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Demo Script: DevCon 2024

Download and Save Sample Code

- 1. Download twinBASIC BETA 504
- 2. Extract from Zip folder
- 3. Open twinBASIC > Sample 4
- 4. Enter Project Name: Demo2024 (Do not put spaces in the name)
- 5. Save as: %tmp%\Demo2024\Demo2024.twinproj
 - 1. Navigate to: %tmp%

Create folder named: Demo2024
Filename: Demo2024.twinproj

Customize the Addin Name and Description

Next, let's customize the friendly name and description of our addin. This is the info that appears in the VBA Add-in Manager dialog box.

- 1. Go to dllRegistration.twin > DllRegisterServer
- 2. In the "FriendlyName" line, replace AddinProjectName with DevCon 2024 Demo
- 3. In the "Description" line, replace AddinProjectName with Create a strongly-typed collection class from an existing VBA class object.
- 4. Save the project
- 5. Build the project

Create the Tool Window Controls

- 1. Open myToolWindow.tbcontrol
- 2. Select all controls and delete them
- 3. Select form and set the following properties:

Height: 1700Width: 2550

- 4. Create a text box and set the following properties:
 - ∘ Name: tb0bjName
 - ∘ Anchors > Right: ☑ True

Height: 300Left: 150Text: {blank}

TextHint: Object Class Name

Top: 150Width: 2250

5. Create a text box and set the following properties:

Name: tbCollNameAnchors > Right: ☑ True

Height: 300Left: 150Text: {blank}

∘ TextHint: Collection Class Name

Top: 600Width: 2250

6. Create a button and set the following properties:

Name: btnCreateClassAnchors > Right: ☑ True

∘ Caption: Create Collection Class

Height: 450Left: 150Top: 1050Width: 2250

Edit the Code in myToolWindow.twin

- Delete the Timer1_Timer() and HelloWorld_Click() subroutines
- 2. Add a Click event handler for btnCreateClass using the code below

Build and Test the Addin on Same Machine

The following instructions assume a machine with 32-bit Office (e.g., mjw20):

- 1. Ensure "win32" is selected in dropdown
- 2. File > Build
 - Creates and registers this file:

M:\Repos\NLS\DevCon2024\Build\DevCon2024_win32.dll

- As part of registration, the following registry key and values are created:
 - HKEY_CURRENT_USER\SOFTWARE\Microsoft\VBA\VBE\6.0\Addins\DevCon202 4.myAddIn\
 - Description: "DevCon2024"
 - FriendlyName: "DevCon2024"
 - LoadBehavior: 3 (3 => Loaded/Load at startup)
 - HKEY CLASSES ROOT\DevCon2024.myAddIn\CLSID
 - (Default): {9B80DA6E-8B20-4D53-AE54-430ACFAE987B} (this matches the [ClassID()] attribute value above the myAddIn class in myAddIn.twin)

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- HKEY CLASSES ROOT\DevCon2024.myToolWindow\CLSID
 - (Default): {D531346A-90B8-470D-AA33-FB009F19CEFD} (this matches the [ClassID()] attribute value above the myToolWindow class in myToolWindow.twin)

HKEY CLASSES ROOT\CLSID\{9B80DA6E-8B20-4D53-AE54-430ACFAE987B}

- (Default): myAddIn
- \InProcServer32
 - ∘ (Default):

M:\Repos\NLS\DevCon2024\Build\DevCon2024_win64.dll (NOTE: The presence of win64.dll here is likely a result of running the win64 build as shown in the next section)

- ThreadingModel: Both
- \ProgID
 - (Default): DevCon2024.myAddIn
- DEBUG CONSOLE should show this:
 - [LINKER] SUCCESS created output file 'M:\Repos\NLS\DevCon2024\Build\DevCon2024_win32.dll'
 - [LINKER] → Open Folder (NOTE: this is a clickable link)
 - [REGISTER] type-library registration completed. DllRegisterServer() returned OK
- 3. Open Excel or Access
- 4. Press [Alt] + [F11] to go to VBA IDE
- 6. Enter Obj Name in the first text box, Coll Name in the second text box, then click [Create Collection Class]

Build and Test the Addin on a Different Machine and Bitness

The following instructions assume you are building on a machine with 32-bit Office (mjw20), but installing on a machine with 64-bit Office (e.g., gbm18):

- 1. Ensure "win64" is selected in dropdown
- 2. File > Build
- 3. I copied M:\Repos\NLS\DevCon2024\Build\DevCon2024_win64.dll to %fb%\12114\DevCon2024_win64.dll (I will test registering it tomorrow on gbm18)
- 4. Open a non-admin cmd prompt
- 5. Run: regsvr32 DevCon2024 win64.dll
 - Receive message: "DIIRegisterServer in DevCon2024 win64.dll succeeded."
- 6. Open Word (or Excel) The add-in appears.

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Copy and Paste Working VBA Code into twinBASIC

- 1. Add a standard code module named "MyModule":
 - 1. Right-click Sources > Add > Add Module (.TWIN supporting Unicode)
- 2. Go to Strongly-Typed Collections: The Easy Way
 - 1. Copy and paste the <a>GetGuidBasedTempPath code
 - 2. Copy and paste the FileWrite code
- 3. Handle "Unrecognized datatype symbol 'Scripting'" error in DIAGNOSTICS pane:
 - 1. Go to **Project > References**
 - 2. Switch to "Available COM References" tab
 - 3. Search for "script" and then click the "Microsoft Scripting Runtime" reference
 - 4. Click [Save Changes]

Add fafalone's WinDevLib Package for API Calls

- 1. Project > References...
- 2. Switch to "Available Packages" tab
- 3. Search for "windows"
- 4. Check box next to "☑ Windows Development Library for twinBASIC vX.Y.ZZZ"
 - The package will immediately begin downloading in the background
 - ∘ When the download finishes, the name will change to "☑ [IMPORTED] Windows Development Library for twinBASIC vX.Y.ZZZ"
 - NOTE: "WinDevLib for Implements" is a different package
- 5. Click [Save Changes]
- 6. Comment out (or delete) API `Declare` lines throughout the project
 - Be aware that if you used non-standard `Alias` names, you may need to adjust your API calls to match the standard versions used in WinDevLib
 - myAddIn.twin:
 - Delete Private Type RECT structure
 - Delete GetClientRect() function declare
 - InterProcess.twin:
 - Delete GetCurrentProcessId() function declare line...
 - ...through Type UUID structure
 - MyModule.twin:
 - Delete Sleep sub declare
 - Comment out CoCreateGuid function declare and highlight the failure to compile due to the stricter typing of id As UUID in WinDevLib versus id As Any in my code
 - Uncomment the CoCreateGuid function to show that explicit API declares override the WinDevLib versions
- 7. Pass Unicode strings directly to API declare functions
 - Most string-related API functions have ANSI and Unicode versions ("A" and "W" for "ANSI" and "Wide", respectively)
 - Lots of legacy VB6/VBA code use the ANSI version of API functions
 - WinDevLib encourages the use of Unicode versions by default
 - This means that code that passes input strings to API functions may require wrapping the

string in `StrPtr()` (or removing `StrPtr()`) from your existing code

- ∘ □ Remove StrPtr() from calls to FindWindowEx() in InterProcess.callerApplicationObject
- ∘ □ Convert final argument from 0& to vbNullString for calls to FindWindowEx() in InterProcess.callerApplicationObject

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