

Exercise: Working with Entities

Service Layer

PUBLIC



INTRODUCTION

You want to use the SAP Business One User Interface and Service Layer in your Add-On solution. In order to retrieve the data, you would like to use a simple http calls and to retrieve the data the WCF based approach.

In this exercise, you will perform the following tasks:

- 1. Customize the Menu items
- 2. Create items on the default form
- 3. Add a Business Partner Master Data entry
- 4. Retrieve the list of the existing Business Partners

PREREQUISITE:

- Use the C Sharp (C#) language during this exercise
- Use Microsoft Visual Studio 2005 or higher version
- Continue to work with the project finalized in previous exercise.
- This document is using the SAP Business One Studio for Microsoft Visual Studio 2015
- Use the demo database for SAP Business One, version for SAP HANA
- Credentials: User code: manager

GUIDELINES:

The screenshots provided here are for your reference only and may differ from the actual screenshots in your system.

1. TASK - CUSTOMIZE THE MENU ITEMS

- 1.1. Uncomment the instantiation of the Menu class, Menu item creation function call and the Menu event subscriber.
- 1.2. Change the menu collection to TB1_ServiceLayer. Refer to the function **AddMenuItems** in class *Menu*
- 1.3. Change the menu item to TB1_BPList. Refer to the function **AddMenuItems** in class *Menu*.
- 1.4. Reflect the menu related changes in the Menu item event handled function as well

2. TASK - CREATE ITEMS ON THE DEFAULT FORM

- **2.1.** Create 2 *EditText* items and 2 *StaticText* items with captions **CardCode** (*UniqueID* = *txCardCode*) and **CardName** (*UniqueID* = *txCardName*).
- 2.2. Create ComboBox and StaticText item and set the UniqueID to value cbCardType for ComboBox.
- **2.3.** Assign default values for *ComboBox* item.
 - Value = C; Description = Customer
 - Value = S; Description = Supplier
 - Value = L; Description = Lead
- **2.4.** Create *Button* and set the *UniqueID* to value **btnAddBP** and the Caption to **Add Business Partner**.
- **2.5.** Create *Button* and set the *UniqueID* to value **btnGetBP** and the Caption to **Get Business Partners**.
- **2.6.** Create *Grid* and set the *UniqueID* to value **grResult**.

3. TASK - ADD A BUSINESS PARTNER MASTER DATA ENTRY

- 3.1. Make the string **serviceLayerAddress** global and public in the **Program** class.
- 3.2. Create the function RemoteSSLTLSCertificateValidate for certificate validation.
- 3.3. Create the button click event for btnAddBP.

- 3.4. Define the web request details in the function **btnAddBP_ClickBefore**.
- 3.5. Include to the function **btnAddBP_ClickBefore** the session cookie to the web request, which is stored in the string sConnectionContext.
- 3.6. Add the web request body (function btnAddBP ClickBefore).
- 3.7. Handle in function btnAddBP_ClickBefore the web response.
- 3.8. Hand the Business Partner Master Data by filling the CardCode, CardName and CardType. The response should be displayed in the MessageBox object.

4. TASK – RETRIEVE THE LIST OF THE EXISTING BUSINESS PARTNERS

4.1. Add the metadata as service or file directly by selecting "Add Service Reference" into your Microsoft Visual Studio project, the metadata will be validated automatically.

Project → Add Service Reference

4.2. Install NuGet package – Newtonsoft. Json

Project → Manage NuGet Packages

- 4.3. Create the button click event for btnGetBP.
- 4.4. Define the web request details in the function btnGetBP_ClickBefore.
- 4.5. Include to the function **btnGetBP_ClickBefore** the session cookie to the web request, which is stored in the string sConnectionContext.
- 4.6. Handle in function **btnGetBP_ClickBefore** the web response.
- 4.7. Display the results in the *Grid* object, the code can be handled in function **btnGetBP_ClickBefore**.
- 4.8. Extend the CardCode column in the *Grid* item with the *LinkedButton* object.
- 4.9. Try to get the Business Partner Records into the grid object.

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