

# EXERCISE 01B - CREATE UI FOR A CUSTOM BUSINESS OBJECT

SAP Partner Workshop

15 min

## Description

In this exercise, you'll learn how

- to create an own application based on a Custom Business Object and a Custom Catalog Extension

## Target group

- Developers
- People interested in learning about S/4HANA In-App extensions.

## Goal

The goal of this exercise is to create UI for a custom business object.

## Prerequisites

Below are the prerequisites for this exercise.

- Google Chrome: Please complete this exercise using the Google Chrome browser
- **Authorizations:** Your user needs a business role with business catalog **Extensibility** (ID:








SAP\_CORE\_BC\_EXT )

## Steps

- ## Start Editing Custom Business Object Bonus Plan

In the first parts a Manager wants to define business objects "Bonus Plan" for employees. A Bonus Plan is there to save employee specific rules for bonus entitlement.

- # Custom Business Objects
- 
- All




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Custom Business Objects












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Custom Business Objects
Custom Code Lists

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**Custom Business Objects (4)**



New
Edit Draft
Republish
Delete


Business Object ID	Name	Last Changed On	Last Changed By	Status	Draft Available
 YY1_BONUSPLAN02	Bonus Plan 02	10/24/2017, 13:44:53	demo02	Published	No 
 YY1_BONUSPLAN03	Bonus Plan03	10/31/2017, 13:55:05	demo03	Published	No 
 YY1_BONUSPLANGEBO	Bonus Plan Gebo	10/24/2017, 14:24:39	demo11	Published	No 
 YY1_ZBONUSPLANAW	Bonus Plan AW	10/23/2017, 11:09:51	demo15	Published	No 

- To be able to do changes to the lastly published version of the business object you need to start edit mode by executing the **Edit Draft** action.

Structure			New	Delete	⚙
Name	Identifier	Name in Plural	Details		
Bonus Plan03	BONUSPLAN03	Bonus Plan03s	Go to Fields and Logic		

Edit Draft
Delete

## Generate UI

1. **Check** the two boxes for UI Generation and Service Generation.

Structure 10 Log

\*Name:

\*Name in Plural:

Determination and Validation: ☐

UI Generation: ☒

Service Generation: ☒

Created: 10/31/2017, 13:01:26, demo03

Changed: 10/31/2017, 15:06:19, demo03

Original Language: English

Can Be Associated: ☐

System Administrative Data: ☒

2. **Publish** the business object to trigger the generation of UI (Master and Detail) and OData Service.

## Expose UI as Application

1. Now you make the UI available as SAP Fiori Launchpad application by assigning it to a Business Catalog which corresponds to a group in Launchpad.
2. From the Business Object's overview go to Custom Catalog Extension application by clicking the **Maintain Catalogs** action.

Bonus Plan03

YY1\_BONUSPLAN03

Published

12

Structure Log

Name: Bonus Plan03

Created: 10/31/2017, 13:01:26, demo03

Name in Plural: Bonus Plan03s

Changed: 10/31/2017, 15:11:23, demo03

Determination and Validation: ☐

Original Language: English

UI Generation: ☒ Go To Generated UI **Maintain C...**

Can Be Associated: ☐

Service Generation: ☒

System Administrative Data: ☒

Structure

New Delete

Name	Identifier	Name in Plural	Details
Bonus Plan03	BONUSPLAN03	Bonus Plan03s	Go to Fields and Logic

- A new window will open.
- Start adding a catalog with the **Add** action.

Bonus Plan03

YY1\_BONUSPLAN03\_SCBO

Type: Custom Business Object

Last Changed On: 10/31/2017, 15:11:22

Last Changed By: demo03

Used in Business Catalog (0)

Search

Add Remove Publish Revoke Republish

<input type="checkbox"/> Business Catalog	Business Catalog ID	Status
No data		

- In the opening value help narrow down the result list by searching for Extensibility , select the Catalog with role ID SAP\_CORE\_BC\_EXT and press **OK**.

## Add Business Catalog

Extensibility

**Items selected: 1**

<input type="checkbox"/>	Catalog Roles	Catalog Role ID
<input checked="" type="checkbox"/>	<b>Extensibility</b>	<b>SAP_CORE_BC_EXT</b>
<input type="checkbox"/>	Extensibility - Transport Management - Export	SAP_CORE_BC_SL_EXP
<input type="checkbox"/>	Extensibility - Transport Management - Import	SAP_CORE_BC_SL_IMP
<input type="checkbox"/>	Extensibility and Adaptability - Marketing	SAP_CEC_BC_MKT_EXT_PC
<input type="checkbox"/>	Extensibility Explorer Apps	SAP_CA_BC_EXT_COCKPIT_PC

**OK** Cancel

6. Select the just added Catalog and **Publish** it.

Used in Business Catalog (1) Search Add Remove **Publish** Revoke Republish

<input checked="" type="checkbox"/>	Business Catalog	Business Catalog ID	Status
<input checked="" type="checkbox"/>	<b>Extensibility</b>	SAP_CORE_BC_EXT	Unpublished

7. Click OK for the Confirmation.

**Confirmation**

Do you want to publish the selected business catalog?

**OK** Cancel

8. This step takes some minutes (5 to 11 minutes), the screen refreshes automatically and once the status switches from unpublished to published, you can close this application's window and proceed.

## Bonus Plan03

YY1\_BONUSPLAN03\_SCBO  
Type: Custom Business Object

Last Changed On: 10/31/2017, 15:11:22  
Last Changed By: demo03

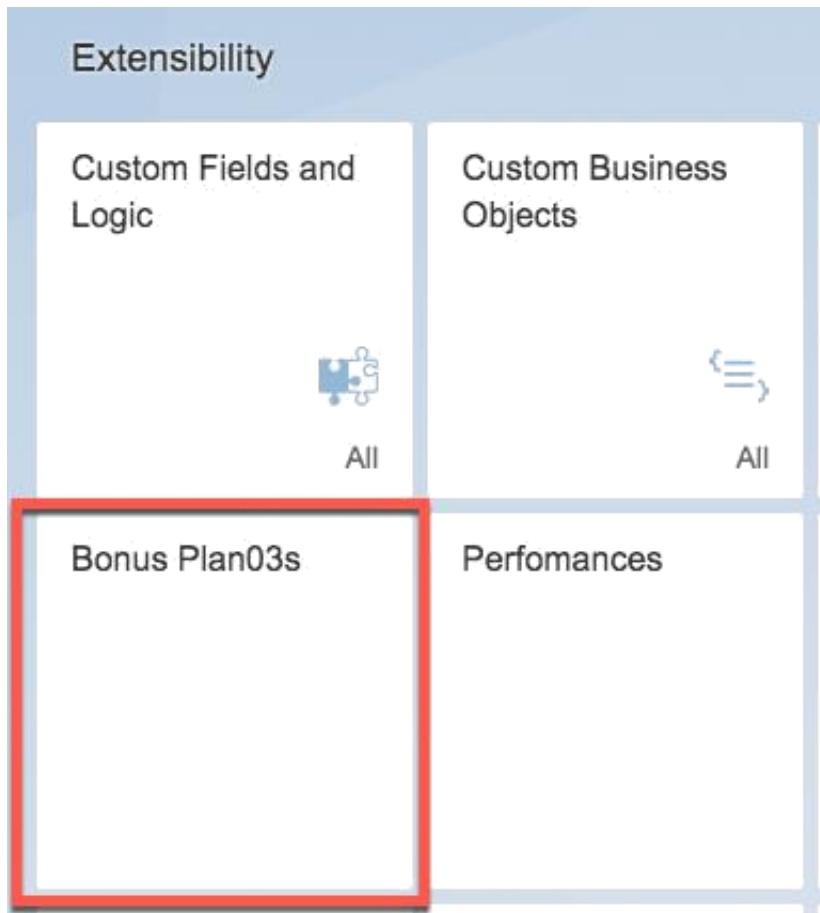
Used in Business Catalog (1)			Search	Q	Add	Remove	Publish	Revoke	Republish	↺	↻	⚙
<input type="checkbox"/> Business Catalog	Business Catalog ID		Status									
<input type="checkbox"/> Extensibility	SAP_CORE_BC_EXT		Published									

## Open Bonus Plan application

1. Back in the Custom Business Object application's window, go to the SAP Fiori Launchpad via **Home** action.

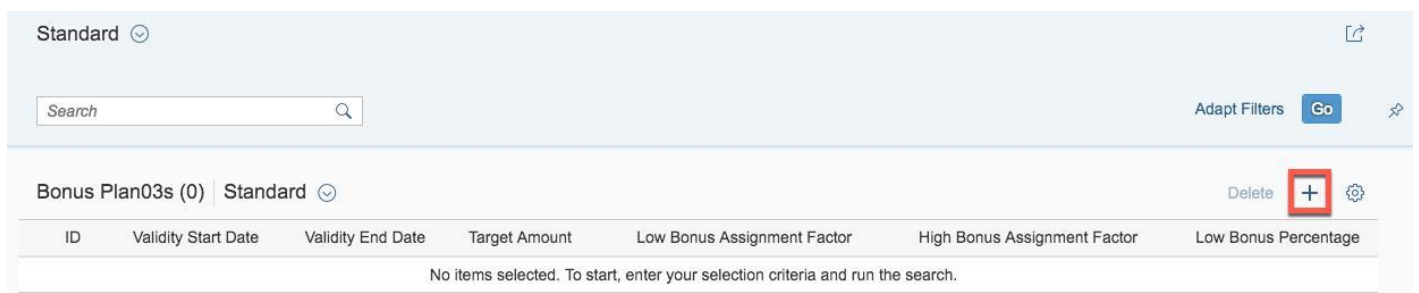


2. **Refresh** the Browser window with key **F5** for that the catalog extension becomes visible. Now there is the Bonus PlanXX application's tile in the **Extensibility** group.
3. **Start** the application by clicking its tile.



## Test Bonus Plan application







1. **Open** the Bonus PlanXX application.
2. **Create** an object by clicking the "+".




3. **Enter** following data

Field	Value
ID	1
Validity Start Date	01/01/2017
Validity End Date	12/31/2017
Target Amount	1000.00 EUR
Low Bonus Assignment Factor	1
High Bonus Assignment Factor	3
Employee ID	<any>

4. Employee ID shall be the one of a sales person that created sales orders with a Net Amount of more than 3000.00 EUR in 2017 and that are completed. In this exercise, you can use CB9980000620.





Bonus Plan03




1 


### Bonus Plan03

#### General Information


Target Amount:

EUR 

High Bonus Percentage:




Low Bonus Percentage:




\*ID:

1

Validity Start Date:


01/01/2017 

Validity End Date:

12/31/2017 

Target Amount:

1,000.00

EUR 

#### System Administrative Data

Created On:

Created By:

Last Changed On:

Last Changed By:



1.00

High Bonus Assignment Factor:

3.00

**Low Bonus Percentage:**



**High Bonus Percentage:**



Is Consistent:

No

Employee ID:

CB9980000620

Employee Name:

Save

Cancel

5. **Save** the Bonus Plan. The UI will automatically return from Bonus Plan Detail to Master.
6. Click on **Go**. You can see one entry in the list of bonus plans now.

Bonus Plan03

Standard

Adapt Filters

Go

Bonus Plan03s (1) | Standard

Delete
+

ID	Validity Start Date	Validity End Date	Target Amount	Low Bonus Assignment Factor	High Bonus Assignment Factor
<input type="radio"/> <b>0000000001</b>	01/01/2017	12/31/2017	1,000.00 EUR	1.00	3.00 0.000

High Bonus Percentage: 0.000

Is Consistent: No

Employee ID: CB9980000620

Employee Name:

1

Edit

Delete



## Bonus Plan03

### General Information

Target Amount:  
European Euro (EUR)

High Bonus Percentage:

Low Bonus Percentage:

ID:  
1

Validity Start Date:  
01/01/2017

Validity End Date:  
12/31/2017

Target Amount:  
1,000.00 EUR

Low Bonus Assignment Factor:  
1.00

High Bonus Assignment Factor:  
3.00

Low Bonus Percentage:

High Bonus Percentage:

Is Consistent:  
No

Employee ID:  
CB9980000620

Employee Name:

### System Administrative Data

Created On:  
10/31/2017, 16:04:43

Created By:  
demo03

Last Changed On:  
10/31/2017, 16:04:43

Last Changed By:  
demo03

## Summary

This concludes the exercise. In the preceding tutorials you created a custom business object with a simple data structure and its persistence. Afterwards you generated an UI for this business object and exposed it as an Fiori Launchpad application. As the generated User Interfaces only list all fields of a business object node, adapting the UI might be necessary to improve usability of it.

Please proceed with exercise 01C.