

Exercise Solution: Transaction

Data Interface API

PUBLIC

INTRODUCTION

In this exercise, you will perform the following tasks:

1. Create new buttons in your project called "Transaction"
2. Open a transaction (StartTransaction of the Company Object)
3. Update two Item Master data records in the transaction
4. Close the transaction (EndTransaction of the Company Object)
5. Check the Company object transaction Status

PREREQUISITE:

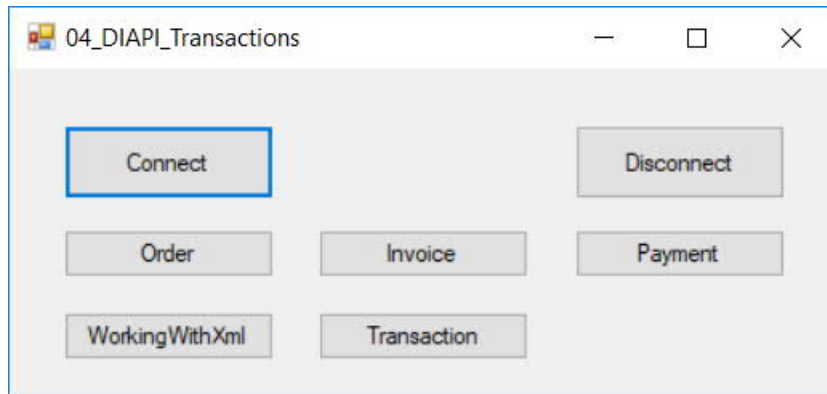
- This document is using the **C Sharp** (C#) language
- This document is using the Microsoft Visual Studio 2015
- Continue to work with the project finalized in previous exercise.
- Use the demo database for SAP Business One, version for SAP HANA or SAP Business One
- Credentials: User code: **manager**

GUIDELINES:

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

1. TASK - CREATE NEW BUTTONS IN YOUR PROJECT CALLED "TRANSACTION"

1.1. On your Visual Studio project create a new button called "Transaction"



2. TASK - OPEN A TRANSACTION (STARTTRANSACTION OF THE COMPANY OBJECT)

2.1. Verify if the *Company* object is currently not in transaction, then start the transaction.

```
if (!oCompany.InTransaction)
    oCompany.StartTransaction();
```

3. TASK – UPDATE TWO ITEM MASTER DATA RECORDS IN THE TRANSACTION

3.1. Create the *Item* object instance. Retrieves and sets the values of the Item "A00001", change some properties and execute the *Update* method. Repeat the same action for Item Code "A00002" as well. Collect the results code and message from each method execution.

```
SAPbobsCOM.Items oItem =
(SAPbobsCOM.Items)oCompany.GetBusinessObject(SAPbobsCOM.BoObjectTypes.Items);
oItem.GetByKey("A00001");
oItem.ValidRemarks = "DI test - " + DateTime.Now.ToString("h:mm:ss tt");
int ret1 = oItem.Update();
string res1 = oItem.ItemCode + " : " + oCompany.GetLastErrorDescription();

oItem.GetByKey("A00002");
oItem.ValidRemarks = "DI test - " + DateTime.Now.ToString("h:mm:ss tt");
int ret2 = oItem.Update();
string res2 = oItem.ItemCode + " : " + oCompany.GetLastErrorDescription();
```

4. TASK - CLOSE THE TRANSACTION (ENDTRANSACTION OF THE COMPANY OBJECT)

- 4.1. Verify, where both object had been updates successfully, if yes, then the transaction can be committed. Otherwise perform the rollback action.

```
if (ret1 == 0 & ret2 == 0)
{
    MessageBox.Show("item update successful");
    if (oCompany.InTransaction)
        oCompany.EndTransaction(SAPbobsCOM.BoWfTransOpt.wf_Commit);
    else
        throw new Exception("ERROR: Transaction closed before
        EndTransaction!!!");
}
else
{
    if (oCompany.InTransaction)
        oCompany.EndTransaction(SAPbobsCOM.BoWfTransOpt.wf_RollBack);
    if (res1.Length > 1)
        MessageBox.Show("item update failed: " + res1);
    if (res2.Length > 1)
        MessageBox.Show("item update failed: " + res2);
}
```

- 4.2. Finally check the transaction status of the *Company* object

```
MessageBox.Show("Intransaction state = " + oCompany.InTransaction.ToString());
```



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