

```
using System;
using System.Linq;
using System.Web;
using System.Web.Services;
using System.Web.Services.Protocols;
using System.Xml;
using System.Xml.Linq;
using System.Xml.Serialization;
using System.IO;
using System.Collections;

namespace MessageLogger
{
    /// <summary>
    /// The main webservice class. This handles all login and message posting
    /// requests to the web server.
    /// </summary>
    [WebService(Namespace = "http://virus-box/MLogger",
        Description="Main MLogger Web Service")]
    public class MLService : System.Web.Services.WebService
    {
        /// <summary>
        /// Default constructor, does nothing.
        /// </summary>
        public MLService()
        {
        }

        /// <summary>
        /// Validates a user's login and returns a new session ID for that user
        /// </summary>
        /// <param name="userName">The user's login name</param>
        /// <param name="password">The user's password</param>
        /// <returns>0 if invalid</returns>
        [WebMethod(Description="Message Logger User Login")]
        public long UserLogin(String userName, String password)
        {
            // Create new database object
            spExecution sp = new spExecution();
            sp.SQLConnect();

            // Check if the user name & password are valid
            if (sp.ValidateUser(userName, password) == "1")
            {
                sp.SQLDisconnect(); // Disconnect from SQL
                return NewSessionID(userName);
            }
            else
            {
                sp.SQLDisconnect(); // Disconnect from SQL
                return 0L;
            }
        }

        /// <summary>
        /// Posts a new message to the database
        /// </summary>
        /// <param name="sessionID">The user's current session ID</param>
        /// <param name="title">The title of the message</param>
        /// <param name="message">The message text</param>
        /// <returns>The message ID for the new message</returns>
        private int PostNewMessage(long sessionID, String title, String message)
        {
            int messageID;

            // Create new database object
            spExecution sp = new spExecution();
            sp.SQLConnect();
        }
    }
}
```