# Translate Doc App sample

This sample demonstrates how to utilize the Machine Translation Service from an app.

## Description of the sample

This sample is written as a provider-hosted app using MVC4 and the managed client object model. The sample places a “Translate” button in the “Manage” group of the “Files” tab on document libraries in the host web for translating entire libraries. It also places a “Translate” menu item in the edit control block for translating a single document.

## Prerequisites

This sample requires the following;

A SharePoint 2013 development environment.

Visual Studio 2012 and Office 2013 Tools for Visual Studio 2012.

The Machine Translation Service properly set up and configured

## Key components of the sample

The sample is a provider-hosted app written with C# against the managed client object model. The app is structured using the MVC pattern with MVC4.

The key code can be found in the TranslateController.cs class. This class provides all of the translation functionality and settings management.

The Index() and SaveSetting() methods work together to read and write settings for the app. The user can select a target translation language and specify the name of a library in the host web where translated documents will be placed. This is a good demonstration of app setting management.

The File() method contains the code to translate a single file synchronously.

The Library() method contains the code to translate a library asynchronously.

## Configure the sample

The app requires you to provide the following certificate information:

* ClientSigningCertificatePath – the path to your test certificate pfx file
* ClientSigningCertificatePassword – the password for your test certificate
* IssuerId – the Issuer ID for your test certificate

You should also create a library named “Translated Documents” in the host web.

## Run and test the sample

1. Open the TranslateDocApp.sln solution in Visual Studio 2012.
2. Edit the Site URL property to refer to a test site where you will deploy the solution.
3. Edit the web.config to provide your test certificate information
4. Press F5.
5. When prompted, grant the app permissions.
6. When the app appears, select a language from the drop-down list.
7. Edit the destination library name, if required.
8. Navigate to a library in the host web.
9. Using the edit control block, select “Translate” for a single document.
10. Using the File tab on the ribbon, click the “Translate” button to process the entire library.

## Troubleshooting

The Machine Translation Service will not run on a domain controller.

## Change log

First release April 25, 2013

## Related content

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