

```
1  #region Namespaces
2  using Autodesk.Revit.ApplicationServices;
3  using Autodesk.Revit.Attributes;
4  using Autodesk.Revit.DB;
5  using Autodesk.Revit.UI;
6  using System;
7  using System.Collections.Generic;
8  using System.Drawing;
9  using System.Drawing.Imaging;
10 using System.IO;
11 using System.Reflection;
12 using System.Windows.Forms;
13 using System.Windows.Media;
14 using System.Windows.Media.Imaging;
15
16 #endregion
17
18 namespace PipeTagger
19 {
20     class App : IExternalApplication
21     {
22         public Result OnStartup(UIControlledApplication application)
23         {
24             //0. Get assemblyName & Img for button data
25             String assembName = Assembly.GetExecutingAssembly().Location;
26
27             #region ###Icon image import
28
29             // Drag your image into projet properties -> Resources
30             // Image: 32 pixel x 32 pixel, 96 DPI (https://convert.town/image- ↗
31             //      dpi)
32             Image Img1 = Properties.Resources._1__管排標籤設定96;
33             Image Img2 = Properties.Resources._2__放置管排管段標籤96;
34             Image Img3 = Properties.Resources._3__管排高程標籤設定96;
35             Image Img4 = Properties.Resources._4__放置管排定點高程96;
36             Image Img5 = Properties.Resources._5__選取管段標籤96;
37             Image Img6 = Properties.Resources._6__選取定點高程96;
38
39             ImageSource imgSrc1 = Common.UI_Tool.GetImageSource(Img1);
40             ImageSource imgSrc2 = Common.UI_Tool.GetImageSource(Img2);
41             ImageSource imgSrc3 = Common.UI_Tool.GetImageSource(Img3);
42             ImageSource imgSrc4 = Common.UI_Tool.GetImageSource(Img4);
43             ImageSource imgSrc5 = Common.UI_Tool.GetImageSource(Img5);
44             ImageSource imgSrc6 = Common.UI_Tool.GetImageSource(Img6);
45
46             #endregion
47
48             //1. Create a tab
49             String TabName = "[CEC Tag]";
50
51             try {application.CreateRibbonTab(TabName); } // get the ribbon tab
52             catch (Exception) { } //tab already exists
```

```
53
54         //2. Create a panel
55         RibbonPanel panel = application.CreateRibbonPanel(TabName, "[CEC Tag]");
56
57         //3. Create Button data x6
58         PushButtonData btnData1 = new PushButtonData("Btn1", "管排標籤設定", assemName, "PipeTagger.Tag_setting"); // Last input = "Proj name" + "Function name"
59         PushButtonData btnData2 = new PushButtonData("Btn2", "放置管排管段標籤", assemName, "PipeTagger.Place_tag"); // Last input = "Proj name" + "Function name"
60         //PushButtonData btnData3 = new PushButtonData("Btn3", "管排高程標籤設定", assemName, "PipeTagger.NotFinish"); // Last input = "Proj name" + "Function name"
61         PushButtonData btnData4 = new PushButtonData("Btn4", "放置管排定點高程", assemName, "PipeTagger.Place_spot"); // Last input = "Proj name" + "Function name"
62         //PushButtonData btnData5 = new PushButtonData("Btn5", "選取管段標籤", assemName, "PipeTagger.Pick_tag"); // Last input = "Proj name" + "Function name"
63         //PushButtonData btnData6 = new PushButtonData("Btn6", "選取定點高程", assemName, "PipeTagger.NotFinish"); // Last input = "Proj name" + "Function name"
64
65         #region ###Button imageSrc
66
67         btnData1.LargeImage = imgSrc1;
68         btnData2.LargeImage = imgSrc2;
69         //btnData3.LargeImage = imgSrc3;
70         btnData4.LargeImage = imgSrc4;
71         //btnData5.LargeImage = imgSrc5;
72         //btnData6.LargeImage = imgSrc6;
73
74         #endregion
75
76         //4. Arrange buttons' position in panel
77
78         panel.AddItem(btnData1);
79         panel.AddItem(btnData2);
80         //panel.AddItem(btnData3);
81         panel.AddItem(btnData4);
82         //panel.AddSeparator();
83         //panel.AddItem(btnData5);
84         //panel.AddItem(btnData6);
85
86         return Result.Succeeded;
87     }
88
89
90
91     public Result OnShutdown(UIControlledApplication application)
92     {
```

```
93         return Result.Failed;
94     }
95
96
97     }
98 }
99
```