

Extend Fiori Elements List Report Object Page Application

Task 1: Create a Fiori elements Extension application **

Create a new Fiori Application using the Template Wizard for a *List Report*

Field	Value
Data source	Connect to a System
System	abap-cloud-default_xx-dev (BTP)
Service	ZUI_WKSP_##
Main entity	ListObject
Module name	extend-object
Application title	Extend List Object
Application namespace	nato.workshop
Description	Extend List Object
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	ExtendList
Title	Extend List Object
Subtitle	Workshop

- Entity Selection

Entity Selection

Configure the selected service.

Main entity *

ListObject

Automatically add table columns to the list page and a section to the object page if none already exists?

☒ Yes ☐ No

- Project Attributes

Project Attributes

Configure the main project attributes.

Module name ? *

extend-object

Application title ?

Extend List Object

Application namespace ?

nato.workshop

Description ?

Extend List Object

Project folder path *

..

/home/user/projects

Minimum SAPUI5 version  *

1.96.7 (Source system version)

Add deployment configuration

☒ Yes ☐ No

Add FLP configuration

☒ Yes ☐ No

Configure advanced options

☐ Yes ☒ No

- Fiori Launchpad Configuration

Fiori Launchpad Configuration

Configure Fiori Launchpad settings

Semantic Object *

NATO

Action *

ExtendList

Title *

Extend List Object

Subtitle (optional)

Workshop

- Preview Application

Standard

Customer Id:

Search

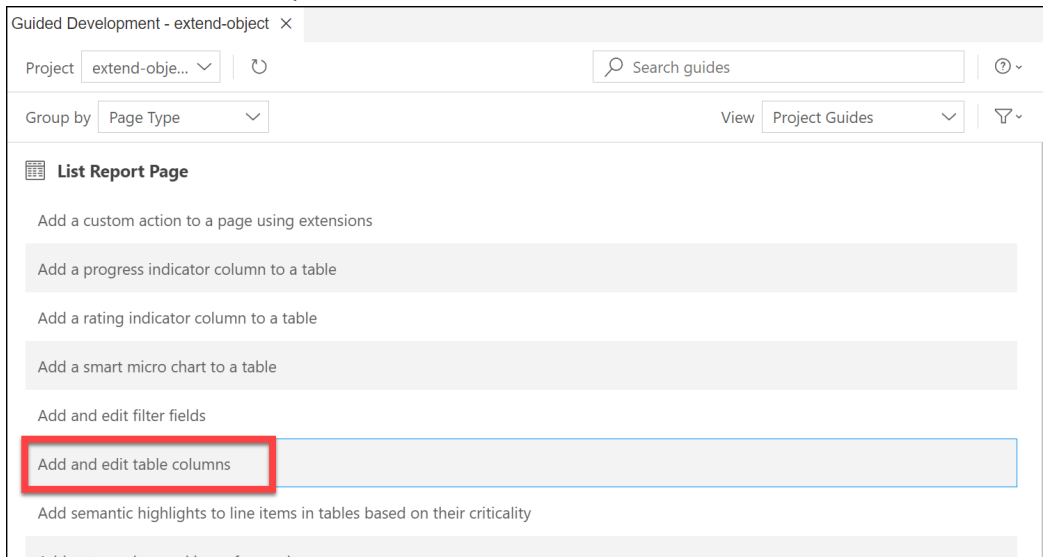
Go

Adapt Filters

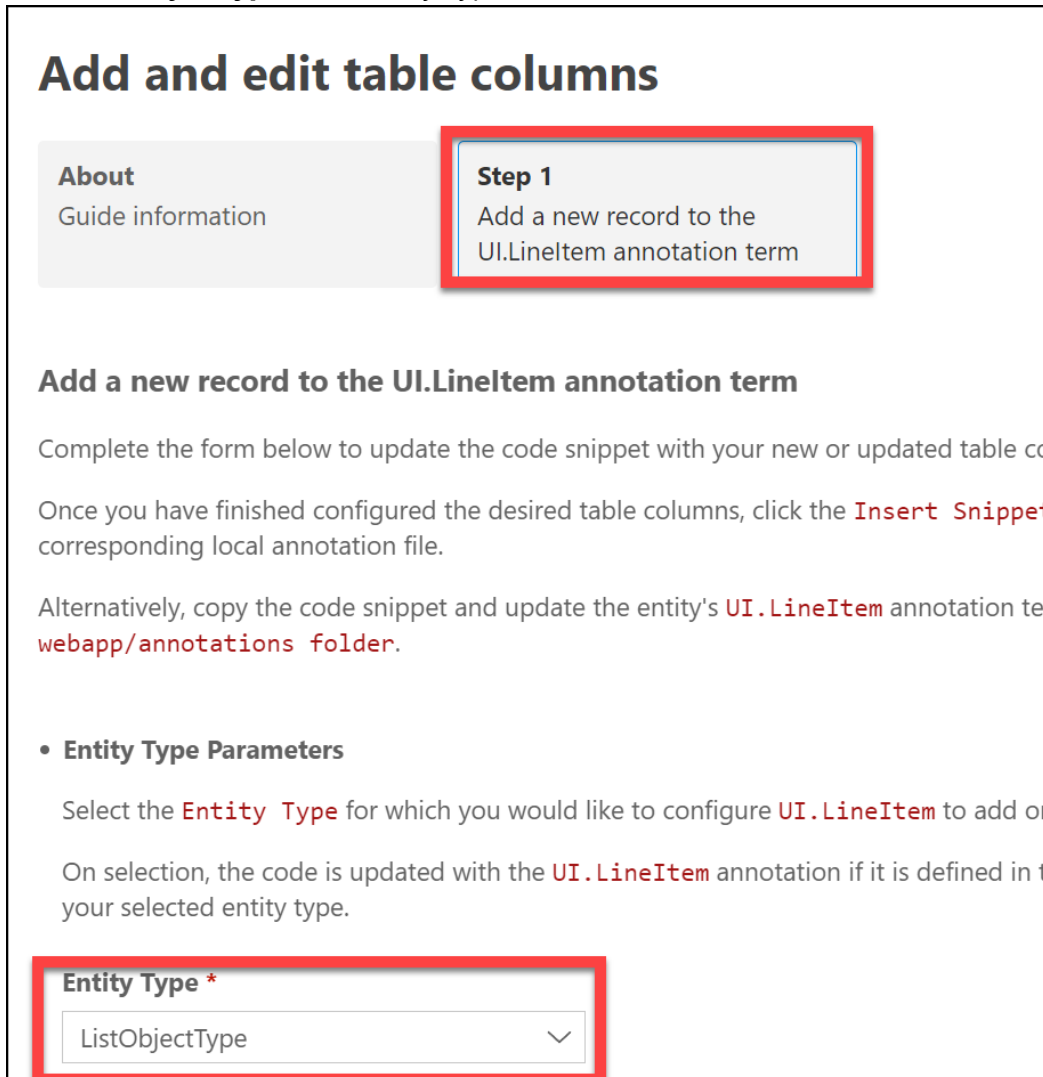
Sales Order Id	Customer Name	E-mail	Gross Amo...	Creation Date	
1	Pixel Tech	info@Pixel.lu	523.29	Jan 6, 2022	>
2	Pixel Tech	info@Pixel.lu	1,940.88	Jan 12, 2022	>
3	Techlanch	info@techlanch.be	5.2	Feb 2, 2022	>
4	Monotech	po.dep@monotech.nl	196.2	Feb 22, 2022	>
5	Visions	mail@visions.lu	3,294.31	Mar 14, 2022	>
6	Techaholic	post@techaholic.nl	600	Mar 26, 2022	>
7	Techlanch	info@techlanch.be	2,054.58	Apr 3, 2022	>

Task 2: Add extra column to Table

- Start the *Guided Development* and select **Add and edit table columns**



- Select **ListObjectType** as the *Entity Type*



- Press button *Add Column*

9

Navigation Path ⓘ Select a navigation path

Property * ⓘ Select a property for the ...

UI Importance High

^ v | 🗑️

- Enter **NetAmount** as the *Property* and *Insert Snippet*

9

Navigation Path ⓘ Select a navigation path

Property * ⓘ NetAmount

UI Importance High

^ v | 🗑️

+ Add column

Insert Snippet Copy Reset

- Preview Application

Standard ⌵

Search 🔍 Customer Id: 🔍

Sales Orders (7)

Sales Order Id	Customer Name	E-mail	Gross Amo...	Creation Date	Net Amount	
1	Pixel Tech	info@Pixel.lu	523.29	Jan 6, 2022	432.47	>
2	Pixel Tech	info@Pixel.lu	1,940.88	Jan 12, 2022	1,630.81	>
3	Techlanch	info@techlanch.be	5.2	Feb 2, 2022	5.2	>
4	Monotech	po.dep@monotech.nl	196.2	Feb 22, 2022	180	>
5	Visions	mail@visions.lu	3,294.31	Mar 14, 2022	2,749.35	>
6	Techaholic	post@techaholic.nl	600	Mar 26, 2022	495.87	>
7	Techlanch	info@techlanch.be	2,054.58	Apr 3, 2022	1,736.41	>

Task 3: Add a custom Action

- Start the *Guided Development* and select **Add a custom action to a page using extensions**

Guided Development - extend-object ×

Project extend-obje... 🔄 🔍 Search guides

Group by Page Type 🌐 View Project Guides

List Report Page

Add a custom action to a page using extension points

Add a custom action to a page using extensions ⓘ

Add a progress indicator column to a table

- *Start Guide*
- Select **List Report Page** in *Page*, enter **onCalculate** as *Function Name* and Press *Insert Snippet* followed by *Next*

Add a custom action to a page using extensions

About
Guide information

Step 1
Add a function in controller for the action

Step 2
Update the manifest

Add a function in controller for the action

In this step, you will create a controller extension to define a handler function for the custom action button.

If a controller extension is already available for a page, you can copy the code and use it.

- Page Parameters**
Select the **Page** to which you want to attach new custom action.

Page *
List Report Page
- New Function Parameters**
Enter a **Function Name** that will be the name of your new custom function.

Function Name *
onCalculate

Insert Snippet Copy Reset

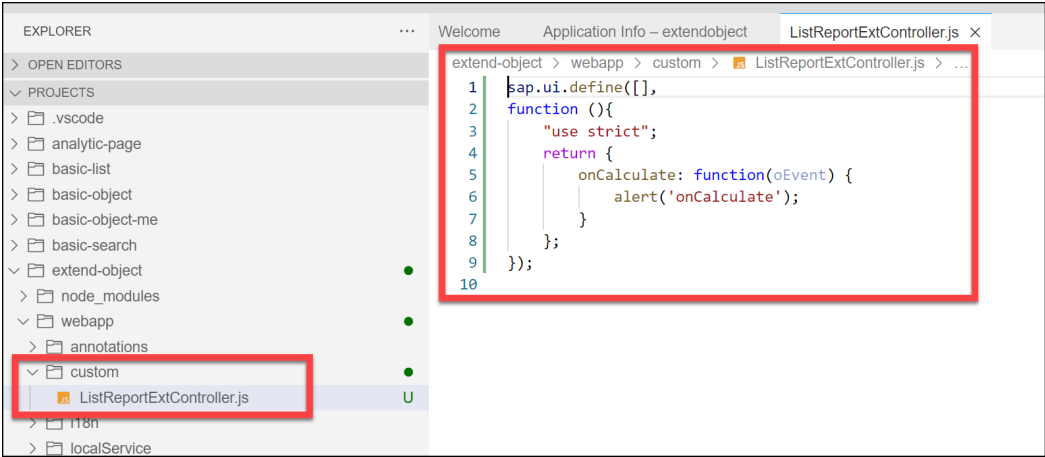
```
1  sap.ui.define([],
2  function () {
3      "use strict";
4      return {
5          onCalculate: function(oEvent) {
6              alert('onCalculate');
7          }
8      };
9  });
10
```

< Back

Next >

Exit Guide

- This will add a new *folder* **custom** and new *file* **ListReportExtController.js** with a template snippet for the javascript code



- At the next step set the following parameters, *Insert Snippet* and *Exit Guide*

Name	Value
Entity Set	ListObject
Action Position	Table Toolbar
Action ID	Calculate
Button Text	Calculate Difference
Row Selection	yes

Add a custom action to a page using extensions

About

Guide information

Step 1

Add a function in controller for the action

Step 2

Update the manifest

Update the manifest

In this step, you will add the extension settings of the custom action to the manifest.

Entity Set Parameters

Select the **Entity Set** in which you would like to add your new custom action.

Entity Set *

ListObject

New Actions Parameters

New Actions Parameters

Action Position *

Table Toolbar

Action ID *

Calculate

Button Text *

Calculate Difference

Row Selection

yes

Insert Snippet

Copy

Reset

1

{

2

"sap.ui5": {

3

"routing": {

4

"targets": {

5

"ListObjectList": {

6

"options": {

7

"settings": {

8

"controlConfiguration": {

9

"@com.sap.vocabularies.UI.v1.LineItem": {

10

"actions": {

11

"Calculate": {

12

"id" : "CalculateButton",

13

"text" : "Calculate Difference",

14

"press" : "nato.workshop.extendobject.custom.L

15

}

}

}

}

}

}

}

}

}

< Back

Next >

Exit Guide

- Manifest.json file is updated

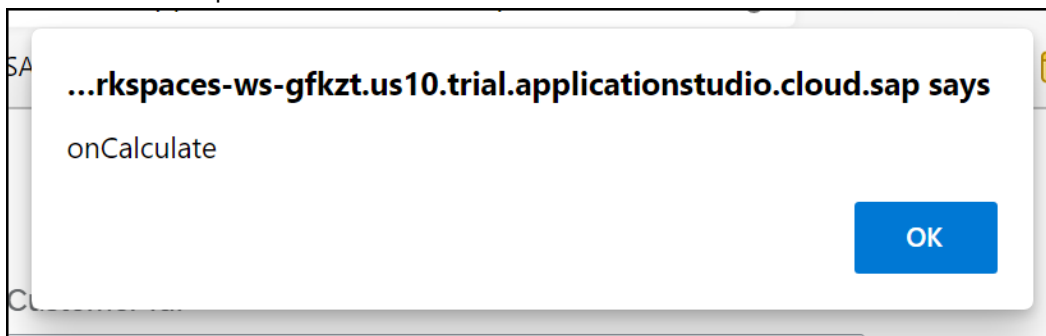
```

128      "name": "sap.fe.templates.ListReport",
129      "options": {
130        "settings": {
131          "entitySet": "ListObject",
132          "variantManagement": "Page",
133          "navigation": {
134            "ListObject": {
135              "detail": {
136                "route": "ListObjectObjectPage"
137              }
138            }
139          },
140          "controlConfiguration": {
141            "@com.sap.vocabularies.UI.v1.LineItem": {
142              "actions": {
143                "Calculate": {
144                  "id": "CalculateButton",
145                  "text": "Calculate Difference",
146                  "press": "nato.workshop.extendobject.custom.ListRe
147                  "requiresSelection": true
148                }
149              }
150            }
151          }
152        }
153      }
  
```

- Preview Application

Sales Order Id	Customer Name	E-mail	Gross Amo...	Creation Date	Net Amount
1	Pixel Tech	info@PixelLlu	523.29	Jan 6, 2022	432.47
2	Pixel Tech	info@PixelLlu	1,940.88	Jan 12, 2022	1,630.81
3	Techlanch	info@techlanch.be	5.2	Feb 2, 2022	5.2
4	Monotech	po.dep@monotech.nl	196.2	Feb 22, 2022	180
5	Visions	mail@visions.lu	3,294.31	Mar 14, 2022	2,749.35
6	Techaholic	post@techaholic.nl	600	Mar 26, 2022	495.87
7	Techlanch	info@techlanch.be	2,054.58	Apr 3, 2022	1,736.41

- Select a line and press the **Calculate Difference** button



- Now implement the javascript template in the new **ListReportExtController.js**, Calculate the difference between de *GrossAmount* and *NetAmount* and show it using a **MessageBox**

```
sap.ui.define([
    "sap/m/MessageBox"
],
function (MessageBox){
    "use strict";
    return {
        onCalculate: function(oEvent) {
            let nGrossAmount =
parseFloat(this.getSelectedContexts()[0].getObject().GrossAmount);
            let nNetAmount = parseFloat(this.getSelectedContexts()
[0].getObject().NetAmount);
            let nDiff = nGrossAmount - nNetAmount;
            MessageBox.success("Difference = " + nDiff);
        }
    };
});
```

