

Exercise Solution: Create Menu Entries

User Interface API

PUBLIC



INTRODUCTION

In this exercise, you will perform the following tasks:

- 1. Add entry into the main menu (Modules)
- 2. Handle menu event
- 3. Add Context menu entry
- 4. Remove the menu entries

PREREQUISITE:

- This document is using the C Sharp (C#) language
- This document is using the Microsoft Visual Studio 2015
- Use the demo database for SAP Business One, version for SAP HANA or SAP Business One
- 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 - ADD ENTRY INTO THE MAIN MENU (MODULES)

1.1. Add a menu entry to the "Modules" menu called **DVD Store**. Those are the menu entries which are also displayed in the Main Menu. Add a new sub-menu to that menu entry called **DVD Availability**.

```
public static void CreateMenu()
            SAPboui COM. Menus modul eMenus;
            SAPboui COM. Menul tem menul tem;
            SAPboui COM. Menul tem fatherMenul tem;
            SAPboui COM. MenuCreati onParams oCreati onPackage;
            try
            {
                 // Find the id of the menu into which you want to add your menu item
                 // Modul eMenul d = "43520"
                menul tem = SBO_Application. Menus. Item("43520");
                 // Get the menu collection of SAP Business One
                 modul eMenus = menul tem. SubMenus;
                 // Add a pop-up menu item
                 oCreationPackage =
(SAPboui COM. MenuCreati onParams)SBO_Application. CreateObject (SAPboui COM. BoCreatableObjectType
.cot_MenuCreationParams);
                 oCreationPackage. Checked = false;
                 oCreationPackage. Enabled = true;
                 oCreati onPackage. Type = SAPboui COM. BoMenuType. mt_POPUP;
                 oCreati onPackage. Uni quel D = "TB1_DVDStore";
                 oCreationPackage. String = "DVD Store";
                 oCreationPackage. Position = -1;
                 fatherMenul tem = modul eMenus. AddEx(oCreati onPackage);
                 // add a submenu item to the new pop-up item
                 oCreationPackage =
(SAPboui COM. MenuCreati onParams) SBO_Application. CreateObject (SAPboui COM. BoCreatableObjectType
. cot_MenuCreati onParams);
                 oCreationPackage. Checked = false;
                 oCreationPackage. Enabled = true;
                 oCreationPackage. Type = SAPboui COM. BoMenuType. mt_STRING;
                 oCreationPackage. Uni quel D = "TB1_Avail";
                 oCreationPackage. String = "DVD Availability";
                 oCreationPackage. Position = -1;
                 menul tem = fatherMenul tem. SubMenus. AddEx(oCreationPackage);
            catch (Exception)
                 SBO_Application. StatusBar. SetText("Menu already exists",
SAPboui COM. BoMessageTime. bmt_Short, SAPboui COM. BoStatusBarMessageType. smt_Error);
                }
```

2. TASK - HANDLE MENU EVENT

When you choose the menu entry, your form should be displayed.

2.1. Create a function which will handle the mandatory MenuEvent.

```
public static void SBO_Application_MenuEvent(ref SAPbouiCOM. MenuEvent pVal, out bool
BubbleEvent)
{
    BubbleEvent = true;
    if (pVal. BeforeAction && pVal. MenuUID == "TB1_Avail")
    {
        LoadFormFromXML();
    }
}
```

2.2. Create event subscriber for the previously create function before the application run will be called in the **Main** function.

```
SBO_Application. MenuEvent += new
SAPboui COM. _I ApplicationEvents_MenuEventEventHandler(SBO_Application_MenuEvent);
```

2.3. Comment the functions call **LoadFormFromXML** and **ExtendCancelButtonWithEvent** in the Main function.

```
//LoadFormFromXML();
//ExtendCancelButtonWithEvent();
```

2.4. Extend the **SetEventFilters** function with the *Menu Click* event type.

```
oFilter = oFilters. Add(SAPboui COM. BoEventTypes. et_MENU_CLICK);
```

3. TASK - ADD CONTEXT MENU ENTRY

3.1. Add another menu only visible when your form is open. This menu should appear under the GoTo menu.

3.2. Call the CreateContextMenu function in the LoadFormFromXML function.

```
CreateContextMenu(oForm);
```

4. TASK - REMOVE THE MENU ENTRIES

4.1. Create an event handler for the Context menu entry "Remove Menu" to remove all menu entries. The **SBO_Application_MenuEvent** function needs to be extended.

```
if(pVal.BeforeAction && pVal.MenuUID == "TB1_Remove")
{
         SB0_Application.Menus.RemoveEx("TB1_Avail");
         SB0_Application.Menus.RemoveEx("TB1_DVDStore");
         SB0_Application.Menus.RemoveEx("TB1_Remove");
}
```

A similar solution can be found in the SDK UI samples (in the SDK Folder – see Appendix "SDK Installations" for more information), COM UI/05.AddingMenuItems

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