

Exercise Solution: Establish a Connection to SAP Business One

Data Interface API

PUBLIC

INTRODUCTION

In this exercise, you will perform the following tasks:

1. Create a new Visual Studio project
2. Code the connection to the SAP Business One database
3. Implement error handling and success handling
4. Code the disconnection from the SAP Business One database

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:

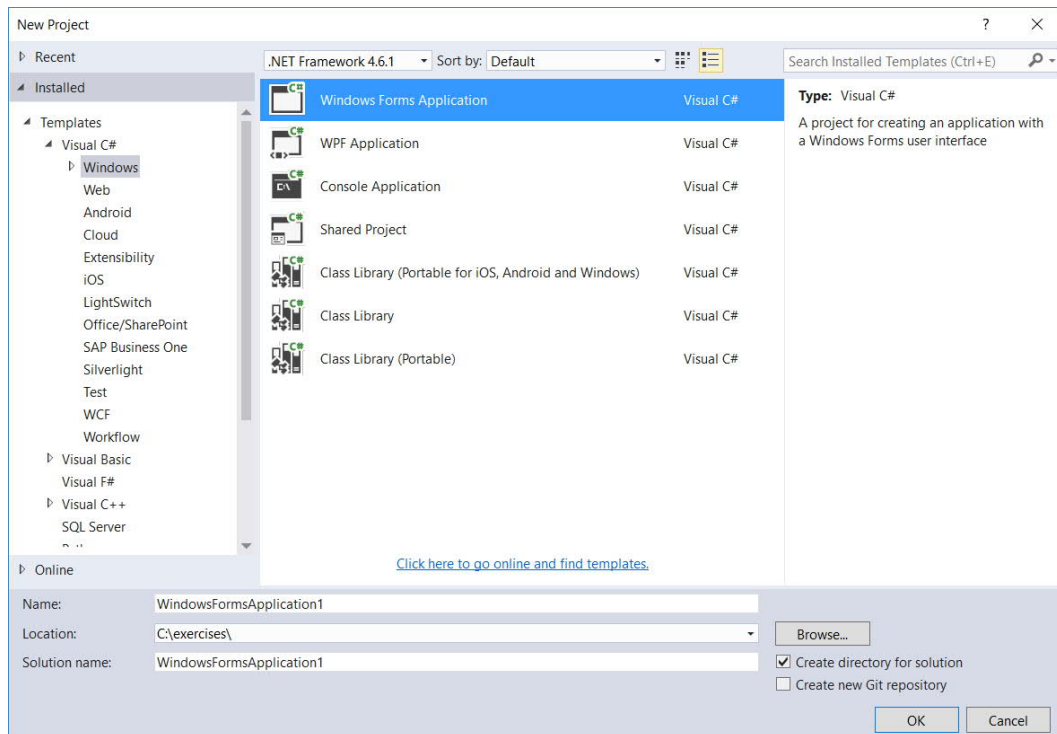
The screenshots provided here are for your reference only and may differ from the actual screenshots in your system.

1. TASK - CREATE A NEW VISUAL STUDIO PROJECT

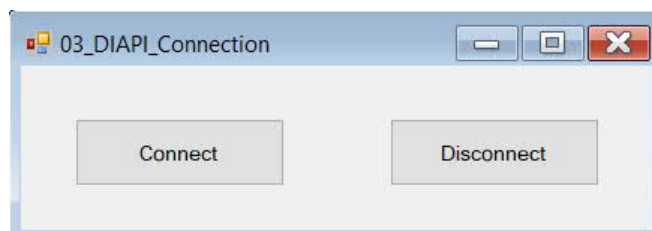
1.1. Within this project, create a form with two buttons on it. One of the buttons should be used to connect to the SAP Business One database, the other to disconnect from it.

1.1.1. Open Visual Studio and choose *File* → *New* → *Project*

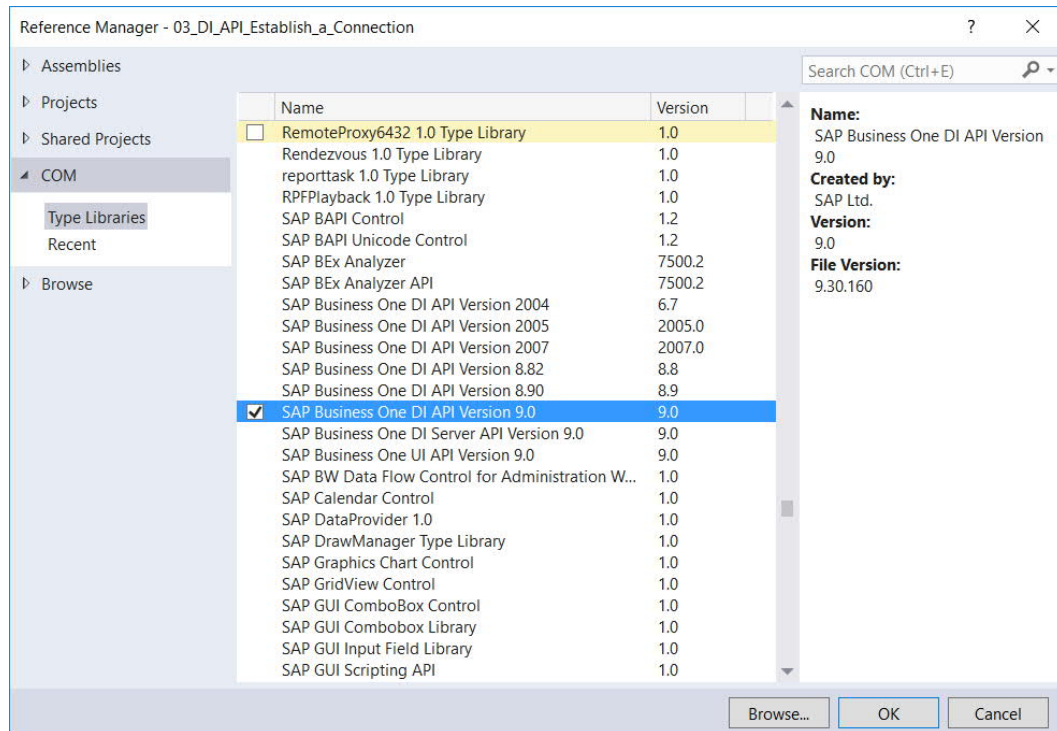
1.1.2. Select the **Windows Forms Application** template from *Installed* → *Templates* → *Windows* section.



1.1.3. Create two buttons on the default form the first one should be used for handling the Connect and the second one should handle the Disconnect event.



1.2. Add a reference to the SAP Business One DI API COM library...

1.2.1. Select the main menu *Project* → *Add Reference*1.2.2. Click to the *COM* → *Type Libraries* section and select the **SAP Business One DI API Version 9.0**

2. TASK - CODE THE CONNECTION TO THE SAP BUSINESS ONE DATABASE

2.1. Define a variable for the Company object – ensure it is defined as a member of the add-on application class or globally.

Ensure it is defined as a member of the add-on application class or globally.

Suggestion: Create a new module and put the Company variable there. Since this is a separate module you need to either specify the module in each call or add a declaration, so the other form/modules can see this.

```
public static SAPbobsCOM.Company oCompany;
```

2.2. Create a new Company object.

```
oCompany = new SAPbobsCOM.Company();
```

2.3. Set the properties needed to connect to the SAP Business One database.

```
oCompany.Server = "ServerName";  
oCompany.SLDServer = "ServerName: 40000";  
oCompany.DbServerType = SAPbobsCOM.BoDataServerTypes.dst_MSSQL2017  
oCompany.CompanyDB = "SB0DemoSK";  
oCompany.UserName = "manager";  
oCompany.Password = "manager";  
oCompany.DbUserName = "sa";  
oCompany.DbPassword = "1234";
```

2.4. Call connect on the Company object

```
int ret = oCompany.Connect();
```

3. TASK - IMPLEMENT ERROR HANDLING AND SUCCESS HANDLING

3.1. If the connection succeeds, display a message box displaying a corresponding message.

3.2. If the connection failed, display the error message provided by the Company object.

```
if (ret == 0)  
    MessageBox.Show("Connection ok");  
else  
    MessageBox.Show("Connection failed: " + oCompany.GetLastErrorCode().ToString()  
    + " - " + oCompany.GetLastErrorDescription());
```

4. TASK - CODE THE DISCONNECTION FROM THE SAP BUSINESS ONE DATABASE

4.1. If the connection succeeds, display a message box displaying a corresponding message.

4.2. If the connection failed, display the error message provided by the Company object.

```
if (oCompany.Connected == true)  
{  
    oCompany.Disconnect();  
    MessageBox.Show("You are now disconnected");  
}
```

A further sample can be found in the SDK DI samples (in the SDK Folder – see Appendix “SDK Installations” for more information), COM DI/1.BasicOperations.



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