
Subject: C# -> U++ conversion...

Posted by [mirek](#) on Tue, 18 Oct 2011 16:31:51 GMT

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Funny, today I had to rewrite some code (google authentication) from C# to U++:

C#:

```
private static string GetAuthToken() {
    WebRequest webRequest =
    HttpWebRequest.Create("https://www.google.com/accounts/ClientLogin");
    webRequest.Method = "POST";
    webRequest.ContentType = "application/x-www-form-urlencoded";

    string postParams =
        "accountType=" + HttpUtility.UrlEncode("GOOGLE") +
        "&Email=" + HttpUtility.UrlEncode("INSERT_LOGIN_EMAIL_HERE") +
        "&Passwd=" + HttpUtility.UrlEncode("INSERT_PASSWORD_HERE") +
        "&service=" + HttpUtility.UrlEncode("adwords") +
        "&source=" + HttpUtility.UrlEncode(string.Format("{0}-{1}-{2}", "YOUR_COMPANY_NAME",
            "YOUR_APP_NAME", "YOUR_VERSION_ID"));

    byte[] postBytes = Encoding.UTF8.GetBytes(postParams);
    webRequest.ContentLength = postBytes.Length;

    using (Stream strmReq = webRequest.GetRequestStream()) {
        strmReq.Write(postBytes, 0, postBytes.Length);
    }

    string retVal = "";
    try {
        WebResponse response = webRequest.GetResponse();

        using (StreamReader reader = new StreamReader(response.GetResponseStream())) {
            string sResponse = reader.ReadToEnd();
            string[] splits = sResponse.Split('\n');
            foreach (string split in splits) {
                string[] subsplits = split.Split('=');
                if (subsplits.Length >= 2 && subsplits[0] == "Auth") {
                    retVal = subsplits[1];
                }
            }
        }
    } catch (WebException ex) {
        throw new ApplicationException("Could not generate auth token.", ex);
    }
    return retVal;
}
```

U++:

```
String GetAuthToken() {
    String h =
        HttpClient()
            .URL("https://www.google.com/accounts/ClientLogin")
            .Post("accountType=GOOGLE"
                "&Email=" + GetIniKey("google_email") +
                "&Passwd=" + GetIniKey("google_passwd") +
                "&service=adwords")
            .ExecuteRedirect();
    ;
    Vector<String> s = Split(h, '\n');
    for(int i = 0; i < s.GetCount(); i++)
        if(s[i].StartsWith("Auth="))
            return s[i].Mid(5);
    return Null;
}
```

It is childish, but this always makes me feel good

In this case, it is also a nice demonstration of difference between "properties" and U++...

Mirek
