Microsoft corporation  DYNAMICS 365

Microsoft Dynamics 365 Sample Code

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# Overview

This document gives you guidance on the samples for how to build on and extend the Dynamics 365 Accelerator. Below are the details related to the example.

* samplecode\analytics
  + Contains samples extending each Accelerator through the CDS Intelligence Platform, including Power BI Visualizations, integration of the CDS-Apps and CDS-Analytics layers and some calculated columns work based on the Accelerator
* Samplecode\apisamples
  + Cotnains samples for interacting with the Dynamics 365 API.
* samplecode\apps
  + Contains samples on extending Dynamics 365 Accelerator by building Power Apps Canvas and Model-driven UI experiences, as well as Customer Engagement Legacy and UCI experiences.
* samplecode\azure
  + Contains samples on extending Dynamics 365 Accelerator through Azure ML, Cognitive Services and other Azure related services
* samplecode\connectors
  + Contains samples for building connectors using the Power Suite platform and the Intelligence Platform (a.k.a connectors for Power Apps and Power BI)
* samplecode\linkedin
  + Contains samples on extending Dynamics 365 Accelerator through LinkedIn
* samplecode\office
  + Contains samples on extending Dynamics 365 Accelerator through Office products such as Microsoft Teams

# Instructions

To run these samples, you will need the following:

* Visual Studio 2017 or above
* A Dynamics 365 Tenant and Instance
* \*Azure Subscription
* \*Office 365
* \*Microsoft Teams
* \*LinkedIn

\*These items are only necessary for some of the samples

The examples themselves provide readmes for each sample. Please follow the instructions in the sample comments and readme files

The following instructions apply to most of the SDK samples. If a sample’s folder contains a Readme file, follow the instructions provided in that file.

To build and run a sample, follow these steps:

1. Double-click the sample’s solution (.sln) file in Windows Explorer to open the sample’s project in Visual Studio. If a solution file does not exist, double-click the sample’s project (.csproj or .vbproj) file instead.
2. Open the project’s properties by right-clicking the project in **Solution Explorer** and selecting **Properties**.
3. If there is more than one sample class in the project, you must choose which one will be executed. Select a sample class to execute from the **Startup object** drop-down list.
4. Press **F5** to build and run the sample or select **Build Solution** in the **Build** menu to build it.
5. Enter the following information at the prompts:

|  |  |
| --- | --- |
| **Prompt** | **Description** |
| Enter a CRM server name and port [crm.dynamics.com] | Type the name of your Microsoft Dynamics CRM server. The default is crm.dynamics.com.  Example: myservername (on-premises)  Example: myservername:5500 (on-premises)  Example: crm.dynamics.com (online)  Example: crm4.dynamics.com (online)  Example: dev.myservername.com (IFD) |
| Is this server configured for Secure Socket Layer (https) (y/n) [n] | Type y if the URL you use to access Microsoft Dynamics CRM 2016 begins with https://, otherwise default is n. |
| Is this organization provisioned in Microsoft Office 365 (y/n) [n] | Type y if this is an Microsoft Online Services (MOS) provisioned organization, otherwise default is n. |
| Enter domain\username | For Microsoft Dynamics CRM 2016 on-premises, type your network domain and user name separated by a backslash (\).  Example: mydomain\tadams  For Microsoft Dynamics CRM Online, type your Microsoft account or Microsoft Online Services username.  Example: [terryadams@live.com](mailto:terryadams@live.com)  Example: [terryadams@xxx.onmicrosoft.com](mailto:terryadams@xxx.onmicrosoft.com)  If you just press <Enter> for the username, the program will attempt to use your saved credentials. If there are none, it will fail. |
| Enter password | Type your password. |
| Specify an organization number (1-n) [1] | From the list of organizations shown that you belong to, type the corresponding number. The default is 1, indicating the first organization in the list. |
| Do you want these entity records deleted? (y/n) [y] | Type *y* for yes and *n* for no. The default is *y*. After the program runs, you can choose to delete any records that were created, or you can leave them to view in the Web application or Microsoft Dynamics CRM for Microsoft Office Outlook. |
| Press Enter to exit | Press Enter to exit the program. |

After the first run of an SDK console based sample, the server, organization, and user name information you entered when prompted is saved in an XML configuration file for re-use the next time you run a sample. This feature removes the need to enter that information again as you run additional samples. After the first sample run, the console prompts are as follows.

|  |  |
| --- | --- |
| **Prompt** | **Description** |
| Specify the saved server configuration number (1-x) [x]: | Enter zero (0) to create a new server configuration and follow the prompts as shown in the table above. Otherwise, enter the number of a saved configuration as shown in the displayed list. |
| Enter Password: | If prompted, type your password. The characters will show as “\*” in the window. |
| Do you want these entity records deleted? (y/n) [y] | Type **y** for yes and **n** for no. After the program runs, demonstrating create, retrieve and update of an account record, you can choose to delete the record that was created, or you can leave it so that you can view it in the Web application or Microsoft Dynamics CRM for Microsoft Office Outlook. |
| Press Enter to exit | Press Enter to exit the program. |

# Known Issues

The following samples have known issues that prevent them from running correctly. These issues will be fixed in a future release of the SDK.

|  |
| --- |
| A bug in the CrmServiceHelpers.cs and CrmServiceHelpers.vb helper code requires that when prompted for a server name in the console window, the user enters a server name of dev.serverName for an IFD server. For example: dev.contoso.com. |

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