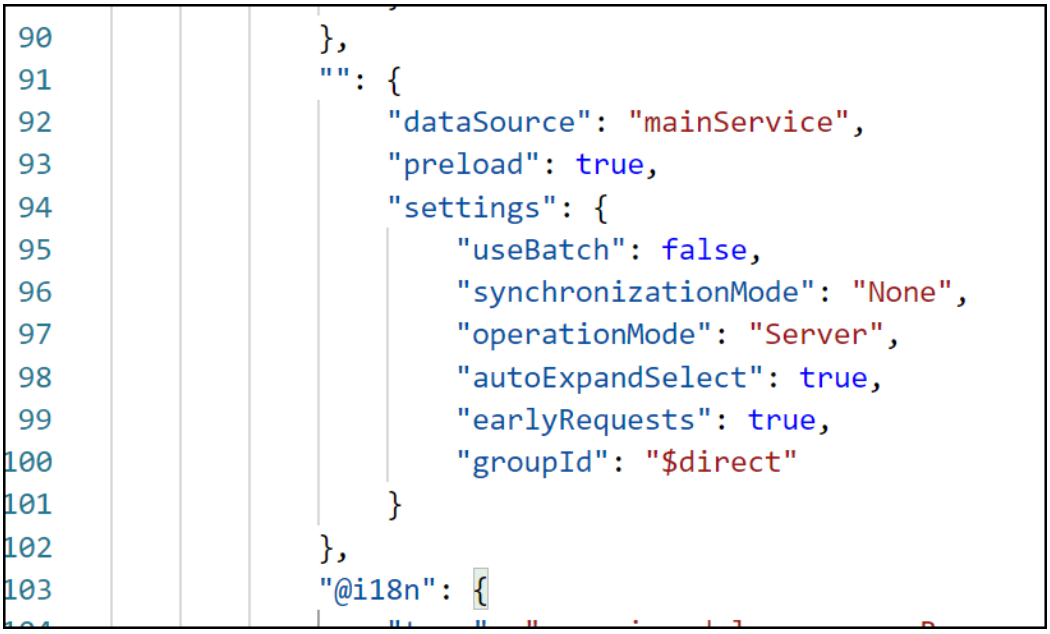
Extend Fiori Elements Overview Page Application

Task 1: Create a new Extension application CDS/OData V2

- Create a new Fiori Application using the Template Wizard for a *Overview Page*

Field	**Value**
Data source	Connect to a System
System	abap-cloud-default_xx-dev (BTP)
Service	ZUI_WKSP_##_V2
Main entity	OverviewPageType
Module name	extend-ovp
Application title	Extend Overview Page
Application namespace	nato.workshop
Description	Extend Overview Page
Project folder path	/home/user/projects
Add deployment configuration	Yes
Add FLP configuration	Yes
Deployment Target	Cloud Foundry
Destination name	abap-cloud-default_xx(SCP)
Add application to managed application router	Yes
Semantic Object	NATO
Action	ExtendOVP
Title	ExtendOVP
Subtitle	Workshop

- Open the manifest.json file and add **"useBatch": false,** to the *settings* part of the *mainModel*

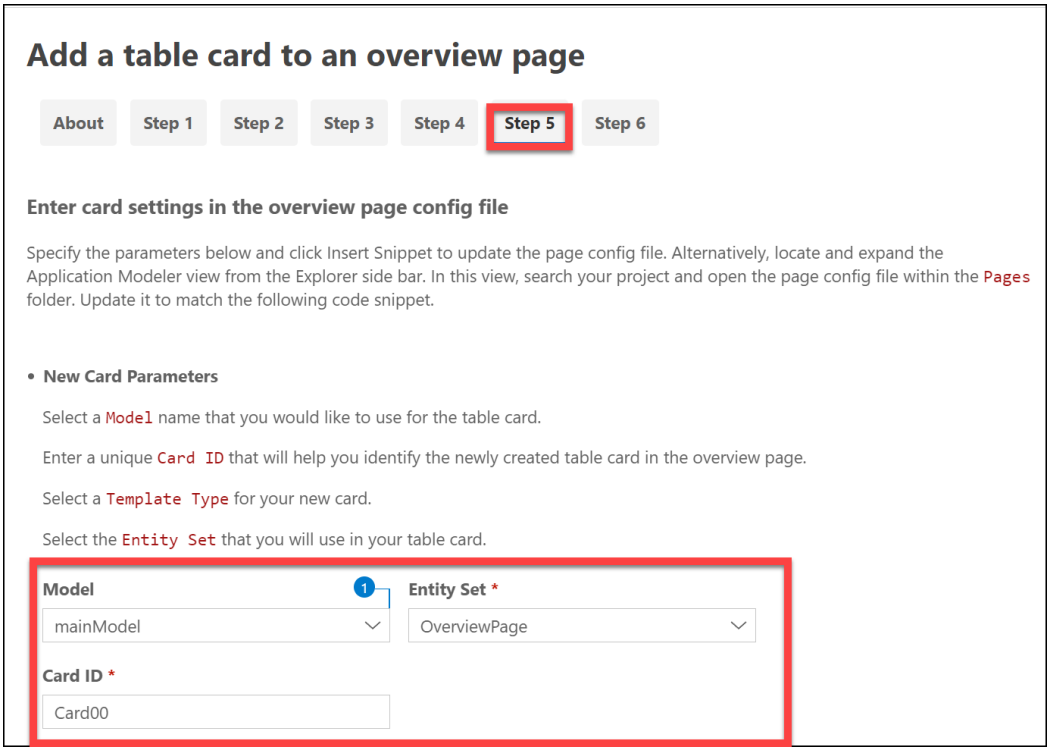


```
90          },
91          "": {
92              "dataSource": "mainService",
93              "preload": true,
94              "settings": {
95                  "useBatch": false,
96                  "synchronizationMode": "None",
97                  "operationMode": "Server",
98                  "autoExpandSelect": true,
99                  "earlyRequests": true,
100                 "groupId": "$direct"
101             }
102         },
103         "@i18n": {
```

Task 2: Add a table card

- Start a *Guided Development* for **Add a table card to an overview page**
- In *Step 5* use following **New Card Parameters**

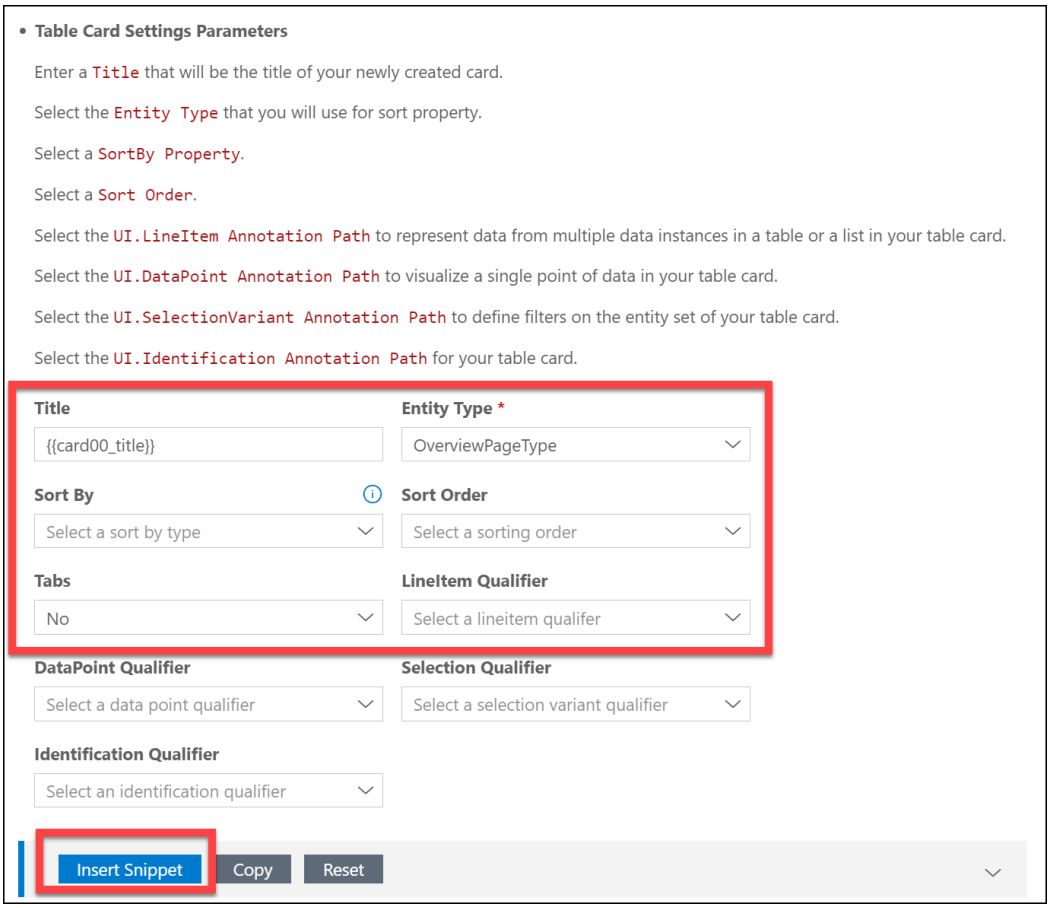
Name	Value
Model	mainModel
Entity Set	OverviewPage
Card ID	Card00



- Add following **Table Card Settings Paramters**

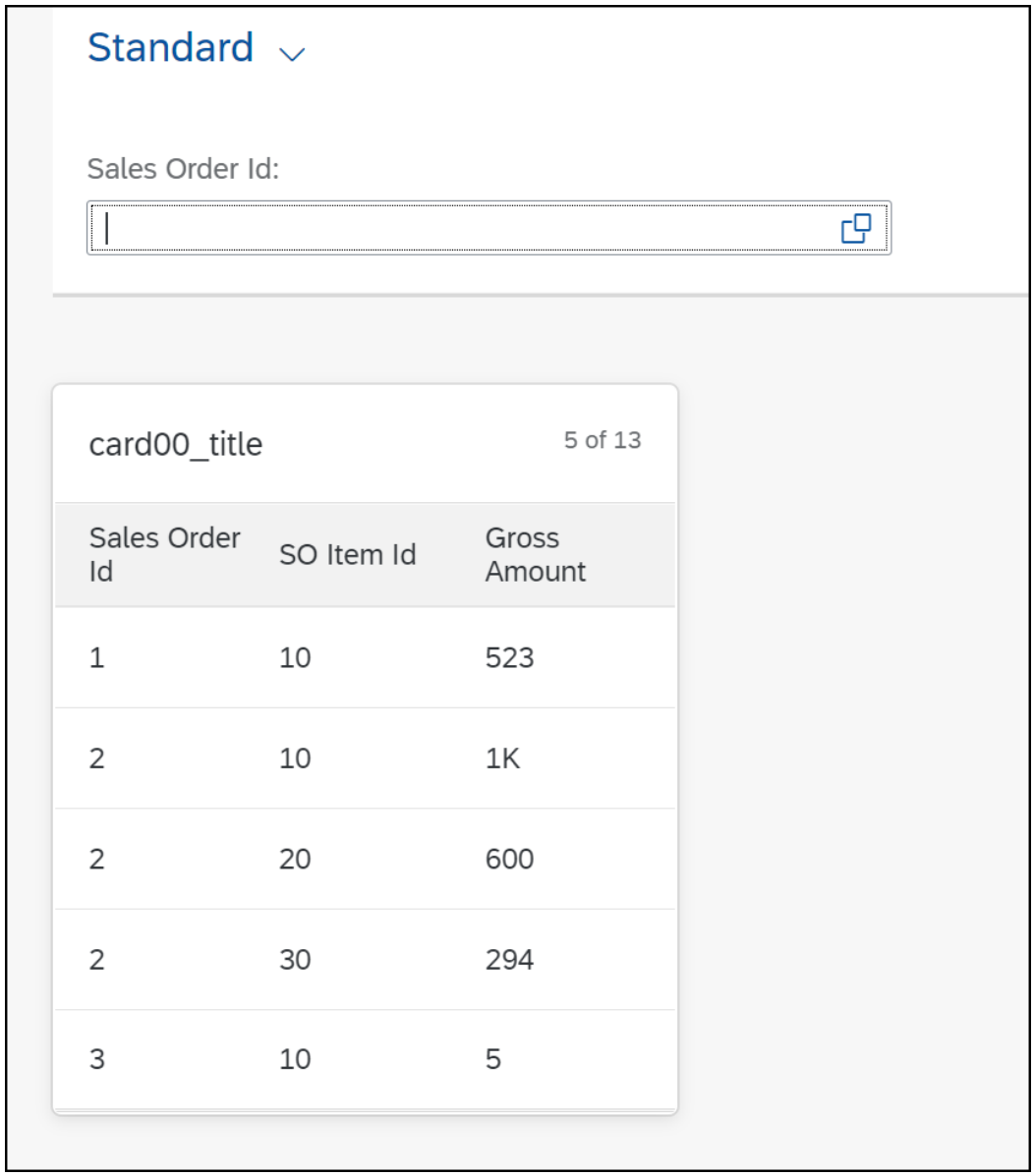
Name	Value
Title	{{card00_title}}
Entity Type	OverviewPageType
Tabs	No

- *Insert Snippet*



- OverviewPage.josn

- Preview Application

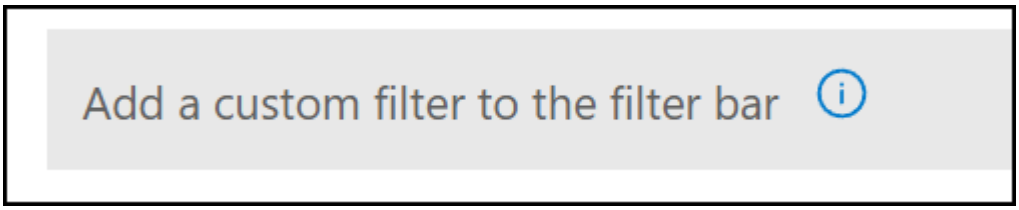


Task 3: Add a custom filter to the filter bar

- Add **card00_title=Recent Sales card01_title=Recent Products sold** to *i18n.properties*

```
#XTIT: Card00_title
card00_title=Recent Sales

#XTIT: Card01_title
card01_title=Recent Products sold
```

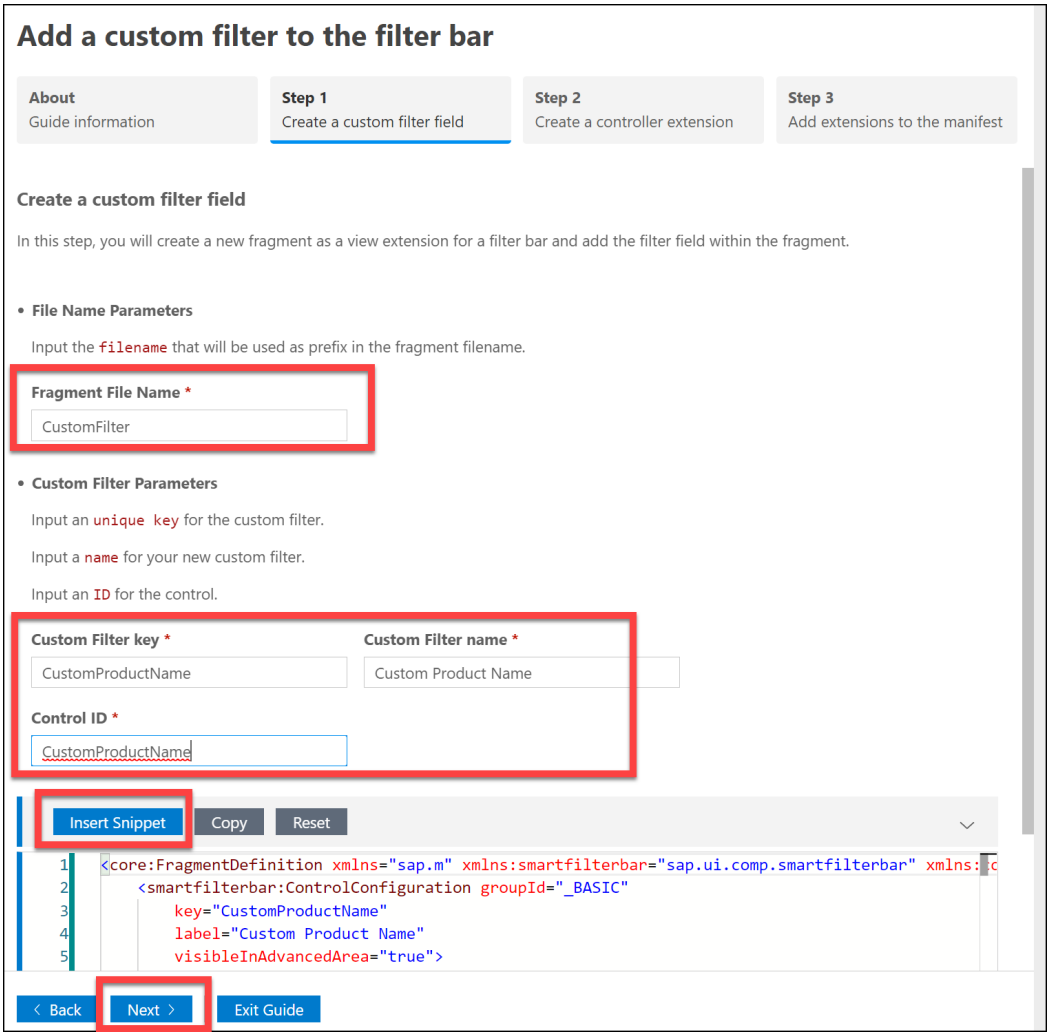
- Start a *Guided Development* for **Add a custom filter to the filter bar**



- In *Step 1* use following parameters

Name	Value
Fragment File Name	CustomFilter
Custom Filter Key	CustomProductName
Custom Filter Name	Custom Product Name
Control ID	CustomProductName

- *Insert Snippet* and *Next*

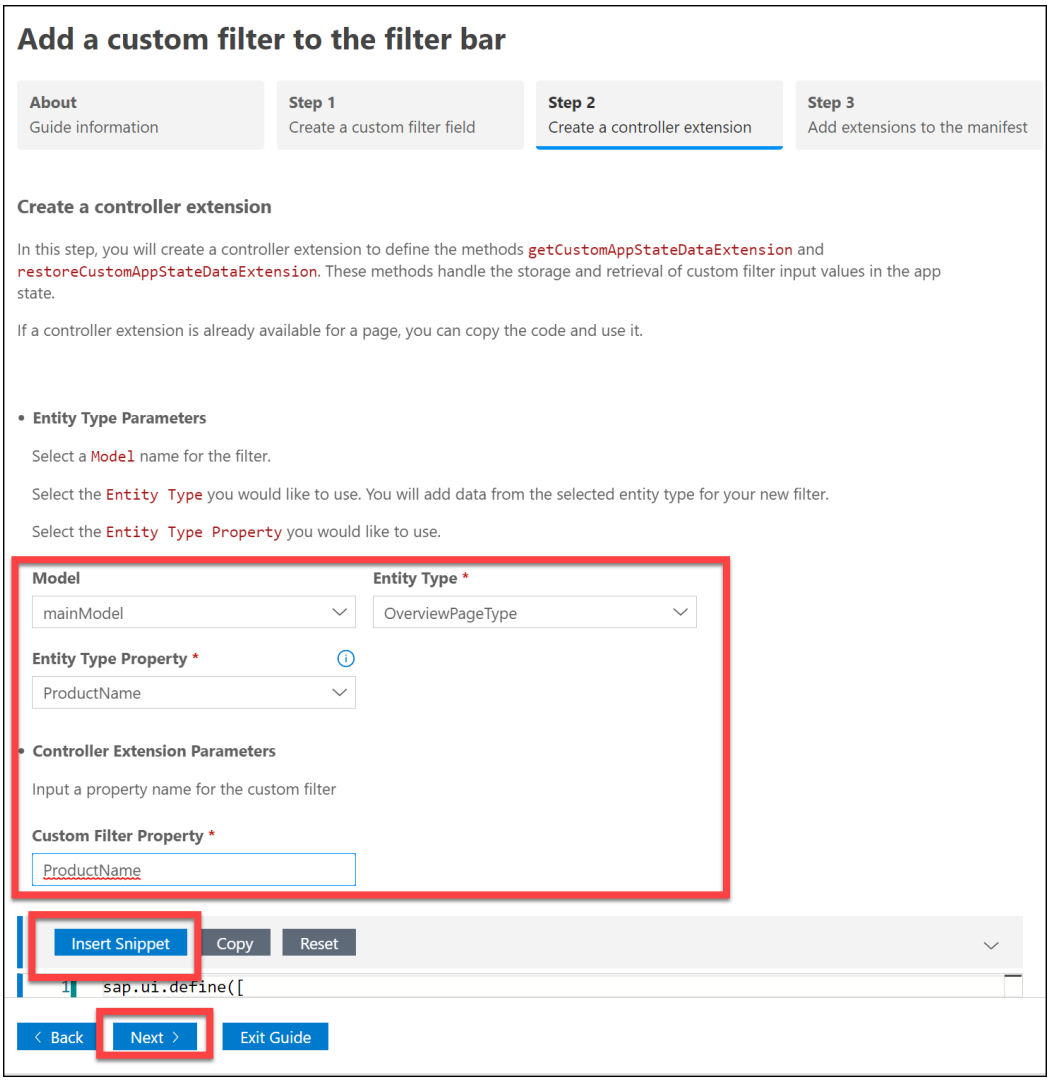


- This creates a new folder **ext/fragments** with file **CustomFilter.fragment.xml**

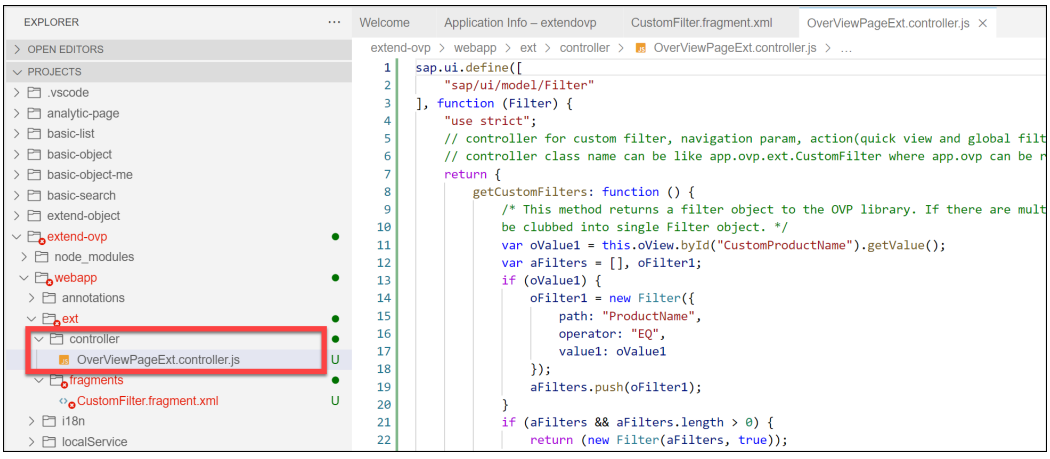
- In *Step 2* use following parameters

Name	Value
Model	mainModel
Entity Type	OverviewPageType
Entity Type Property	ProductName
Custom Filter Property	ProductName

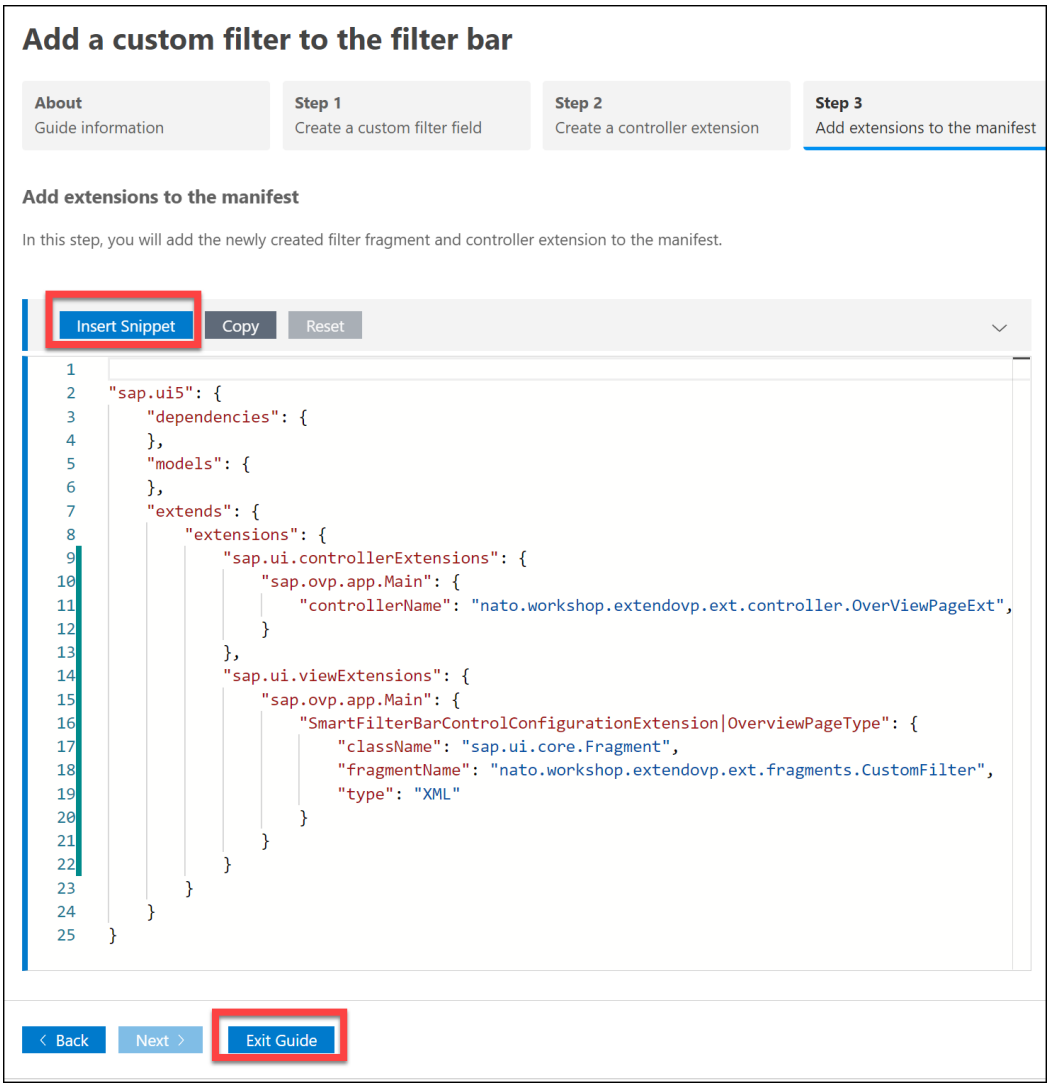
- *Insert Snippet* and *Next*



- This creates a new folder **ext/controller** with file **OverViewPageExt.controller.js**



- In *Step 3 Insert Snippet* and *Exit Guide*



- Implement **CustomFilter.fragment.xml** by adding a *Select*

```
<core:FragmentDefinition xmlns="sap.m"
xmlns:smartfilterbar="sap.ui.comp.smartfilterbar"
xmlns:core="sap.ui.core">
    <smartfilterbar:ControlConfiguration id="CustomFilter"
groupId="_BASIC"
        key="CustomProductName"
        label="Custom Product Name"
        visibleInAdvancedArea="true">
        <smartfilterbar:customControl>
            <Select id="CustomProductName">
                <core:Item id="all" text="All" key="All"/>
                <core:Item id="Gal" text="Galaxy" key="Gal"/>
                <core:Item id="Sub" text="Subscription"
key="Sub"/>
            </Select>
        </smartfilterbar:customControl>
```

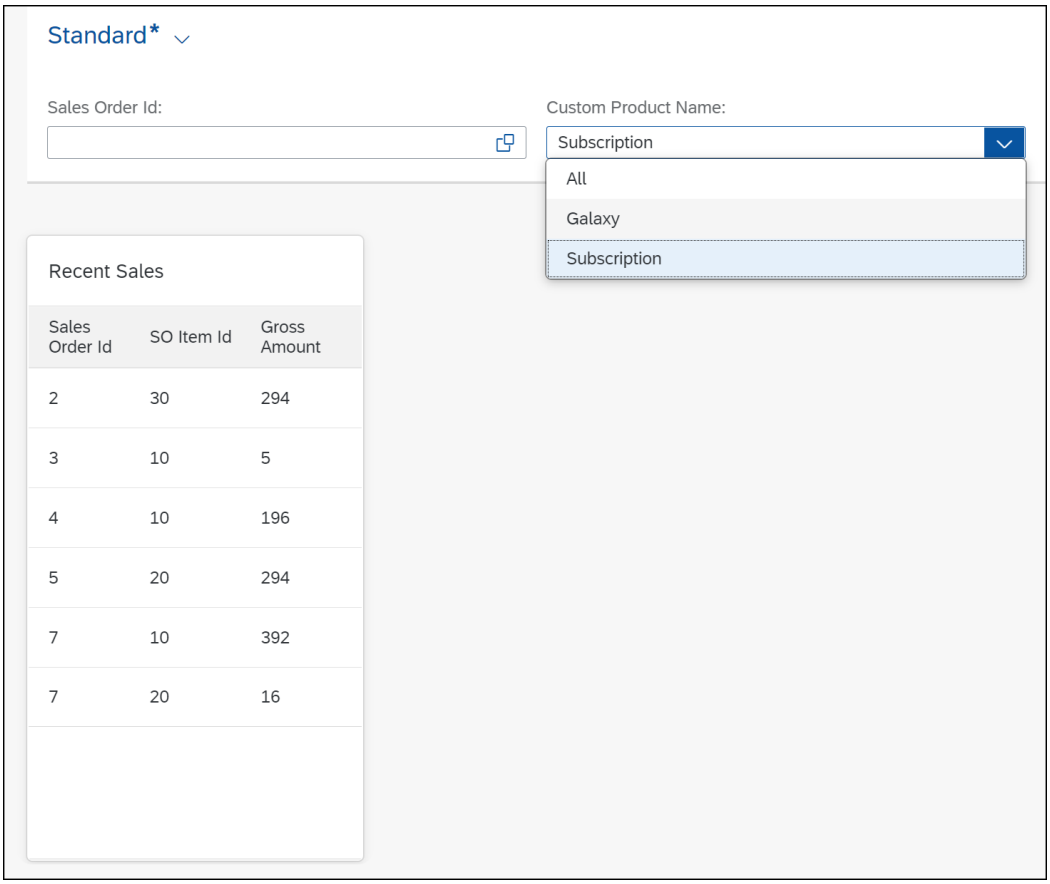
```
    </smartfilterbar:ControlConfiguration>
</core:FragmentDefinition>
```

- Implement **OverViewPageExt.controller.js**

```
sap.ui.define([
    "sap/ui/model/Filter",
    "sap/ui/model/FilterOperator"
], function (Filter,FilterOperator) {
    "use strict";
    // controller for custom filter, navigation param,
action(quick view and global filter), navigation target
    // controller class name can be like app.ovp.ext.CustomFilter
where app.ovp can be replaced with your application namespace
    return {
        getCustomFilters: function () {
            /* This method returns a filter object to the OVP
library. If there are multiple filters, they should
            be clubbed into single Filter object. */
            var sSelectedKey =
this.oView.byId("CustomProductName").getSelectedKey();
            var aFilters = [], oFilter1;

            switch (sSelectedKey){
                case "All":
                    break;
                case "Gal":
                    oFilter1 = new Filter({path:"ProductName",
operator: FilterOperator.StartsWith, value1: "Gal"})
                    aFilters.push(oFilter1);
                    break;
                case "Sub":
                    oFilter1 = new Filter({path:"ProductName",
operator: FilterOperator.NotStartsWith, value1: "Gal"})
                    aFilters.push(oFilter1);
                    break;
                }

            if (aFilters && aFilters.length > 0) {
                return (new Filter(aFilters, true));
            }
        },
        getCustomAppStateDataExtension: function (oCustomData) {
            //the content of the custom field will be stored in
the app state, so that it can be restored later, for example after
a back navigation.
```

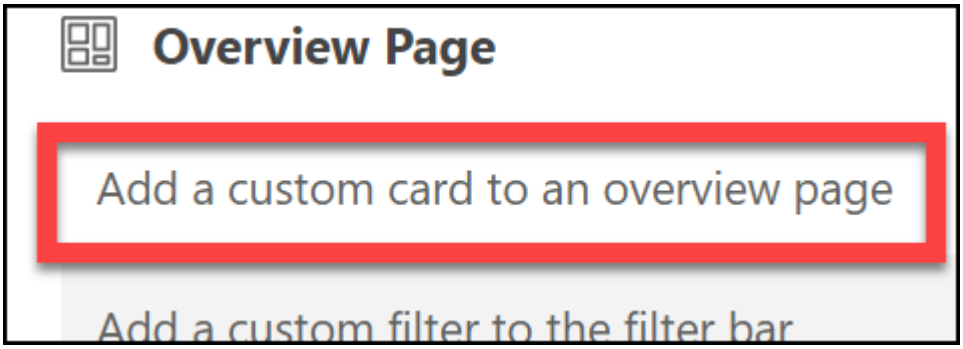
```
            //The developer has to ensure that the content of the
field is stored in the object that is returned by this method.
            if (oCustomData) {
                var oCustomField1 =
this.oView.byId("CustomProductName");
                if (oCustomField1) {
                    oCustomData.ProductName =
oCustomField1.getSelectedKey();
                }
            }
        },
        restoreCustomAppStateDataExtension: function (oCustomData)
{
            //in order to restore the content of the custom field
in the filter bar, for example after a back navigation,
            //an object with the content is handed over to this
method. Now the developer has to ensure that the content of the
custom filter is set to the control
            if (oCustomData) {
                if (oCustomData.ProductName) {
                    var oCustomField1 =
this.oView.byId("CustomProductName");

oCustomField1.setValue(oCustomData.ProductName);
                }
            }
        }
    }
});
```

- Preview Application



Task 4: Add a custom card

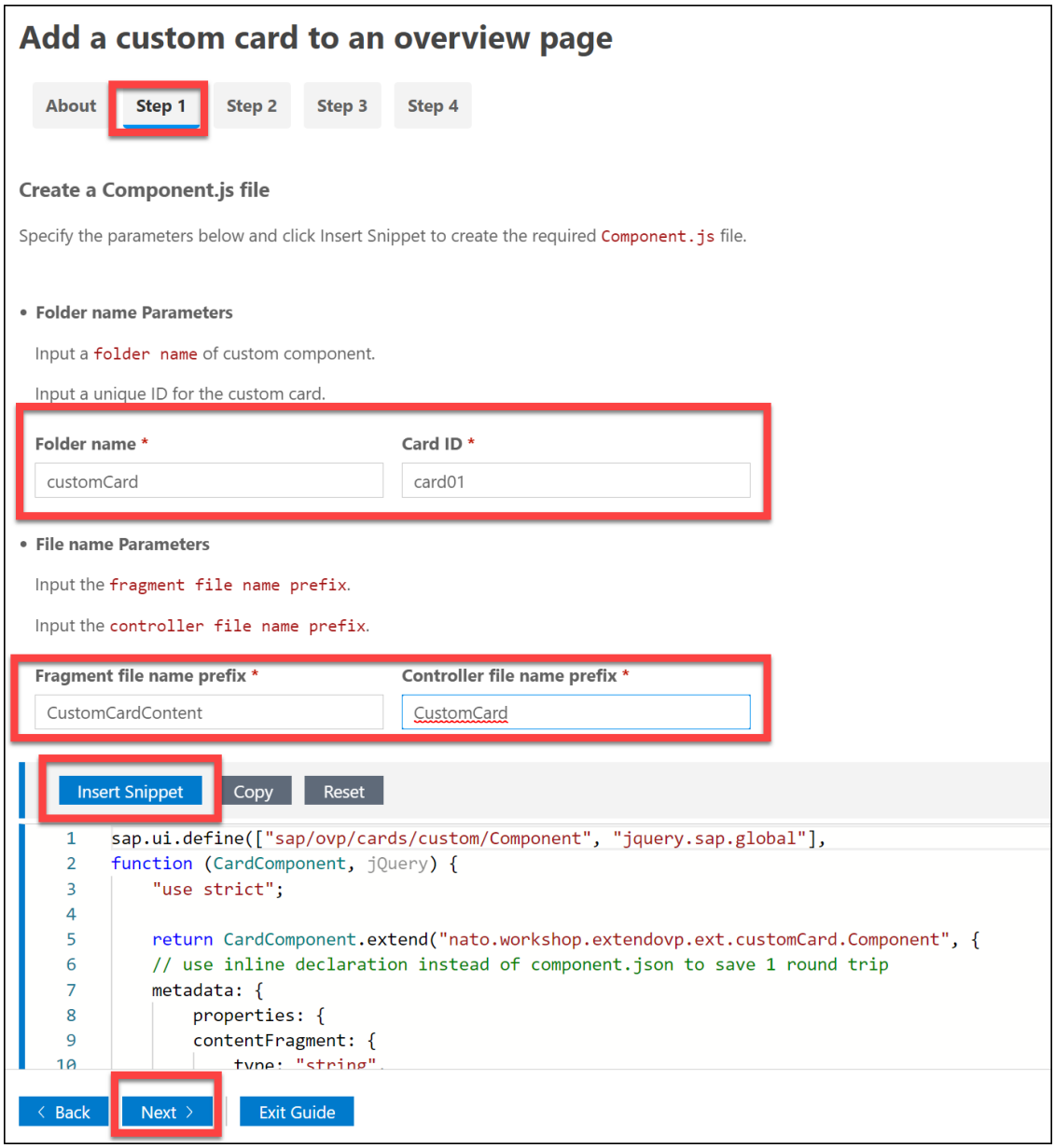
- Start a *Guided Development* for **Add a custom card to an overview page**



- In *Step 1* use following parameters

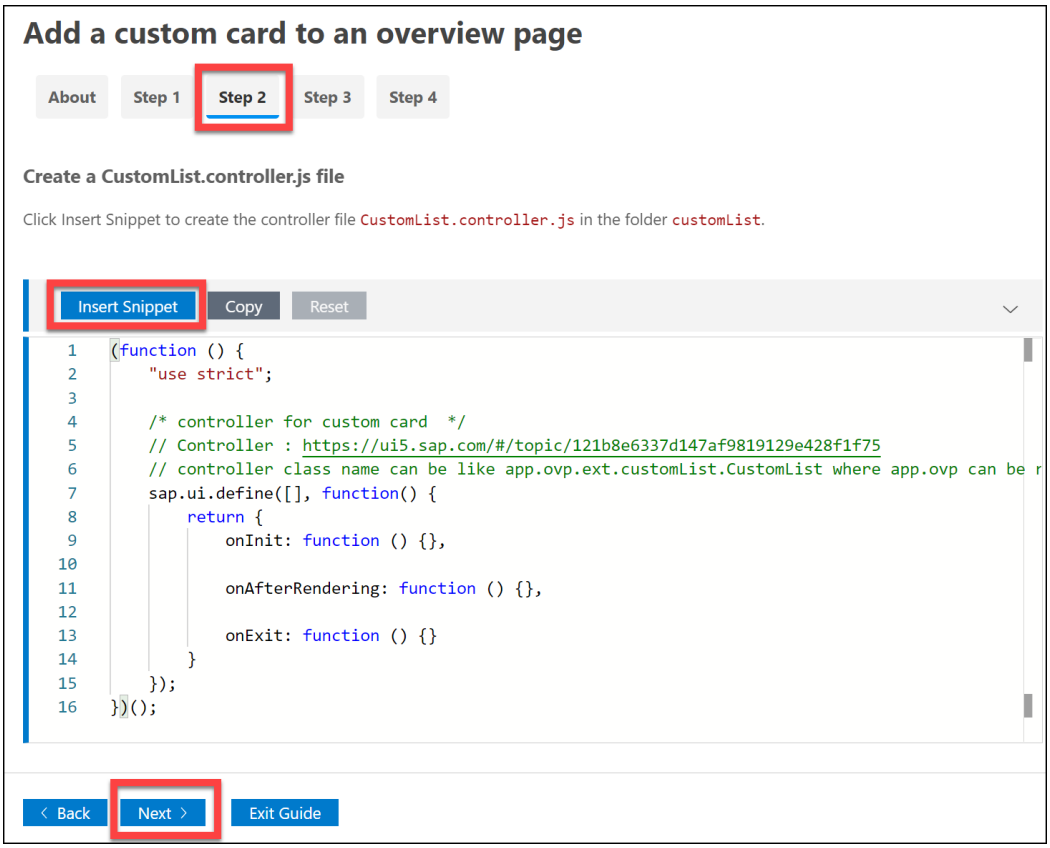
Name	Value
Folder name	customCard
Card ID	card01
Fragment file name prefix	CustomCardContent
Controller file name prefix	CustomCard

Insert Snippet and *Next*

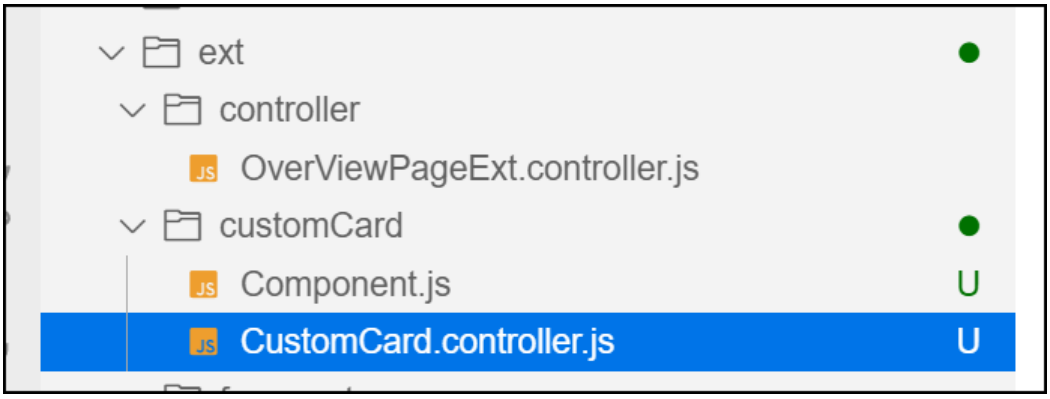


- This creates a new folder **customCard** with file **Component.js**

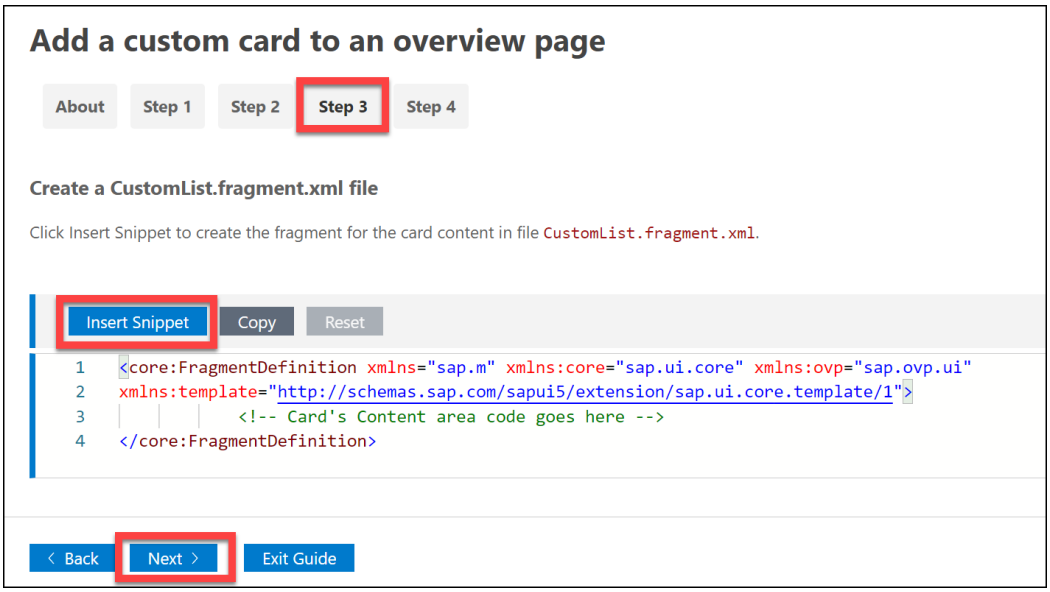
- In *Step 2 Insert Snippet* and *Next*



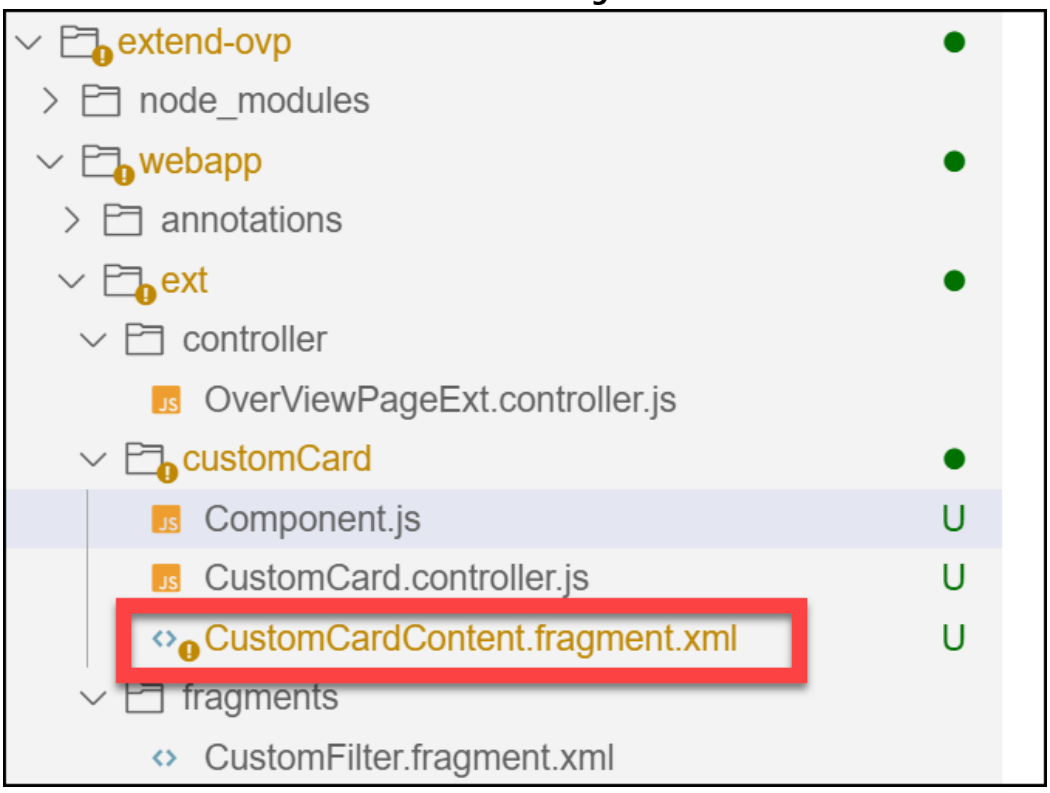
- This creates a new file **CustomCard.controller.js**



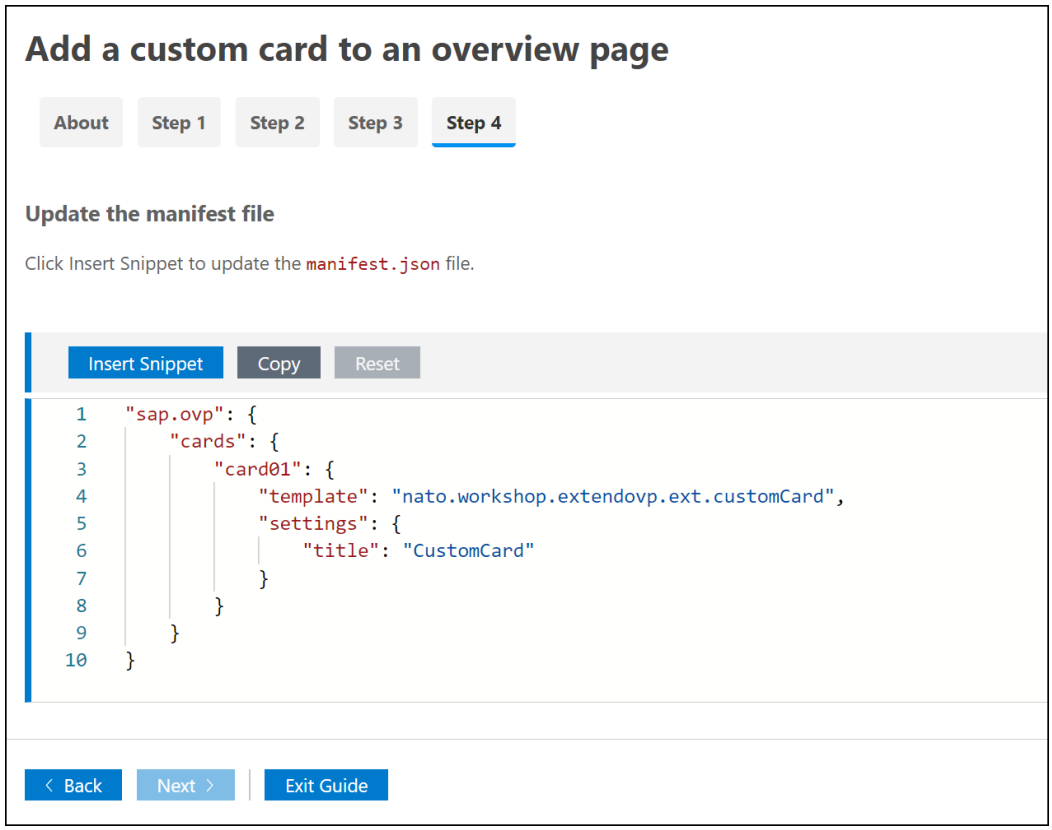
- In *Step 3 Insert Snippet* and *Next*



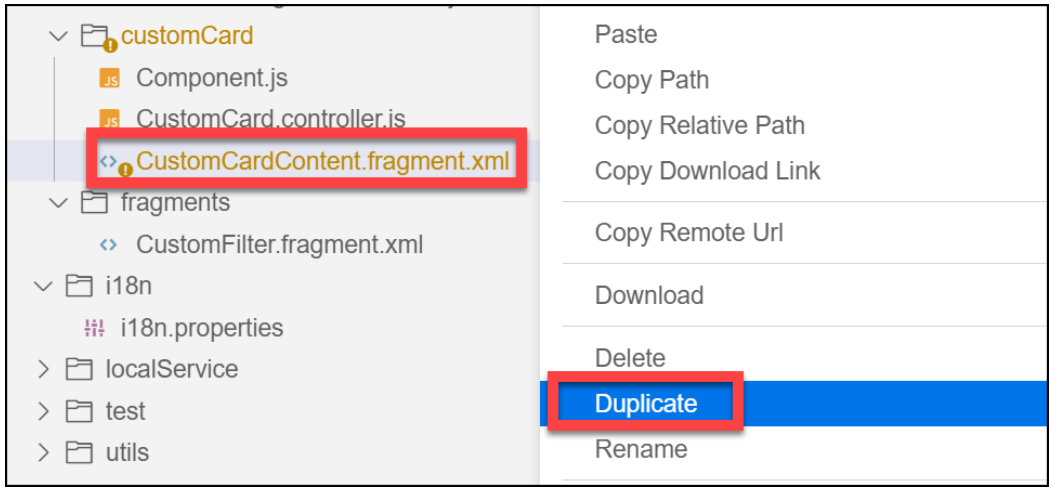
- This creates a new file **CustomCardContent.fragment.xml**



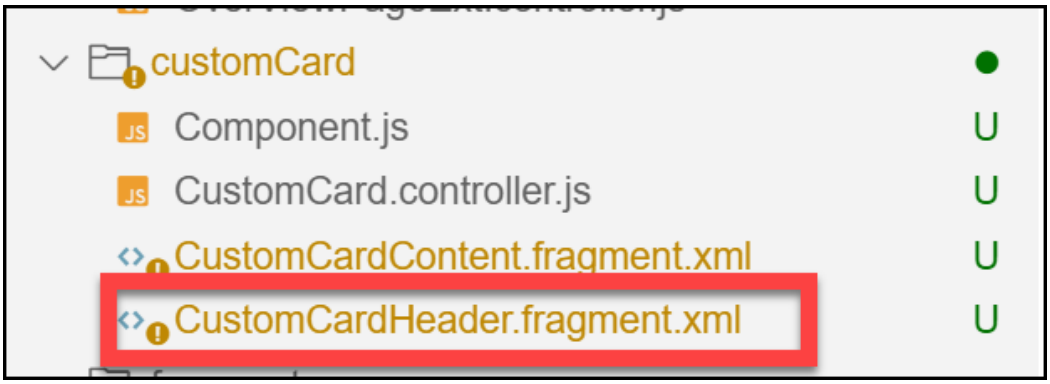
- In *Step 4 Insert Snippet* and *Exit Guide*



- Duplicate the **CustomCardContent.fragment.xml** file to **CustomCardHeader.fragment.xml**, because we also want a header in our custom card



- CustomCardHeader.fragment.xml



- in file **ext/customCard/Component.js** copy the *defaultValue* from **ContentFragment** to **headerFragment** and change it to **CustomCardHeader**

- Implement **CustomCardHeader.fragment.xml**

```
<core:FragmentDefinition xmlns="sap.m" xmlns:core="sap.ui.core"
xmlns:ovp="sap.ovp.ui"
xmlns:template="http://schemas.sap.com/sapui5/extension/sap.ui.cor
e.template/1">
    <VBox id="idVbox">
    <Title id="idTitle" text="{i18n>card01_title}"
class="sapUiSmallMargin"/>
    </VBox>
</core:FragmentDefinition>
```

*Implement **CustomCardContent.fragment.xml**

```
<core:FragmentDefinition xmlns="sap.m" xmlns:core="sap.ui.core"
xmlns:ovp="sap.ovp.ui"
```

```
xmlns:template="http://schemas.sap.com/sapui5/extension/sap.ui.cor
e.template/1">
    <List id="idList" items="{ path: '/OverviewPage',
templateShareable: false}"
          growing="true"
          growingThreshold="3">
        <items>
            <StandardListItem id="idSLI" title="{ProductId}"
description="{ProductName}"/>
        </items>
    </List>
</core:FragmentDefinition>
```

- Preview Application