

BrowserObject™ Web Service

~~ Browser Detection Made Very Easy ~~

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1. Overview

This documentation provides a basic understanding and information to help you get started with our products. Look over this documentation to gain a high-level understanding of the process flow that underlies the BrowserObject Web Services.

For more information, please visit <http://www.fraudlabs.com> or contact your BrowserObject representative:

Email: sales@fraudlabs.com

1.1 Overview of the BrowserObject Web Service

BrowserObject delivers scalable web services solutions that help you to determine your online visitors' browser's information. We are able to identify user's Web Browser's name, version, platform, and to check if the browser supports SSL Protocol, frame, JavaScript, PNG, Compress GZip and so on using proprietary User Agent lookup database and technology.

BrowserObject Web Service is hosted, programmable XML Web Service that allows exchange of data between systems. Customers can integrate our web service regardless of their web server and other business solutions. This XML web service is used under authorized license to BrowserObject.com, the leading browser detection provider.

BrowserObject Web Service is very easy to set up and use. You may understand your visitors better, as well as preventing and minimizing Web site failures that due to technical issues by detecting your clients' Web Browser's capabilities within a minute of time. From the information that the web service return to you, you may also get rid of browser incompatibility problems by routing your visitor to pages optimized for their particular browser.

Key Features Include:

- Detects Major Search Engines
- Detects Web Browsers Type and Version
- Detects Wireless Phones, PDAs and Other Devices
- Detects New Browser and Automatic Updates
- Provides a complete XML-based Web Services API
- Contains sample code examples for ease integration

1.2 Front End of BrowserObject Web Service

The general idea is that front end is responsible for collection input from the user and conforms to some specification that the back end can use. Front end of BrowserObject Web Service is rather simple to understand. As we are using platform independent XML format to exchange data between systems, you may either integrate our web service to your in-house system, or direct access to our hosted web service.

1.2.1. Integration with In-house System

- I. Our sample codes in different languages are available at: <http://www.fraudlabs.com/browserobjectsamples.aspx> . Log on and download sample codes that you need (For sample codes in different languages please refer to Appendix II). Below are links to get sample codes:
 - i. Microsoft ASP.NET (v1.1) - VB.NET:
<http://www.fraudlabs.com/samplecode/browserobjectwebserviceclientvb.zip>
 - ii. Microsoft ASP.Net (v1.1) - C#:
<http://www.fraudlabs.com/samplecode/browserobjectwebserviceclientcsharp.zip>
 - iii. Microsoft ASP.NET (v2.0) - VB.NET:
<http://www.fraudlabs.com/samplecode/browserobjectwebserviceclientvb2005.zip>
 - iv. Microsoft ASP.Net (v2.0) - C#:
<http://www.fraudlabs.com/samplecode/browserobjectwebserviceclientcsharp2005.zip>
 - v. Java:
<http://www.fraudlabs.com/samplecode/browserobjectwebserviceclientjava.zip>
 - vi. PHP:
<http://www.fraudlabs.com/samplecode/browserobjectwebserviceclientphp.zip>
 - vii. Python:
<http://www.fraudlabs.com/samplecode/browserobjectwebserviceclientpython.zip>
 - viii. Perl:
<http://www.fraudlabs.com/samplecode/browserobjectwebserviceclientperl.zip>
 - ix. ColdFusion 9:
<http://www.fraudlabs.com/samplecode/browserobjectwebserviceclientcoldfusion.zip>
- II. Please go through 'readme' file that we provide together with the sample codes for more set up information
- III. In order to use our service, you need to get your own license key – *How?*
 - i. log on to <http://www.fraudlabs.com>
 - ii. sign up as our registered member
 - iii. check your email to complete user activation
 - iv. get license key :

- a) Free License Account:
 - 1) at the left menu bar, under category of BrowserObject™ Browser Detection, click "free license"
 - 2) view Terms of Use (*please note that you must agree with our Terms of Use before proceed)
 - 3) click on "Get Free License Now"
 - 4) the license key will be sent to your email
- b) Premium Subscription:
 - 1) at the left menu bar, under category of BrowserObject™ Browser Detection, click "subscribe now"
 - 2) fill in required field in the secure payment form
 - 3) click on "make payment"
 - 4) the license key will be sent to your email after your payment is confirmed by our online payment merchant

IV. Now fill in the required field

V. Click on "Submit" and result is provided

1.3 Back End of BrowserObject Web Service

Back end is the part that processes the input from the front end. The process is seamless to the end-user and works by interaction with a SOAP API through BrowserObject Web Service.

The process works as follows:

1. User submits User Agent that to be analyzed
2. System verify the license key before proceed
3. If the license key is valid, it will proceed and check the credits availability. If the remaining credits still available, it will start to perform the User Agent check
4. Returns and display the Web browser's information

1.3.1. How to get client's User Agent string

PHP:

```
...  
$strUserAgent = $_SERVER['HTTP_USER_AGENT'];  
...
```

JavaScript:

```
...  
var strUserAgent = navigator.userAgent;  
...
```

VB.NET:

```
...  
Dim strUserAgent As String =  
Request.ServerVariables("HTTP_USER_AGENT")  
...
```

C#:

```
...  
string strUserAgent = Request.ServerVariables["HTTP_USER_AGENT"];  
...
```

Perl:

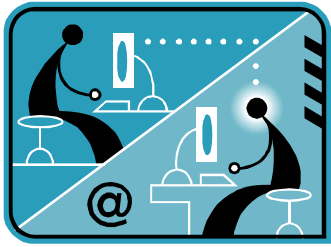
```
...
```

```
require LWP::UserAgent;  
my $strUserAgent = LWP::UserAgent->new; $ua->timeout(10); $ua-  
>env_proxy;  
...
```

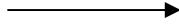
1.3.2. Record Matching

First, we analyze the User Agent String. Then we use our own algorithm to match case and match with the browser's information.

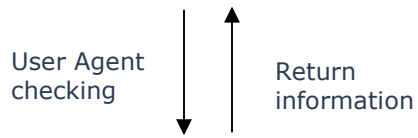
1.4 Process Flow Overview



Step 1
Visitors visit websites



Step 2
Visitor's User Agent String
captured by merchant



Step 3
BrowserObject Web Service
(Browser's information retrieval)

2. Implementation

This section provides basic information of the process of integrating the web service into your website. Look over this section to gain a high-level understanding of requesting BrowserObject Web Service.

A WSDL is available at:

<http://v1.fraudlabs.com/browserobjectwebservice.asmx?wsdl>

For more information about BrowserObject Web Service implementation, please visit <http://www.fraudlabs.com> or contact your BrowserObject representative:

Email: sales@fraudlabs.com

2.1 Basic Parameters - Input

Field	Format	Description
USERAGENTSTRING	Required	User Agent of Internet visitor
LICENSE	Required	License key for free license and premium users.

2.2 Basic Parameters - Output

Field	Format	Description
BROWSERNAME	String	This property returns the browser's name, e.g. "IE", "Netscape", "Mozilla", "Opera" and so on.
FULLVERSION	String	This property returns a string that representing the version of the entire browser, e.g. "4.04"
GECKO	String	This property returns "True" or "False" to indicate that if the browser is using the Gecko engine
MAJORVERSION	String	This property returns the major version of your visitor's browser, e.g. "7"
MINORVERSION	String	This property returns the minor version of your visitor's browser, e.g. "0".
MINORVERSIONLETTER	String	This property returns the minor version letter of your visitor's browser, e.g. "C".
CRAWLER	String	This property returns "True" or "False" to indicate if the browser is a crawler, spider or any other agents of search engine.
EMAILCRAWLER	String	This property returns "True" or "False" to determine if the visiting agent is a crawler that collects email addresses
ALPHA	String	Alpha returns "True" or "False" to indicate if the browser is an alpha version and still under development
BETA	String	This property returns "True" or "False" to determine if the browser is a beta version
CDF	String	This property returns "True" or "False" to determine if the browser supports Channel Definition Format
BACKGROUNDOUNDS	String	This property returns "True" or "False" to determine if the browser

		can play background sounds.
AUTHENTICCODEUPDATE	String	This property returns the version of Authenticode (digitally signing code) which the browser supports.
NETSCAPEGOLD	String	This property returns "True" or "False" to determine if the browser is a Gold version of Netscape
ISBANNED	String	This property returns "True" or "False" to determine if the browser is banned user agent.
ISSYNDICATIONREADER	String	This property returns "True" or "False" to determine if the browser is actually an RSS, Atom, or other XML-based feed reader or aggregator
MOUSEOVER	String	This property returns "True" or "False" to indicate if the browser supports the mouse over effects
SSLSUPPORTED	String	This property returns "True" or "False" to indicate if Secure Sockets Layer (SSL) is supported by the browser
SSLACTIVE	String	This property returns "True" or "False" to indicate if your visitor is connected through an active SSL connection. This test is not available on all web servers and platforms
SSLCIPHERSUITE	String	This property returns the SSL cipher suite used for SSL session
CSSVERSION	String	This property returns Cascading Style Sheets (CSS) version supported by the browser
CHARHEIGHTAVAIL	String	This property returns the number of text lines that can fit on the device without causing scrolling
CHARWIDTHAVAIL	String	This property returns the text characters that can fit across one line on the device without causing a line break
PNGSUPPORTED	String	This function returns "True" or "False" to determine if the browser supports Portable Network Graphic (PNG) image file format
FONTCOLORSUPPORTED	String	This property returns "True" or "False" to indicate if the browser supports the display of different colored text
FONTSIZESUPPORTED	String	This property returns "True" or "False" that indicates if the browser supports the ability of displaying varying font sizes
TABLESSUPPORTED	String	This property returns "True" or "False" to determine if the browser supports and display HTML table

TABLEBACKGROUNDCOLORSUPPORTED	String	This property returns "True" or "False" to indicate if the browser supports the ability to control the table display color
TABLEBACKGROUNDIMAGESUPPORTED	String	This property returns "True" or "False" to determine if the browser supports and display HTML table
FRAMES	String	This property returns "True" or "False" that determine if the browser supports frames
IFRAMES	String	This property returns "True" or "False" to determine if the browser supports the HTML IFrame tag
AOLVERSION	String	This property returns the version number of AOL if the browser is an America Online branded browser
AOL	String	This property returns "True" or "False" to indicate if the browser is an America Online branded browser.
COMPRESSGZIP	String	This property returns "True" or "False" to determine if browser accepts compressed content in GZip format
MSNNETWORK	String	This property returns "True" or "False" to indicate if your visitor is from MSN network
ISMOBILEDEVICE	String	This property returns "True" or "False" to determine if your visitor is using recognized mobile device.
WAP	String	This property returns "True" or "False" to determine if the device supports WML and WAP (Wireless Application Protocol).
HDML	String	This property returns "True" or "False" to determine if the wireless devices support WAP's predecessor.
WAPDEVICEMODEL	String	This property returns the model of known device
WAPGATEWAY	String	This property returns the information of the UP.Link gateway.
WAPMAXIMUMDECKSIZE	String	This property returns the supported maximum number of bytes in a deck.
WAPSUBSCRIBERID	String	This property returns the unique subscriber ID of WAP visitor.
PLATFORM	String	This property returns the platform of your visitor's machine, e.g." Win XP".
WIN16	String	This property returns "True" or "False" to determine if the browser is running on a 16-bit operating

		system.
WIN32	String	This property returns “True” of “False” to determine if the browser is running on a 32-bit operating system.
WIN64	String	This property returns “True” of “False” to determine if the browser is running on a 64-bit operating system.
NETCLR	String	This property returns “True” or “False” indication if .NET Common Language Runtime (CLR) is installed.
CLRVERSION	String	This property returns the version of the .NET Common Language Runtime (CLR) if installed, e.g. "2.0.50727".
ACTIVEXCONTROLS	String	This property returns “True” or “False” to indicate if the browser supports ActiveX Controls
JAVASCRIPTSUPPORTED	String	This property returns “True” of “False” to determine if the browser supports JavaScript
VBSSCRIPTSUPPORTED	String	This property returns “True” of “False” to determine if the browser supports VBScript
XMLSUPPORTED	String	This property returns “True” of “False” to determine if the browser supports XML (extended markup language)
FILEUPLOAD	String	This property returns “True” or “False” to determine if the browser enables file upload to a server.
USERLANGUAGE	String	This property returns the language code corresponding to the regional settings from your visitor, e.g. “ENGLISH”
CREDITSAVAILABLE	Integer	Number of queries remaining in your account, can be used to alert you when you may need to add more queries to your account.
MESSAGE	String	Web Service Message Response

2.3 List of possible value for MESSAGE field

BrowserObject Web Service Error Message
<ul style="list-style-type: none"> Invalid license key
<ul style="list-style-type: none"> License info not found
<ul style="list-style-type: none"> User Agent and License Key cannot be blank
<ul style="list-style-type: none"> User Agent not found. Please try other user agent

3. Design Information

This section provides suggestion regarding the placing of BrowserObject Web Service into Web pages. Look over this section to get a general idea for adding this service to your website.

3.1 Placement of BrowserObject Web Service

As BrowserObject web service provides you very informative details regarding identification of online visitors' browser information by using User Agent, this service can be placed on any forms on your website, offering a seamless integration. In fact, you may already be using this kind of service without realizing it.

Description: Visitors Web browsers information is needed to minimize site failure and to reduce the complexity of troubleshooting jobs.

Level of security: High

Site Type(s):

- Internet Retailers
- Software Developers

Benefits:

- Understand and get your visitor's browser setting
- Prevent site failure due to browser setting mismatch
- Redirect web pages based on your site's requirement
- Eliminating browser errors and to ease the troubleshooting jobs
- Web log statistics and analysis to understand your visitors better

Appendix I : Sample Code

BrowserObject Web Service sample code is available in several different programming languages. Below are some examples, for more different programming languages please log on to:

<http://www.fraudlabs.com/browserobjectsamples.aspx>

i. ASP.NET – VB.NET (SOAP)

```
Private Sub BrowserObjectWebService()  
Dim x_BrowserObject As New  
BrowserObjectWebService.BrowserObjectWebService  
Dim oBrowserObject As New BrowserObjectWebService.BrowserObjectOutput  
Dim iBrowserObject As New BrowserObjectWebService.BrowserObjectInput  
  
Try  
    iBrowserObject.USERAGENTSTRING = Me.txtUserAgent.Text  
    iBrowserObject.LICENSE = Me.txtLicense.Text  
  
    oBrowserObject = x_BrowserObject.BrowserObject(iBrowserObject)  
  
    txtResult.Text = "CREDITSAVAILABLE:" &  
oBrowserObject.CREDITSAVAILABLE & vbNewLine  
    txtResult.Text += "ActiveXControls:" & oBrowserObject.ActiveXControls  
& vbNewLine  
    txtResult.Text += "Alpha:" & oBrowserObject.Alpha & vbNewLine  
    txtResult.Text += "AOL:" & oBrowserObject.AOL & vbNewLine  
    txtResult.Text += "AOLVersion:" & oBrowserObject.AOLVersion &  
vbNewLine  
    txtResult.Text += "AuthenticcodeUpdate:" &  
oBrowserObject.AuthenticcodeUpdate & vbNewLine  
    txtResult.Text += "BackgroundSounds:" &  
oBrowserObject.BackgroundSounds & vbNewLine  
    txtResult.Text += "Beta:" & oBrowserObject.Beta & vbNewLine  
    txtResult.Text += "Browser:" & oBrowserObject.Browser & vbNewLine  
    txtResult.Text += "CDF:" & oBrowserObject.CDF & vbNewLine  
    txtResult.Text += "CharHeightAvail:" & oBrowserObject.CharHeightAvail  
& vbNewLine  
    txtResult.Text += "CharWidthAvail:" & oBrowserObject.CharWidthAvail &  
vbNewLine  
    txtResult.Text += "CLRVersion:" & oBrowserObject.CLRVersion &  
vbNewLine  
    txtResult.Text += "CompressGZIP:" & oBrowserObject.CompressGZIP &  
vbNewLine  
    txtResult.Text += "CookiesSupported:" &  
oBrowserObject.CookiesSupported & vbNewLine  
    txtResult.Text += "Crawler:" & oBrowserObject.Crawler & vbNewLine  
    txtResult.Text += "CSSVersion:" & oBrowserObject.CSSVersion &  
vbNewLine  
    txtResult.Text += "EmailCrawler:" & oBrowserObject.EmailCrawler &  
vbNewLine  
    txtResult.Text += "FileUpload:" & oBrowserObject.FileUpload &  
vbNewLine
```

```
txtResult.Text += "FontColor:" & oBrowserObject.FontColor & vbNewLine
txtResult.Text += "FontSize:" & oBrowserObject.FontSize & vbNewLine
txtResult.Text += "Frames:" & oBrowserObject.Frames & vbNewLine
txtResult.Text += "Gecko:" & oBrowserObject.Gecko & vbNewLine
txtResult.Text += "NetscapeGold:" & oBrowserObject.NetscapeGold &
vbNewLine
txtResult.Text += "HDML:" & oBrowserObject.HDML & vbNewLine
txtResult.Text += "IFrames:" & oBrowserObject.IFrames & vbNewLine
txtResult.Text += "IsBanned:" & oBrowserObject.IsBanned & vbNewLine
txtResult.Text += "IsMobileDevice:" & oBrowserObject.IsMobileDevice &
vbNewLine
txtResult.Text += "IsSyndicationReader:" &
oBrowserObject.IsSyndicationReader & vbNewLine
txtResult.Text += "JavaAppletsSupported:" &
oBrowserObject.JavaAppletsSupported & vbNewLine
txtResult.Text += "JavaScriptSupported:" &
oBrowserObject.JavaScriptSupported & vbNewLine
txtResult.Text += "MajorVersion:" & oBrowserObject.MajorVersion &
vbNewLine
txtResult.Text += "MinorVersion:" & oBrowserObject.MinorVersion &
vbNewLine
txtResult.Text += "MinorVersionLetter:" &
oBrowserObject.MinorVersionLetter & vbNewLine
txtResult.Text += "MouseOver:" & oBrowserObject.MouseOver & vbNewLine
txtResult.Text += "MSN:" & oBrowserObject.MSN & vbNewLine
txtResult.Text += "NETCLR:" & oBrowserObject.NETCLR & vbNewLine
txtResult.Text += "OSInformation:" & oBrowserObject.OSInformation &
vbNewLine
txtResult.Text += "PNGSupported:" & oBrowserObject.PNGSupported &
vbNewLine
txtResult.Text += "Platform:" & oBrowserObject.Platform & vbNewLine
txtResult.Text += "IsProxy:" & oBrowserObject.IsProxy & vbNewLine
txtResult.Text += "SSLSupported:" & oBrowserObject.SSLSupported &
vbNewLine
txtResult.Text += "SSLActive:" & oBrowserObject.SSLActive & vbNewLine
txtResult.Text += "SSLCipherSuite:" & oBrowserObject.SSLCipherSuite &
vbNewLine
txtResult.Text += "TableBackgroundColor:" &
oBrowserObject.TableBackgroundColor & vbNewLine
txtResult.Text += "TableBackgroundImage:" &
oBrowserObject.TableBackgroundImage & vbNewLine
txtResult.Text += "Tables:" & oBrowserObject.Tables & vbNewLine
txtResult.Text += "UserLanguage:" & oBrowserObject.UserLanguage &
vbNewLine
txtResult.Text += "VBScriptSupported:" &
oBrowserObject.VBScriptSupported & vbNewLine
txtResult.Text += "WAPDeviceModel:" & oBrowserObject.WAPDeviceModel &
vbNewLine
txtResult.Text += "WAPGateway:" & oBrowserObject.WAPGateway &
vbNewLine
txtResult.Text += "WAPMaximumDeckSize:" &
oBrowserObject.WAPMaximumDeckSize & vbNewLine
txtResult.Text += "WAPSubscriberID:" & oBrowserObject.WAPSubscriberID
& vbNewLine
txtResult.Text += "WAP:" & oBrowserObject.WAP & vbNewLine
txtResult.Text += "Win16:" & oBrowserObject.Win16 & vbNewLine
txtResult.Text += "Win32:" & oBrowserObject.Win32 & vbNewLine
```

```
txtResult.Text += "Win64:" & oBrowserObject.Win64 & vbNewLine
txtResult.Text += "XMLSupported:" & oBrowserObject.XMLSupported &
vbNewLine
txtResult.Text += "UserAgent:" & oBrowserObject.UserAgent & vbNewLine
txtResult.Text += "Version:" & oBrowserObject.Version & vbNewLine
txtResult.Text += "MESSAGE:" & oBrowserObject.MESSAGE & vbNewLine
Catch ex As Exception
Response.Write(ex.Message)
End Try
End Sub
```

ii. ASP.NET – C#.NET (SOAP)

```
private void BrowserObjectWebService()
{
    BrowserObjectWebService x_BrowserObject = new
BrowserObjectWebService();
    BrowserObjectOutput oBrowserObject = new BrowserObjectOutput();
    BrowserObjectInput iBrowserObject = new BrowserObjectInput();

    try
    {
        iBrowserObject.USERAGENTSTRING = this.txtUserAgent.Text;
        iBrowserObject.LICENSE = this.txtLicense.Text;

        oBrowserObject = x_BrowserObject.BrowserObject(iBrowserObject);

        this.txtResult.Text = "CREDITSAVAILABLE:" +
oBrowserObject.CREDITSAVAILABLE + "\n";
        this.txtResult.Text += "ActiveXControls:" +
oBrowserObject.ActiveXControls + "\n";
        this.txtResult.Text += "Alpha:" + oBrowserObject.Alpha + "\n";
        this.txtResult.Text += "AOL:" + oBrowserObject.AOL + "\n";
        this.txtResult.Text += "AOLVersion:" + oBrowserObject.AOLVersion +
"\n";
        this.txtResult.Text += "AuthenticcodeUpdate:" +
oBrowserObject.AuthenticcodeUpdate + "\n";
        this.txtResult.Text += "BackgroundSounds:" +
oBrowserObject.BackgroundSounds + "\n";
        this.txtResult.Text += "Beta:" + oBrowserObject.Beta + "\n";
        this.txtResult.Text += "Browser:" + oBrowserObject.Browser + "\n";
        this.txtResult.Text += "CDF:" + oBrowserObject.CDF + "\n";
        this.txtResult.Text += "CharHeightAvail:" +
oBrowserObject.CharHeightAvail + "\n";
        this.txtResult.Text += "CharWidthAvail:" +
oBrowserObject.CharWidthAvail + "\n";
        this.txtResult.Text += "CLRVersion:" + oBrowserObject.CLRVersion +
"\n";
        this.txtResult.Text += "CompressGZIP:" +
oBrowserObject.CompressGZIP + "\n";
        this.txtResult.Text += "CookiesSupported:" +
oBrowserObject.CookiesSupported + "\n";
        this.txtResult.Text += "Crawler:" + oBrowserObject.Crawler + "\n";
        this.txtResult.Text += "CSSVersion:" + oBrowserObject.CSSVersion +
```

```
"\n";
    this.txtResult.Text += "EmailCrawler:" +
oBrowserObject.EmailCrawler + "\n";
    this.txtResult.Text += "FileUpload:" + oBrowserObject.FileUpload +
"\n";
    this.txtResult.Text += "FontColor:" + oBrowserObject.FontColor +
"\n";
    this.txtResult.Text += "FontSize:" + oBrowserObject.FontSize +
"\n";
    this.txtResult.Text += "Frames:" + oBrowserObject.Frames + "\n";
    this.txtResult.Text += "Gecko:" + oBrowserObject.Gecko + "\n";
    this.txtResult.Text += "NetscapeGold:" +
oBrowserObject.NetscapeGold + "\n";
    this.txtResult.Text += "HDML:" + oBrowserObject.HDML + "\n";
    this.txtResult.Text += "IFrames:" + oBrowserObject.IFrames + "\n";
    this.txtResult.Text += "IsBanned:" + oBrowserObject.IsBanned +
"\n";
    this.txtResult.Text += "IsMobileDevice:" +
oBrowserObject.IsMobileDevice + "\n";
    this.txtResult.Text += "IsSyndicationReader:" +
oBrowserObject.IsSyndicationReader + "\n";
    this.txtResult.Text += "JavaAppletsSupported:" +
oBrowserObject.JavaAppletsSupported + "\n";
    this.txtResult.Text += "JavaScriptSupported:" +
oBrowserObject.JavaScriptSupported + "\n";
    this.txtResult.Text += "MajorVersion:" +
oBrowserObject.MajorVersion + "\n";
    this.txtResult.Text += "MinorVersion:" +
oBrowserObject.MinorVersion + "\n";
    this.txtResult.Text += "MinorVersionLetter:" +
oBrowserObject.MinorVersionLetter + "\n";
    this.txtResult.Text += "MouseOver:" + oBrowserObject.MouseOver +
"\n";
    this.txtResult.Text += "MSN:" + oBrowserObject.MSN + "\n";
    this.txtResult.Text += "NETCLR:" + oBrowserObject.NETCLR + "\n";
    this.txtResult.Text += "OSInformation:" +
oBrowserObject.OSInformation + "\n";
    this.txtResult.Text += "PNGSupported:" +
oBrowserObject.PNGSupported + "\n";
    this.txtResult.Text += "Platform:" + oBrowserObject.Platform +
"\n";
    this.txtResult.Text += "IsProxy:" + oBrowserObject.IsProxy + "\n";
    this.txtResult.Text += "SSLSupported:" +
oBrowserObject.SSLSupported + "\n";
    this.txtResult.Text += "SSLActive:" + oBrowserObject.SSLActive +
"\n";
    this.txtResult.Text += "SSLCipherSuite:" +
oBrowserObject.SSLCipherSuite + "\n";
    this.txtResult.Text += "TableBackgroundColor:" +
oBrowserObject.TableBackgroundColor + "\n";
    this.txtResult.Text += "TableBackgroundImage:" +
oBrowserObject.TableBackgroundImage + "\n";
    this.txtResult.Text += "Tables:" + oBrowserObject.Tables + "\n";
    this.txtResult.Text += "UserLanguage:" +
oBrowserObject.UserLanguage + "\n";
    this.txtResult.Text += "VBScriptSupported:" +
oBrowserObject.VBScriptSupported + "\n";
```

```
        this.txtResult.Text += "WAPDeviceModel:" +
oBrowserObject.WAPDeviceModel + "\n";
        this.txtResult.Text += "WAPGateway:" + oBrowserObject.WAPGateway +
"\n";
        this.txtResult.Text += "WAPMaximumDeckSize:" +
oBrowserObject.WAPMaximumDeckSize + "\n";
        this.txtResult.Text += "WAPSubscriberID:" +
oBrowserObject.WAPSubscriberID + "\n";
        this.txtResult.Text += "WAP:" + oBrowserObject.WAP + "\n";
        this.txtResult.Text += "Win16:" + oBrowserObject.Win16 + "\n";
        this.txtResult.Text += "Win32:" + oBrowserObject.Win32 + "\n";
        this.txtResult.Text += "Win64:" + oBrowserObject.Win64 + "\n";
        this.txtResult.Text += "XMLSupported:" +
oBrowserObject.XMLSupported + "\n";
        this.txtResult.Text += "UserAgent:" + oBrowserObject.UserAgent +
"\n";
        this.txtResult.Text += "Version:" + oBrowserObject.Version + "\n";
        this.txtResult.Text += "MESSAGE:" + oBrowserObject.MESSAGE + "\n";
    }
    catch (Exception ex)
    {
        Response.Write(ex.Message);
    }
}
```

iii. PHP

```
<?php
if (!isset($_POST['submit'])) {} // if page is not submitted to itself
echo the form
else
{
    $useragent = $_POST["useragent"];
    $license = $_POST["license"];

    if ($license == "<Enter License Key>" || $license == "")
    {
        echo "license key is a required field." ;
    }
    else
    {
        $wsdl =
"http://v1.fraudlabs.com/browserobjectwebservice.asmx?wsdl";
        $client = new SoapClient($wsdl);
        $parms = array("USERAGENTSTRING" => $useragent,"LICENSE" =>
$license);

        $result = $client->BrowserObject($parms);

        echo "CREDITSAVAILABLE = " . $result->CREDITSAVAILABLE . "<br>";
        echo "ActiveXControls = " . $result->ActiveXControls . "<br>";
        echo "Alpha = " . $result->Alpha . "<br>";
        echo "AOL = " . $result->AOL . "<br>";
        echo "AOLVersion = " . $result->AOLVersion . "<br>";
    }
}
```

```
echo "AuthenticodeUpdate = " . $result->AuthenticodeUpdate .
"<br>";
echo "BackgroundSounds = " . $result->BackgroundSounds . "<br>";
echo "Beta = " . $result->Beta . "<br>";
echo "Browser = " . $result->Browser . "<br>";
echo "CDF = " . $result->CDF . "<br>";
echo "CharHeightAvail = " . $result->CharHeightAvail . "<br>";
echo "CharWidthAvail = " . $result->CharWidthAvail . "<br>";
echo "CLRVersion = " . $result->CLRVersion . "<br>";
echo "CompressGZIP = " . $result->CompressGZIP . "<br>";
echo "CookiesSupported = " . $result->CookiesSupported . "<br>";
echo "Crawler = " . $result->Crawler . "<br>";
echo "CSSVersion = " . $result->CSSVersion . "<br>";
echo "EmailCrawler = " . $result->EmailCrawler . "<br>";
echo "FileUpload = " . $result->FileUpload . "<br>";
echo "FontColor = " . $result->FontColor . "<br>";
echo "FontSize = " . $result->FontSize . "<br>";
echo "Frames = " . $result->Frames . "<br>";
echo "Gecko = " . $result->Gecko . "<br>";
echo "NetscapeGold = " . $result->NetscapeGold . "<br>";
echo "HDML = " . $result->HDML . "<br>";
echo "IFrames = " . $result->IFrames . "<br>";
echo "IsBanned = " . $result->IsBanned . "<br>";
echo "IsMobileDevice = " . $result->IsMobileDevice . "<br>";
echo "IsSyndicationReader = " . $result->IsSyndicationReader .
"<br>";
echo "JavaAppletsSupported = " . $result->JavaAppletsSupported .
"<br>";
echo "JavaScriptSupported = " . $result->JavaScriptSupported .
"<br>";
echo "MajorVersion = " . $result->MajorVersion . "<br>";
echo "MinorVersion = " . $result->MinorVersion . "<br>";
echo "MinorVersionLetter = " . $result->MinorVersionLetter .
"<br>";
echo "MouseOver = " . $result->MouseOver . "<br>";
echo "MSN = " . $result->MSN . "<br>";
echo "NETCLR = " . $result->NETCLR . "<br>";
echo "OSInformation = " . $result->OSInformation . "<br>";
echo "PNGSupported = " . $result->PNGSupported . "<br>";
echo "Platform = " . $result->Platform . "<br>";
echo "IsProxy = " . $result->IsProxy . "<br>";
echo "SSLSupported = " . $result->SSLSupported . "<br>";
echo "SSLActive = " . $result->SSLActive . "<br>";
echo "SSLCipherSuite = " . $result->SSLCipherSuite . "<br>";
echo "TableBackgroundColor = " . $result->TableBackgroundColor .
"<br>";
echo "TableBackgroundImage = " . $result->TableBackgroundImage .
"<br>";
echo "Tables = " . $result->Tables . "<br>";
echo "UserLanguage = " . $result->UserLanguage . "<br>";
echo "VBScriptSupported = " . $result->VBScriptSupported . "<br>";
echo "WAPDeviceModel = " . $result->WAPDeviceModel . "<br>";
echo "WAPGateway = " . $result->WAPGateway . "<br>";
echo "WAPMaximumDeckSize = " . $result->WAPMaximumDeckSize .
"<br>";
echo "WAPSubscriberID = " . $result->WAPSubscriberID . "<br>";
echo "WAP = " . $result->WAP . "<br>";
```

```
echo "Win16 = " . $result->Win16 . "<br>";
echo "Win32 = " . $result->Win32 . "<br>";
echo "Win64 = " . $result->Win64 . "<br>";
echo "XMLSupported = " . $result->XMLSupported . "<br>";
echo "UserAgent = " . $result->UserAgent . "<br>";
echo "Version = " . $result->Version . "<br>";
echo "MESSAGE = " . $result->MESSAGE . "<br>";
}
}
?>
```