

ZWCAD COM Automation Developing Guide

CONTENT

Operating environments	1
Create a project and set properties	1
1. Create a project	1
2. Add reference	1
Sample code	2

Operating environments

CAD platform:ZWCAD

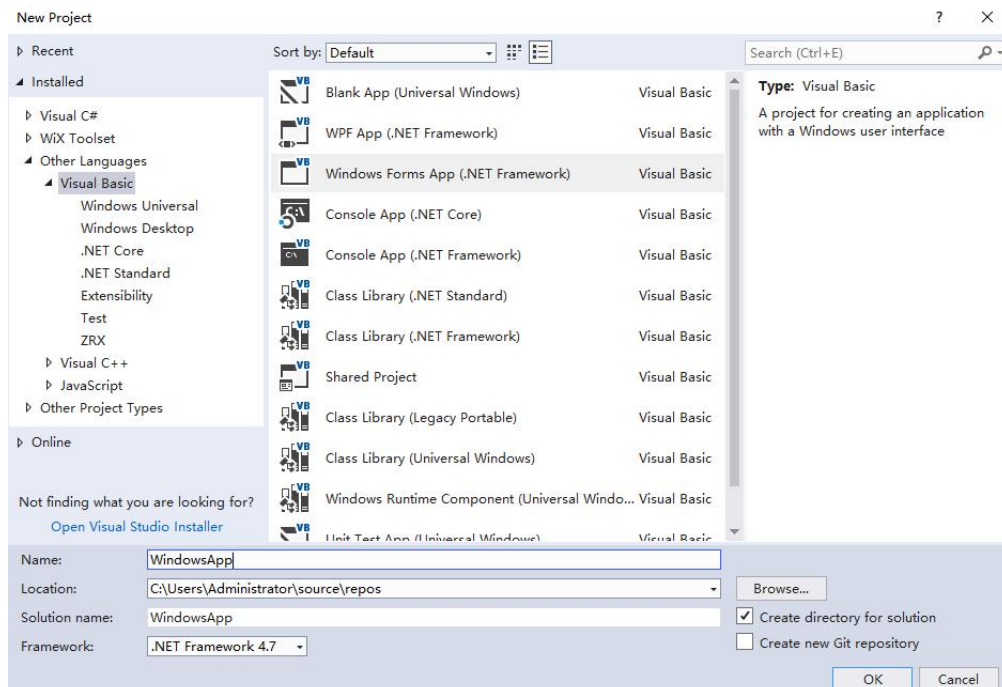
IDE:Visual Studio 2017 or later version

Development language:VB.NET or C# etc.

Create a project and set properties

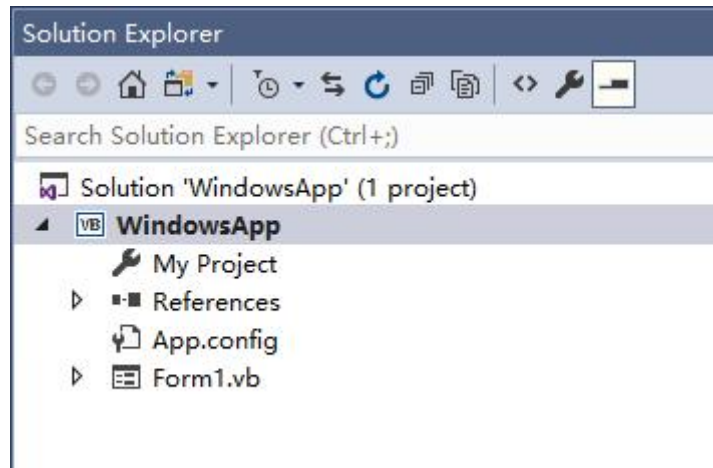
1. Create a project

Start Visual studio (take 2017 version for example). Go to menu **File**, and then select **File-> New Project**. Here you can select **Windows Forms Application** to produce a stand alone .exe file that allows your application to work with ZWCAD.

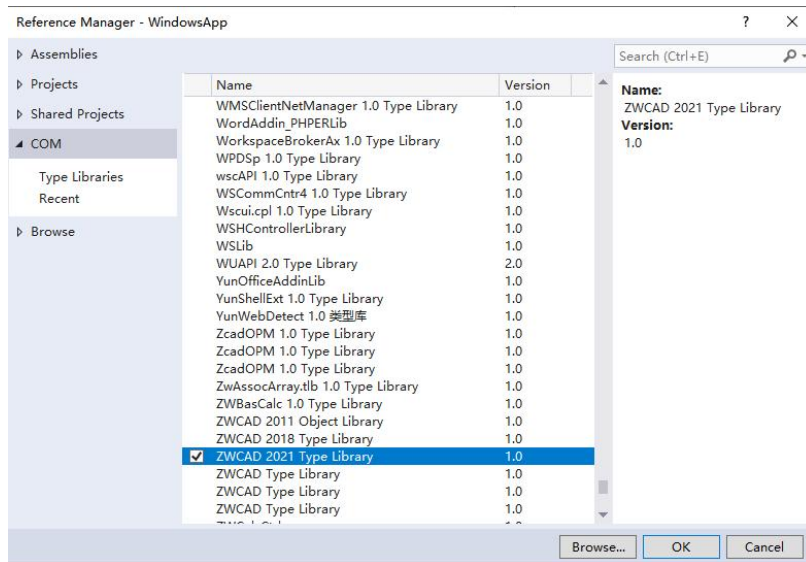


2. Add reference

At the **Solution Explorer** window, double click the project's name to get the project properties.



Select the “References” tab and click on “Add” and select “COM”. Add reference to ZWCAD type library, like the image below.



Sample code

The following example program is launching ZWCAD application automatically and then creating a line in the drawing.

Steps:

1. Follow the steps above to create a project and add reference. And then add a button control to the Form1.
2. Copy and paste the bellow codes to the Form1.vb file. Overwrite the original code

Imports ZWCAD

Public Class Form1

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click

Dim myDoc As ZcadDocument

```

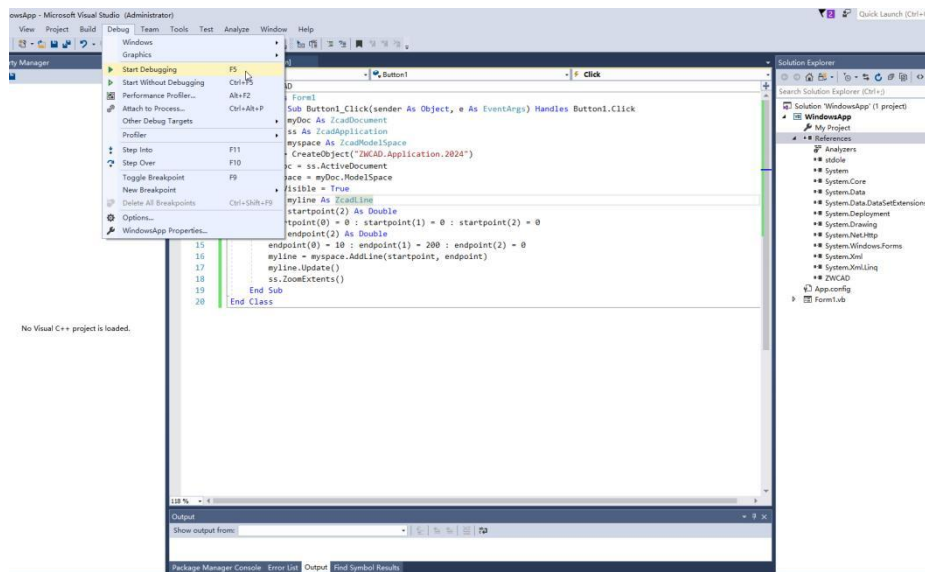
Dim ss As ZcadApplication
Dim myspace As ZcadModelSpace
ss = CreateObject("ZWCAD.Application.2024")
myDoc = ss.ActiveDocument
myspace = myDoc.ModelSpace
ss.Visible = True
Dim myline As ZcadLine
Dim startpoint(2) As Double
startpoint(0) = 0 : startpoint(1) = 0 : startpoint(2) = 0
Dim endpoint(2) As Double
endpoint(0) = 10 : endpoint(1) = 200 : endpoint(2) = 0
myline = myspace.AddLine(startpoint, endpoint)
myline.Update()
ss.ZoomExtents()

```

End Sub

End Class

- Go to menu file, and then select **Debug->Start Debugging** to debug the project



- ZWCAD application will be launched after clicking the button on the window.