

Exercise Solution: Additional Event Handling

User Interface API

PUBLIC



INTRODUCTION

In this exercise, you will perform the following tasks:

- 1. Catch FormLoad event for Sales Order form
- 2. Catch the click event on the "Rent DVD" button
- 3. Create an event filter
- 4. Create object level event

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 - CATCH FORMLOAD EVENT FOR SALES ORDER FORM

1.1. Create a function which will handle the mandatory *ItemEvent*.

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

```
SBO_Application.ltemEvent += new
SAPboui COM._lApplicationEvents_ltemEventEventHandler(SBO_Application_ltemEvent);
```

1.3. Display the message "Caught Order FormLoad Event" when the FormLoad event for the Order form arrives (use the Application.Message method).

SBO_Application. MessageBox("Caught Order FormLoad Event");



2. TASK - CATCH THE CLICK EVENT ON THE "RENT DVD" BUTTON

2.1. Catch the click event on the "Rent DVD" button you've added in the previous exercise. Again, display a message once the event is caught.



3. TASK - CREATE AN EVENT FILTER

3.1. Create a filter to only receive the events we are interested in.

```
public static void SetEventFilters()
{
    SAPboui COM. EventFilters oFilters;
    SAPboui COM. EventFilter oFilter;

    oFilters = new SAPboui COM. EventFilters();
    oFilter = oFilters. Add(SAPboui COM. BoEventTypes. et_ITEM_PRESSED);
    oFilter = oFilters. Add(SAPboui COM. BoEventTypes. et_FORM_LOAD);

    oFilter. AddEx("139");    //Orders Form
    oFilter. AddEx("TB1_DVDAvailability");    //DVD Availability Form
    SBO_Application. SetFilter(oFilters);
}
```

4. TASK - CREATE OBJECT LEVEL EVENT

4.1. Create a new function, which will extend the Cancel button with an ItemEvent. First the Form and the Item objects needs to be instantiated to the existing form.

```
SAPboui COM. Form oForm;
SAPboui COM. Button oButton;
oForm = SBO_Application. Forms. GetForm("TB1_DVDAvailability", 0);
SAPboui COM. Item oltem;
oltem = oForm. Items. Item("2");
oButton = (SAPboui COM. Button)oltem. Specific;
```

4.2. Assign to the oButton object the *ClickBefore* method. After typing the "oButton.ClickBefore +=" text you can press the TAB key to generate the event subscriber function automatically.

```
oButton.ClickBefore +=

OButton_ClickBefore; (Press TAB to insert)

oButton.ClickBefore += OButton_ClickBefore;
```

4.3. Display a message once the Cancel button is clicked in the event subscriber.

```
private static void OButton_ClickBefore(object sboObject, SAPbouiCOM.SBOItemEventArg
pVal, out bool BubbleEvent)
{
         BubbleEvent = true;
         SBO_Application.MessageBox("Cancel button pressed.");
}
```

4.4. Extend the **SetEventFilters** function with the *Click* event type.

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

A solution implementing events catching can be found in the SDK UI samples (in the SDK Folder – see Appendix "SDK Installations" for more information), COM UI/02.CatchingEvents.

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