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Demo Script: DevCon 2024

Create repo: M:\Repos\NLS\DevCon2024\.hg\

Open twinBASIC > Sample 4



Save as: M:\Repos\NLS\DevCon2024\DevCon2024.twinproj (in repository folder)

Ignore *.twinproj files in repository:

.hgignore

syntax: glob
*.twinproj

Set Export Path for Version Control

- 1. Ensure a clean repository with initial commit of .hgignore
- 2. Project > Project Settings...
- 3. Search for "export"
- 4. Check box next to "☑ Project: Export Path"
- 5. Enter text: \${SourcePath}\Source
 - This will save the twinBASIC source files to a subfolder named "Source" in the same folder as the .twinproj file itself
- 6. Check box next to "☑ Project: Export After Save" and set value in dropdown to **Yes**
- 7. Click [Save Changes]
- 8. **File > Export Project...** to force an initial export
- 9. In TortoiseHg, commit with the following message: initial export from twinBASIC IDE
 - The commit will include over 1,000 files; this is expected
 - Most of the committed files come from referenced packages; that's ok
 - MRemember, "Anything that can lead to a bug in our software belongs in version control."

Test Build From Source in Empty Folder

- Create a new folder: %tmp%\DevConClone\
- 2. Clone the repository into this folder: hg clone --verbose
 ssh://opal//home/gb/repos/devcon2024/
 "C:\Users\Mike\AppData\Local\Temp\DevConClone"
- 3. Open a new instance of twinBASIC
- 4. In the New Lab, click [Import from folder...] then [Open]

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 - 5. Enter folder name: %tmp%\DevConClone\Source then [OK]
 - 6. **File > Save Project As... >** %tmp%\DevConClone\DevCon2024.twinproj > [Save]
 - 7. Make any small change to a project file
 - 8. Save the project
 - 9. Commit the change and push to Opalstack

Test Build From Source for an Existing Project

The twinBASIC IDE appears to currently lack a "Build from Source" method that will overwrite the current .twinproj file with the contents of the "Project: Export Path" setting. As a result, we must use this multi-step workaround:

- 1. In the original repository (M:\Repos\NLS\DevCon2024), pull changes from Opalstack
- 2. Open a new twinBASIC instance OR go to File > New Project...
- 3. In the | New | tab, click [Import from folder...] then [Open]
- 4. For folder, enter M:\Repos\NLS\DevCon2024\Source then click [OK]
- 5. Go to File > Save As...
- 6. Save project as M:\Repos\NLS\DevCon2024\DevCon2024.twinproj
- 7. Click [Yes] when asked to replace the existing file
- 8. Confirm that the project successfully built from source:
 - 1. Go to **File > Export Project...** to force a full export of the source files
 - 2. Verify that new "Last Modified" dates have been created in M:\Repos\NLS\DevCon2024\Source\
 - 3. Verify that there are no pending changes in the repository

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: 150
 - o Text: {blank}
 - ∘ TextHint: Object Class Name
 - Top: 150Width: 2250
- 5. Create a text box and set the following properties:
 - Name: tbCollNameAnchors > Right: ☑ True
 - ∘ Height: 300

Left: 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)
 - 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
- 5. Tool window will likely be floating; click and drag to dock it somewhere:
- 6. Enter Obj Name in the first text box, Coll Name in the second text box, then click [Create Collection Class1 ×

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 abm18)
- 4. Open a non-admin cmd prompt
- 5. Run: regsvr32 DevCon2024 win64.dll
 - Receive message: "DllRegisterServer in DevCon2024 win64.dll succeeded."
- 6. Open Word (or Excel) The add-in appears.

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)

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- 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
 - mvAddIn.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

Last update: 2024/04/15 03:54 UTC

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Last update: 2024/04/15 03:54 UTC

