Orders in the Title field.	
(1) Enter "Sorted by creation date" as a Subtitle	

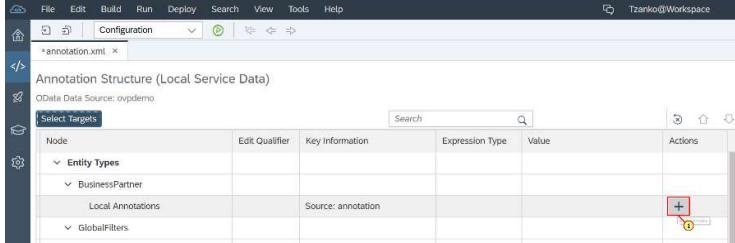
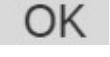
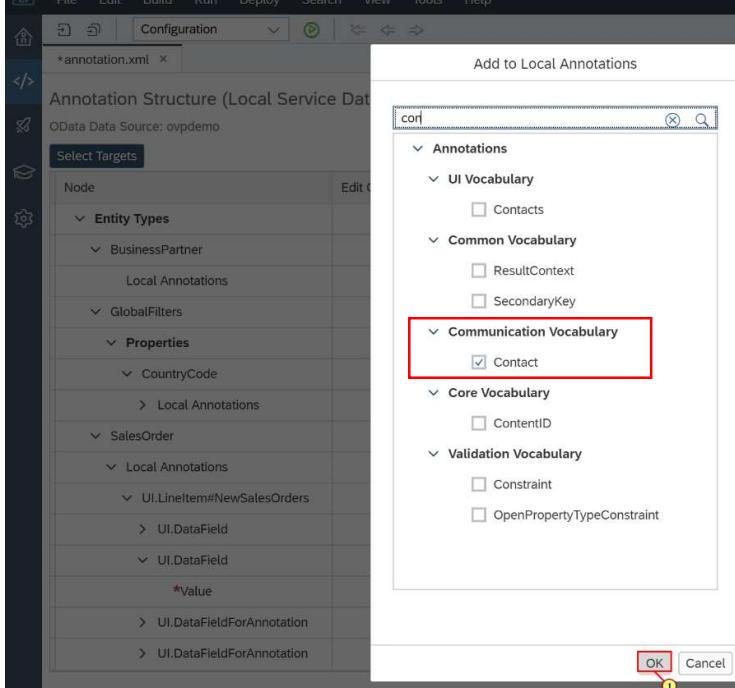
Explanation	Screenshot
<p>(1) scroll further down to find additional customization options for the table card, Sort By</p> <p>CreatedAt</p> <ul style="list-style-type: none"> . 	 <p>New Card Template Customization</p> <p>General Entity Set* SalesOrderSet</p> <p>Title* Recent Sales Orders</p> <p>Subtitle Sorted by creation date</p> <p>Authorization Enter semantic object and action details, to authorize card access</p> <p>Annotations Identification Used as a container for card actions</p> <p>SelectionVariant Parameters and filters that query the entity set</p> <p>SelectionPresentationVariant Used to define combination of capabilities from SelectionVariant and Prese.</p> <p>PresentationVariant com.sap.vocabularies.UI.v1.PresentationVariant</p> <p>Annotation Path</p> <p>Card Properties Add OData Select</p> <p>Sort By CreatedAt</p> <p>Sort Order BillingStatusDescription ChangedAt ContractAmount CountryCode CreatedAt</p>
<p>(1) Specify the Sort Order as Descending</p> <p>. Note that the created LineItem annotation is listed in the Annotation Path</p>	 <p>New Card Template Customization</p> <p>Annotations Identification Used as a container for card actions</p> <p>SelectionVariant Parameters and filters that query the entity set</p> <p>SelectionPresentationVariant Used to define combination of capabilities from SelectionVari</p> <p>PresentationVariant Used to define sorting criteria in the OData request, and defin</p> <p>Annotation Path com.sap.vocabularies.UI.v1.LineItem#RecentSalesOrders</p> <p>Card Properties Add OData Select</p> <p>Sort By CreatedAt</p> <p>Sort Order Ascending</p> <p>Descending</p> <p>Descending</p>

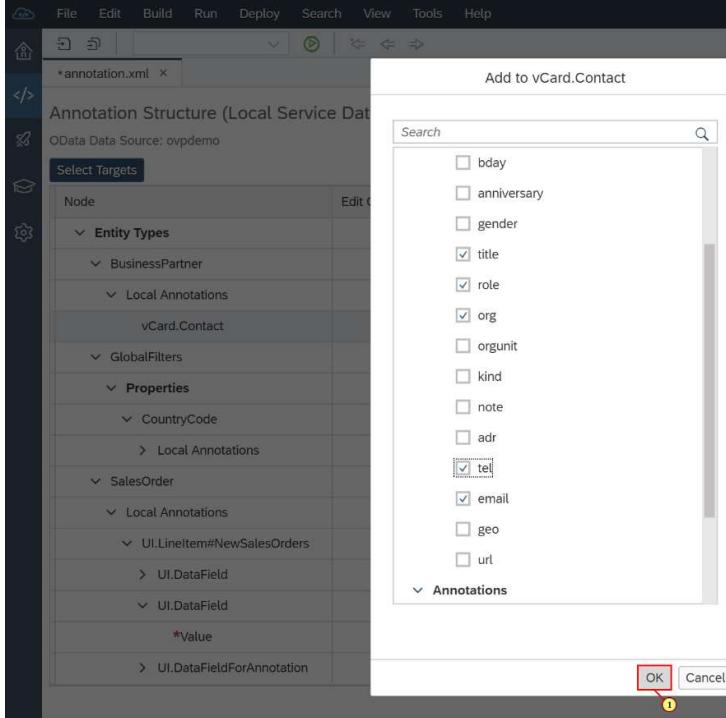
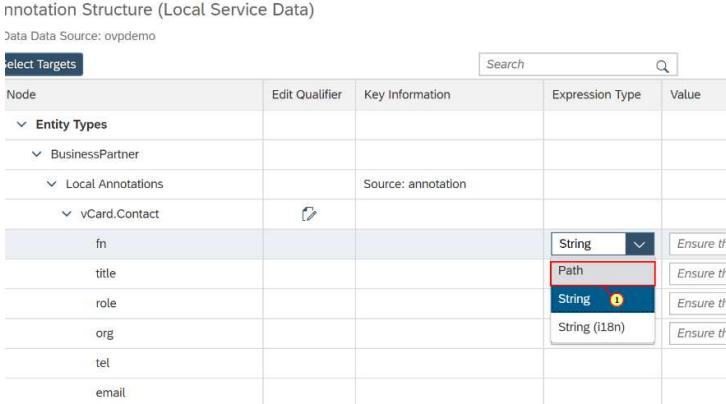
Explanation	Screenshot
(1) Click Next .	 <p>New Card Template Customization</p> <p>General Entity Set*</p> <p>Title*</p> <p>Subtitle</p> <p>Authorization</p> <p>Annotations Identification</p> <p>SelectionVariant</p> <p>PresentationVariant</p> <p>Annotation Path</p> <p>Card Properties</p> <p><input type="checkbox"/> Add OData Select</p> <p>Sort By</p> <p>Sort Order</p> <p>Previous Next 1</p>
(1) Click Next .	 <p>New Card Define Card Size</p> <p>Row Span <input type="text" value="Enter number of rows"/></p> <p>Col Span <input type="text" value="Enter number of columns"/></p> <p><input type="checkbox"/> Disable resizing</p> <p><input type="checkbox"/> View header information only</p> <p>Previous Next 1</p>

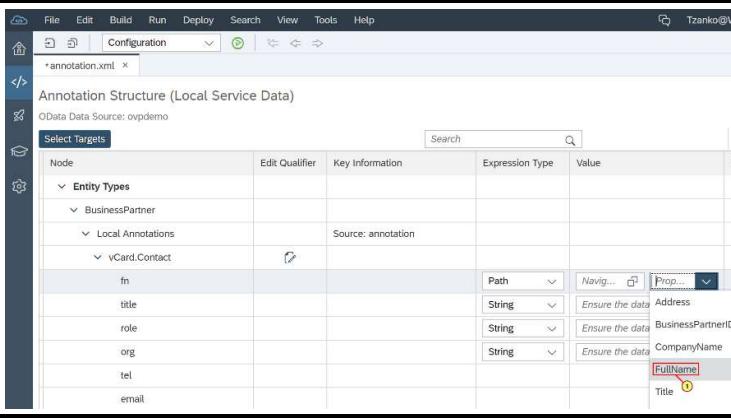
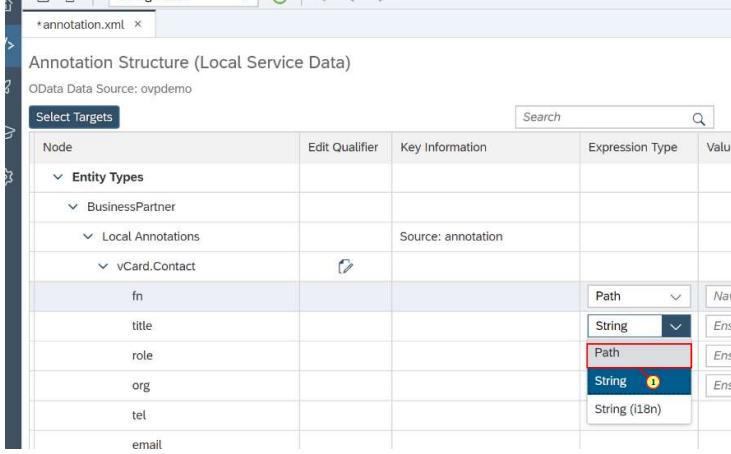
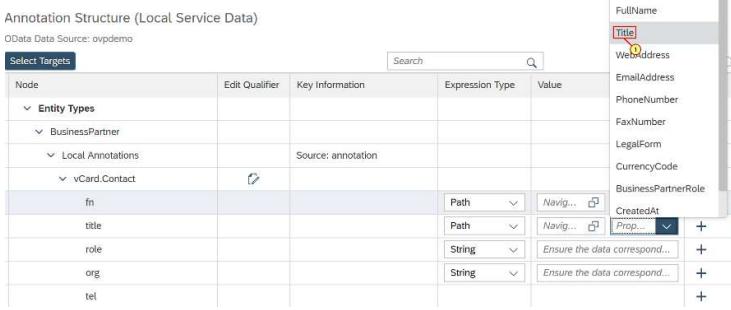
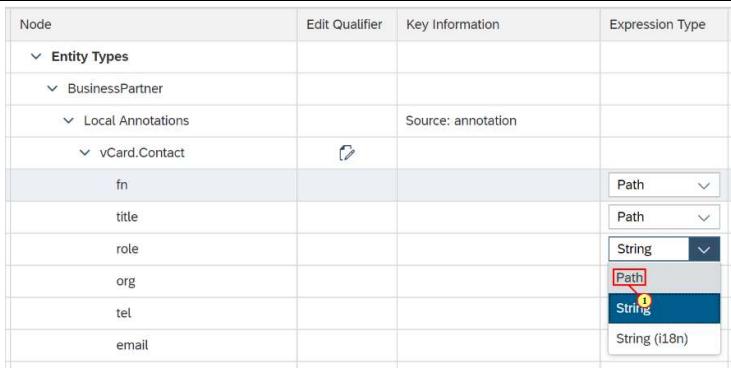
Explanation	Screenshot
(1) Click Finish	 <p>New Card Confirmation</p> <p>A new component will be created.</p> <p>Previous Finish</p>
(1) Take note of the new entry in the manifest generated by the card creation wizard.	 <pre> manifest.json x 82 "cozy": true 83 }, 84 }, 85 + 86 "sap.fiori": { 87 "registrationIds": [], 88 "archetype": "analytical" 89 }, 90 "sap.ovp": { 91 "globalFilterModel": "ovpdemo", 92 "globalFilterEntityType": "GlobalFilters", 93 "containerLayout": "resizable", 94 "enableLiveFilter": false, 95 "considerAnalyticalParameters": false, 96 "cards": [97 "card00": { 98 "model": "ovpdemo", 99 "template": "sap.ovp.cards.list", 100 "settings": { 101 "title": "{{(card00_title)}", 102 "entitySet": "ProductSet", 103 "listType": "condensed", 104 "add0DataSelect": false, 105 "annotationPath": "com.sap.vocabularies.UI.v1.LineItem" 106 } 107 }, 108 "card01": [109 { 110 "model": "ovpdemo", 111 "template": "sap.ovp.cards.table", 112 "settings": { 113 "title": "{{(card01_title)}", 114 "subTitle": "{{(card01_subtitle)}", 115 "entitySet": "SalesOrderSet", 116 "sortBy": "CreatedAt", 117 "sortOrder": "descending", 118 "add0DataSelect": false, 119 "annotationPath": "com.sap.vocabularies.UI.v1.LineItem#RecentSalesOrders" 120 } 121 } 122] 123] 124 } </pre>

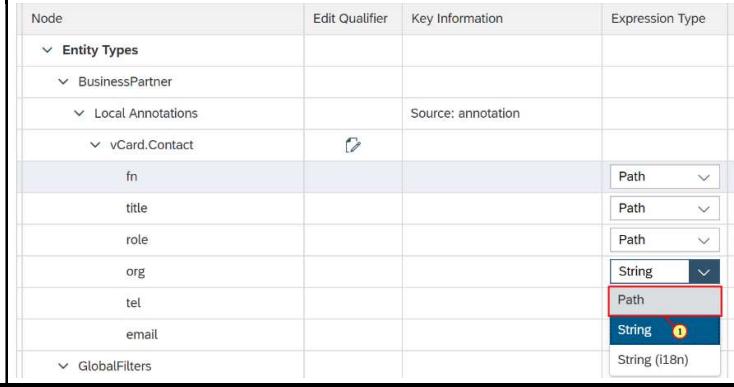
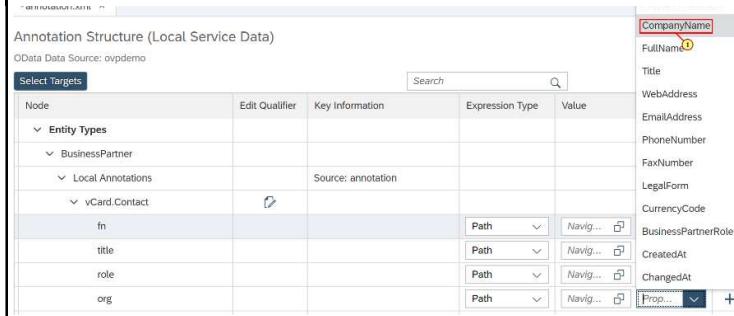
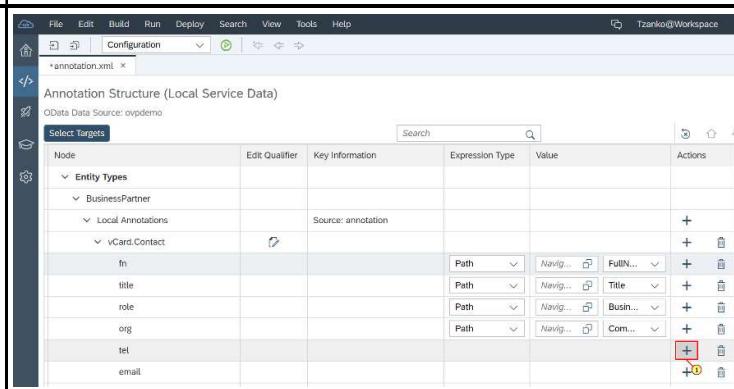
Explanation	Screenshot
<p>(1) Paste the following line after "addOdataSelect": false (do not forget to add the ",") and Save :</p> <pre>"enableLocaleCurrencyFormatting": false</pre>	 <pre>*manifest.json x 6 83 }, 84 }, 85 "sap.fiori": { 86 "registrationIds": [], 87 "archetype": "analytical" 88 }, 89 "sap.ovp": { 90 "globalFilterModel": "ovpdemo", 91 "globalFilterEntityType": "GlobalFilters", 92 "containerLayout": "resizable", 93 "enableLiveFilter": false, 94 "considerAnalyticalParameters": false, 95 "cards": [96 "card00": { 97 "model": "ovpdemo", 98 "template": "sap.ovp.cards.list", 99 "settings": { 100 "title": "{{(card00_title)}", 101 "entitySet": "ProductSet", 102 "listType": "condensed", 103 "addOdataSelect": false, 104 "annotationPath": "com.sap.vocabularies.UI.v1.LineItem" 105 } 106 }, 107 "card01": [] 108], 109 "model": "ovpdemo", 110 "template": "sap.ovp.cards.table", 111 "settings": { 112 "title": "{{(card01_title)}", 113 "subTitle": "{{(card01_subTitle)}", 114 "entitySet": "SalesOrderSet", 115 "sortBy": "CreatedAt", 116 "sortOrder": "descending", 117 "addOdataSelect": false, 118 "annotationPath": "com.sap.vocabularies.UI.v1.LineItem#RecentSalesOrders", 119 "enableLocaleCurrencyFormatting": false 120 } 121 } 122}</pre>
<p>(1) Run the app .</p>	
<p>Your second card is up and running. You can resize it and observe how more columns are shown based on its size.</p> <p>However, showing Business Partner IDs without any additional meaningful information is not very helpful. Let's try to address this.</p>	

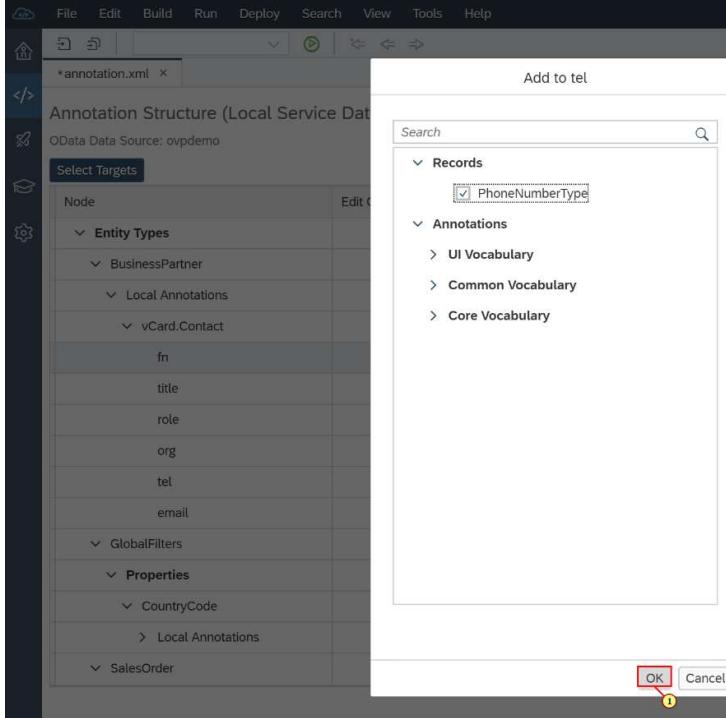
Explanation	Screenshot
(1) You will now add a Contact annotation to the BusinessPartner entity. Go back to your annotation file and Click Select Targets	 <p>The screenshot shows the SAP Fiori Elements annotation structure interface. The top navigation bar includes 'File', 'Edit', and 'Build' options. Below the navigation is a toolbar with icons for saving, loading, and configuration. The main area displays the file path '* annotation.xml'. The title 'Annotation Structure' is visible, along with the text 'OData Data Source: ovi'. A prominent blue button labeled 'Select Targets' is highlighted with a red box and a yellow circle containing the number '1'.</p>
(1) Select BusinessPartner and Click OK	 <p>The screenshot shows the 'Select Targets' dialog box. Under the 'Entity Types' section, the 'BusinessPartner' checkbox is selected and highlighted with a red box. Other entities listed include Contact, GlobalFilters, GlobalParameters, Product, SalesOrder, SalesShareType, and VH_BPRole. At the bottom right of the dialog, the 'OK' button is also highlighted with a red box.</p>

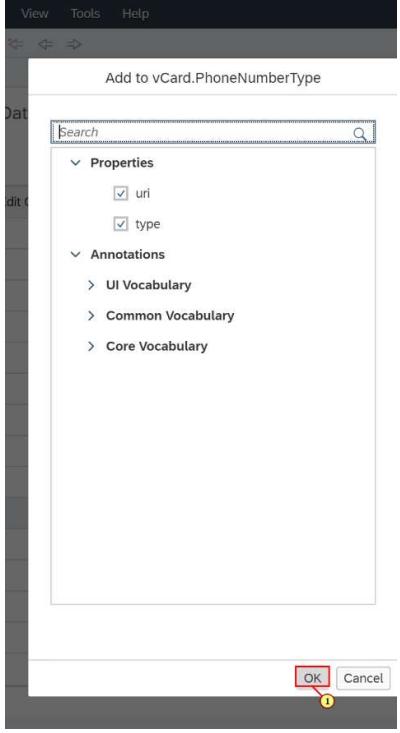
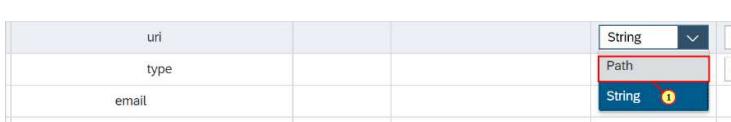
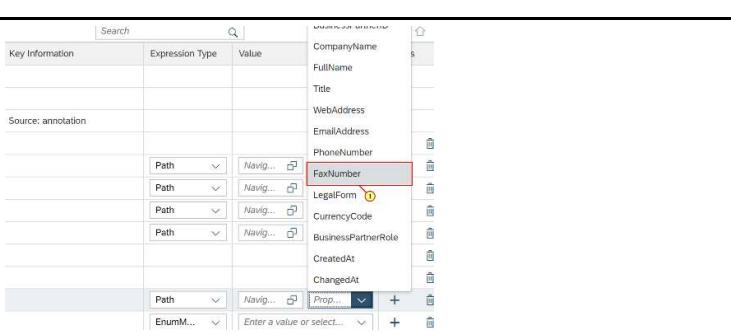
Explanation	Screenshot
<p>(1) Click  at Local annotations for BusinessPartner.</p>	
<p>(1) Select Contact and Click </p>	
<p>(1) Click  on Communication.Contact</p>	

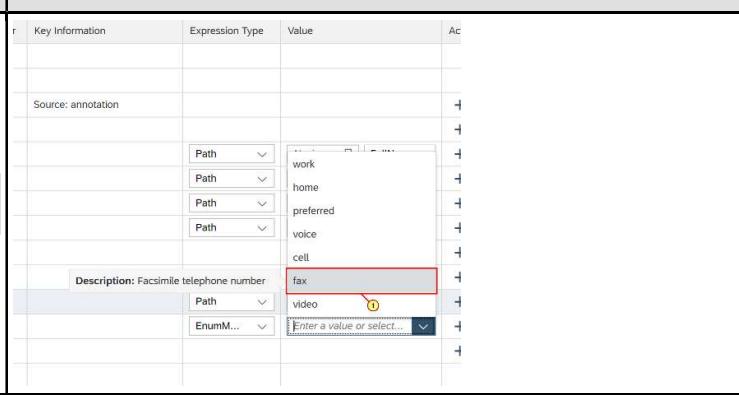
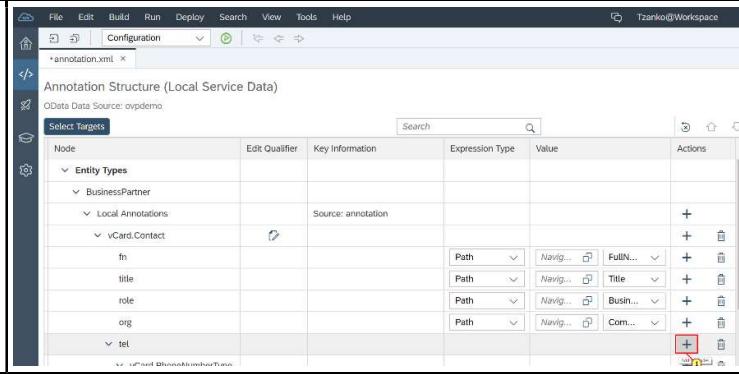
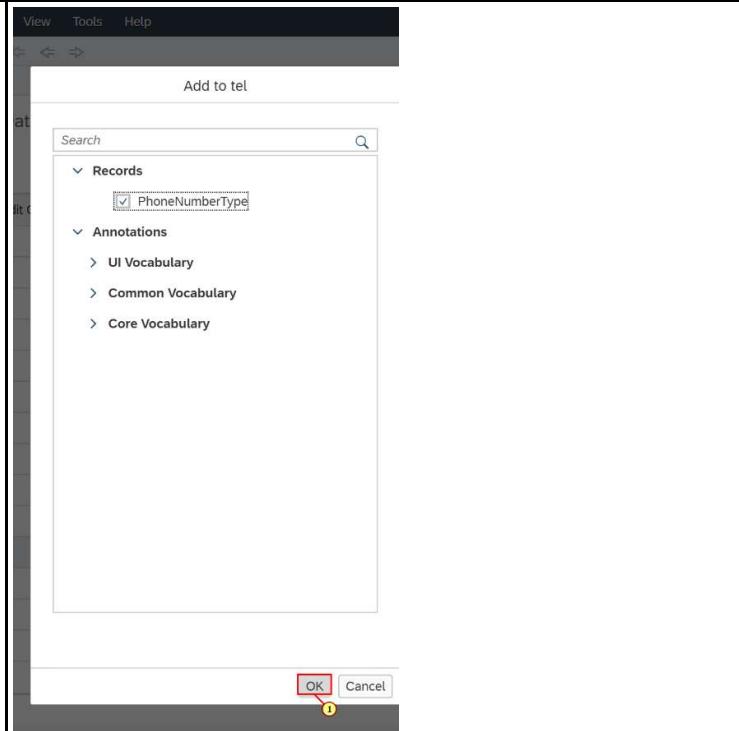
Explanation	Screenshot
<p>(1) Select the following: fn, title, role, org, tel, email and Click OK</p>	
<p>(1) For fn Bind to a Path</p>	

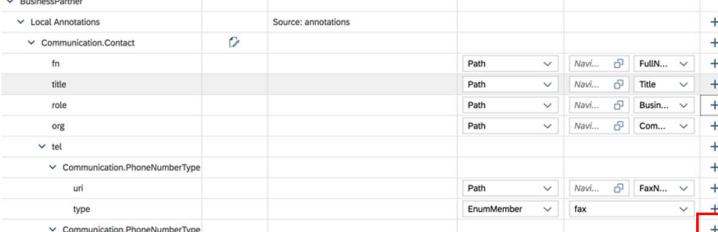
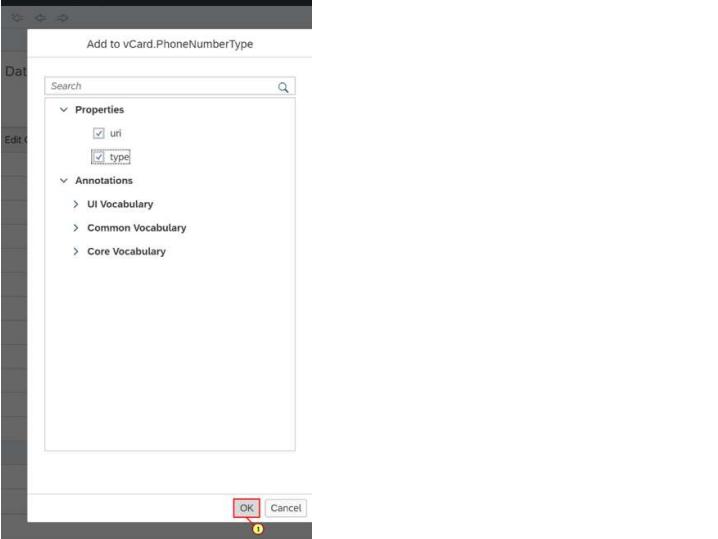
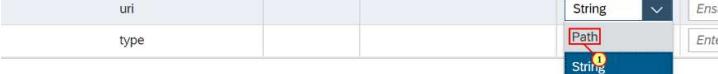
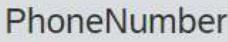
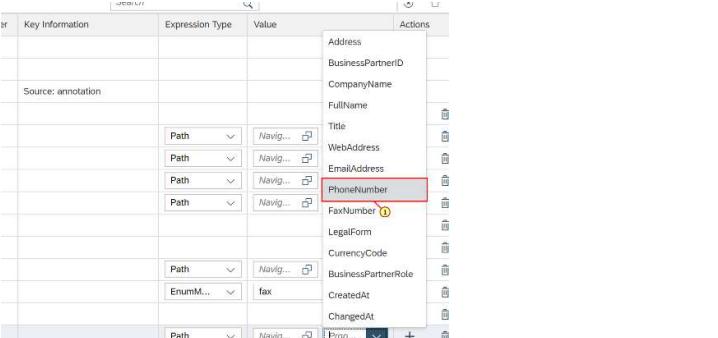
Explanation	Screenshot
(1) Select FullName	
(1) For title, Select Path	
(1) Select Title	
(1) For role, Select Path	

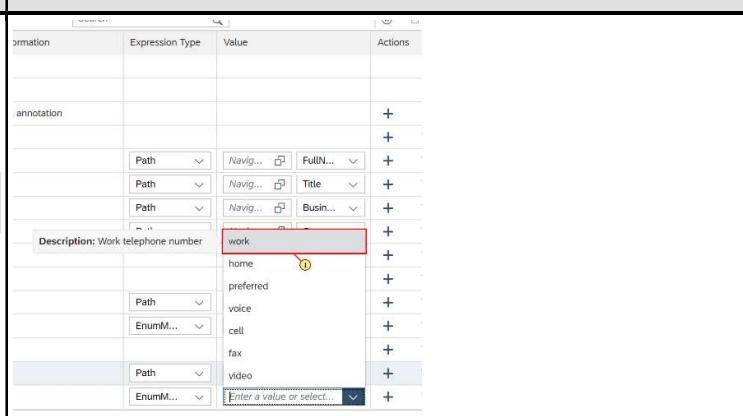
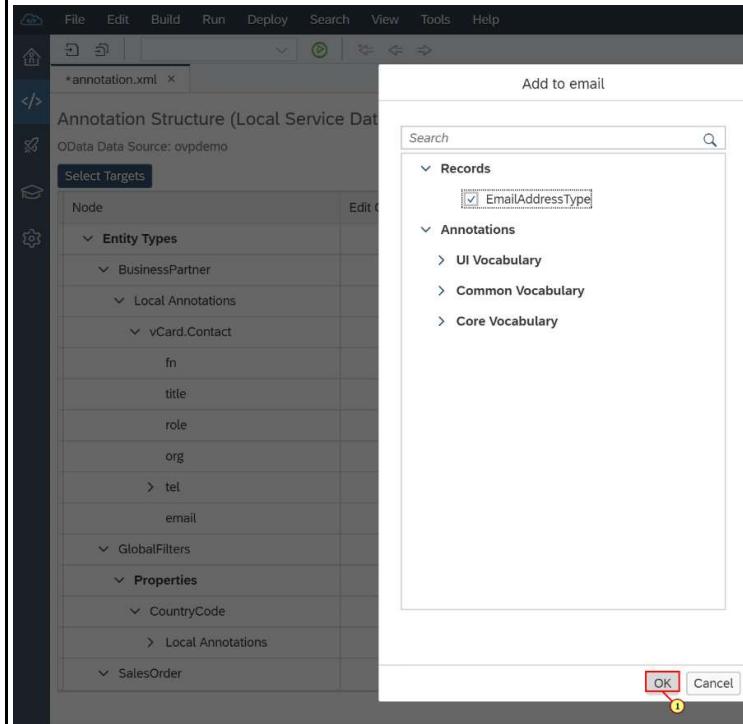
Explanation	Screenshot
(1) Select BusinessPartnerRole	 The screenshot shows the SAP Fiori Elements annotation editor. In the 'Entity Types' section, under 'BusinessPartner', 'Local Annotations', and 'vCard.Contact', the 'org' field is selected. The 'Expression Type' dropdown is set to 'Path' and the 'Value' field contains 'BusinessPartnerRole'. A red box highlights the 'BusinessPartnerRole' value.
(1) Select Path	 The screenshot shows the SAP Fiori Elements annotation editor. In the 'Entity Types' section, under 'BusinessPartner', 'Local Annotations', and 'vCard.Contact', the 'tel' field is selected. The 'Expression Type' dropdown is set to 'Path' and the 'Value' field is empty. A red box highlights the 'Path' expression type.
(1) For Org, select "Path" and Select CompanyName	 The screenshot shows the SAP Fiori Elements annotation editor. In the 'Entity Types' section, under 'BusinessPartner', 'Local Annotations', and 'vCard.Contact', the 'org' field is selected. The 'Expression Type' dropdown is set to 'Path' and the 'Value' field contains 'CompanyName'. A red box highlights the 'CompanyName' value.
(1) You will now add two phone types. Click  at tel.	 The screenshot shows the SAP Fiori Elements annotation editor. In the 'Entity Types' section, under 'BusinessPartner', 'Local Annotations', and 'vCard.Contact', the 'tel' field is selected. The 'Expression Type' dropdown is set to 'Path' and the 'Value' field contains 'CompanyName'. A red box highlights the '+' button in the 'Actions' column, indicating where to click to add another phone type.

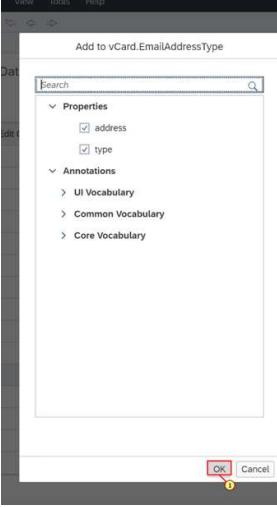
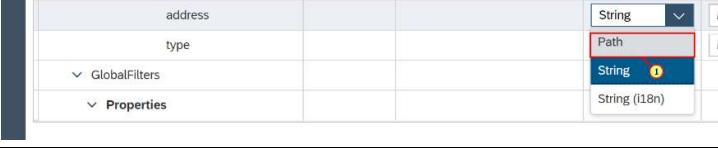
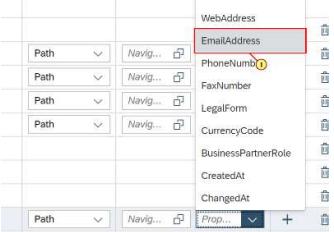
Explanation	Screenshot
<p>(1) Select PhoneNumberType and Click </p>	
<p>(1) Select  on Communication.PhoneNumberType.</p>	

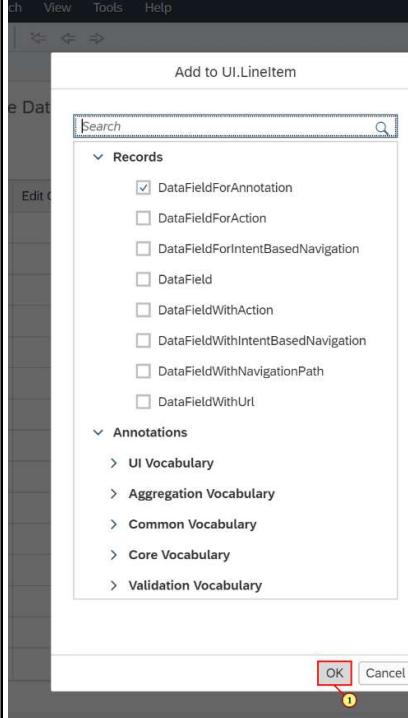
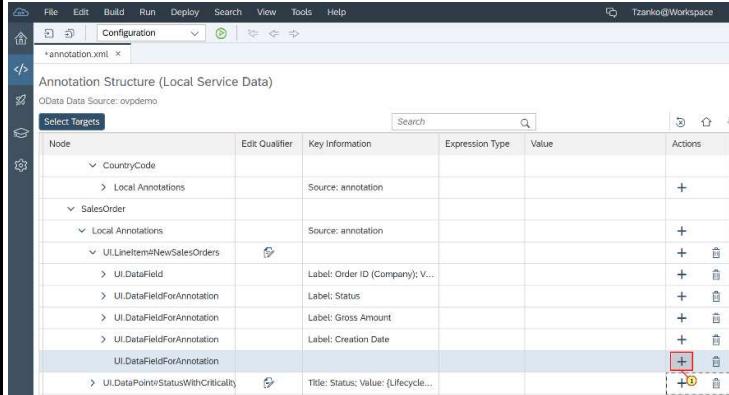
Explanation	Screenshot
(1) Select both the uri and type and Click OK	
(1) For Uri, Select Path	
(1) Select FaxNumber	

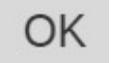
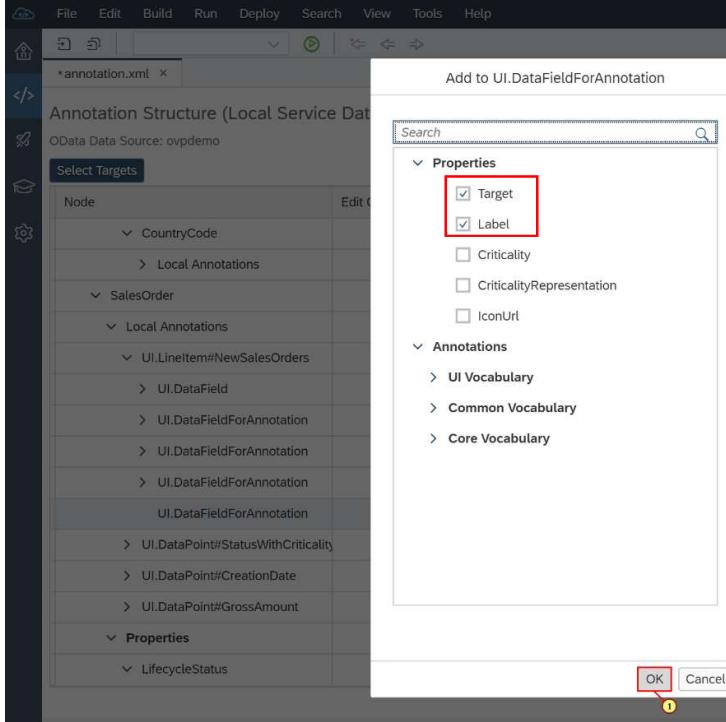
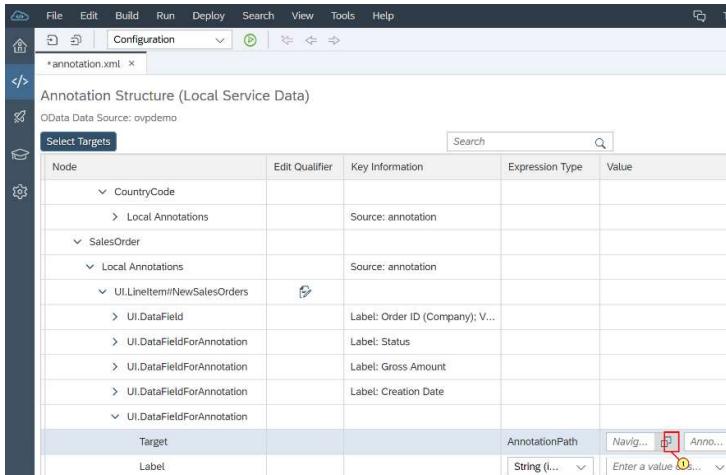
Explanation	Screenshot
(1) For type, Select EnumMember as fax	
(1) Click + at tel.	
(1) Select the PhoneNumberType again and Click OK	

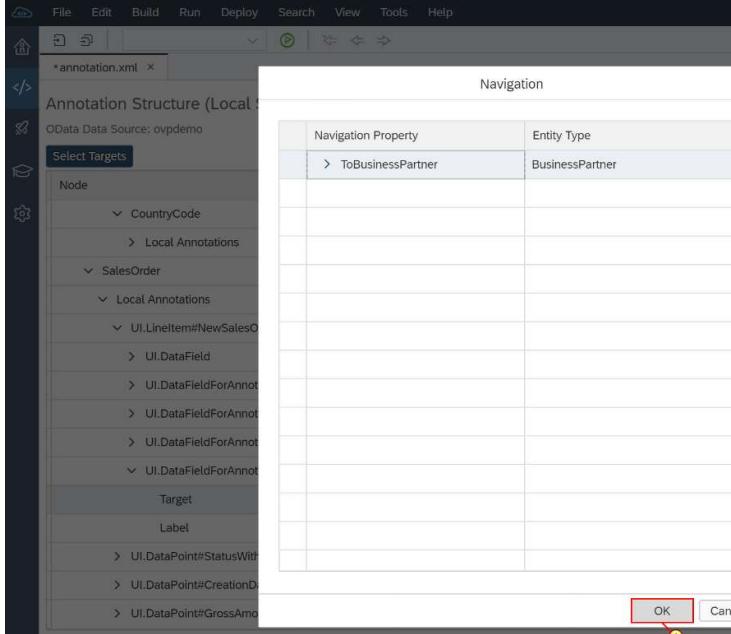
Explanation	Screenshot
<p>(1) Click  at the Communication.PhoneNumberType.</p>	
<p>(1) Select uri and type and Click </p>	
<p>(1) For Uri, Select </p>	
<p>(1) Select </p>	

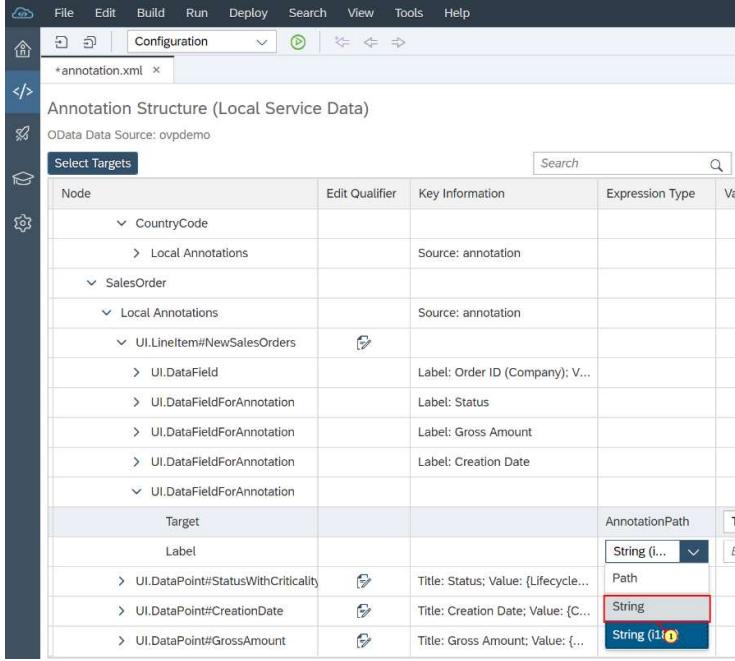
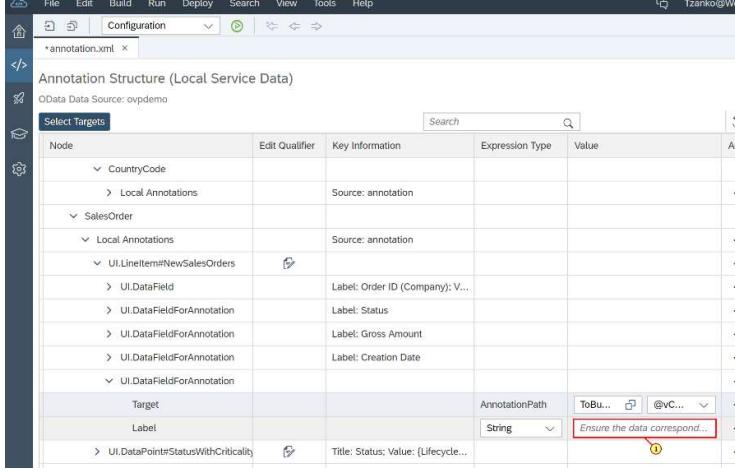
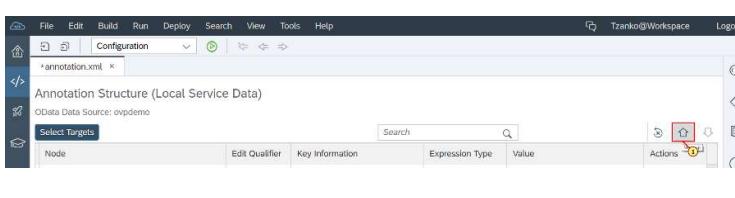
Explanation	Screenshot
(1) For enumMember, Select work	 A screenshot of the Fiori Elements annotation editor. The 'enumMember' dropdown for the 'tel' field is open, showing options like 'home', 'preferred', 'voice', 'cell', 'fax', 'video', and 'EnumMember...'. The option 'work' is selected and highlighted with a red box.
(1) Click + at email.	 A screenshot of the Fiori Elements annotation editor. The 'email' row in the 'tel' section has a '+' button at the end of its row, which is highlighted with a red box.
(1) Select EmailAddressType and Click OK	 A screenshot of the Fiori Elements annotation editor. A modal dialog titled 'Add to email' is open. In the 'Records' section, 'EmailAddressType' is selected and checked. At the bottom right of the dialog, the 'OK' button is highlighted with a red box.

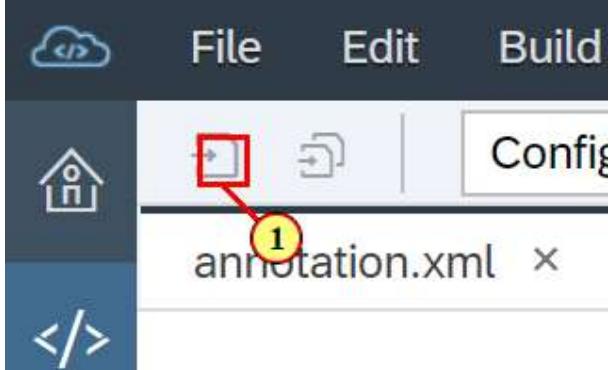
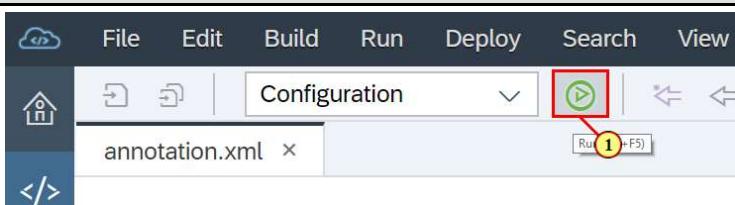
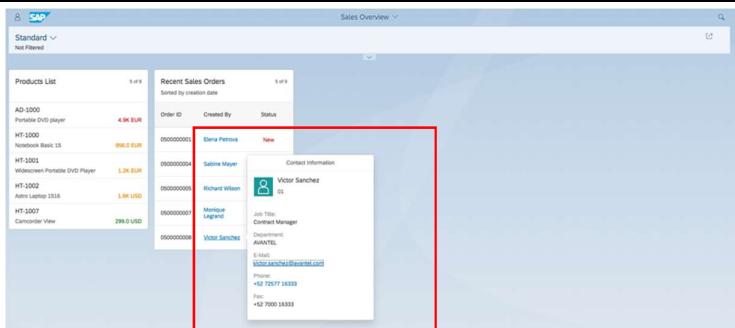
Explanation	Screenshot
(1) Click  at Communication.EmailAddressType.	
(1) Select address and type and Click  .	
(1) For address, Select Path	
(1) Select EmailAddress	
(1) For enumMember of type, Select work	
(1) Now let's delete the DataPoint to the BusinessPartner under salesOrder's lineitem annotation. Click  .	

Explanation	Screenshot
<p>(1) We will replace it with a DataFieldForAnnotation pointing to the previously created Contact.</p>  <p>Click . Corresponding to lineitem on salesorder</p>	
<p>(1) Select DataFieldForAnnotation and Click .</p>	
<p>(1) Click .</p>	

Explanation	Screenshot
<p>(1) Check both Target and Label and Click </p>	
<p>(1) Click </p>	

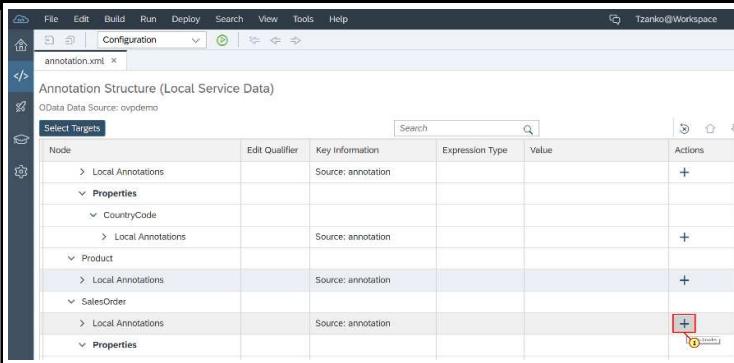
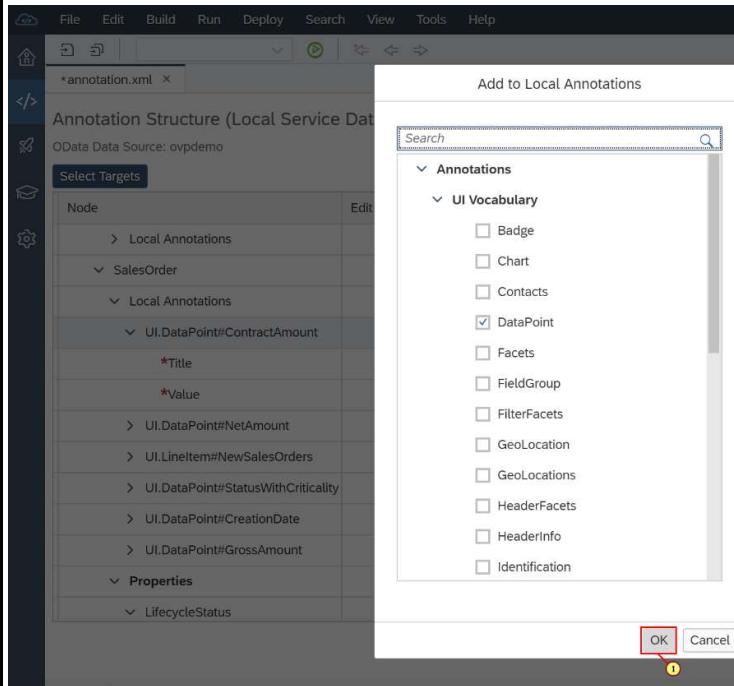
Explanation	Screenshot																												
<p>(1) Choose ToBusinessPartner navigation property and Click</p> <p style="text-align: center;">OK</p>	 <table border="1" data-bbox="878 397 1323 846"> <thead> <tr> <th data-bbox="886 397 1111 424">Navigation Property</th> <th data-bbox="1111 397 1323 424">Entity Type</th> </tr> </thead> <tbody> <tr> <td data-bbox="886 424 1111 451">> ToBusinessPartner</td> <td data-bbox="1111 424 1323 451">BusinessPartner</td> </tr> </tbody> </table>	Navigation Property	Entity Type	> ToBusinessPartner	BusinessPartner																								
Navigation Property	Entity Type																												
> ToBusinessPartner	BusinessPartner																												
<p>(1) Bind the target to the Contact. @Communication.Contact</p>	 <table border="1" data-bbox="608 952 1339 1184"> <tbody> <tr> <td data-bbox="608 952 747 979">SalesOrder</td> <td data-bbox="747 952 768 979">+</td> </tr> <tr> <td data-bbox="608 979 747 1007">Local Annotations</td> <td data-bbox="747 979 768 1007">+</td> </tr> <tr> <td data-bbox="608 1007 747 1034">UI.LineItem#RecentSalesOrders</td> <td data-bbox="747 1007 768 1034">+</td> </tr> <tr> <td data-bbox="608 1034 747 1062"> > UI.DataField</td> <td data-bbox="747 1034 768 1062">+</td> </tr> <tr> <td data-bbox="608 1062 747 1089"> > UI.DataField</td> <td data-bbox="747 1062 768 1089">+</td> </tr> <tr> <td data-bbox="608 1089 747 1117"> > UI.DataFieldForAnnotation</td> <td data-bbox="747 1089 768 1117">+</td> </tr> <tr> <td data-bbox="608 1117 747 1144"> > UI.DataField</td> <td data-bbox="747 1117 768 1144">+</td> </tr> <tr> <td data-bbox="608 1144 747 1172"> > UI.DataFieldForAnnotation</td> <td data-bbox="747 1144 768 1172">+</td> </tr> <tr> <td data-bbox="608 1172 747 1199"> > UI.DataFieldForAnnotation</td> <td data-bbox="747 1172 768 1199">+</td> </tr> <tr> <td data-bbox="608 1199 747 1227"> Target</td> <td data-bbox="747 1199 768 1227">+</td> </tr> <tr> <td data-bbox="608 1227 747 1254"> Label</td> <td data-bbox="747 1227 768 1254">+</td> </tr> <tr> <td data-bbox="608 1254 747 1281"> AnnotationPath</td> <td data-bbox="747 1254 768 1281">+</td> </tr> <tr> <td data-bbox="608 1281 747 1309"> String (I18n)</td> <td data-bbox="747 1281 768 1309">+</td> </tr> <tr> <td data-bbox="608 1309 747 1336"> @Communication.Contact</td> <td data-bbox="747 1309 768 1336">+</td> </tr> </tbody> </table>	SalesOrder	+	Local Annotations	+	UI.LineItem#RecentSalesOrders	+	> UI.DataField	+	> UI.DataField	+	> UI.DataFieldForAnnotation	+	> UI.DataField	+	> UI.DataFieldForAnnotation	+	> UI.DataFieldForAnnotation	+	Target	+	Label	+	AnnotationPath	+	String (I18n)	+	@Communication.Contact	+
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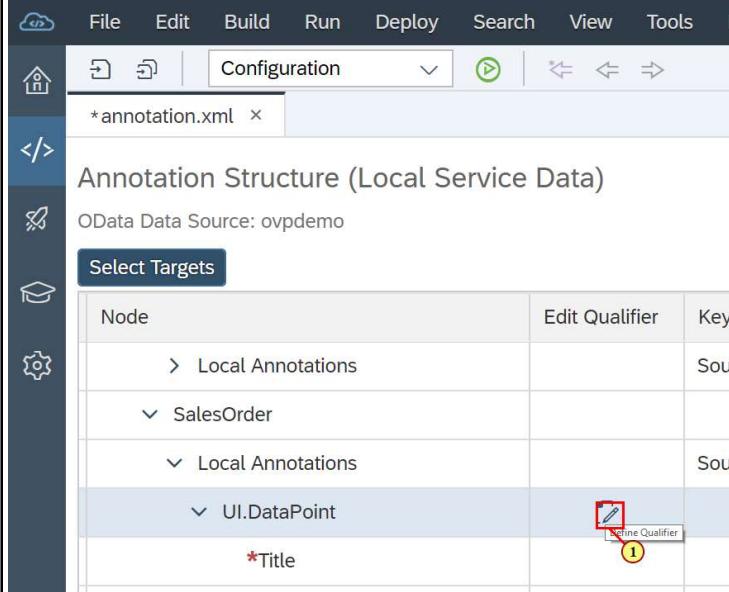
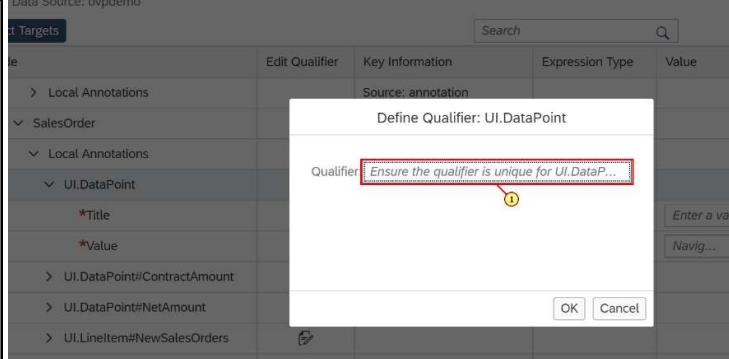
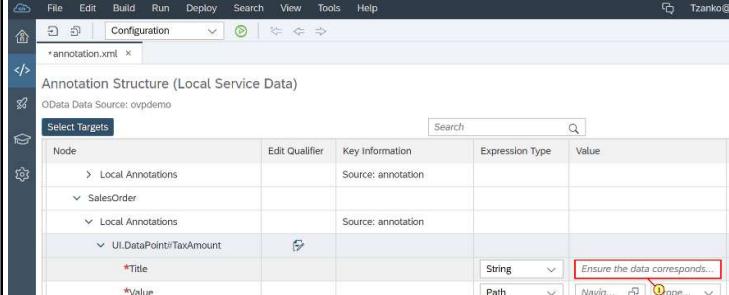
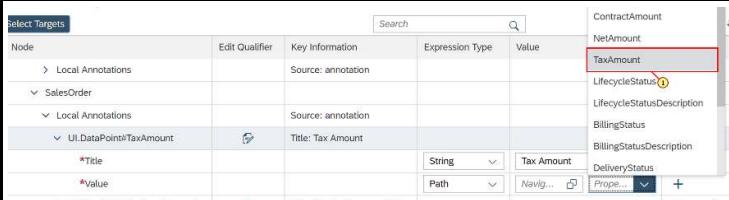
Explanation	Screenshot																																																							
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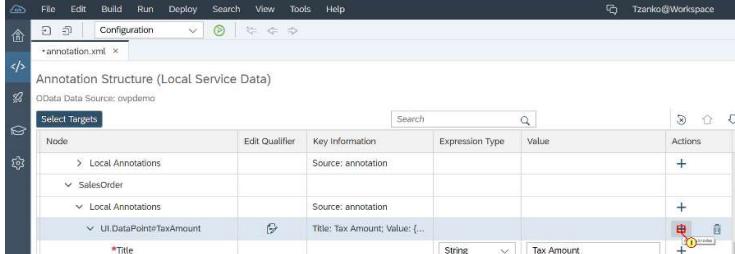
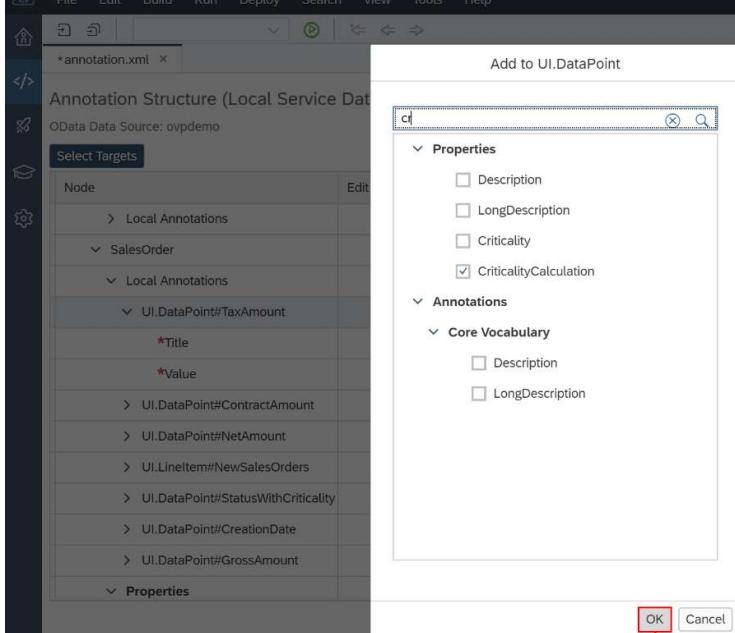
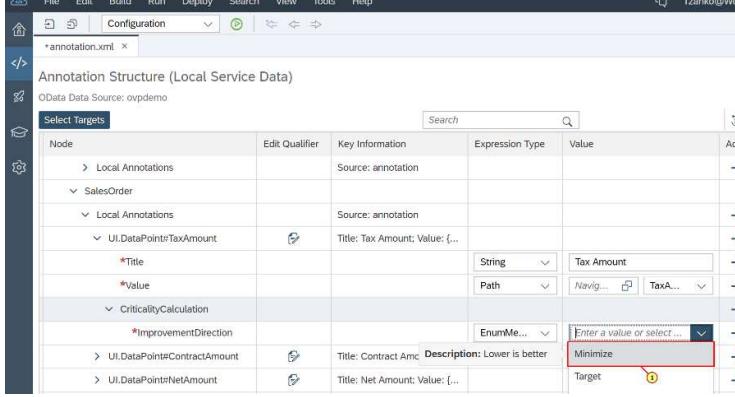
Explanation	Screenshot
(1) Save your changes  .	
(1) Run the app.  .	
<p>Sales Overview - Google Chrome</p> <p>Now instead of BusinessPartner IDs, you have names displayed as links. When you Select on one of these links the Quick View opens and displays the Contact annotations.</p>	

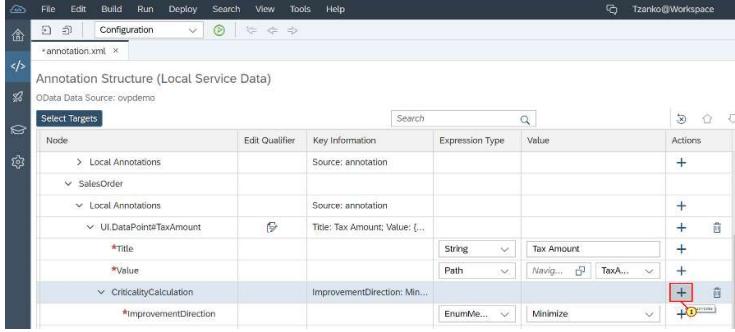
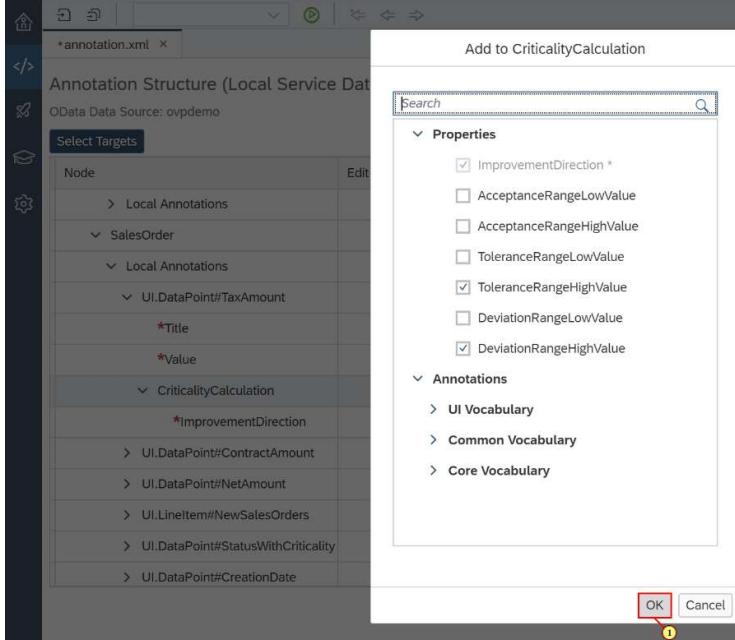
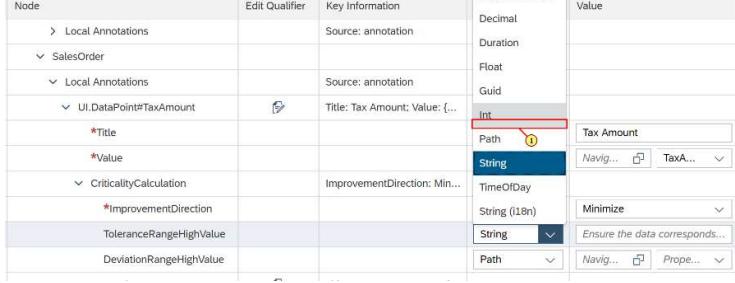
5. Bar List Card

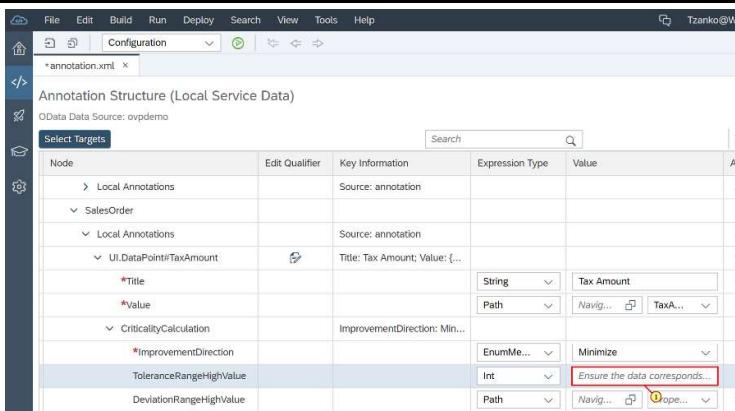
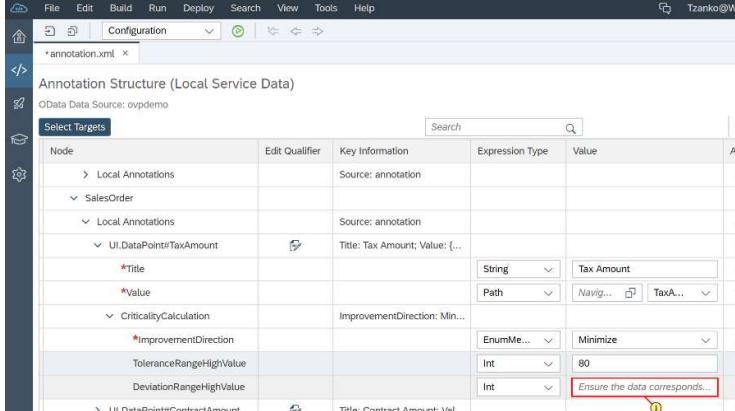
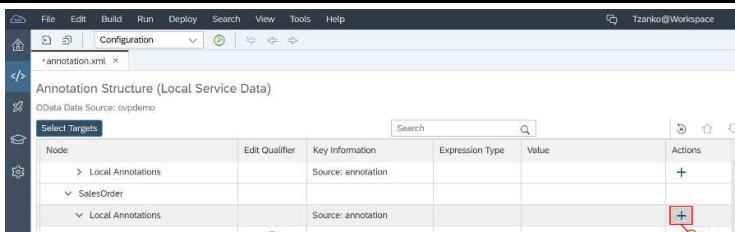
In this chapter you will create a Bar List card. The card will also have a KPI header. The card will use again the SalesOrder entity. For the latter we will define additional DataPoints and LineItems.

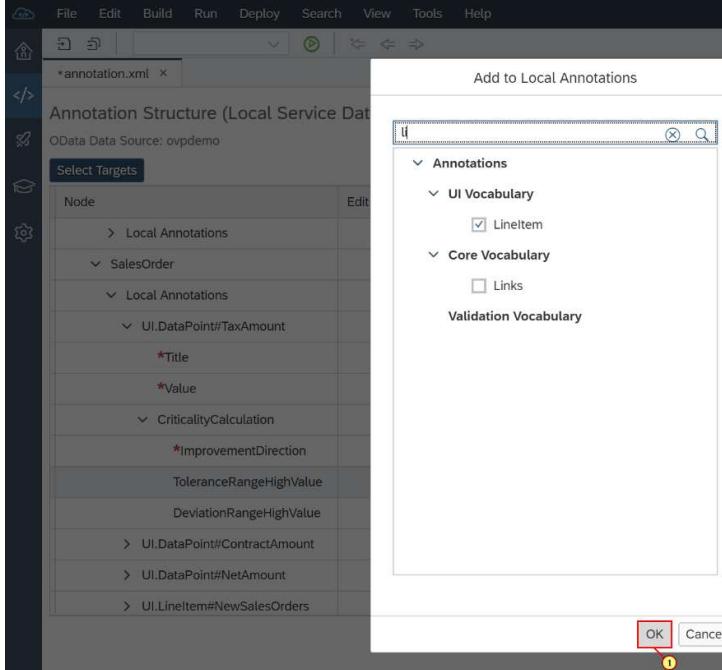
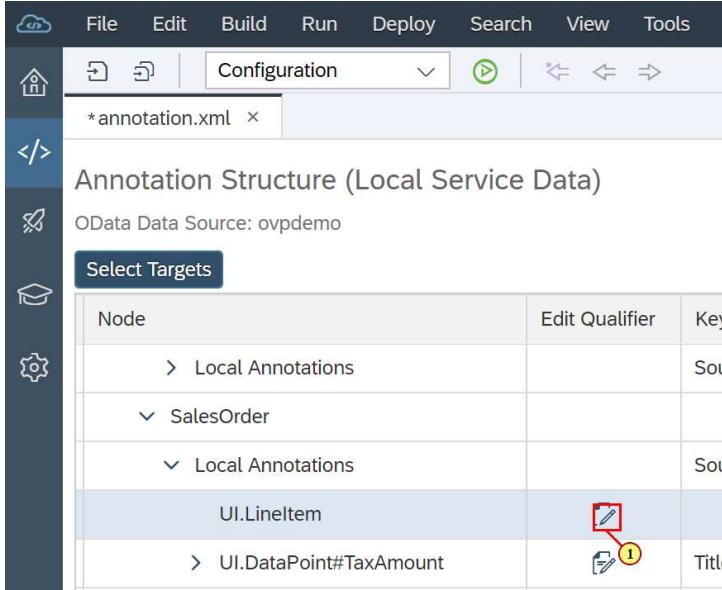
Explanation	Screenshot
<p>(1) Click  at Local Annotations for SalesOrder.</p>	
<p>(1) Select DataPoint and Click </p>	

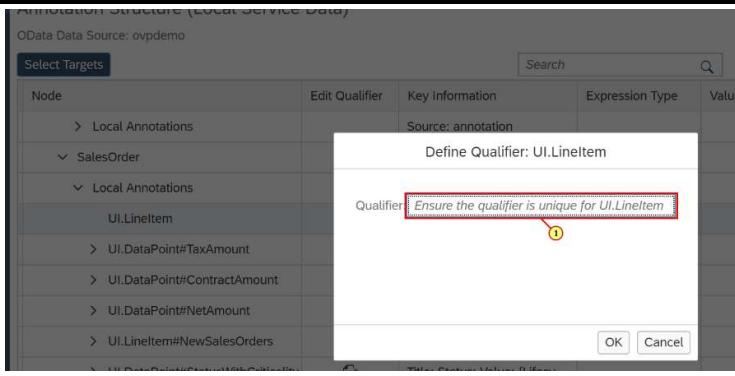
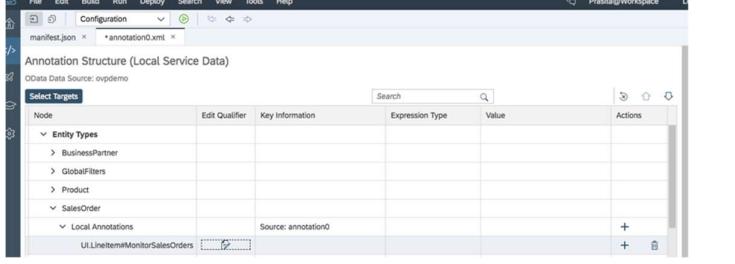
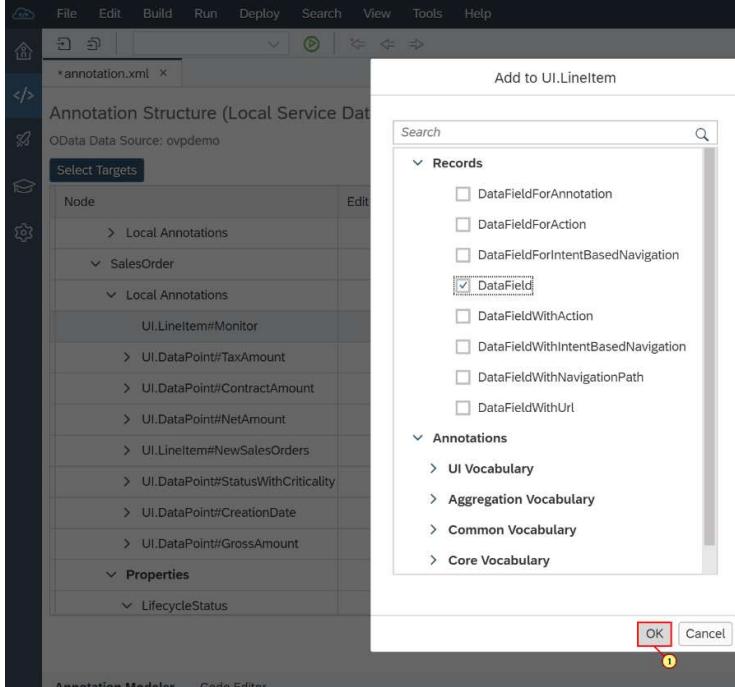
Explanation	Screenshot
(1) Click To add a qualifier	
(1) Put "TaxAmount" and hit Enter.	
(1) Enter "Tax Amount" for the Title (as String).	
(1) Bind the Value to Path TaxAmount	

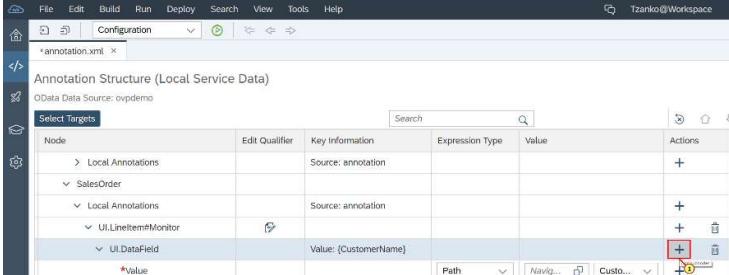
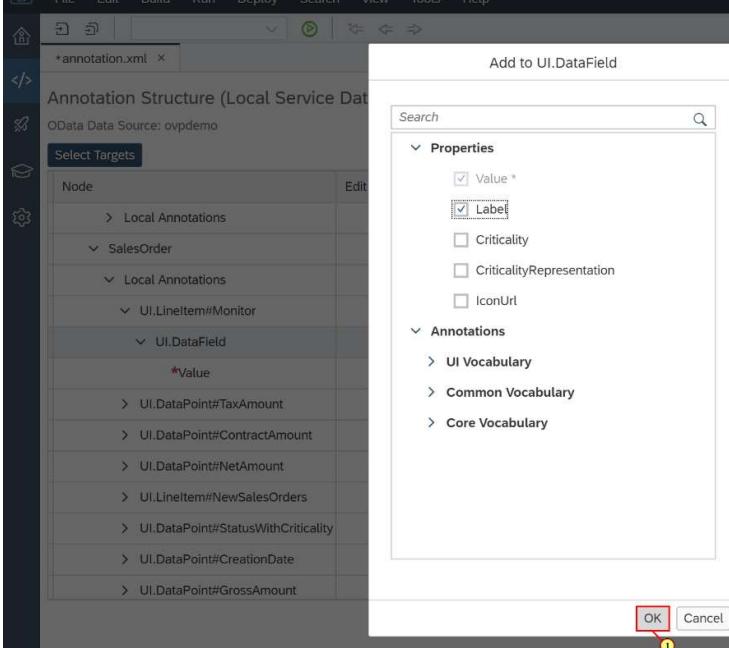
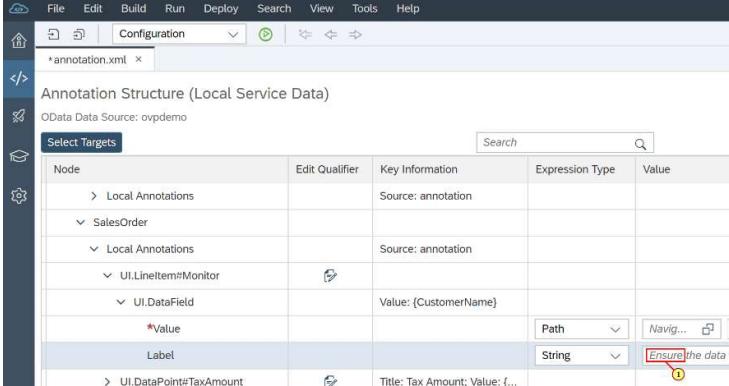
Explanation	Screenshot
(1) Click  .	
(1) Select CriticalityCalculation  and Click	
(1) The ImprovementDirection shall be 	

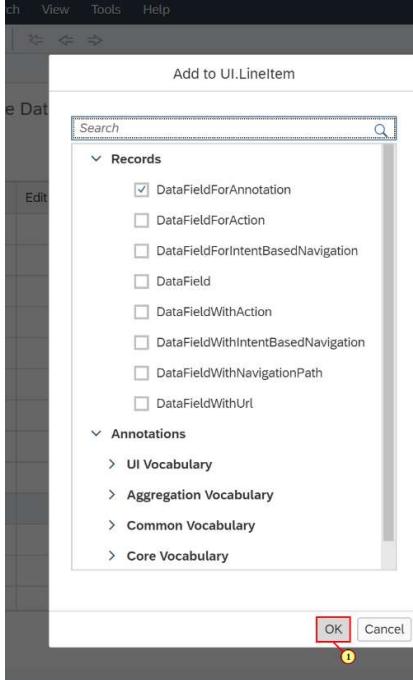
Explanation	Screenshot
<p>(1) Click  . Corresponding to criticalityCalculation</p>	
<p>(1) Select ToleranceRangeHighValue, DeviationRangeHighValue and </p>	
<p>(1) Define ToleranceRangeHighValue as an Int.</p>	

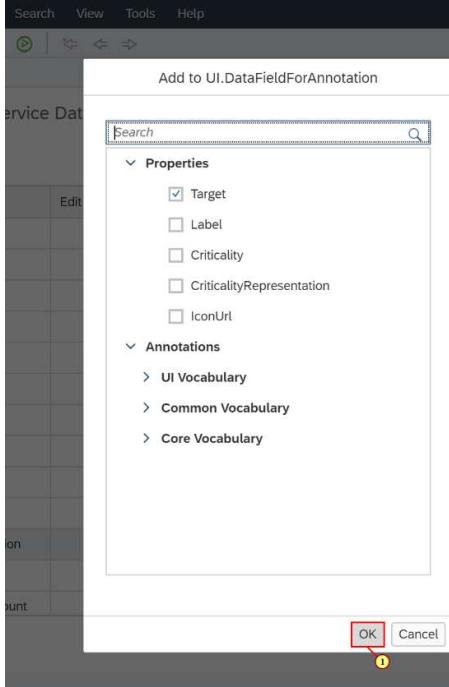
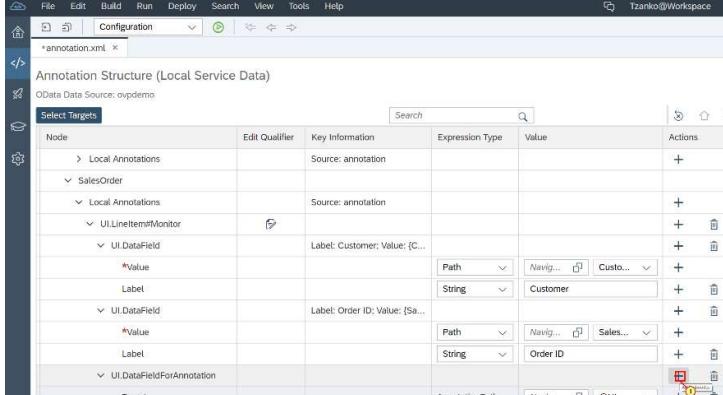
Explanation	Screenshot
(1) .. with a value of 80.	
(1) Enter an Int of 90 for the DeviationRangeHighValue	
<p>(1) Click . Corresponding to local annotations of salesorder</p>	

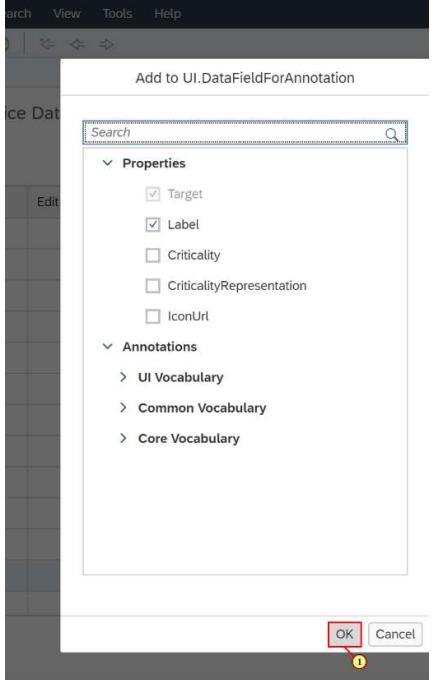
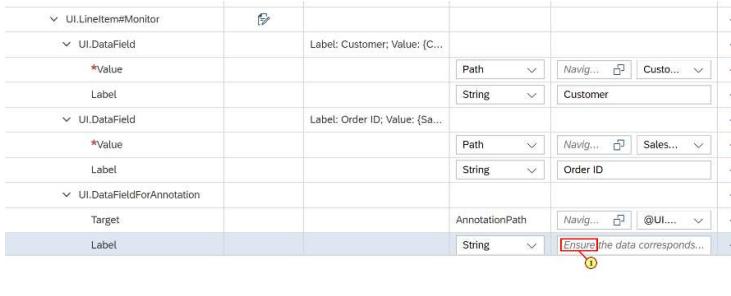
Explanation	Screenshot
(1) Add a LineItem at SalesOrder→Local Annotations.	 <p>The screenshot shows the SAP Fiori Elements annotation editor. A dialog box titled 'Add to Local Annotations' is open. In the 'Annotations' section, under 'UI Vocabulary', 'LineItem' is checked. Under 'Core Vocabulary', 'Links' is unchecked. At the bottom right of the dialog, the 'OK' button is highlighted with a red box.</p>
(1) Click  to add a qualifier.	 <p>The screenshot shows the SAP Fiori Elements annotation editor with a table titled 'Select Targets'. The table has columns for 'Node', 'Edit Qualifier', and 'Key'. Under the 'Edit Qualifier' column, the row for 'UI.LineItem' is highlighted with a red box. The 'UI.LineItem' row also has a pencil icon in the 'Edit Qualifier' column.</p>

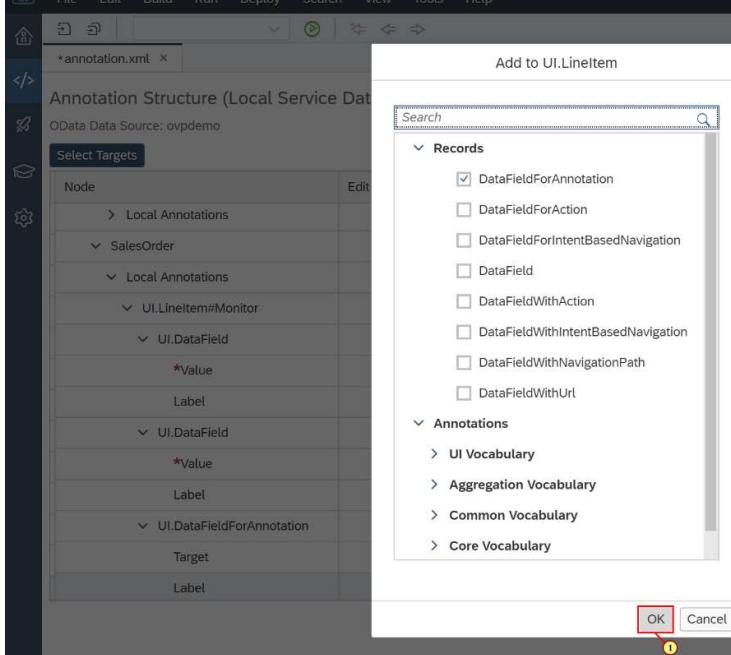
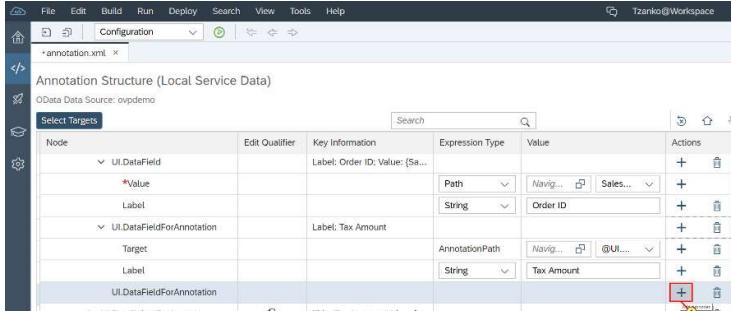
Explanation	Screenshot
(1) Enter "MonitorSalesOrders" as a qualifier and hit Enter.	
(1) Click 	
(1) Select a DataField and Click 	
(1) Bind the Value to Path CustomerName	

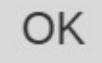
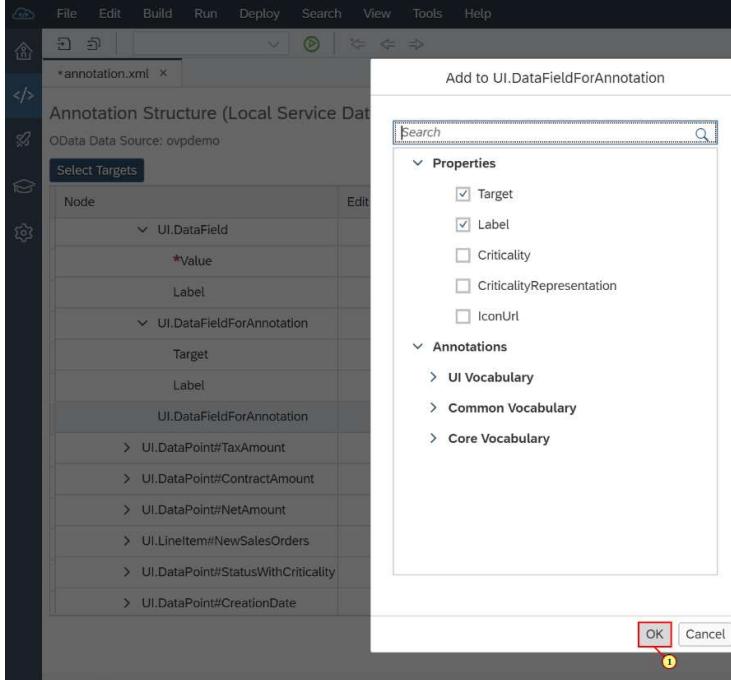
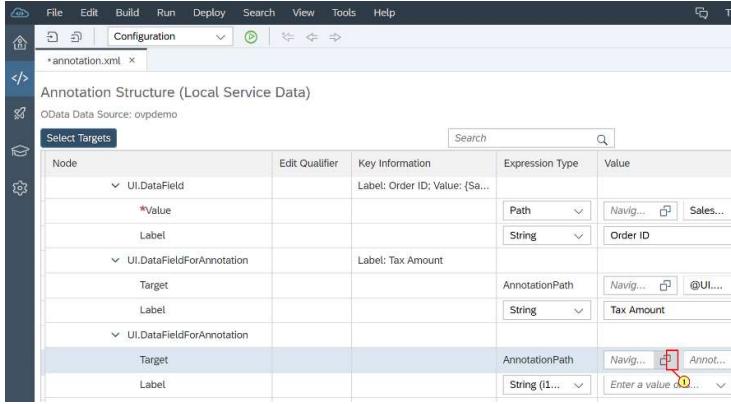
Explanation	Screenshot
(1) Click 	
(1) Select Label and Click 	
(1) Enter "Customer" as a Label (of type String).	

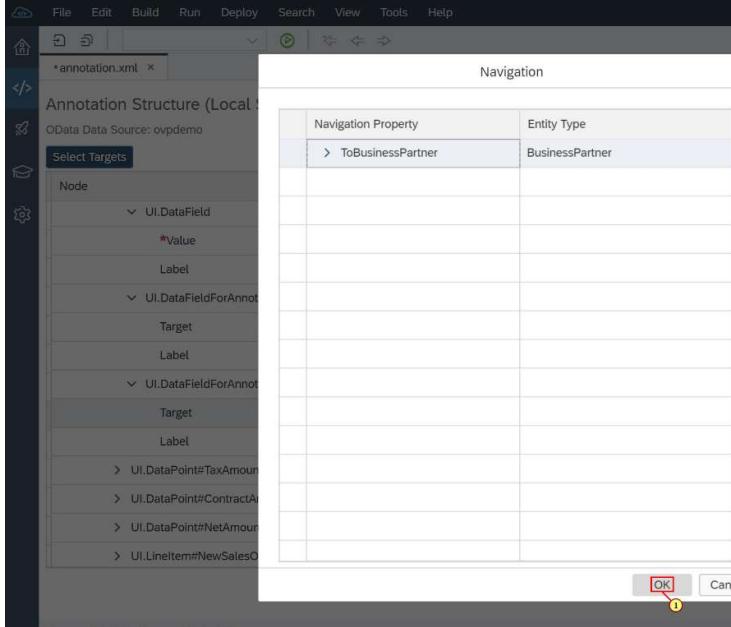
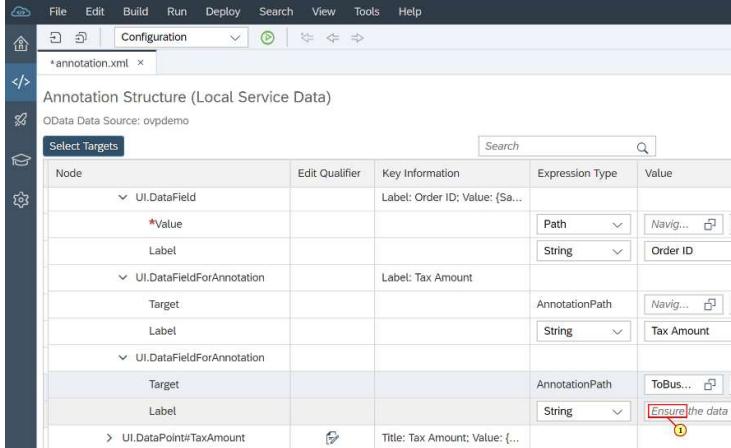
Explanation	Screenshot
<p>(1) Click  corresponding to the lineitem</p>	
<p>(1) Select DataFieldForAnnotation and Click </p>	
<p>(1) Click  at UI.DataFieldForAnnotation.</p>	

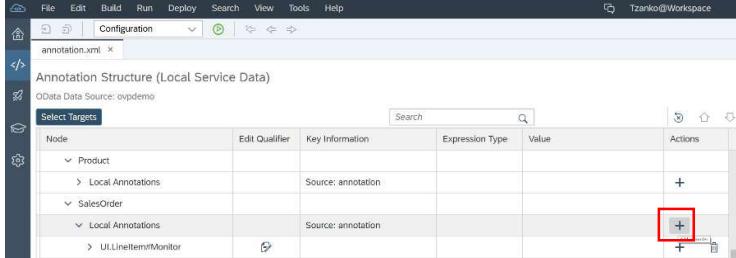
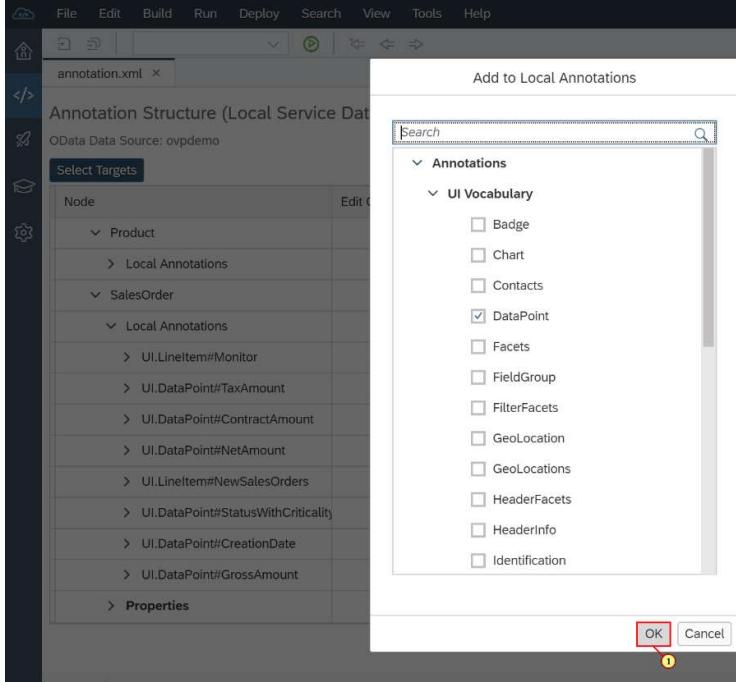
Explanation	Screenshot
(1) Select Target and Click OK	
(1) Bind the Target to Path @UI.DataPoint#TaxAmount	
(1) Click + corresponding to datafieldForAnnotation	

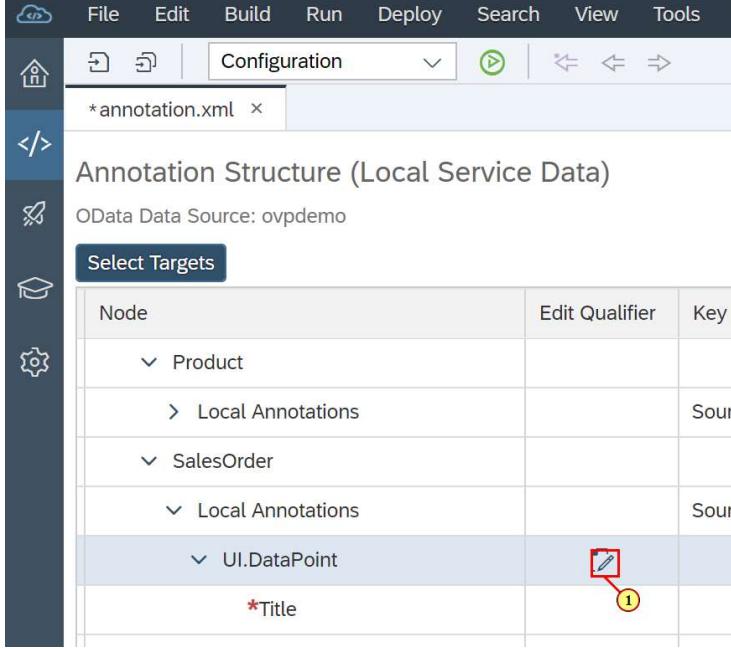
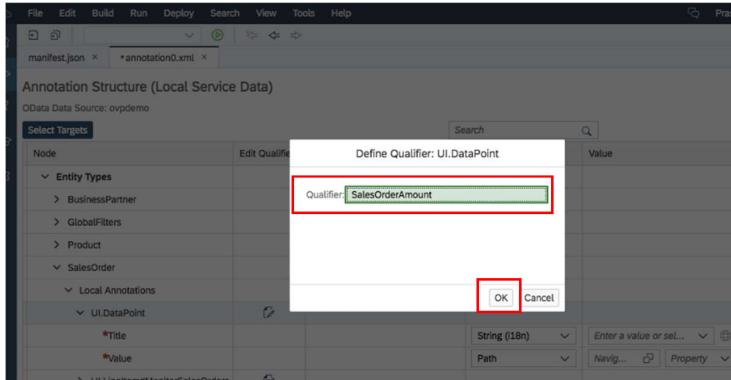
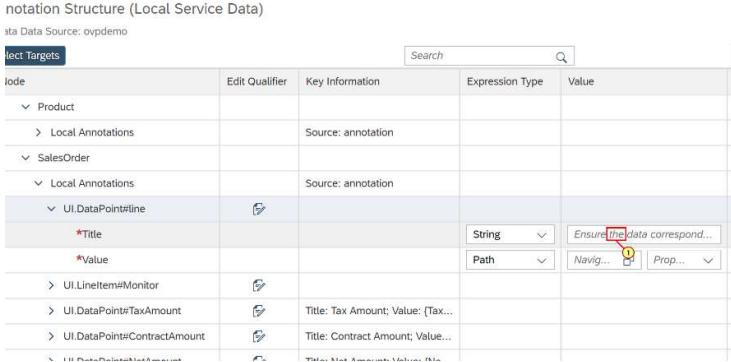
Explanation	Screenshot
(1) Select Label and Click 	 <p>The screenshot shows the configuration dialog for adding a UI.DataFieldForAnnotation. The 'Label' checkbox is checked. At the bottom, the 'OK' button is highlighted with a red box.</p>
(1) As a Label enter "Tax Amount" (as a String).	 <p>The screenshot shows the Fiori Elements configuration interface. In the 'Label' field of a UI.DataFieldForAnnotation component, the text 'Tax Amount' is entered. This field is highlighted with a red box.</p>

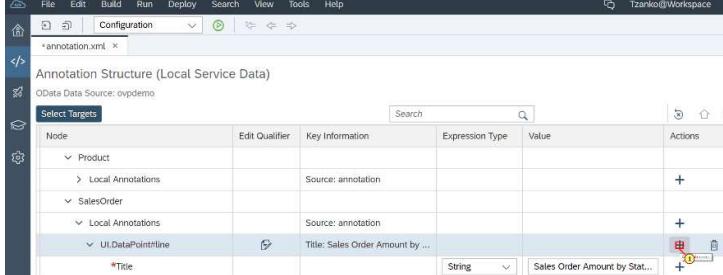
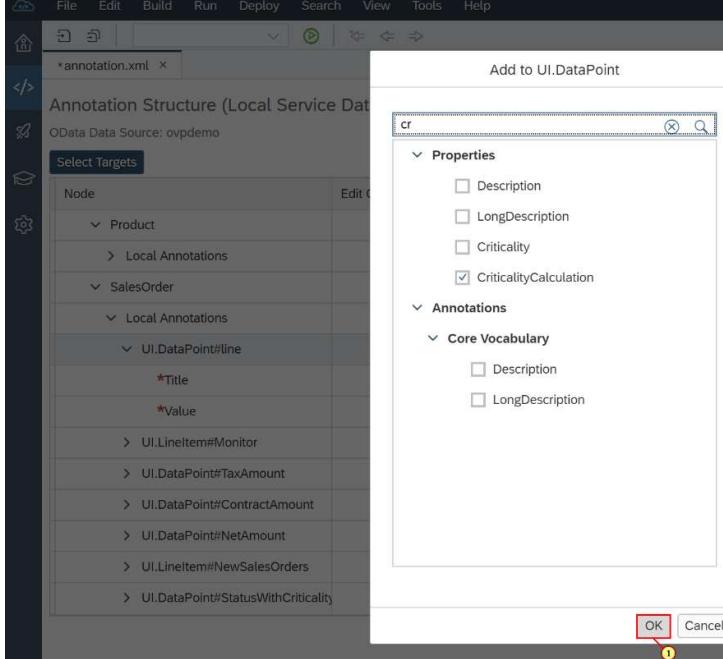
Explanation	Screenshot
<p>(1) Add another DataFieldForAnnotation at lineitem and Click </p>	
<p>(1) Click  at dataFieldForAnnotation</p>	

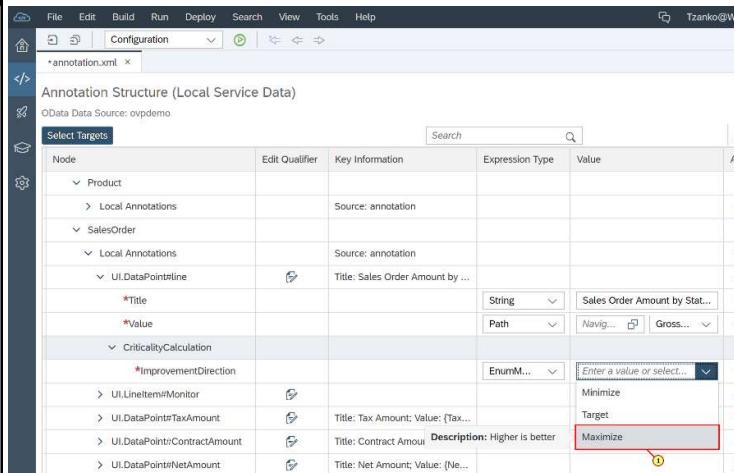
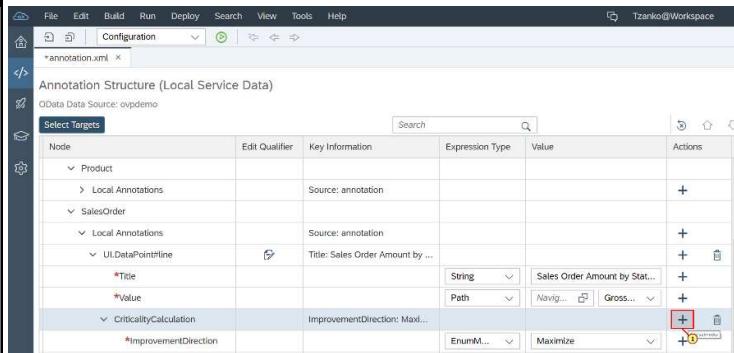
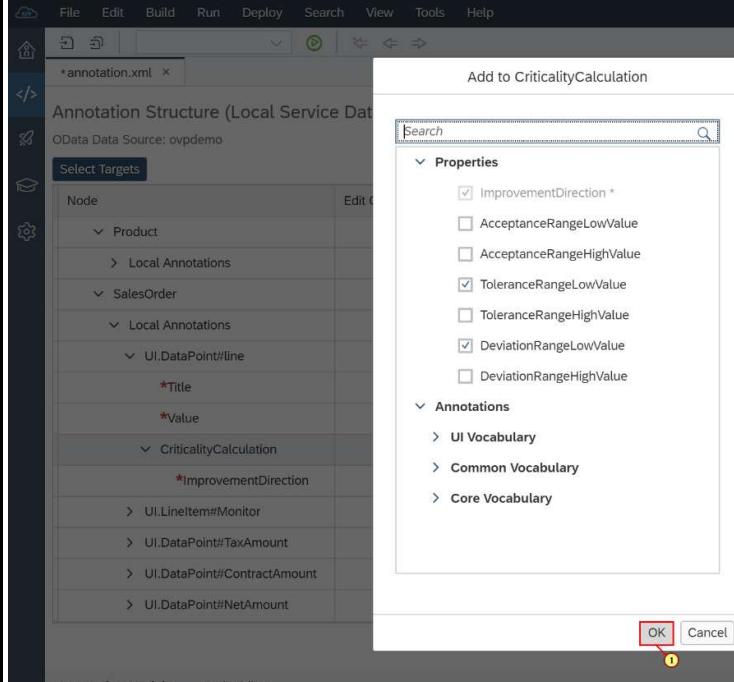
Explanation	Screenshot
<p>(1) Select Target and Label and Click </p>	
<p>(1) Select a NavigationProperty for the AnnotationPath </p>	

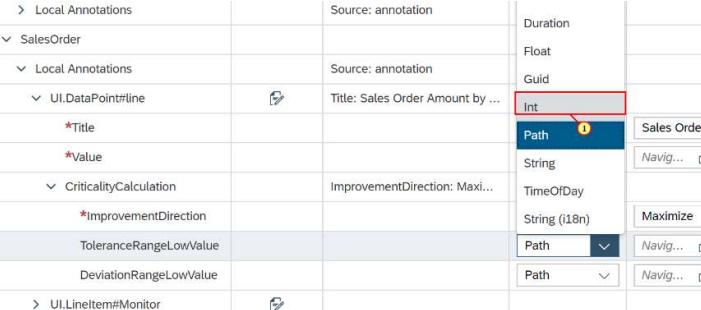
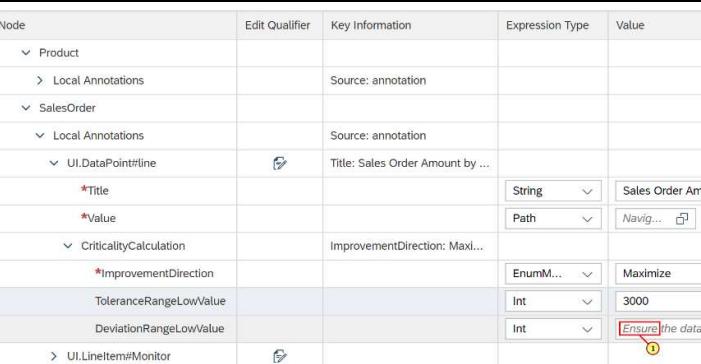
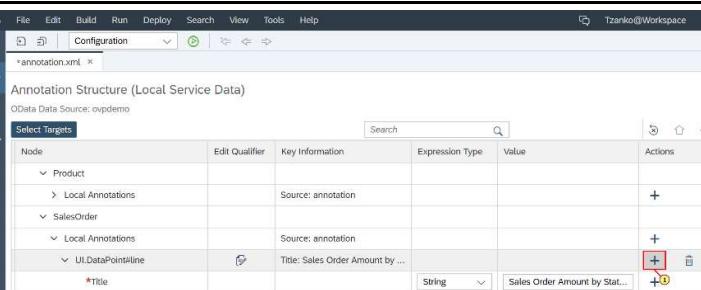
Explanation	Screenshot
(1) Select ToBusinessPartner and press OK .	
<p data-bbox="208 925 600 1157">(1) Bind to @Communication.Contact (this way the Business Partner will get the very same Contact quick view we specified earlier.)</p>	
(1) For the Label enter "Contact Details" (as a String)	

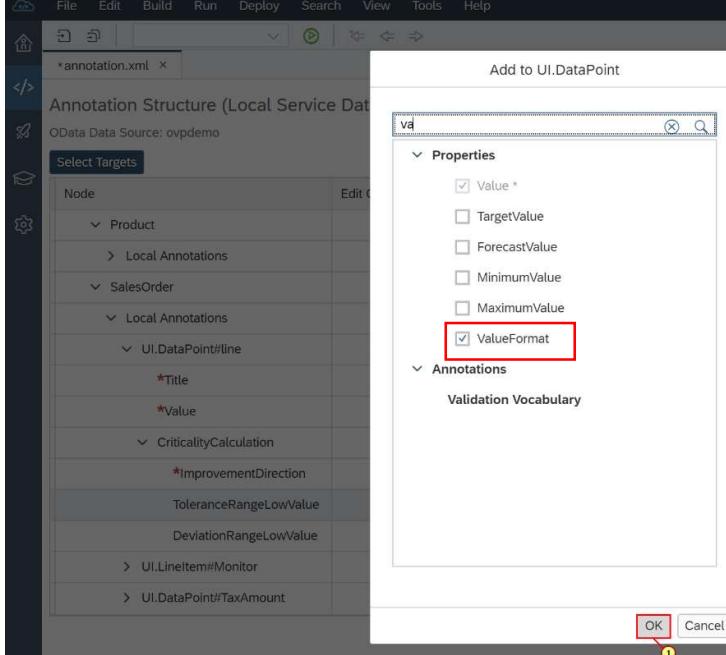
Explanation	Screenshot
<p>Let's create the annotations for the KPI header. The first step is to define a DataPoint. Add a new local annotation for the SalesOrder entity.</p>	
<p>(1) Select DataPoint and Click OK</p>	

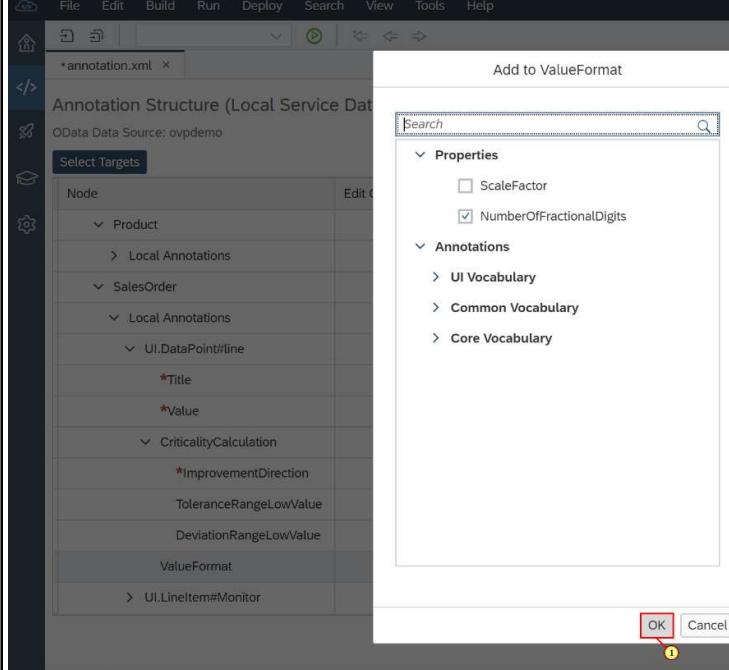
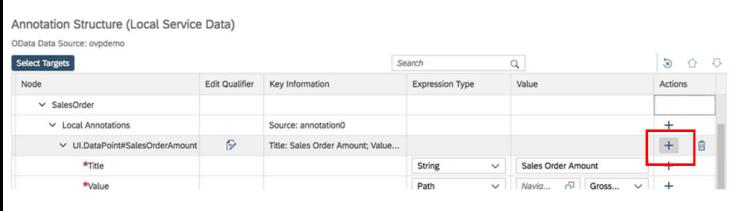
Explanation	Screenshot
(1) Click 	
(1) Set the qualifier to "SalesOrderAmount" and Click 	
(1) Enter "Sales Order Amount" as Title. (As a string)	

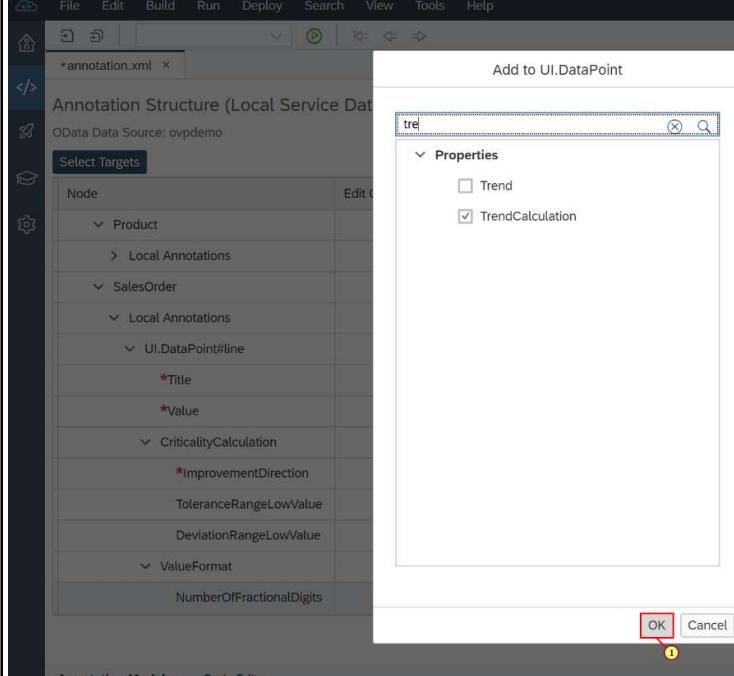
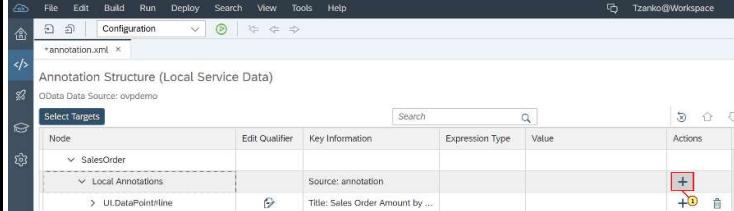
Explanation	Screenshot
(1) Bind the Value to GrossAmount	
(1) Click  .	
(1) Select CriticalityCalculation and Click 	

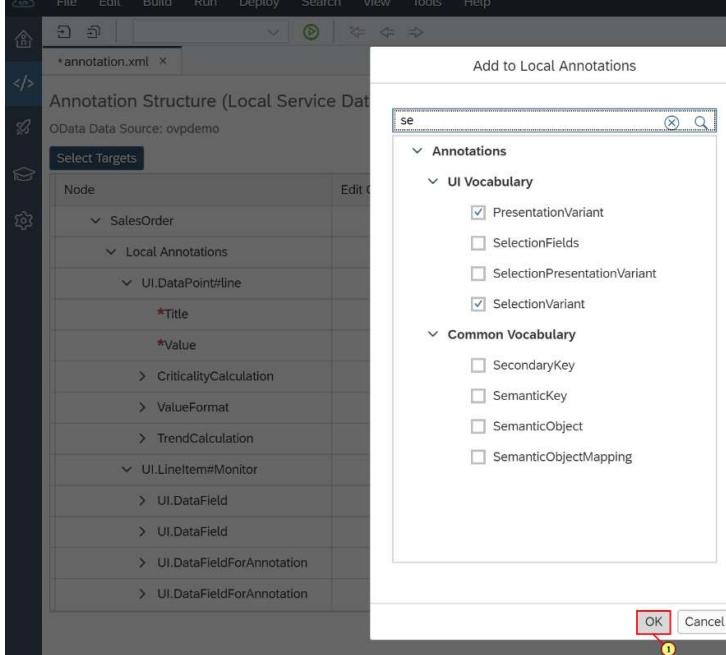
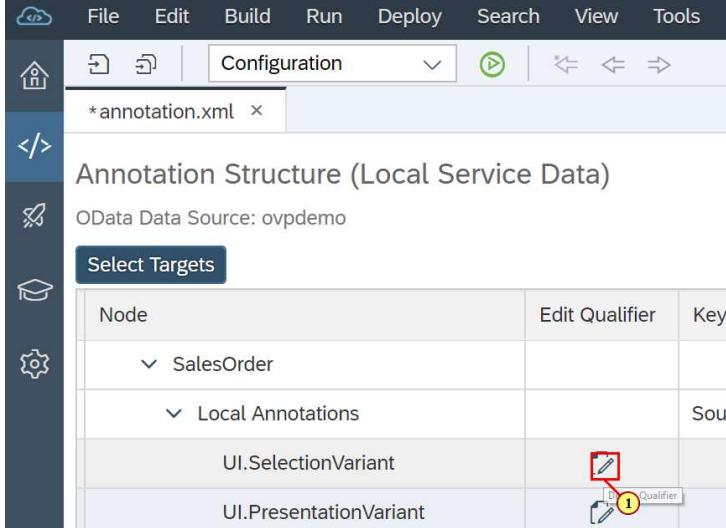
Explanation	Screenshot
<p>(1) Select Maximize as the enumMember</p>	 <p>The screenshot shows the SAP Fiori Elements annotation structure. In the 'Value' column for the 'ImprovementDirection' row under 'CriticallyCalculation', the dropdown menu is open, and 'Maximize' is selected. A red box highlights the 'Maximize' option, and a yellow info icon is shown next to it.</p>
<p>(1) Click + at CriticallyCalculation.</p>	 <p>The screenshot shows the SAP Fiori Elements annotation structure. At the bottom right of the 'CriticallyCalculation' row, there is a blue '+' button with a white plus sign. A red box highlights this button.</p>
<p>(1) Select ToleranceRangeLowValue and DeviationRangeLowValue and Click OK</p>	 <p>The screenshot shows the SAP Fiori Elements annotation structure with a modal dialog titled 'Add to CriticallyCalculation'. The 'Properties' section contains several checkboxes. 'ToleranceRangeLowValue' and 'DeviationRangeLowValue' are checked. Other options like 'AcceptanceRangeLowValue' and 'AcceptanceRangeHighValue' are unchecked. The 'Annotations' section lists 'UI Vocabulary', 'Common Vocabulary', and 'Core Vocabulary'. At the bottom right of the dialog, there are 'OK' and 'Cancel' buttons, with 'OK' highlighted by a red box and a yellow info icon.</p>

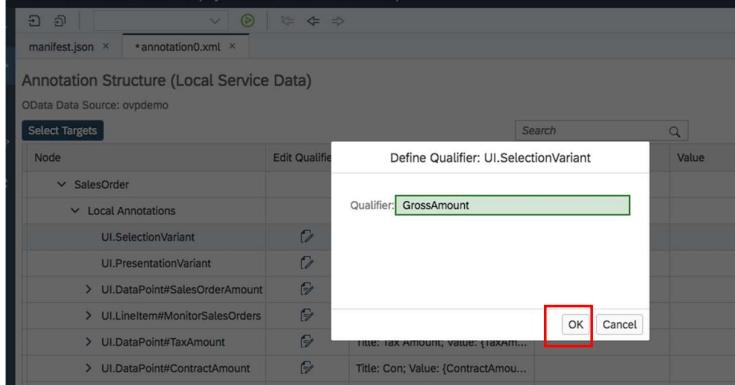
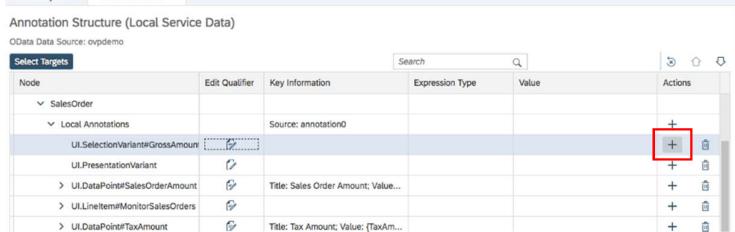
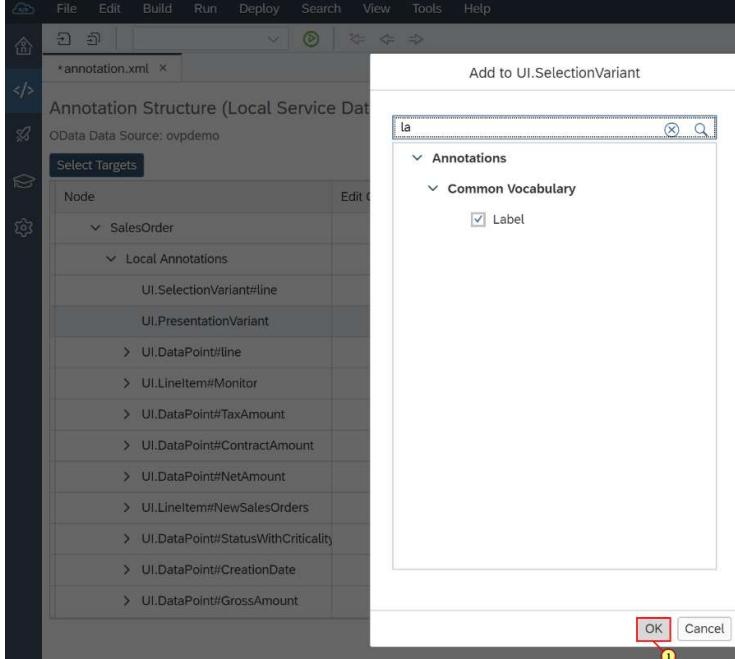
Explanation	Screenshot
<p>(1) Select  as expression type for toleranceRangeLowValue</p>	
<p>(1) Enter an Int of 3000.</p>	
<p>(1) For the Deviation enter 4000 (also an Int)</p>	
<p>(1) Click  corresponding to the datapoint annotation</p>	

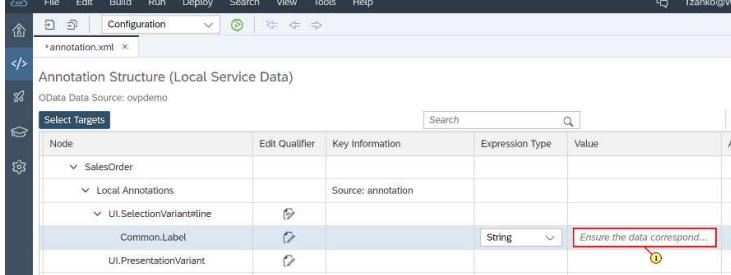
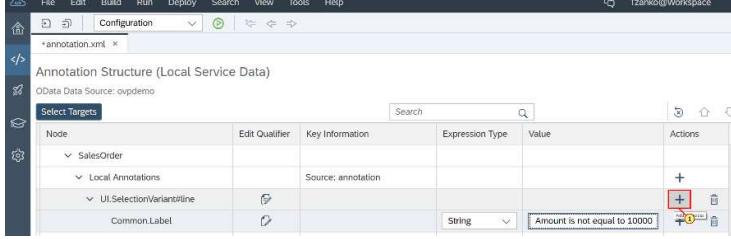
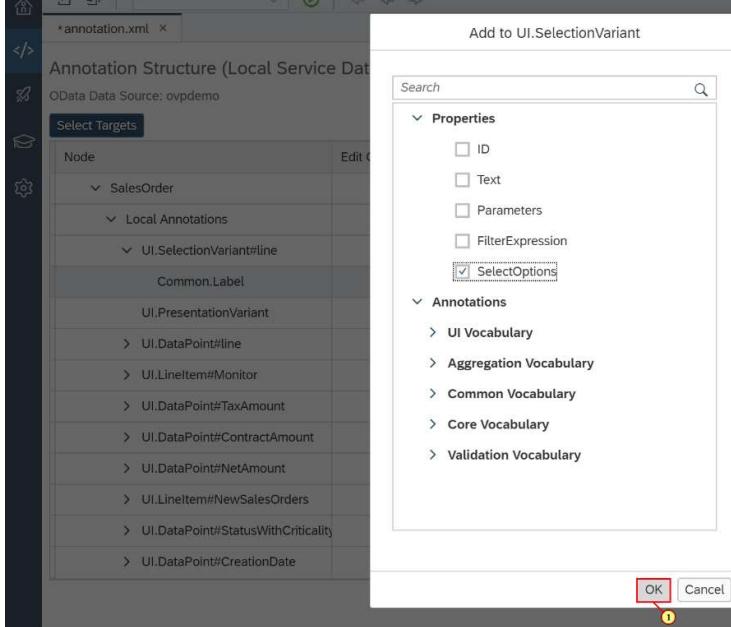
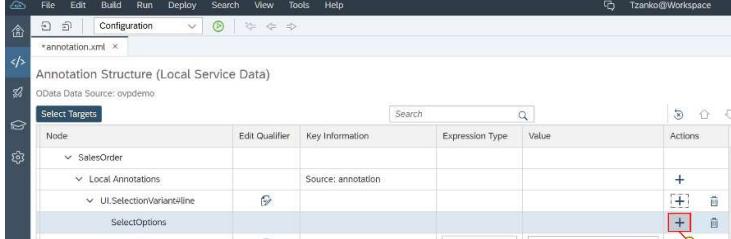
Explanation	Screenshot
<p>(1) We will add a ValueFormat for the DataPoint. Select ValueFormat and Click OK</p>	
<p>(1) Click  at ValueFormat.</p>	

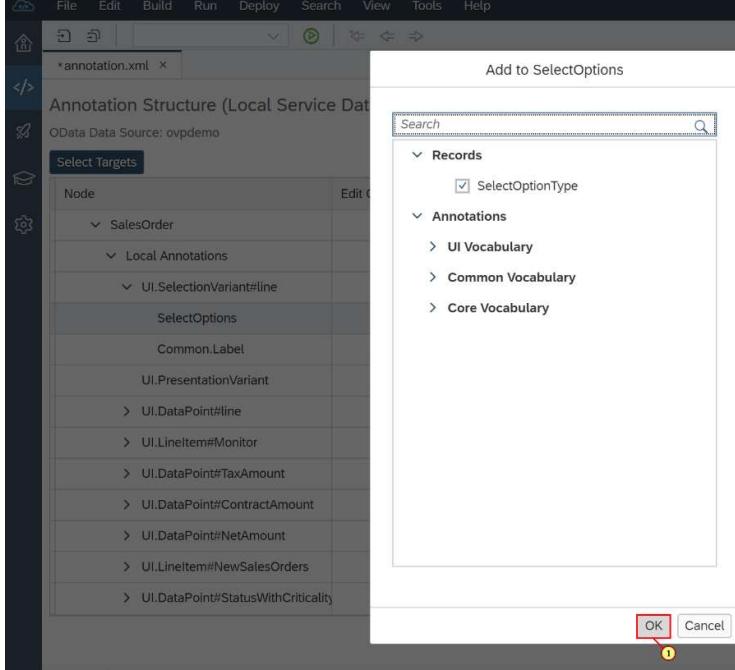
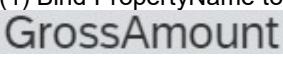
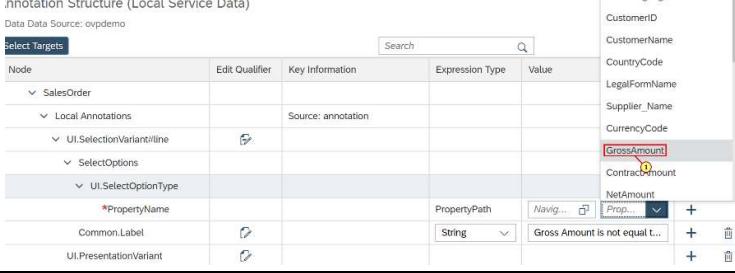
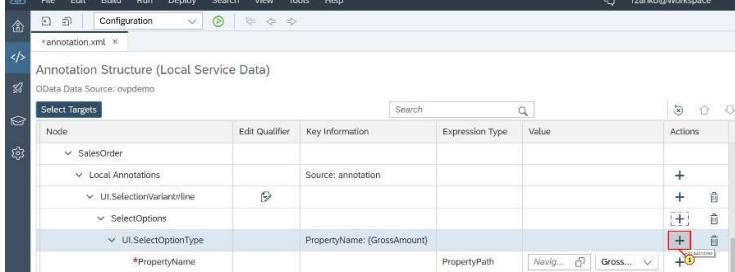
Explanation	Screenshot
<p>(1) Select NumberOfFractionalDigits and Click</p> 	
<p>(1) Enter Int value of 1.</p>	
<p>(1) In order to get the semantic coloring of the KPI value we need to define the trend. Add a new annotation to the DataPoint Click</p>  <p>at UI.DataPoint#SalesOrderAmount.</p>	

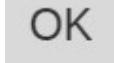
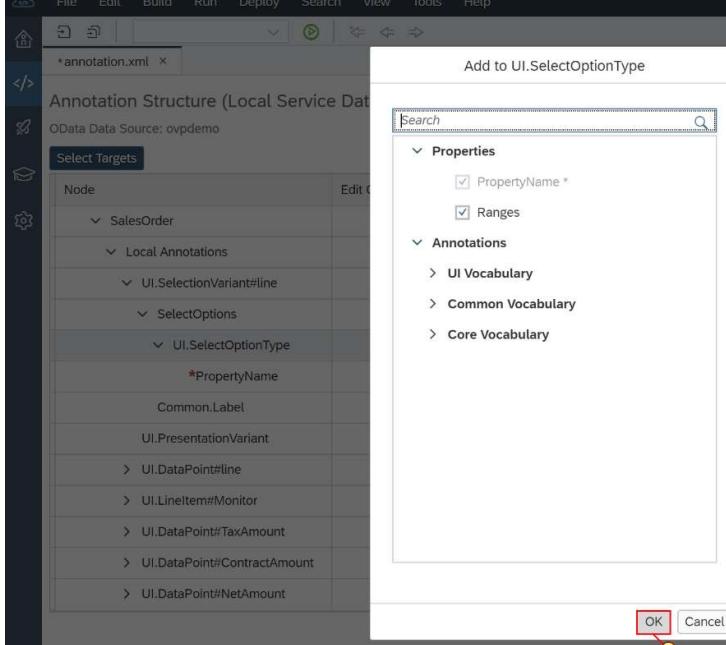
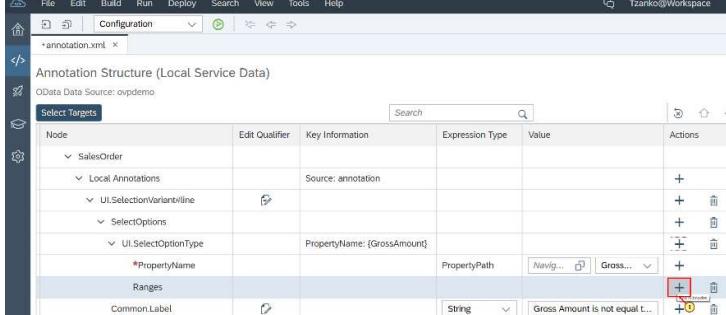
Explanation	Screenshot
<p>(1) Select TrendCalculation and Click </p>	
<p>The ReferenceValue will be defined as a String and rest as decimal as shown in the screenshot. Note that StrongUpDifference and StrongDownDifference are not supported in OVP as of now you can enter them as 0 for this exercise.</p>	
<p>(1) Click  corresponding to local annotations of sales order</p>	

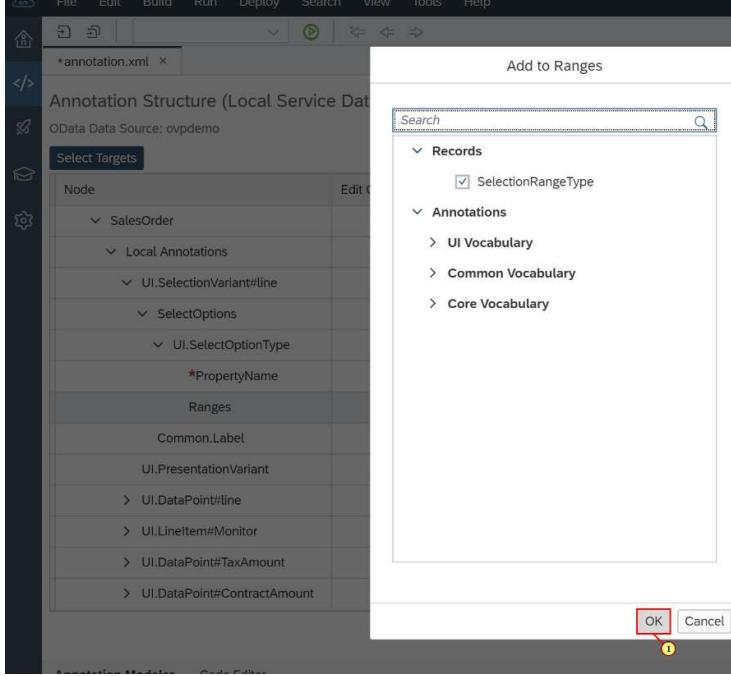
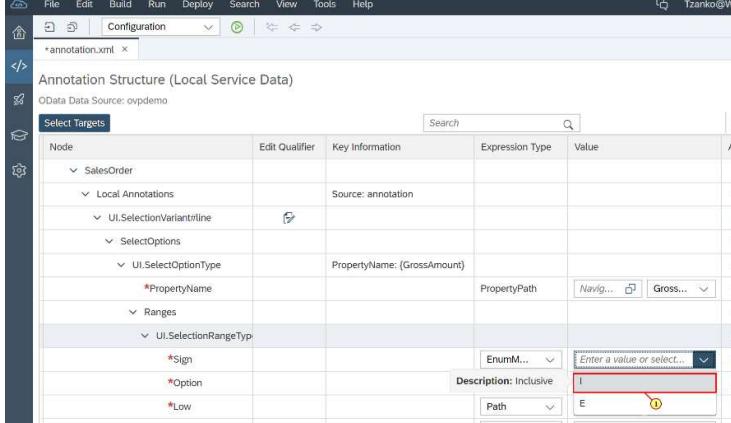
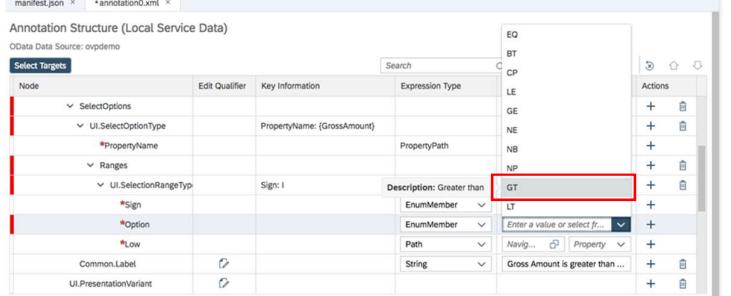
Explanation	Screenshot
(1) Select SelectionVariant and PresentationVariant and Click OK	 <p>The screenshot shows the SAP Fiori Elements annotation editor. A dialog box titled "Add to Local Annotations" is open. In the "Annotations" section, the "SelectionVariant" checkbox is checked. At the bottom right of the dialog, the "OK" button is highlighted with a red box.</p>
(1) Click 	 <p>The screenshot shows the SAP Fiori Elements annotation editor with the "Select Targets" table. In the "Edit Qualifier" column for the "UI.SelectionVariant" row, there is a pencil icon. This icon is highlighted with a red box.</p>

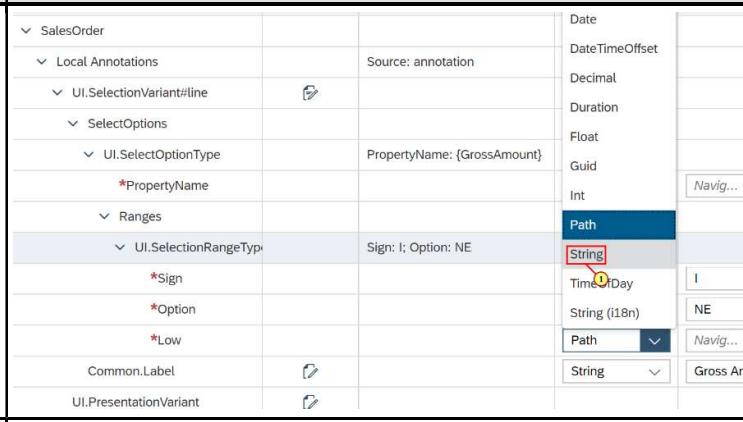
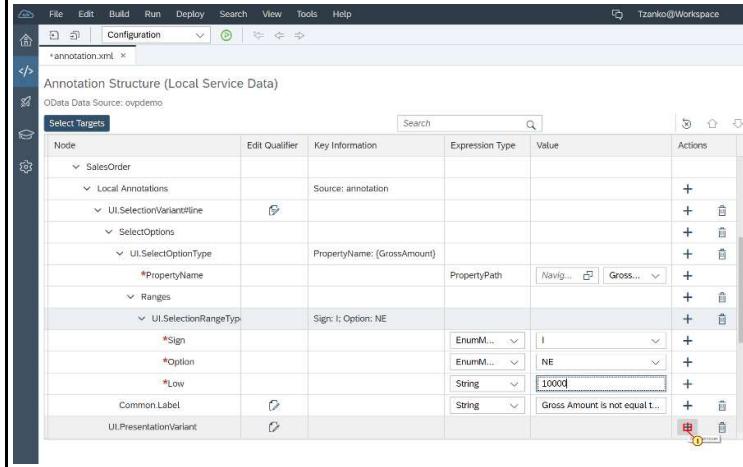
Explanation	Screenshot
(1) Enter "GrossAmount" and Click 	
(1) Click  at UI.SelectionVariant@GrossAmount.	
(1) Select Label and Click 	

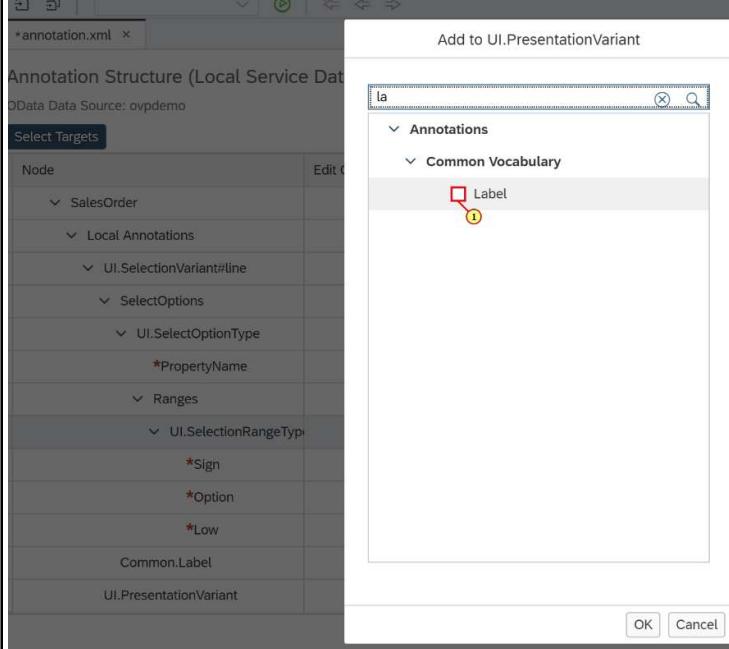
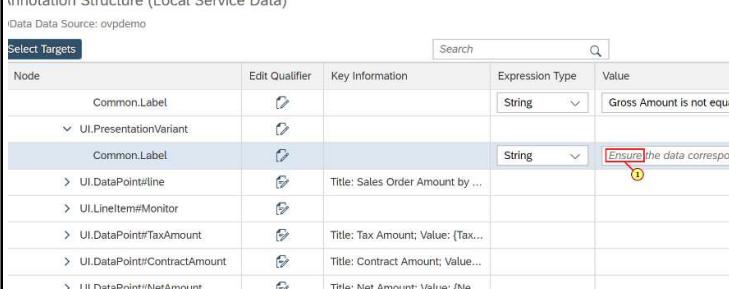
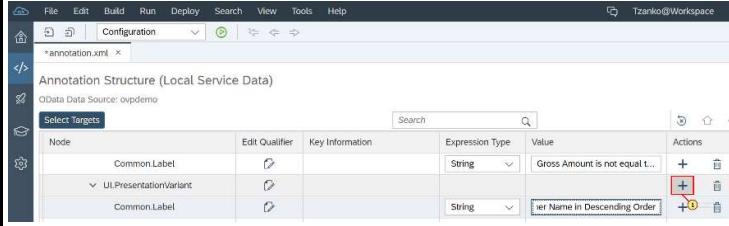
Explanation	Screenshot
(1) Enter "Gross Amount is greater than 10000" as a string	
(1) Click 	
(1) Select SelectOptions and 	
(1)  at SelectOptions.	

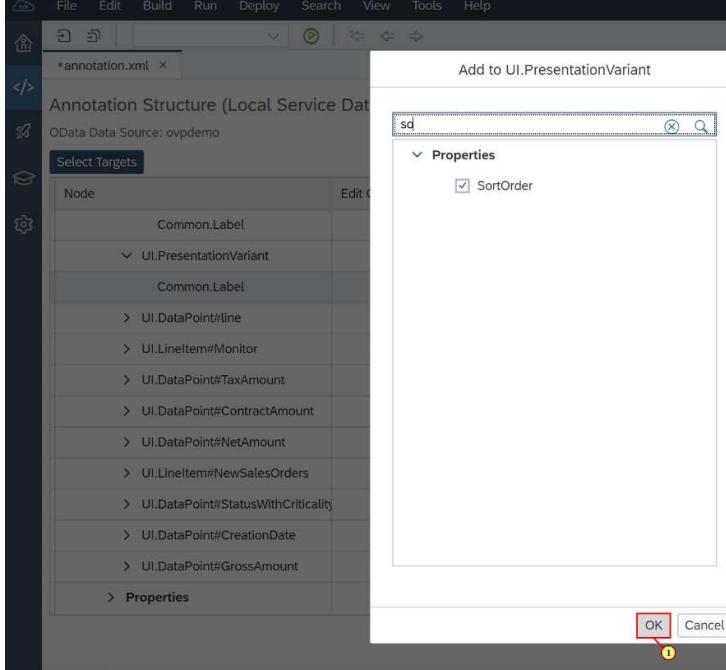
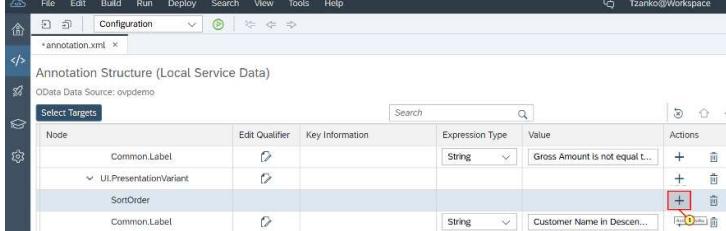
Explanation	Screenshot
(1) Select SelectOptionType and 	
(1) Bind PropertyName to 	
(1) Click  at SelectOptionType	

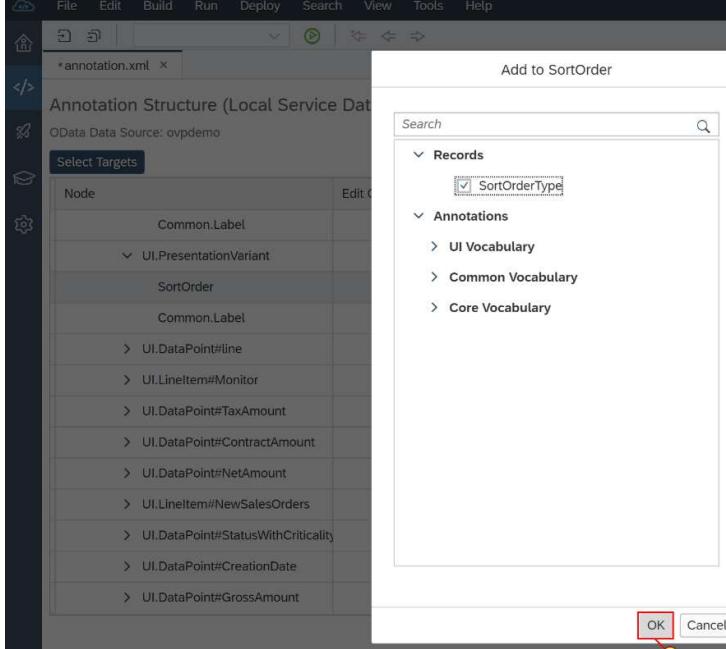
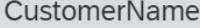
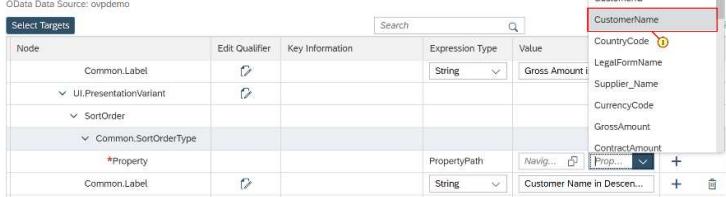
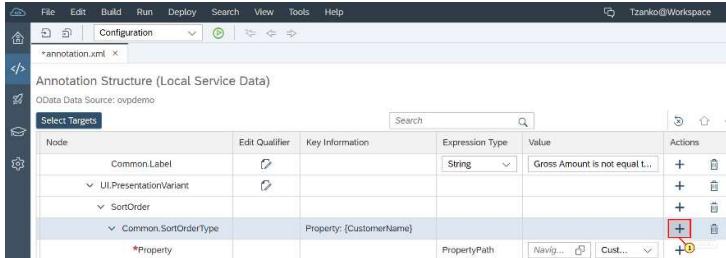
Explanation	Screenshot
(1) Select Ranges and 	
(1) click  at ranges	

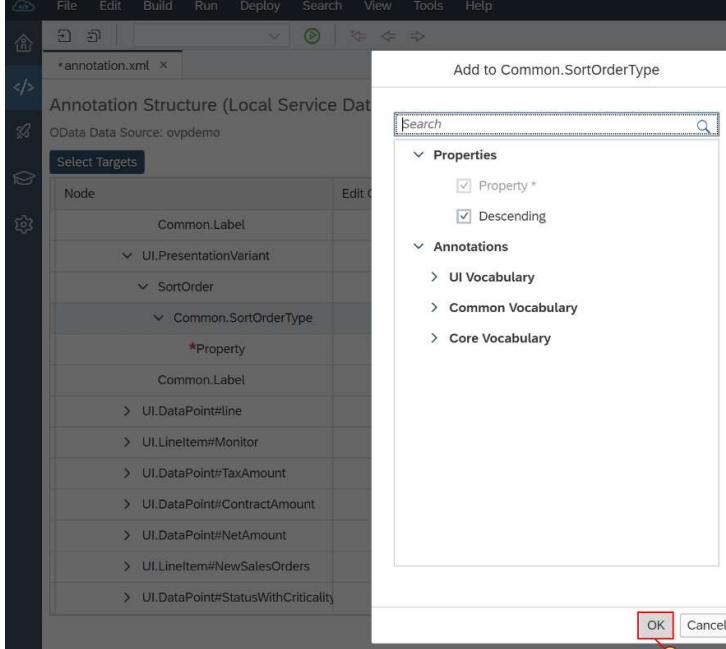
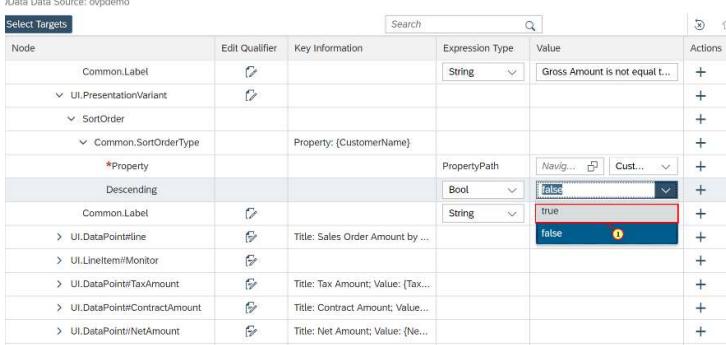
Explanation	Screenshot
(1) Select SelectionRangeType and 	 <p>The screenshot shows the SAP Fiori Elements annotation editor. A dialog box titled 'Add to Ranges' is open. In the 'Annotations' section, the 'SelectionRangeType' checkbox is checked. At the bottom right of the dialog, there is an 'OK' button with a red box around it, and a 'Cancel' button.</p>
(1) For the Sign Select 	 <p>The screenshot shows the SAP Fiori Elements annotation editor. A dialog box titled 'UI.SelectionRangeType' is open. In the 'Ranges' section, the 'Sign' dropdown menu is open, showing options: *Sign, *Option, and *Low. The 'I' option is selected. A red box highlights the 'Description: Inclusive' field.</p>
(1) For Option select EnumMember GT.	 <p>The screenshot shows the SAP Fiori Elements annotation editor. A dialog box titled 'UI.SelectionRangeType' is open. In the 'Ranges' section, the 'Sign' dropdown menu is open, showing options: *Sign, *Option, and *Low. The 'I' option is selected. In the 'Description' field, 'Greater than' is selected, and 'GT' is highlighted with a red box. Below the dropdown, there are other options like 'EQ', 'LT', etc.</p>

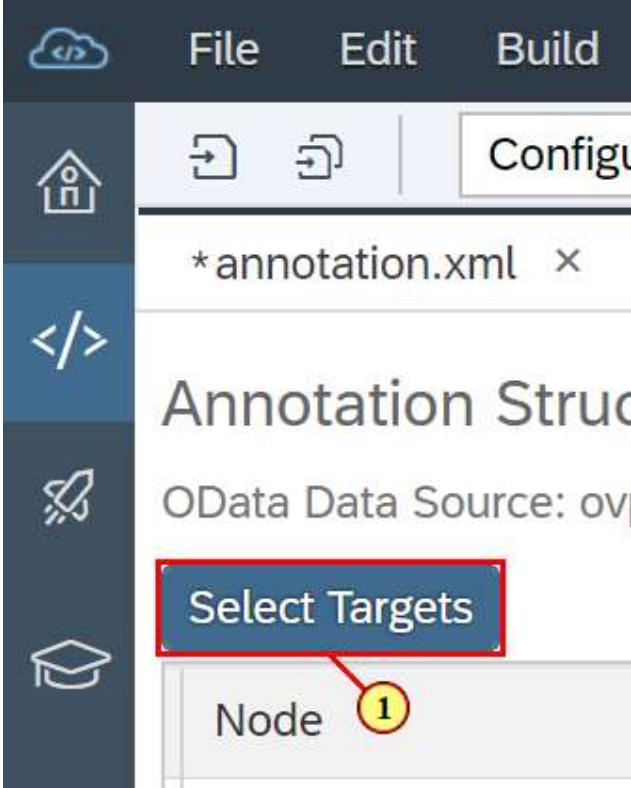
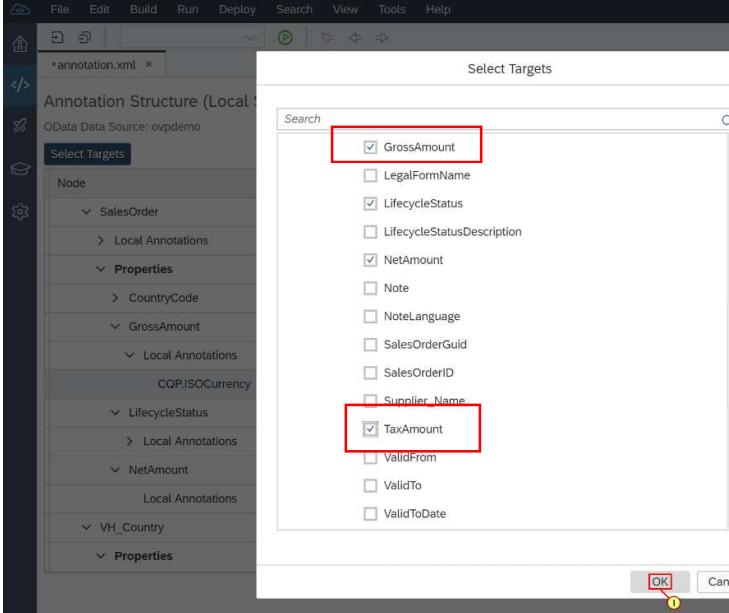
Explanation	Screenshot
(1) Set the Low value type to String	
(1) Enter "10000" for Low value	
(1) We now define the presentation variant. Add a presentation variant at the lineitem and Click + at UI.PresentationVariant	

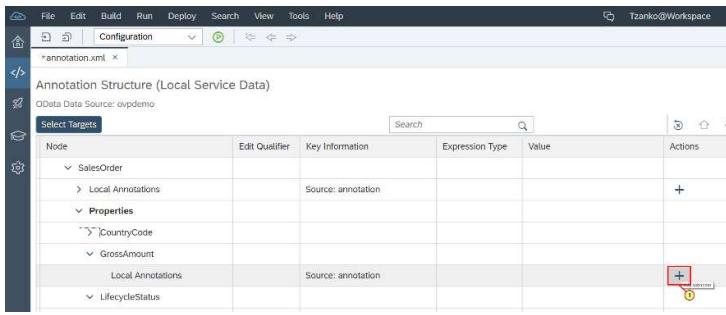
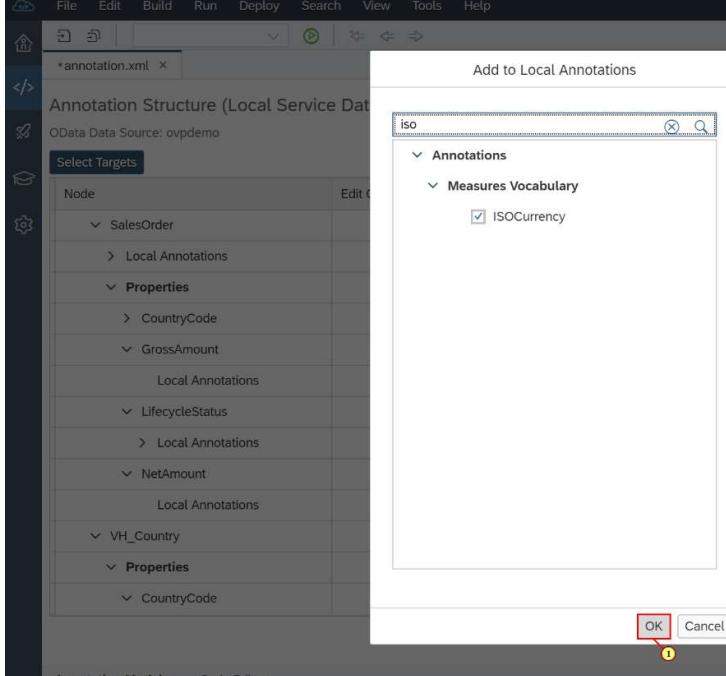
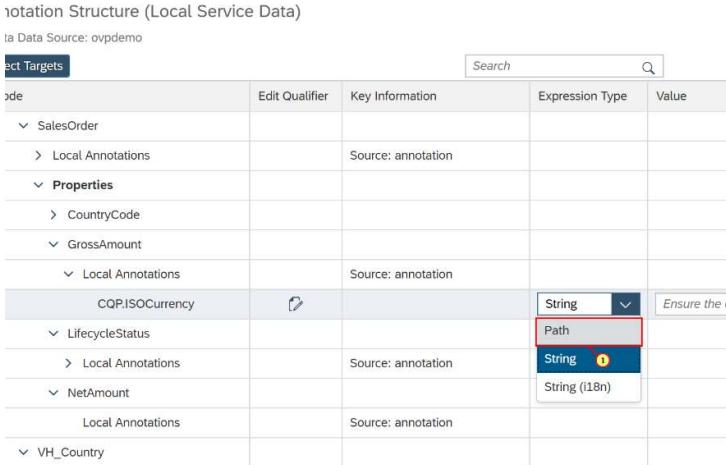
Explanation	Screenshot
(1) Select Label and press OK.	
(1) Enter "Customer Name in Descending Order".	
(1) Click  corresponding to the presentationVariant	

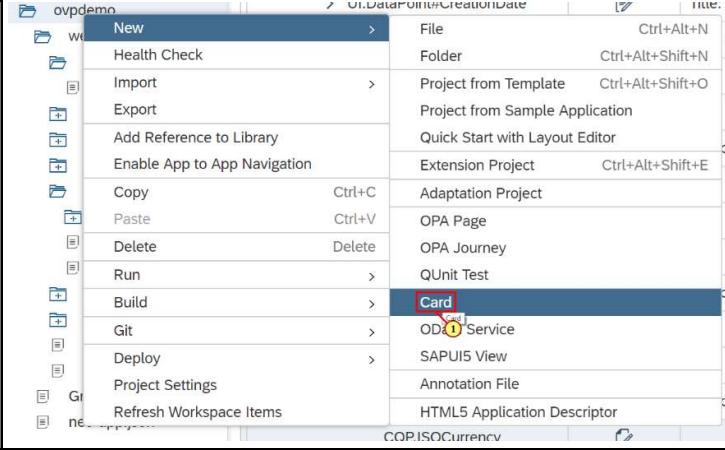
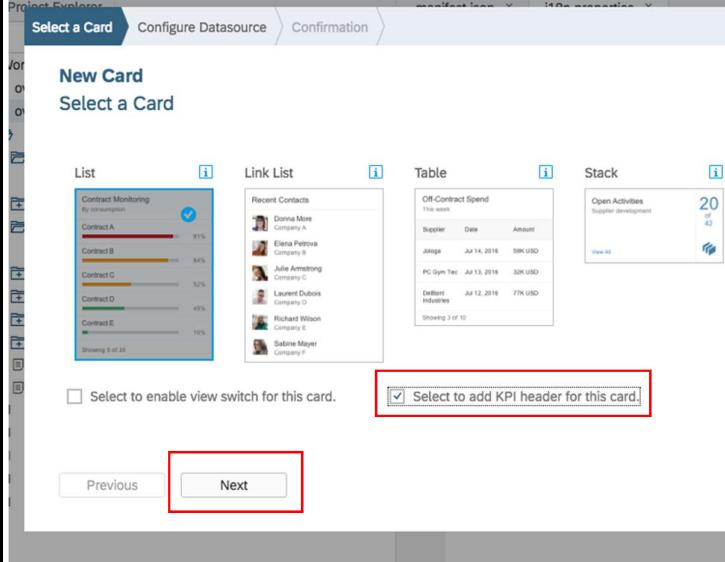
Explanation	Screenshot
(1) Select SortOrder and 	
(1) Click  corresponding to the sort order	

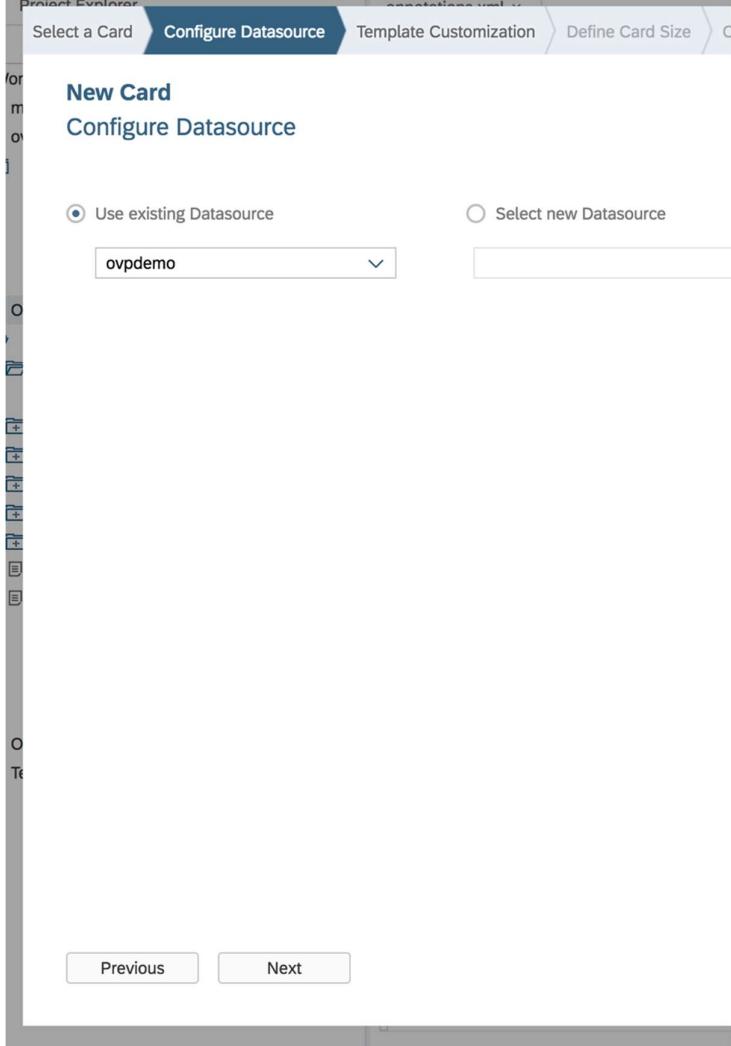
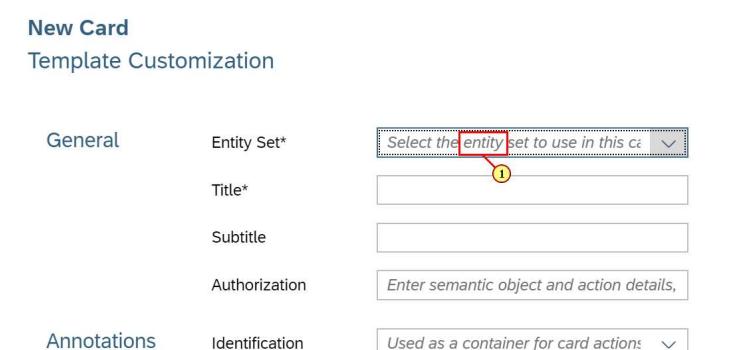
Explanation	Screenshot
(1) Select SortOrderType and 	
(1) Bind the Property to CustomerName 	
(1) Click + corresponding to sort order type. 	

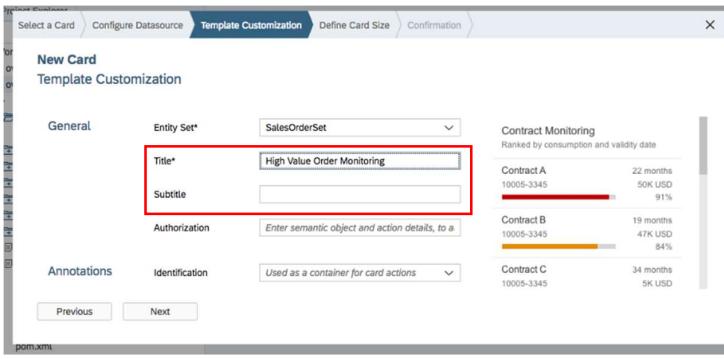
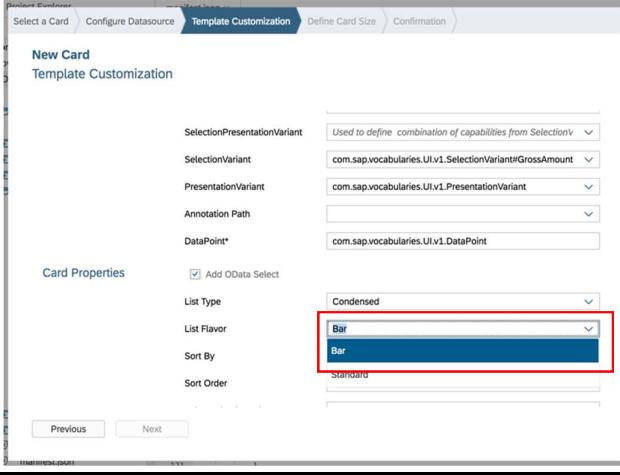
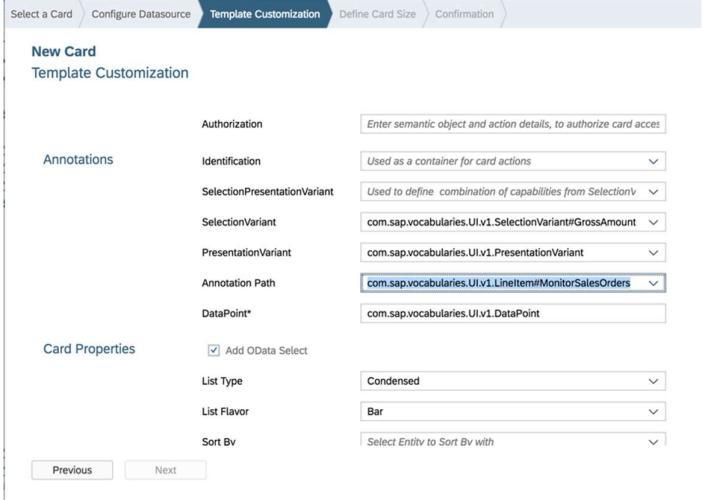
Explanation	Screenshot
(1) Select Descending and OK	
(1) Set Descending to true	

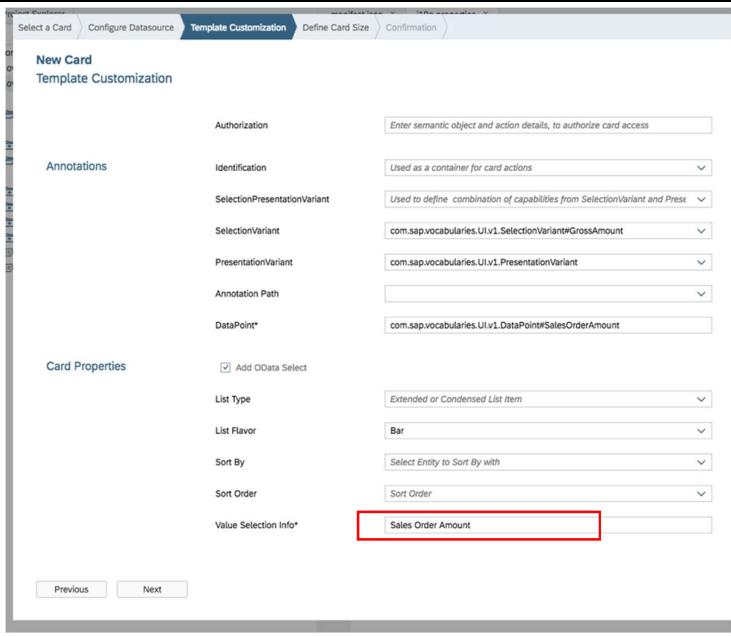
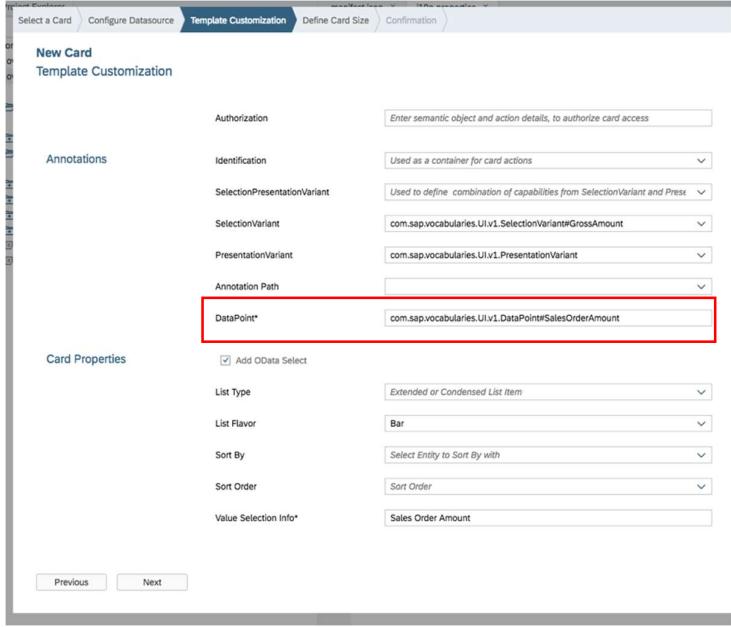
Explanation	Screenshot
(1) We will now set the currency annotation for TaxAmount, GrossAmount and NetAmount.	 <p>The screenshot shows the SAP Fiori Elements interface with the 'annotation.xml' configuration screen open. On the left, there's a sidebar with icons for Home, OData, and Configuration. The main area displays the XML code for the annotation structure. A prominent red box surrounds the 'Select Targets' button, and a yellow circle with the number '1' points to it. Below the button, there's a section labeled 'Node'.</p>
(1) Select GrossAmount, TaxAmount, and 	 <p>The screenshot shows the 'Select Targets' dialog box. It lists various annotations under the 'SalesOrder' node, including 'GrossAmount' and 'TaxAmount', both of which are checked. A red box highlights the 'GrossAmount' checkbox, and another red box highlights the 'TaxAmount' checkbox. The 'OK' button at the bottom right is also highlighted with a red box and circled with a yellow number '1'.</p>

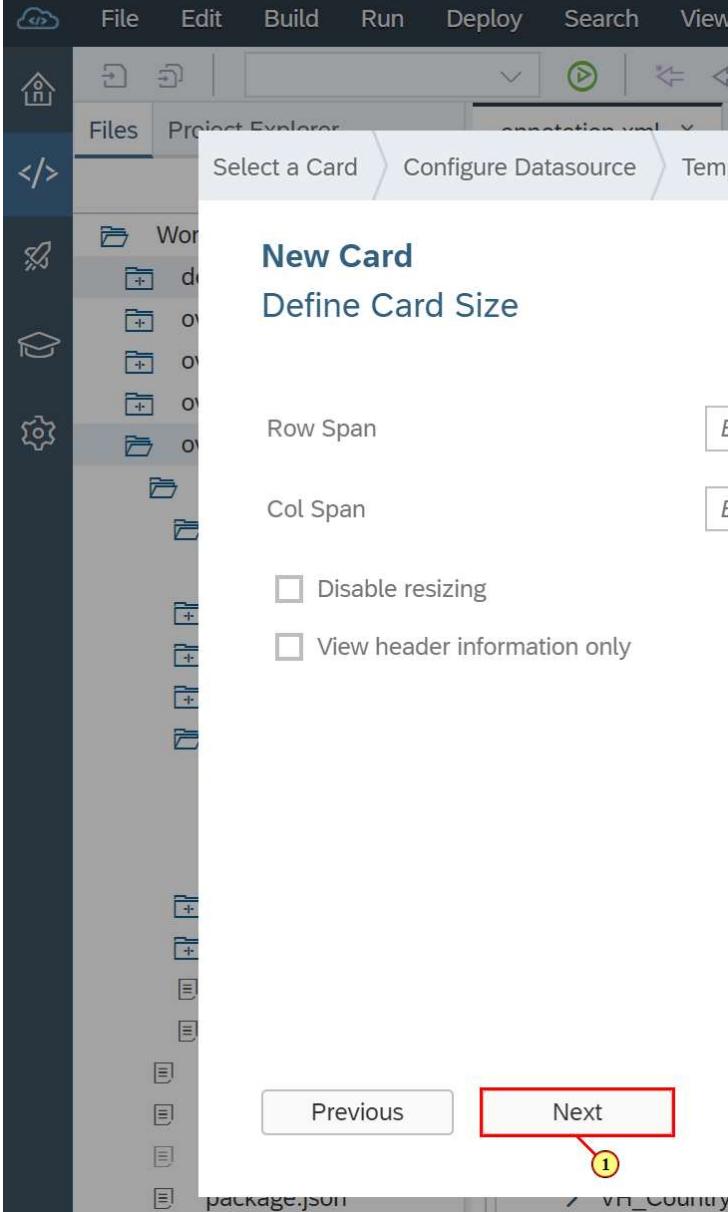
Explanation	Screenshot
<p>(1) Click corresponding to grossAmount localAnnotations</p> 	
<p>(1) Select ISOCurrency and OK</p> 	
<p>(1) Specify the currency code as Path</p> 	

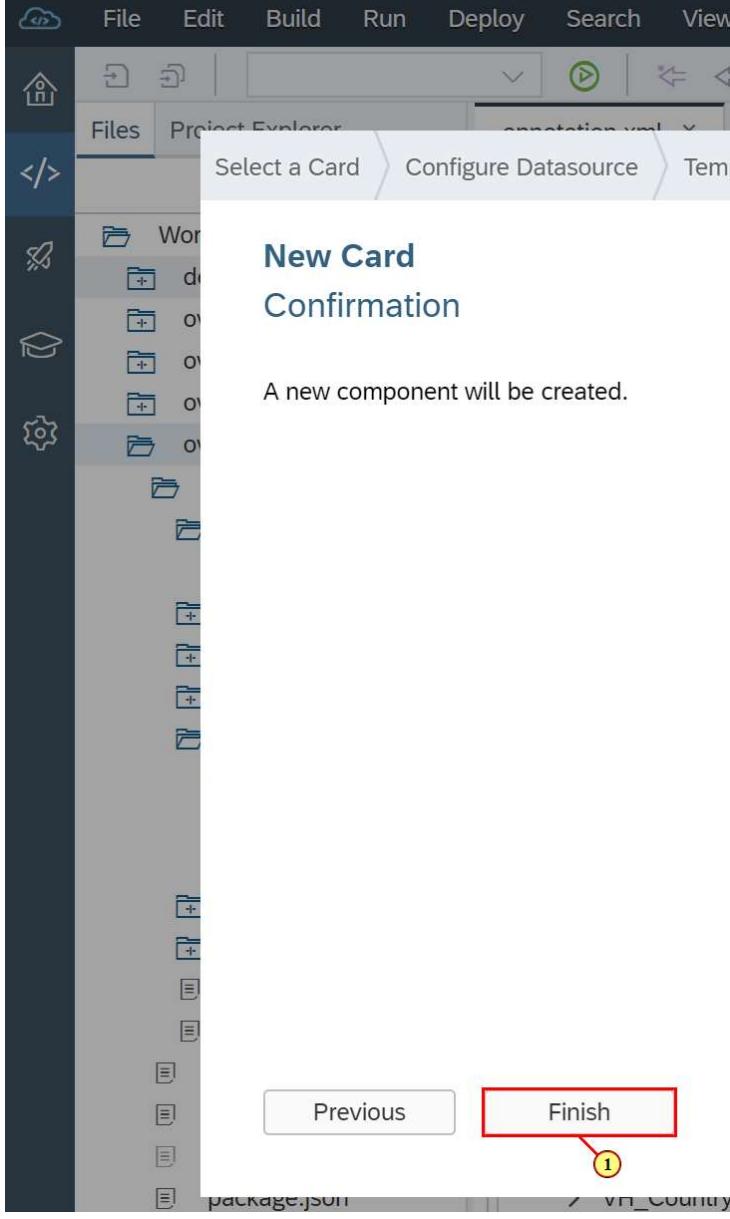
Explanation	Screenshot
(1) Bind to CurrencyCode	 <p>The screenshot shows the 'OData Data Source: ovpdemo' configuration. Under the 'Select Targets' section, the 'SalesOrder' node is selected. In the 'Properties' tree, 'CountryCode' is expanded, and 'CurrencyCode' is selected. A red box highlights 'CurrencyCode'. Below it, 'COP.ISOCurrency' is also selected.</p>
Repeat the same for TaxAmount.	 <p>The screenshot shows the continuation of the 'OData Data Source: ovpdemo' configuration. It focuses on the 'TaxAmount' node, which is bound to 'COP.ISOCurrency'. A red box highlights 'COP.ISOCurrency' in the properties tree.</p>
(1) Let's create the new card.	 <p>The screenshot shows the context menu for the 'ovpdemo' workspace. The 'Card' option is highlighted with a red box.</p>
(1) Select List Card, Check the "Select to add KPI header for this card" and click Next.	 <p>The screenshot shows the 'New Card' configuration screen. The 'List' card is selected. At the bottom, there are two checkboxes: 'Select to enable view switch for this card.' (unchecked) and 'Select to add KPI header for this card.' (checked). A red box highlights the 'Next' button.</p>

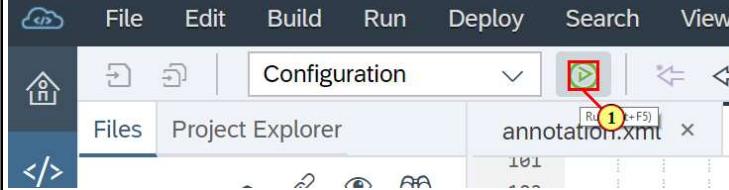
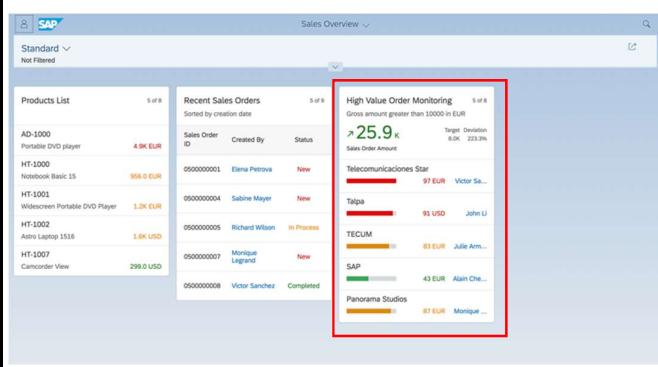
Explanation	Screenshot															
Click Next	 <p>New Card Configure Datasource</p> <p><input checked="" type="radio"/> Use existing Datasource <input type="radio"/> Select new Datasource</p> <p>ovpdemo</p> <p>Previous Next</p>															
(1) Select SalesOrderSet as the EntitySet for the new card.	 <p>New Card Template Customization</p> <table border="1"> <tr> <td>General</td> <td>Entity Set*</td> <td>Select the entity set to use in this card</td> </tr> <tr> <td></td> <td>Title*</td> <td></td> </tr> <tr> <td></td> <td>Subtitle</td> <td></td> </tr> <tr> <td></td> <td>Authorization</td> <td>Enter semantic object and action details,</td> </tr> <tr> <td>Annotations</td> <td>Identification</td> <td>Used as a container for card actions</td> </tr> </table>	General	Entity Set*	Select the entity set to use in this card		Title*			Subtitle			Authorization	Enter semantic object and action details,	Annotations	Identification	Used as a container for card actions
General	Entity Set*	Select the entity set to use in this card														
	Title*															
	Subtitle															
	Authorization	Enter semantic object and action details,														
Annotations	Identification	Used as a container for card actions														

Explanation	Screenshot
<p>(1) Enter "High Value Order Monitoring" as Title, and "Gross amount greater than 10000" as Subtitle</p>	
<p>(1) Scroll down to find additional configurations options for list card, Select the type of the List Flavor as   Notice that the SelectionVariant and PresentationVariant are pre-filled</p>	
<p>Click on Annotation Path and select #MonitorSalesOrders</p>	

Explanation	Screenshot
<p>Enter Value Selection Info as the description for the KPI Header value "Sales Order Amount"</p>	 <p>The screenshot shows the 'Template Customization' step of the Fiori Elements configuration process. The 'Value Selection Info*' field is highlighted with a red box, indicating it needs to be filled with the description for the KPI header value.</p>
<p>Change the DataPoint to com.sap.vocabularies.UI.v1.DataPoint#SalesOrderAmount</p> <p style="text-align: right;">Next (1)</p>	 <p>The screenshot shows the 'Template Customization' step of the Fiori Elements configuration process. The 'DataPoint*' field is highlighted with a red box, indicating it needs to be changed to the correct DataPoint definition.</p>

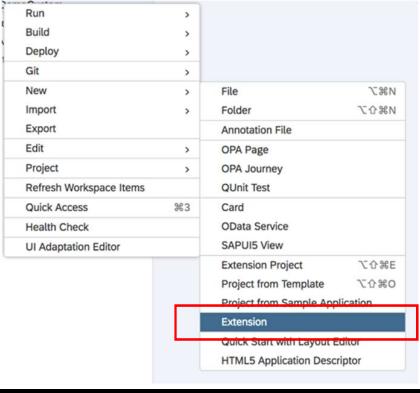
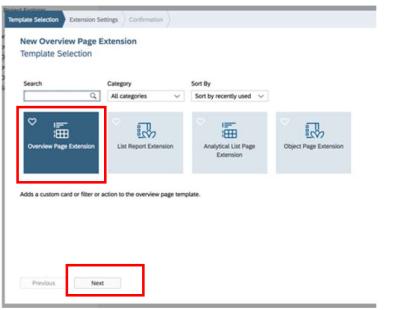
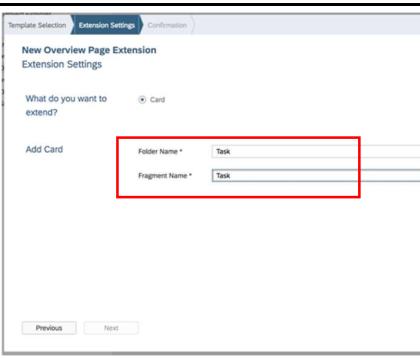
Explanation	Screenshot
(1) Next	 <p>The screenshot shows the SAP Fiori Elementsession interface. A modal dialog box is open in the center, titled "New Card" and "Define Card Size". It contains several configuration options: "Row Span" and "Col Span" dropdowns, and two checkboxes: "Disable resizing" and "View header information only". At the bottom of the dialog are "Previous" and "Next" buttons, with "Next" being highlighted by a red box and a yellow circle containing the number "1" pointing to it. The background shows the Project Explorer and a file named "annotation.xml".</p>

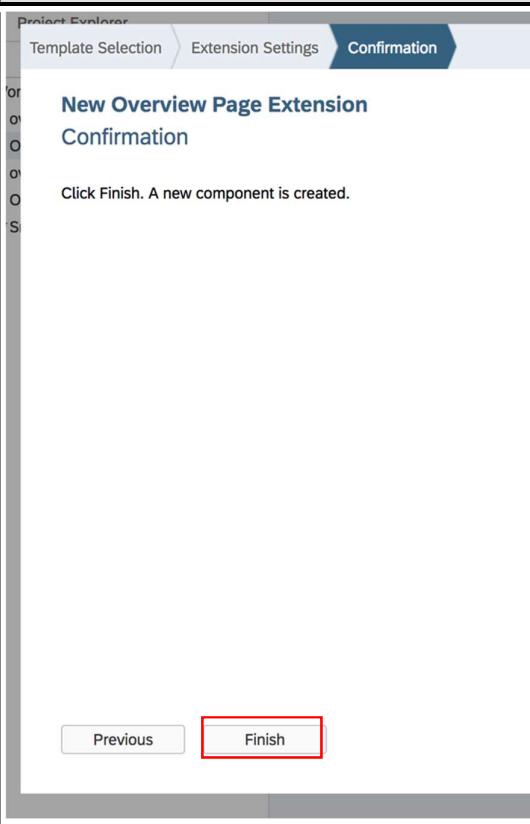
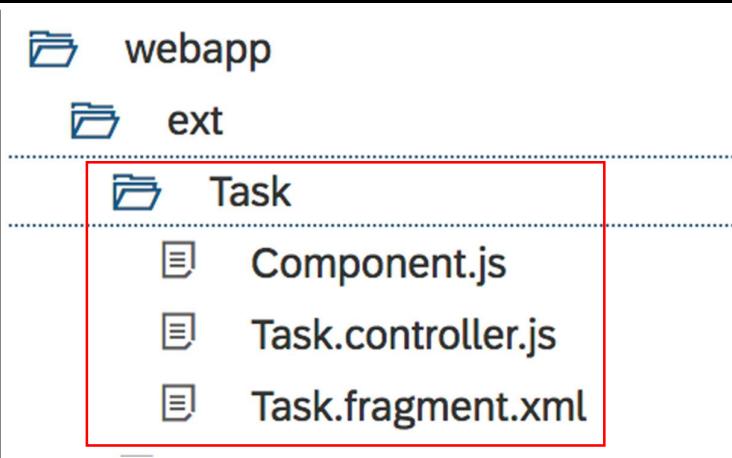
Explanation	Screenshot
(1) Finish	 <p>The screenshot shows the SAP Fiori Elements interface. In the top navigation bar, the 'File' menu is open, showing options like 'File', 'Edit', 'Build', 'Run', 'Deploy', 'Search', and 'View'. Below the navigation bar is the 'Project Explorer' view, which lists several workspace components. A modal dialog box is displayed in the center of the screen, titled 'New Card Confirmation'. The dialog contains the message 'A new component will be created.' At the bottom right of the dialog are two buttons: 'Previous' and 'Finish'. A red box highlights the 'Finish' button, and a yellow circle with the number '1' is positioned below it, indicating the next step.</p>
This is how the manifest entry will look like	<pre data-bbox="670 1505 1139 1706"> "card02": { "model": "ovpdemo", "template": "sap.ovp.cards.list", "settings": { "title": "{{card02_title}}", "subTitle": "{{card02_subTitle}}", "entitySet": "SalesOrderSet", "listType": "condensed", "listFilter": false, "autoDataSelect": false, "selectionAnnotationPath": "com.sap.vocabularies.UI.v1.SelectionVariant#GrossAmount", "presentationAnnotationPath": "com.sap.vocabularies.UI.v1.PresentationVariant", "dataPointAnnotationPath": "com.sap.vocabularies.UI.v1.DataPoint#SalesOrder#Amount", "annotationPath": "com.sap.vocabularies.UI.v1.LineItem#MonitorSalesOrders", "valueSelectionInfo": "{{card02_valueSelectionInfo}}" } } </pre>

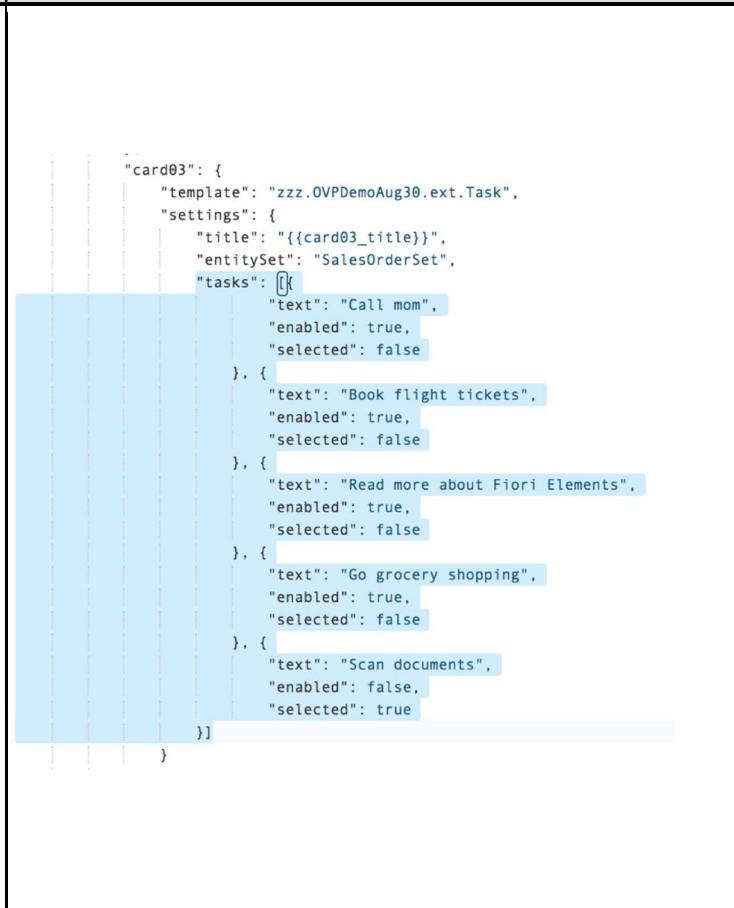
Explanation	Screenshot
(1) Run the App 	
<p>Explore the capabilities of the new card. Using the documentation (https://sapui5.hana.ondemand.com/sdk/#/topic/56f39e077efb477d9e851cd082b7760c) “map” the annotations that you just created to what is shown on the UI. For example, as per the documentation the “The first DataPoint record is displayed as a bar beneath the DataField records, and as a numeric value to the Right of the bar at the bottom of the line item”. Our first DataPoint is the TaxAmount. Where is the coloring for the bar and the numeric value coming from? Does it match the value displayed? Hint: it has something to do with the CriticalityCalculation.</p>	 <p>The screenshot shows the SAP Fiori Sales Overview application. On the right side, there is a card titled "High Value Order Monitoring" with a subtitle "Gross amount greater than 10000 in EUR". The card displays several data points as horizontal bars, each with a color-coded segment and a numerical value to its right. The first bar is red and labeled "25.9". Other bars include "Telecommunications Star" (red, 91), "Talpa" (red, 91), "TECUM" (orange, 83), "SAP" (green, 43), and "Panorama Studios" (orange, 87). The main application area shows a "Products List" table on the left and a "Recent Sales Orders" table on the right.</p>

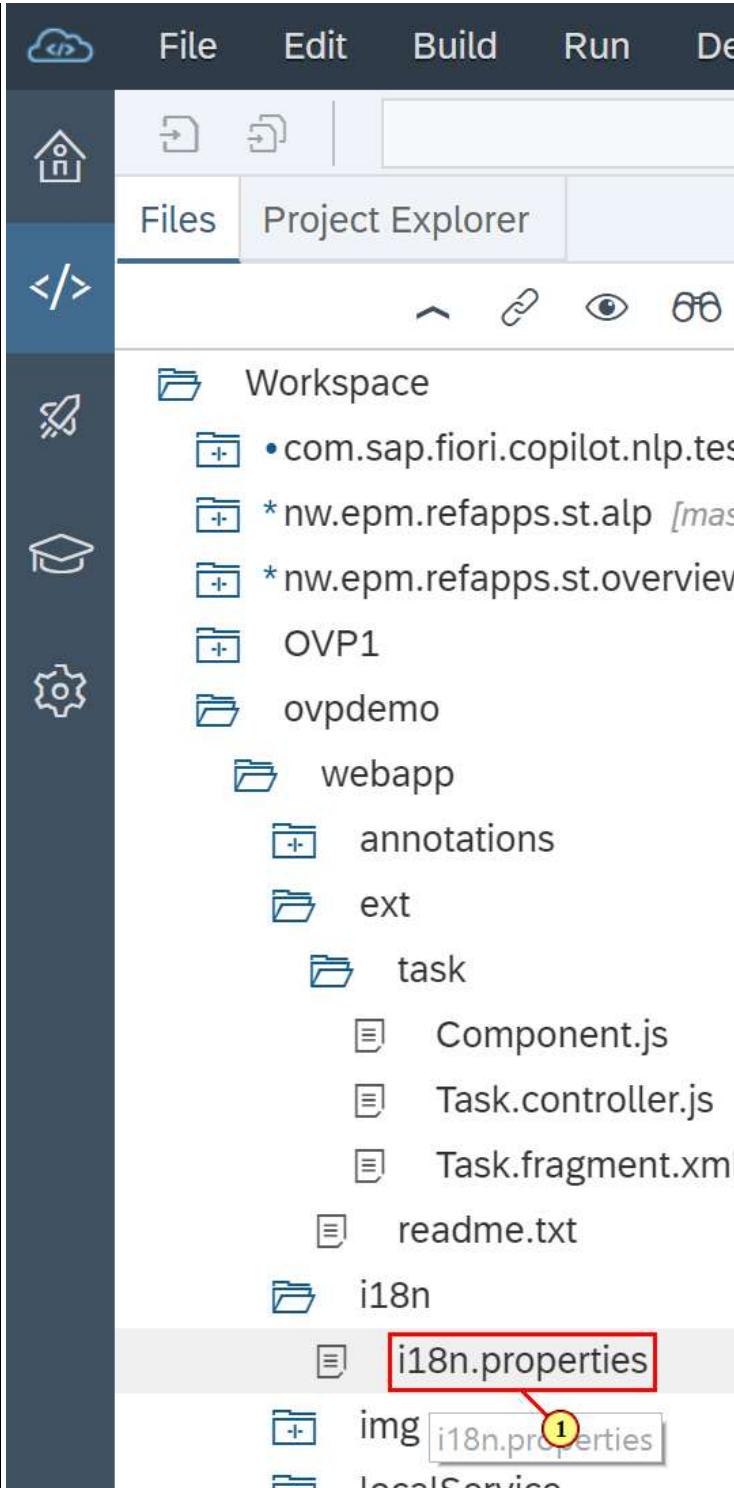
6. Create a custom card

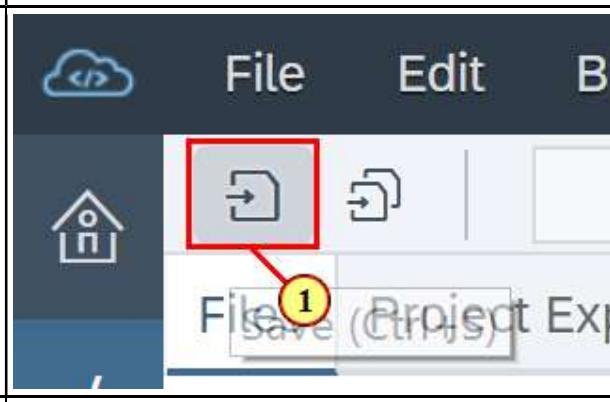
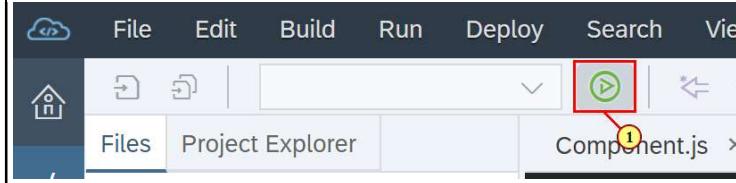
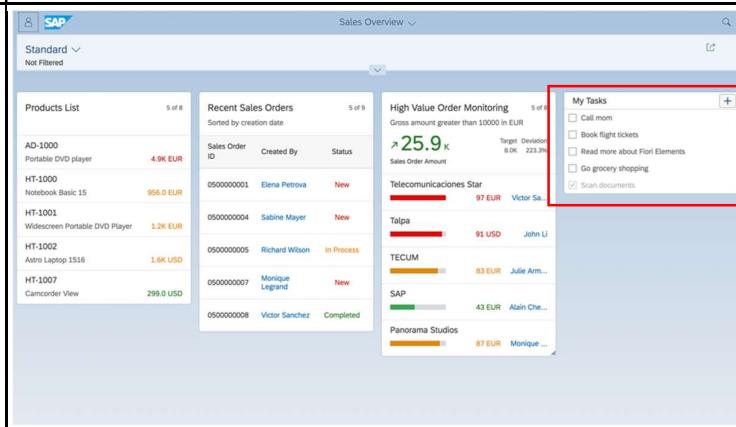
The cards which the overview page offers by default are a great way to quickly build content. If the standard cards do not cover your use cases, you can also create an own card. So, in this chapter you will create a custom card.

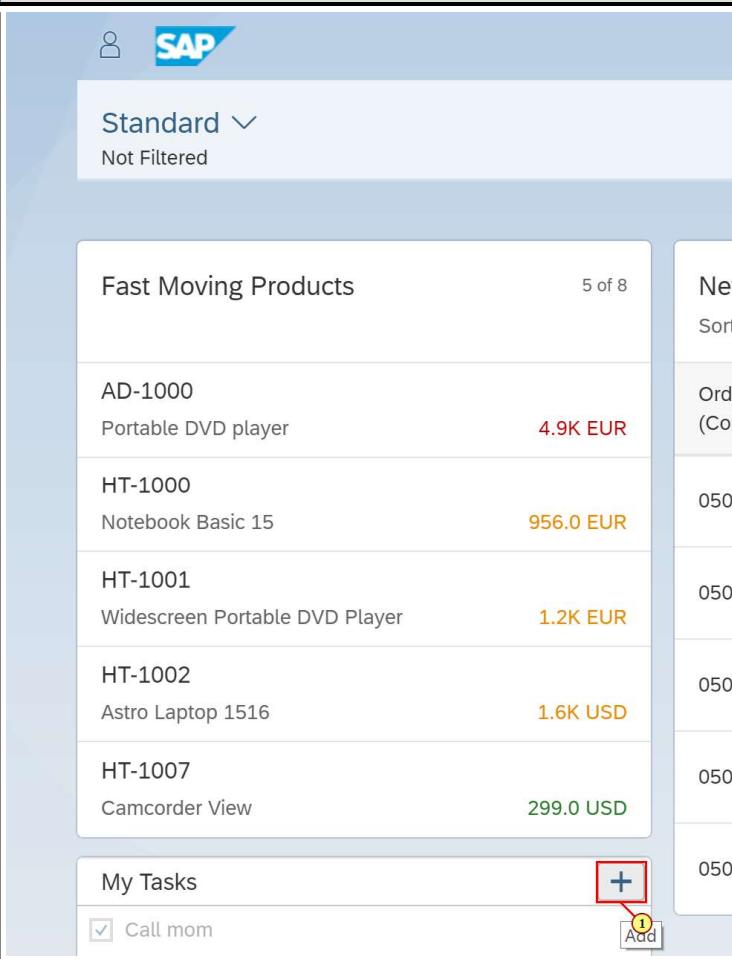
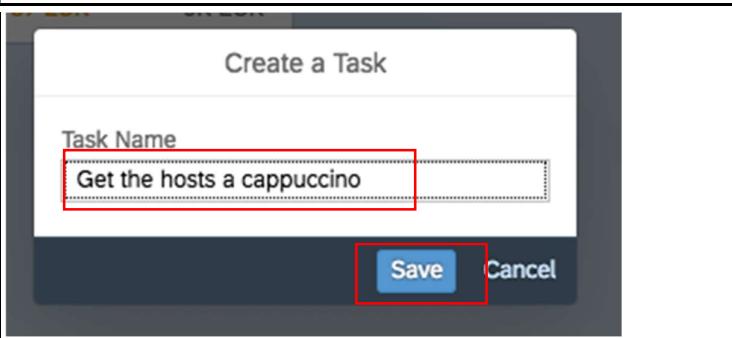
Explanation	Screenshot
Right Click on the project and select New->Extension	
(1) Select Overview Page Extension and click Next	
Enter the Folder and fragment name. E.g.: "Task" Click Next.	

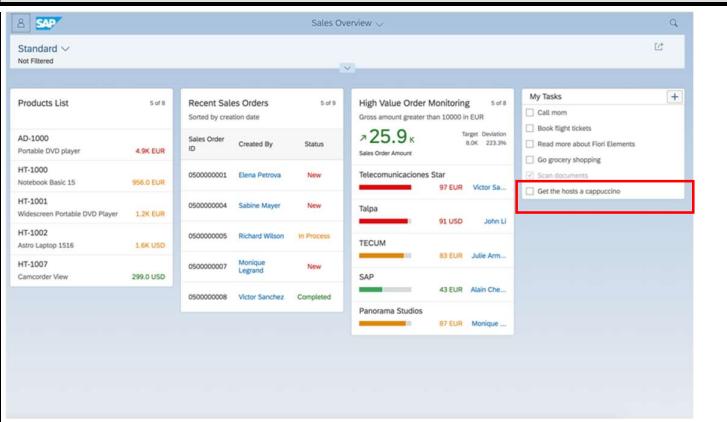
Explanation	Screenshot
(1) Click Finish.	
The required files are generated within ext->Task	 <pre data-bbox="612 1079 1344 1537"> webapp ext Task Component.js Task.controller.js Task.fragment.xml </pre>
Manifest entry for the custom card is created as well	 <pre data-bbox="612 1537 1344 1752"> "card03": { "template": "zzz.ovpdemo.ext.Task", "settings": { "title": "{{card03_title}}" } } } </pre>

Explanation	Screenshot
<p>step1: Modify the Task.controller.js and Task.fragment.js based on the sample files provided</p> <p>Step:2 Add a few tasks to be shown initially in the custom card in the manifest settings</p> <pre data-bbox="208 443 605 1163"> "entitySet": "SalesOrderSet", "tasks": [{ "text": "Call mom", "enabled": true, "selected": false }, { "text": "Book flight tickets", "enabled": true, "selected": false }, { "text": "Read more about Fiori Elements", "enabled": true, "selected": false }, { "text": "Go grocery shopping", "enabled": true, "selected": false }, { "text": "Scan documents", "enabled": false, "selected": true }]</pre>	 <pre data-bbox="605 255 1339 1163"> { "card03": { "template": "zzz.OVPDemoAug30.ext.Task", "settings": { "title": "{{card03_title}}", "entitySet": "SalesOrderSet", "tasks": [{ "text": "Call mom", "enabled": true, "selected": false }, { "text": "Book flight tickets", "enabled": true, "selected": false }, { "text": "Read more about Fiori Elements", "enabled": true, "selected": false }, { "text": "Go grocery shopping", "enabled": true, "selected": false }, { "text": "Scan documents", "enabled": false, "selected": true }] } } }</pre>

Explanation	Screenshot
<p>Open the i18n.properties file to edit text for this card.</p>	 <p>The screenshot shows the SAP Fiori Elements Project Explorer interface. The left sidebar has icons for Home, Project, Settings, and Help. The top navigation bar includes File, Edit, Build, Run, and Deploy. The Project Explorer tab is selected. The tree view shows a workspace with several projects and files. One file, 'i18n.properties', is highlighted with a red box and a circled '1' pointing to it, indicating it is the target for editing. Other visible files include Component.js, Task.controller.js, Task.fragment.xml, and readme.txt under the 'task' folder, and img/i18n.properties under the 'img' folder.</p>

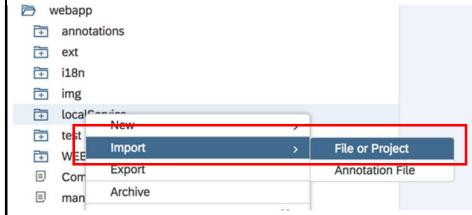
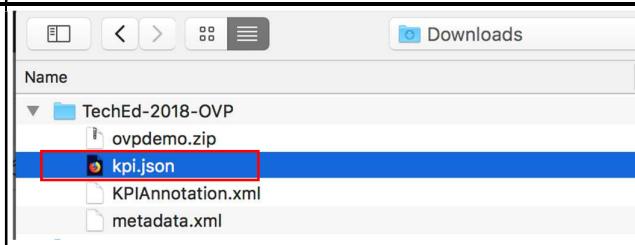
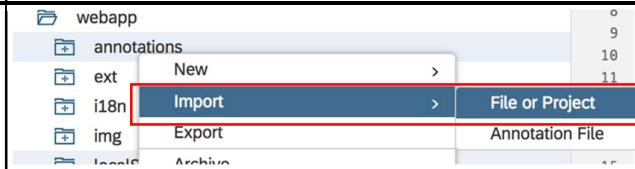
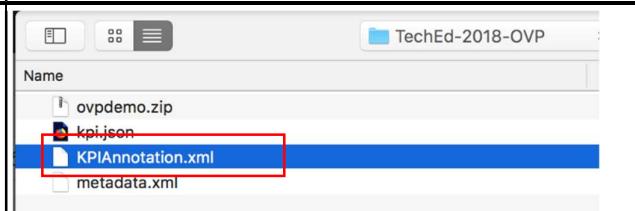
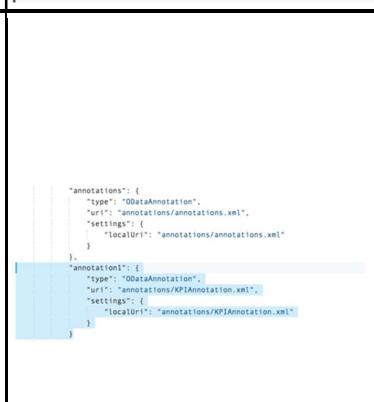
Explanation	Screenshot
<p>Change the following i18n text:</p> <p>card03_title=My Tasks</p>	<pre>i18n.properties x 1 # This is the resource bundle for Sales Overview#XTIT: 2 app_title: Sales Overview 3 #XTIT: 4 app_description: 5 6 #XFLD: 7 card00_title=Products List 8 9 #XFLD: 10 card01_title=Recent Sales Orders 11 12 #XFLD: 13 card01_subTitle=Sorted by creation date 14 15 #XFLD: 16 card02_title=High Value Order Monitoring 17 18 #XFLD: 19 card02_subTitle=Gross amount greater than 10000 20 21 #XFLD: 22 card02_valueSelectionInfo=Sales Order Amount 23 24 #XFLD: 25 card03_title=My Tasks</pre>
<p>Save the i18n file by (1) clicking</p> 	
<p>Open the preview</p> 	
<p>Now you should see the “My Tasks” card.</p>	

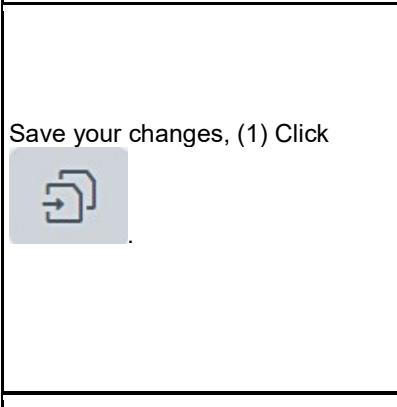
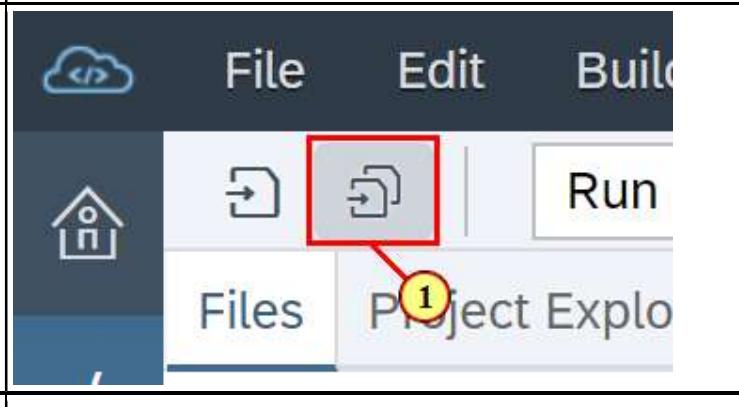
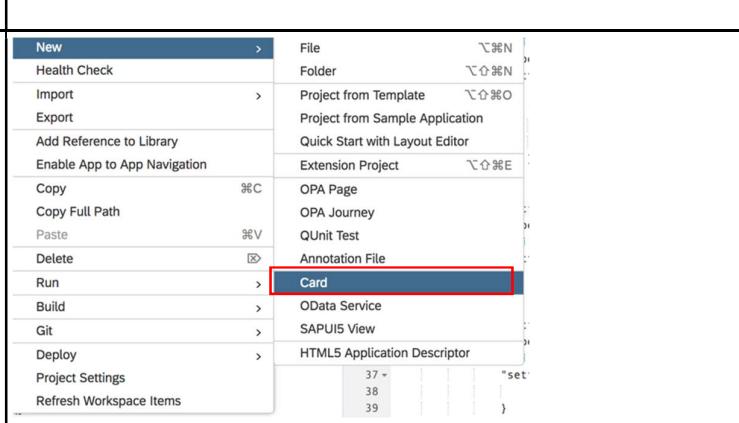
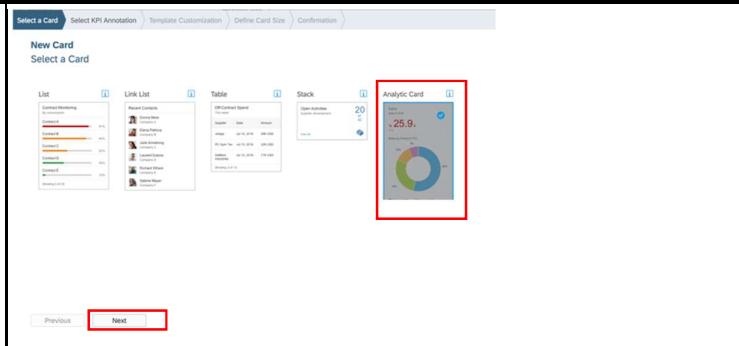
Explanation	Screenshot
<p>With the plus button you can add new tasks. Note, that they're not persisted. This is not in scope for this exercise.</p>	 <p>The screenshot shows a SAP Fiori application interface. At the top, there's a header with the SAP logo and navigation links like 'Standard' and 'Not Filtered'. Below the header is a list titled 'Fast Moving Products' with 5 of 8 items shown. The items are:</p> <ul style="list-style-type: none"> AD-1000 Portable DVD player 4.9K EUR HT-1000 Notebook Basic 15 956.0 EUR HT-1001 Widescreen Portable DVD Player 1.2K EUR HT-1002 Astro Laptop 1516 1.6K USD HT-1007 Camcorder View 299.0 USD <p>Below the product list is a section titled 'My Tasks' with a checkbox for 'Call mom'. To the right of this section is a blue '+' button with a red box around it, indicating it's the target for the exercise. A small '1' icon is visible near the '+', suggesting one task has been added.</p>
<p>(1) Enter a Task Name and click Save.</p>	 <p>The screenshot shows a modal dialog titled 'Create a Task'. It has a 'Task Name' input field containing the text 'Get the hosts a cappuccino'. At the bottom of the dialog are two buttons: 'Save' (highlighted with a red box) and 'Cancel'.</p>

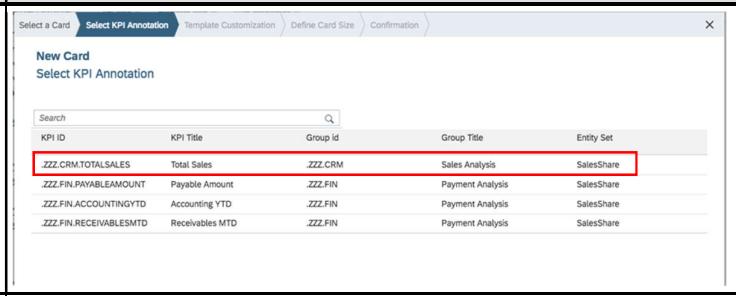
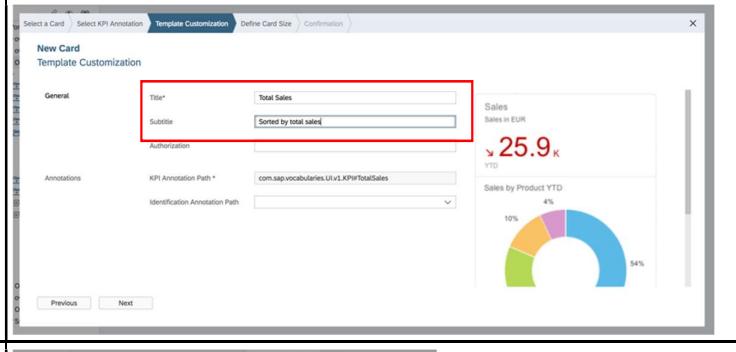
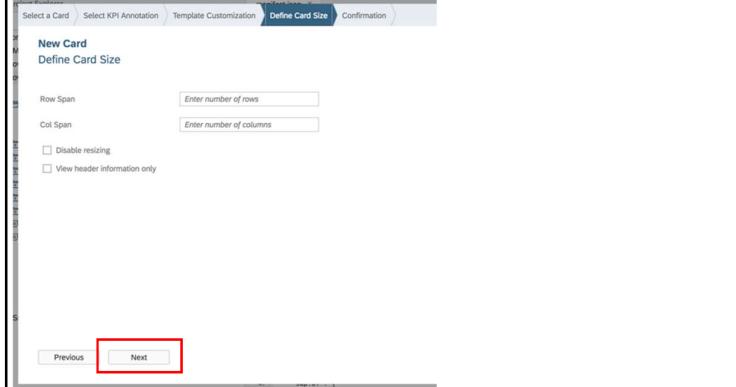
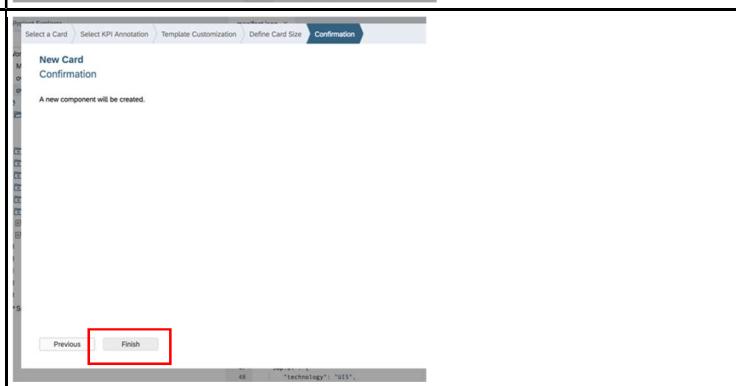
Explanation	Screenshot
<p>Your task was added to the card.</p>	 <p>The screenshot shows the SAP Fiori Sales Overview application. On the left, there's a 'Products List' card with items AD-1000, HT-1000, HT-1001, HT-1002, and HT-1007. In the center, there's a 'Recent Sales Orders' card showing orders 0500000001 through 0500000008. To the right, there's a 'High Value Order Monitoring' card with a summary of 25.9K sales. On the far right, there's a 'My Tasks' card with several tasks listed, one of which is 'Get the hosts a cappuccino', which is highlighted with a red box.</p>

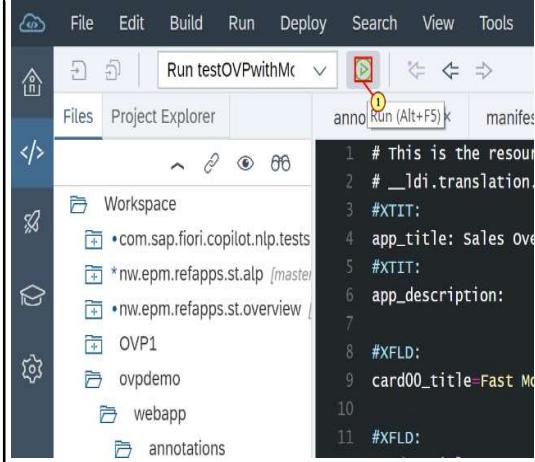
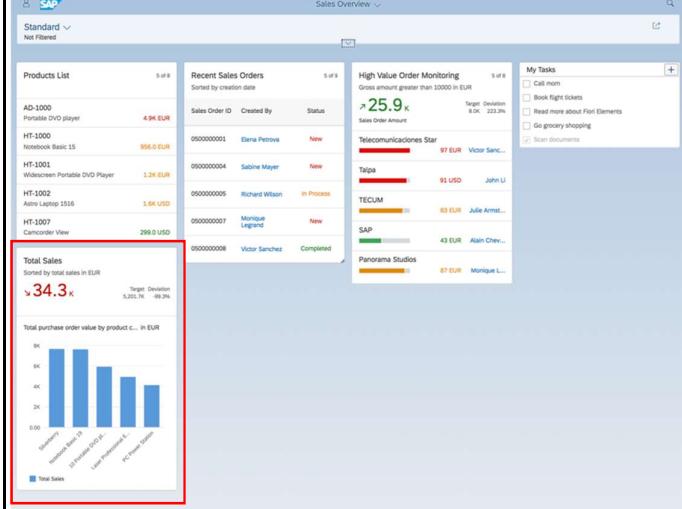
7. Create an Analytical Card

Congratulations, you reached the last card of the exercise ☺. Keep on going! The overview page can also show cards with several charts. In this exercise you will create a card with a bar chart showing the Total Sales.

Explanation	Screenshot
Select the localService folder and Select on import->File or Project	
Select the KPI.json file	
Now import the KPI Annotation file into the annotations folder	
Select the KPIAnnotation.xml file	
Double Click the manifest.json to edit the file and add the portion, highlighted in the image, below annotations <pre data-bbox="213 1474 584 1740"> "annotation1": { "type": "ODataAnnotation", "uri": "annotations/KPIAnnotation.xml", "settings": { "localUri": "annotations/KPIAnnotation.xml" } } </pre>	
Remember to add a "," before you add the above snippet	

Explanation	Screenshot
<p>Update the entry for datasources as shown in the screenshot to include the newly added annotation file Add the following(including the ","): ,</p> <pre data-bbox="208 487 605 517">"annotation1"</pre>	 <pre data-bbox="687 270 1230 551"> "dataSources": { "ovpdemo": { "uri": "/here/goes/your/serviceurl/", "type": "OData", "settings": { "odataVersion": "2.0", "localUri": "localService/ovpdemo/metadata.xml", "annotations": ["annotations", "annotation1"] } } }. </pre>
<p>Save your changes, (1) Click</p> 	
<p>Note that the above steps are not required when you have a Smart Business KPI service running in your system. We will now add a new Analytic Card to the project Right Select on the OVP project and select New->Card</p>	
<p>Select an Analytic Card, Click Next</p>	

Explanation	Screenshot																									
<p>Select the Smart Business KPI that you wish to use to create the card, E.g.: Total Sales, Click Next</p>	 <table border="1"> <thead> <tr> <th>KPI ID</th> <th>KPI Title</th> <th>Group Id</th> <th>Group Title</th> <th>Entity Set</th> </tr> </thead> <tbody> <tr> <td>ZZZ.CRM.TOTALSALES</td> <td>Total Sales</td> <td>ZZZ.CRM</td> <td>Sales Analysis</td> <td>SalesShare</td> </tr> <tr> <td>ZZZ.FIN.PAYABLEAMOUNT</td> <td>Payable Amount</td> <td>ZZZ.FIN</td> <td>Payment Analysis</td> <td>SalesShare</td> </tr> <tr> <td>ZZZ.FIN.ACCTOLOGYTD</td> <td>Accounting YTD</td> <td>ZZZ.FIN</td> <td>Payment Analysis</td> <td>SalesShare</td> </tr> <tr> <td>ZZZ.FIN.RECEIVABLESMTD</td> <td>Receivables MTD</td> <td>ZZZ.FIN</td> <td>Payment Analysis</td> <td>SalesShare</td> </tr> </tbody> </table>	KPI ID	KPI Title	Group Id	Group Title	Entity Set	ZZZ.CRM.TOTALSALES	Total Sales	ZZZ.CRM	Sales Analysis	SalesShare	ZZZ.FIN.PAYABLEAMOUNT	Payable Amount	ZZZ.FIN	Payment Analysis	SalesShare	ZZZ.FIN.ACCTOLOGYTD	Accounting YTD	ZZZ.FIN	Payment Analysis	SalesShare	ZZZ.FIN.RECEIVABLESMTD	Receivables MTD	ZZZ.FIN	Payment Analysis	SalesShare
KPI ID	KPI Title	Group Id	Group Title	Entity Set																						
ZZZ.CRM.TOTALSALES	Total Sales	ZZZ.CRM	Sales Analysis	SalesShare																						
ZZZ.FIN.PAYABLEAMOUNT	Payable Amount	ZZZ.FIN	Payment Analysis	SalesShare																						
ZZZ.FIN.ACCTOLOGYTD	Accounting YTD	ZZZ.FIN	Payment Analysis	SalesShare																						
ZZZ.FIN.RECEIVABLESMTD	Receivables MTD	ZZZ.FIN	Payment Analysis	SalesShare																						
<p>Enter the Card Title “Total Sales”, SubTitle as “Sorted by total sales”, Click Next</p>																										
<p>Click Next</p>																										
<p>Click Finish</p>																										

Explanation	Screenshot
The card as shown in the screenshot is added to the manifest.json	<pre data-bbox="731 270 1344 494"> "card04": { "model": "ovpdemo", "template": "sap.ovp.cards.charts.analytical", "settings": { "title": "{{card04_title}}", "subTitle": "{{card04_subtitle}}", "kpiAnnotationPath": "com.sap.vocabularies.UI.v1.KPI#Total" "entitySet": "SalesShare" } } </pre>
(1) Click 	 <pre data-bbox="926 656 1142 979"> 1 # This is the resource 2 # _ldi.translation. 3 #XTIT: 4 app_title: Sales Overview 5 #XTIT: 6 app_description: 7 8 #XFLD: 9 card00_title-Fast Moving Products 10 11 #XFLD: </pre>
The new Total Sales Card has been added.	 <p>The screenshot shows the SAP Fiori Sales Overview application. At the bottom left, there is a bar chart card with the title 'Total Sales' and a value of '34.3 k'. The chart displays sales data for various products. The entire card is highlighted with a red box.</p>