







```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Security.Cryptography;
using System.Text;
using System.Web;
namespace DemoWeb.Models
    public class CodecModule
        public static byte[] EncrytString(string encKey, string rawText)
            return DESEncrypt(encKey, Encoding.UTF8.GetBytes(rawText));
        public static List<string> DecryptData(string encKey, List<byte[]> data)
            return data.Select(o =>
                return Encoding.UTF8.GetString(DESDecrypt(o, encKey));
            }).ToList();
        //REF: https://dotblogs.com.tw/supershowwei/2016/01/11/135230
        static byte[] HashByMD5(string source)
            MD5CryptoServiceProvider md5 = new MD5CryptoServiceProvider();
            return md5.ComputeHash(Encoding.UTF8.GetBytes(source));
        static byte[] DESEncrypt(string key, byte[] data)
            var des = new DESCryptoServiceProvider();
            Rfc2898DeriveBytes rfc2898 = new Rfc2898DeriveBytes(key, HashByMD5(key));
            des.Key = rfc2898.GetBytes(des.KeySize / 8);
            des.IV = rfc2898.GetBytes(des.BlockSize / 8);
            using (MemoryStream ms = new MemoryStream())
            using (CryptoStream cs = new CryptoStream(ms, des.CreateEncryptor(), CryptoStreamMode.w
                cs.Write(data, 0, data.Length);
                cs.FlushFinalBlock();
                return ms.ToArray();
        static byte[] DESDecrypt(byte[] encData, string encKey)
            DESCryptoServiceProvider des = new DESCryptoServiceProvider();
            Rfc2898DeriveBytes rfc2898 = new Rfc2898DeriveBytes(encKey, HashByMD5(encKey));
            des.Key = rfc2898.GetBytes(des.KeySize / 8);
            des.IV = rfc2898.GetBytes(des.BlockSize / 8);
            using (MemoryStream ms = new MemoryStream())
            using (CryptoStream cs = new CryptoStream(ms, des.CreateDecryptor(), CryptoStreamMode.W
                cs.Write(encData, 0, encData.Length);
                cs.FlushFinalBlock();
                return ms.ToArray();
```

配合 IP 管控需在 web.config 加入可呼叫的來源 IP‧例如測試期限定本機可以這樣寫

```
<add key="api:AllowedClientIps" value="::1;127.0.0.1"/>
```



```
using Newtonsoft.Json;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Web;
using System.Web.Mvc;
namespace DemoWeb.Models
    public class JsonNetController : Controller
        protected override JsonResult Json(object data, string contentType,
                  Encoding contentEncoding, JsonRequestBehavior behavior)
            if (behavior == JsonRequestBehavior.DenyGet
                && string.Equals(this.Request.HttpMethod, "GET",
                                 StringComparison.OrdinalIgnoreCase))
                return new JsonResult();
            return new JsonNetResult()
                Data = data,
                ContentType = contentType,
                ContentEncoding = contentEncoding
    public class JsonNetResult : JsonResult
        public JsonSerializerSettings SerializerSettings { get; set; }
        public Formatting Formatting { get; set; }
        public JsonNetResult()
            SerializerSettings = new JsonSerializerSettings();
        public override void ExecuteResult(ControllerContext context)
            if (context == null)
                throw new ArgumentNullException("context");
            HttpResponseBase response = context.HttpContext.Response;
            response.ContentType =
                !string.IsNullOrEmpty(ContentType) ? ContentType : "application/json";
            if (ContentEncoding != null)
                response.ContentEncoding = ContentEncoding;
               (Data != null)
                JsonTextWriter writer = new JsonTextWriter(response.Output)
                    Formatting = Formatting
                JsonSerializer serializer = JsonSerializer.Create(SerializerSettings);
                serializer.Serialize(writer, Data); writer.Flush();
```

8. 另外・先前講過我習慣用統一的 ApiResult 物件回傳 WebAPI 結果・故要在 Models/ApiResult.cs 定義 ApiResult 物件・乳 泛型強化版(ApiResult)・可指定 Data 型別加上強型別保護。



```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
namespace DemoWeb.Models
    // <summary>
    public class ApiResult<T>
        public bool Succ { get; set; }
        public string Code { get; set; }
        .
/// <summary>
/// 錯誤訊息
        /// </summary>
        public string Message { get; set; }
        public DateTime DataTime { get; set; }
        /// <summarv
        public T Data { get; set; }
        public ApiResult() { }
        /// <summary>
/// 建立成功結果
        /// <param name="data"></param>
        public ApiResult(T data)
             Code = "0000";
Succ = true;
             DataTime = DateTime.Now;
             Data = data;
    public class ApiError : ApiResult<object>
        /// <param name="code"></param>
/// <param name="message"></param>
        public ApiError(string code, string message)
             Code = code;
             this.DataTime = DateTime.Now;
             Message = message;
```



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  + Solution 'DemoWeb' (1 project)
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 using DemoWeb.Models;
 using System;
 using System.Collections.Generic;
 using System.Linq;
 using System.Web;
using System.Web.Mvc;
 namespace DemoWeb.Controllers
     public class CodecApiController : JsonNetController
          [HttpPost]
          public ActionResult EncryptString(string encKey, string rawText)
              SecurityManager.Authorize(Request);
              return Json(new ApiResult<byte[]>(
                  CodecModule.EncrytString(encKey, rawText)));
          public class DecryptParameter
              public string EncKey { get; set; }
              public List<byte[]> EncData { get; set; }
          [HttpPost]
          public ActionResult BatchDecryptData(DecryptParameter decData)
              SecurityManager.Authorize(Request);
              return Json(new ApiResult<List<string>>(
                  CodecModule.DecryptData(decData.EncKey, decData.EncData)));
加註 [HttpPost] 限定 POST 呼叫是好習慣。參考:隱含殺機的GET式AJAX資料更新
                  買任1件*健達。巧克力含牛奶內餡/健達電腦
活動日期:即日戡至2022/4/24 **指定產品不包括键號
                             kindertaiwan.com 立即参加
```









