

# ACGNJ --- CSIG

This month's topic will be several reviews plus an update on a discussion that we had several months ago about using a Web Servers as a destination for a C++ or C# logging application. I will present a very tiny application written in C# and PHP for logging. The C# code is assumed to be contained in a much larger application program that's located (let's say) in Nova Scotia on a client's desktop computer. The PHP code is assumed to be on a web server in Montreal, Canada. I'm here in New Jersey and I want to access the log information on the server. I'll present some code that could do it. I'll also challenge the audience to come up with other techniques.



```
//  
// WEBLOGGER.cs          B.Arnold 3/14/2016  
//  
// Version: 1.01 Instructions added to code.  
//  
// Object:  to communicate with a remote web server and write  
//          data into a log file.  
//  
// Instructions:  this code sends data to "mURI" as defined below.  
//               The data is "POSTed" or uploaded to the website.  
//               The specific destination app has been written to  
//               save the data to a specific log file on the server.  
//  
//               The specific log file, "postlog.log" may be read  
//               in any browser by putting its address in the browser  
//               address bar:  http://<your_web_site>/postlog.log  
  
using System;  
using System.Net;  
using System.Windows.Forms;
```

```

namespace Weblogger
{
    public partial class Form1 : Form
    {
        Uri mURI = new Uri("http://<your_web_site>/post_logger_sub.php");

        public Form1 ()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            if (0 == mData.Text.Length) return;

            string mParameters = "data=" + mData.Text;

            using (WebClient wc = new WebClient())
            {
                wc.Headers[HttpRequestHeader.ContentType] =
                    "application/x-www-form-urlencoded";
                wc.UploadStringCompleted +=
                    new UploadStringCompletedEventHandler(UploadStringCallback2);
                try
                {
                    wc.UploadStringAsync(mURI, mParameters);
                }
                catch
                {
                    #if DEBUG
                        MessageBox.Show("Failure to communication.", "ERROR");
                    #else
                        ; // ignore errors for now.
                    #endif
                }
            }

            //
            // Status information from Asynchronous Upload String function.
            // This will appear after an undefined time period.
            // Ie. when the server is ready.
            //

            private void UploadStringCallback2(object sender,
                UploadStringCompletedEventArgs e)
            {
                #if DEBUG
                    if (null == e.Error)
                        MessageBox.Show(e.Result, "STATUS RESULT");
                    else
                        MessageBox.Show(e.Error.Message, "ERROR");
                #else
                    ; // ignore errors for now.
                #endif
            }
        }
    }
}

```

# Server Side PHP code

```
<!DOCTYPE html>
<html>

<head>
<meta charset="UTF-8">
<title>post_logger_sub</title>
</head>

<body>
<?php
// <p>post Logger Sub</p>
//
//   post_logger_sub.php           B.Arnold   3/15/2016
//
//   Object:  to allow remote logging of miscelleaneous information on a server.
//   Info limited to 410 characters. This app is placed on the web server.
//   That's 5 lines at 80 characters per line.

// echo "<pre>";  print_r($_POST);  echo "</pre>";

    if (isset($_POST['data']))
        $data = substr(htmlspecialchars($_POST["data"]), 0, 410);
    else
        $data = 'Syntax error: log data missing.' . "\r\n";

    date_default_timezone_set('America/New_York');
    $header = "-----" . "\r\n";
    $header .= "++LOG++ " . date("m/d/Y H:i:s") . "\r\n";

    if ($fs = fopen( "postlog.log", "a" ))
        { ; }
    else
        { die(); }

    fputs($fs, $header);
    fputs($fs, $data);
    fputs($fs, "\r\n");
    fclose($fs);
?>
</body>
</html>
```

## SAMPLE POSTLOG.LOG

```
-----
++LOG++ 03/14/2016 21:57:30
The quick brown fox jumped over
the lazy dog's back.
Test of Weblogger 1.01
```