



## Exercise: Data Binding

### User Interface API

PUBLIC

## INTRODUCTION

You have created a new form that is displayed within SAP Business One. Now you want the system to display data on that form.

In this exercise, you will perform the following tasks:

1. Use DB Data Source
2. Use User Data Source
3. Use Choose from List
4. Create Item Event for Choose from List
5. Use Data Tables
6. Insert values into the User Defined Table

## PREREQUISITE:

- Use the **C Sharp** (C#) language during this exercise
- Use Microsoft Visual Studio 2005 or higher version
- 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 – USE DB DATA SOURCE

Declare a `DBDataSource` object. Link the data source to the form you created in the Creating Forms exercise by using a separated function called **DataBinding**.

## 2. TASK - USE USER DATA SOURCE

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

- 2.1. Extend the **DataBinding** function with `UserDataSource` object for . For the *U\_Rented* field the `UserData` source is needed to convert the boolean field. For the *U\_CardCode* field we will define a *Choose from List* object later.

```
oForm.DataSources.UserDataSources.Add("ds_Rented", SAPboui.COM.BoDataType.dt_SHORT_TEXT);  
oForm.DataSources.UserDataSources.Add("ds_RentTo", SAPboui.COM.BoDataType.dt_SHORT_TEXT);
```

- 2.2. Bind the remaining form's items with the corresponding data from the User Defined table created in the DI exercises (**TB1\_VIDS**). For each Edit Text field bind the field to its corresponding column in the User defined table. You can please this code to the **DataBinding** function as well.

- 2.3. Call the **DataBinding** function in **LoadFormFromXML** function by passing the *Form* object.

## 3. TASK - USE CHOOSE FROM LIST

Create a choose from list object for Business Partner Master data, which will be assigned to the **tx\_Rented** Edit Text object.

- 3.1. Create new function **CreateChooseFromList**, where the *ChooseFromList* object needs to be defined.

- 3.2. Assign the choose from list *CardCodeCFL* to the *tx\_Rented*. You can please this feature to the same **CreateChooseFromList** function.

- 3.3. Call the **CreateChooseFromList** function in the **DataBinding** function.

#### 4. TASK - CREATE ITEM EVENT FOR CHOOSE FROM LIST

- 4.1. Extend the **SetEventFilters** function with Choose from List event type.
- 4.2. Extend the **SBO\_Application\_ItemEvent** function to handle the Choose from List event type.

#### 5. TASK – USE DATA TABLES

We would like to return to our form the selected value from the *choose from list* object. For this purpose, we will use the *DataTable* object.

- 5.1. Define the DataTable object in the function **SBO\_Application\_ItemEvent**.
- 5.2. Comment the MessageBox related line in **SBO\_Application\_ItemEvent**.

#### 6. TASK – INSERT VALUES TO USER DEFINED TABLE

The form needs to be switched to the adding mode and the newly inserted records needs to be inserted in the User Defined Table.

- 6.1. Capture the form switch to the inserting mode and clean all values from the form. This might be achieved by adding some code to the **SBO\_Application\_MenuEvent** function.
- 6.2. Insert your code into the **SBO\_Application\_ItemEven**, which will insert the newly entered values from the form to the User Defined Table.



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