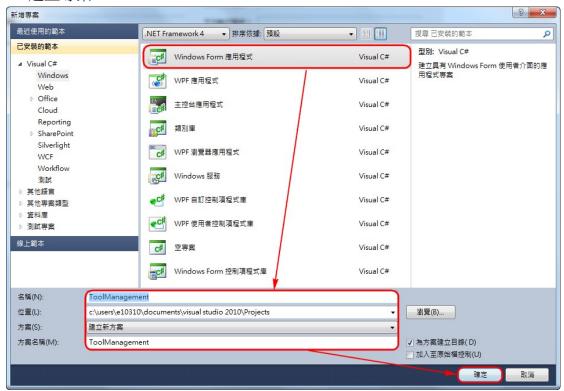
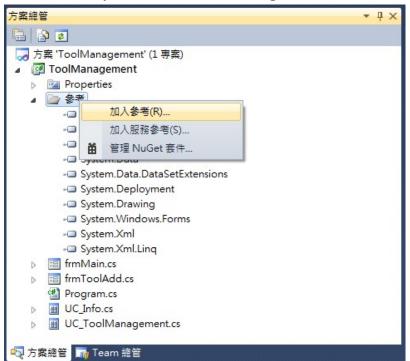
基本資訊功能

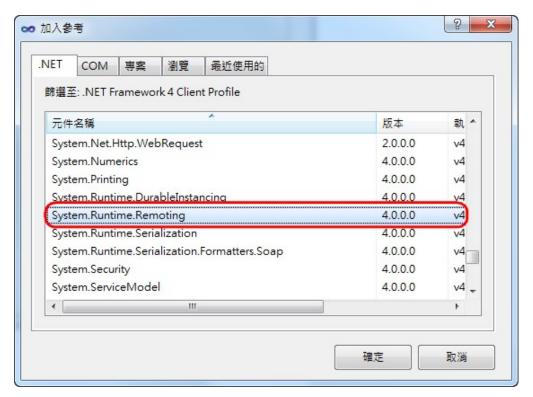
透過 SkyMars 進行實際開發練習

1、建立專案

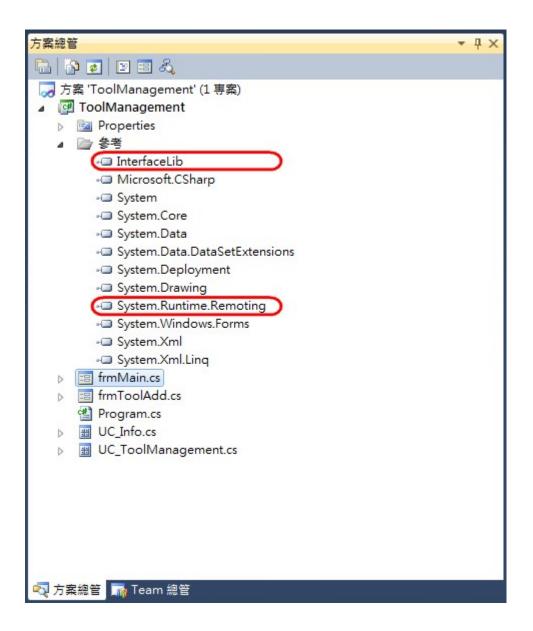


2、加入參考 System.Runtime.Remoting 與 InterfaceLib.dll

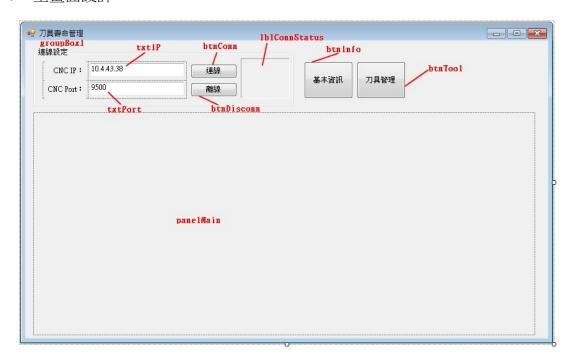








3、主畫面設計



元件名稱	Form	
Name	frmMain	
Size	860,519	
Text	刀具壽命管理	

元件名稱	Timer
Name	timer1

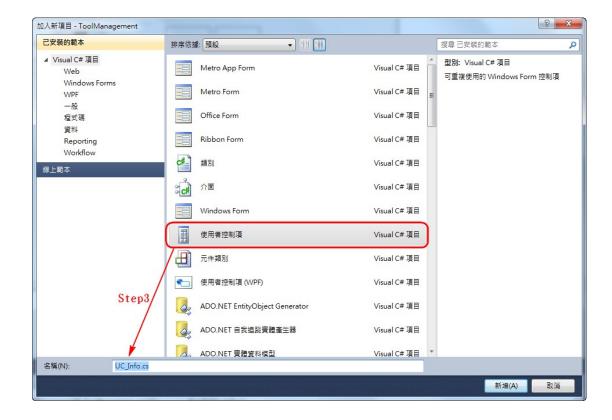
4、新增使用者控制項 UC_Info

Step1 點選方案,按滑鼠右鍵

Step2 選擇加入→新增項目



Step3 新增使用者控制項,並且輸入名稱為 UC_Info.cs



5、使用者控制項 UC_Info 畫面設計



元件名稱	UserControl	
Name	UC_Info	
Size	810,360	

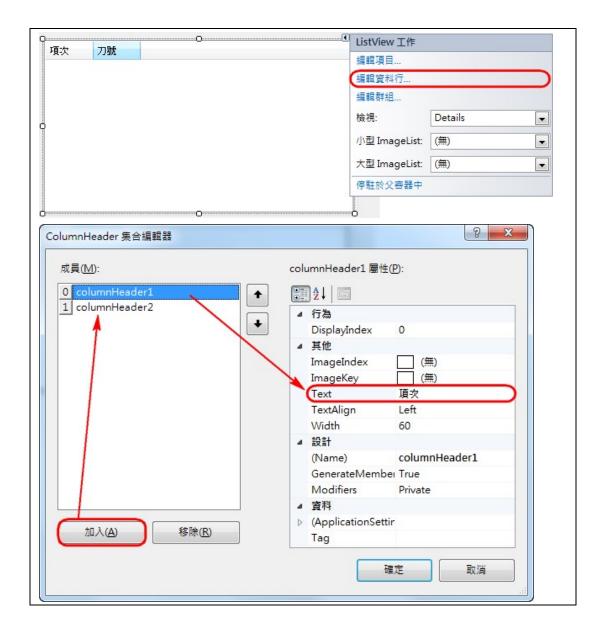
元件名稱	GroupBox	
Name	groupBox1	
Text	加工作業	
Name	groupBox2	
Text	執行中的加工資訊	
Name	groupBox3	
Text	執行中的刀具號碼	

Name	label1
AutoSize	False
Text	程式名稱:
TextAlign	MiddleRight
Name	label2
Text	循環時間:
Name	label3
Text	目前執行區段:
Name	label4
Text	下次執行區段:

元件名稱	Label
Name	lblProgramName
BorderStyle	Fixed3D
Text	
TextAlign	MiddleLeft
Name	lblCycleTime
Name	lblActive
Name	lblNext

元件名稱	RichTextBox
Name	richTextBox1
HideSelection	False

元件名稱	ListView	集合編輯屬性	集合編輯內容
Name	listView1		
View	Details		
columnsHeader	columnsHeader1	Text	項次
	columnsHeader2	Text	刀號



6、基本資料功能程式碼

UC Info.cs

```
wing System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Drawing;
using System.Data;
using System.Linq;
using System.Text;
using System.Text;
```

```
程式碼

namespace ToolManagement
{
    public partial class UC_Info : UserControl
    {
```

```
public UC_Info()
    InitializeComponent();
public void showToProgram(string richProgram, string activeProg, string nextProg)
    lblActive.Text = activeProg;
    lblNext.Text = nextProg;
    richTextBox1.Text = "";
    richTextBox1.Text = richProgram;
    richTextBox1.Select(0, richTextBox1.GetFirstCharIndexFromLine(1) - 1);
List<string> info = new List<string>();
string oldProgName = "";
public void showToToolNumber(string strTool, string newProgName)
    if (oldProgName == "")
         oldProgName = newProgName;
    if (oldProgName != newProgName)
         info.Clear();
         oldProgName = newProgName;
    if (!info.Contains(strTool))
         info.Add(strTool);
         listView1.Items.Clear();
         int i = 0;
         foreach (string item in info)
              i = i + 1;
              ListViewItem toolItem = new ListViewItem(i.ToString());
              toolItem.SubItems.Add("T" + item);
              listView1.Items.Add(toolItem);
```

frmMain.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Linq;
using System.Text;
using System.Windows.Forms;

using System.Runtime.Remoting;
using System.Runtime.Remoting.Channels;
using System.Runtime.Remoting.Channels.Tep;
using InterfaceLib;
```

```
程式碼
```

```
namespace ToolManagement
{
    public partial class frmMain : Form
    {
        InterfaceLib.IMsg iRemoting;
        StructMsg.Pwd _Pwd;
        StructMsg.SkyConn_status _SkyConn_status;
        StructMsg.SkyNc_filename _SkyNc_filename;
        StructMsg.nc_current_block _nc_current_block;
        StructMsg.time _time;
        StructMsg.othercode _othercode;
```

```
UC Info uc info = null;
string currentStatus = "";
string currentProgName = "";
string currentProg = "";
string currentTCode = "";
int[] cycleTime = new int[3];
public frmMain()
    InitializeComponent();
     lblConnStatus.Image = Image.FromFile(Application.StartupPath + "\\images\\offline.ico");
private void btnConn_Click(object sender, EventArgs e)
{
    if (ChannelServices.RegisteredChannels.Length == 0)
         ChannelServices.RegisterChannel(new TcpChannel(), false);
     string IP = txtIP.Text.Trim();
     string Port = "9501";
     iRemoting = (IMsg)Activator.GetObject(typeof(IMsg), "tcp://" + IP + ":" + Port + "/RemoteObjectURI" + Port);
     _Pwd.ConnectionKey = "pmc";
     _Pwd.WritePwd = "pmc";
     short ret = iRemoting.SKY_conn_status(_Pwd, ref _SkyConn_status);
    if (ret == 0)
         MessageBox.Show("連線成功!");
         lblConnStatus.Image = Image.FromFile(Application.StartupPath + "\\images\\online.ico");
         timer1.Enabled = true;
}
private void btnDisconn_Click(object sender, EventArgs e)
{
    lblConnStatus.Image = Image.FromFile(Application.StartupPath + "\\images\\offline.ico");
     timer1.Enabled = false;
}
private void btnInfo_Click(object sender, EventArgs e)
```

```
{
    panelMain.Controls.Clear();
    uc_info = new UC_Info();
    uc info.Location = new Point(0, 0);
    uc_info.Name = "UC_Info";
    uc_info.MaximumSize = new System.Drawing.Size(0, 0);
    uc_info.MinimumSize = new System.Drawing.Size(0, 0);
     uc_info.Dock = DockStyle.Fill;
    panelMain.Controls.Add(uc info);
}
private void timer1_Tick(object sender, EventArgs e)
{
    getCNCInfo();
    if (uc_info != null)
         if (currentStatus == "RUN")
         {
              uc\_info.showToProgram(currentProg, \_nc\_current\_block.Block[0], \_nc\_current\_block.Block[1]);\\
              uc_info.showToToolNumber(currentTCode, currentProgName);
              uc_info.showCycleTime(cycleTime, currentProgName);
}
private void getCNCInfo()
    //取得狀態
    string eqpStatus = "";
     short ret = iRemoting.SKY_conn_status(_Pwd, ref _SkyConn_status);
    if (ret == 0)
         switch (_SkyConn_status.Status[0])
         {
              case 0:
                   eqpStatus = "OFF";
                  break;
              case 1:
                  eqpStatus = "RUN";
                  break;
```

```
case 2:
             eqpStatus = "IDLE";
             break;
         case 3:
             eqpStatus = "Alarm";
             break;
currentStatus = eqpStatus;
//取得程式名稱
ret = iRemoting.SKY_nc_filename(_Pwd, ref_SkyNc_filename);
if (ret == 0)
    currentProgName = _SkyNc_filename.MainProg[0];
//取得程式内容
ret = iRemoting.GET_nc_current_block(_Pwd, ref _nc_current_block);
if (ret == 0)
    currentProg = "";
    for (int i = 0; i \le nc\_current\_block.Block.Length - 1; i++)
         currentProg += \_nc\_current\_block.Block[i] + "\r\n";
//取得循環時間
ret = iRemoting.GET_time(_Pwd, ref _time);
if (ret == 0)
    cycleTime = _time.Cycle;
//取得刀號
ret = iRemoting.GET_othercode(_Pwd, ref _othercode);
if (ret == 0)
    currentTCode = _othercode.TCode.ToString();
```

```
}
}
```

7、基本資料功能完成畫面

