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# **Prepare development environment**

- IIS7.0 + required
- Visual Studio 2010(SP1)
- MSSQL 2008 Express Client Only
- Net framework 4.5 installed

Get all the source code located at: <a href="mailto:svn://svn2.gammatrix.com/cms2012">svn://svn2.gammatrix.com/cms2012</a>

**DEV** environment

http://dev.gammatrix.com:2012/

http://demo1.gammatrix.com:2012/en/Register

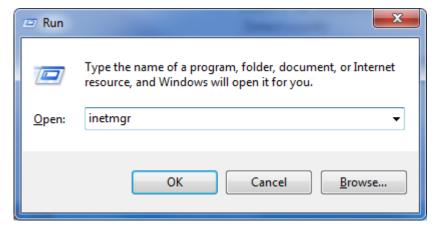
http://demo1.gammatrix.com:2012/he/Register

# Setup your local server

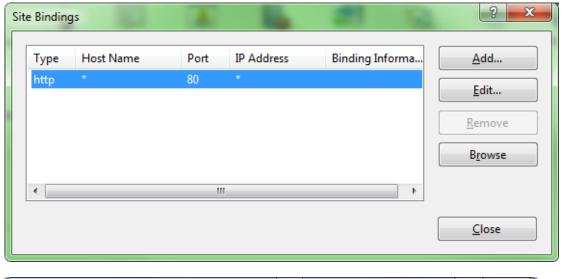
### **Create the Event Log Entry**

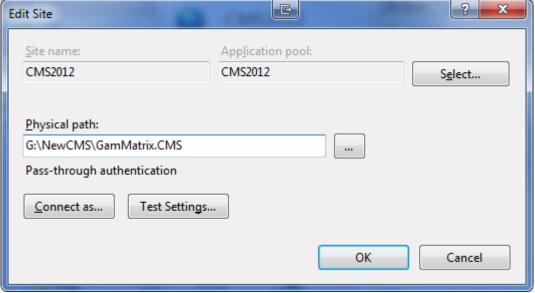
eventcreate /ID 1 /L APPLICATION /T INFORMATION /SO CMS2012 /D "CMS2012" eventcreate /ID 1 /L APPLICATION /T INFORMATION /SO CasinoEngine /D "CasinoEngine"

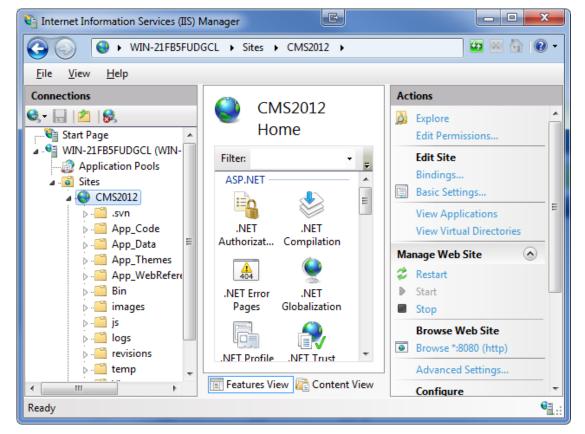
# **IIS configuration**



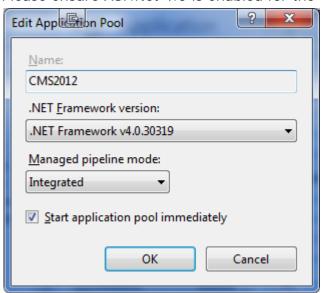
Create the site





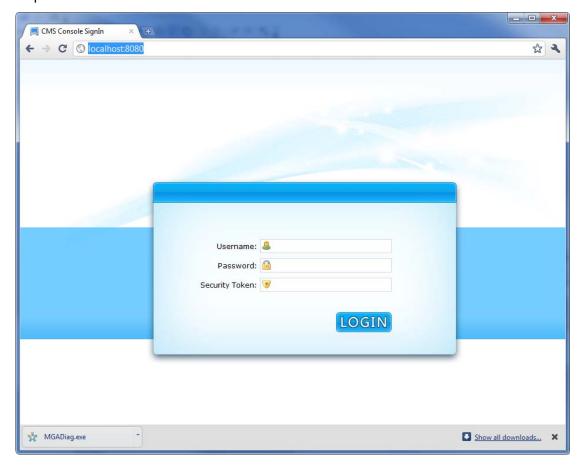


Please ensure ASP.Net 4.0 is enabled for the application pool



Grant READ + WRITE Permission of the web site directory to IIS\_IUSRS and IUSR users

Then, you can try to access the CMS console site now. http://localhost



Try to login as "sa/asdfg"

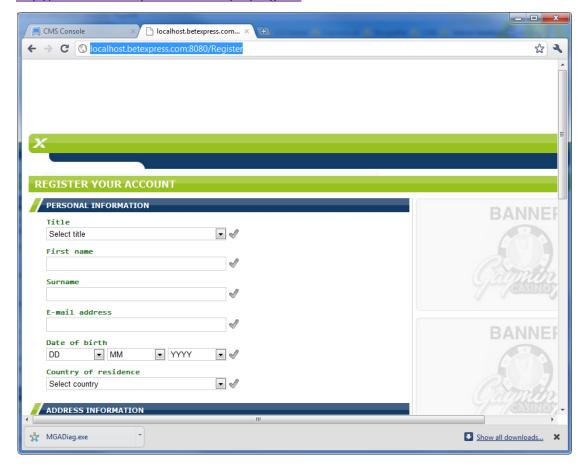
If succeed, then configuration is correct for CMS Console site.

# A sample of operator site

Add following entry to your  $\underline{\%WinDir\%\System32\drivers\Setc\Sets}$  file

127.0.0.1 localhost.betexpress.com

Then verify if it is accessible via <a href="http://localhost.betexpress.com:8080/en/Register">http://localhost.betexpress.com:8080/en/Register</a>



# **Development Notes**

#### **Standard HTML components**

A set of standard HTML components http://dev.gammatrix.com:2012/Tutorial/ShowView?viewName=StandardHTMLComponents

We need reuse the HTML components as much as possible Also, we can add more the components if something we really needed.

You can find code sample and css sample there.

#### **Validation**

The new CMS extends the jQuery validation plugin for handy use.

You can find code samples at:

- /Views/Shared/Register/PersionalInformation.ascx
- /Views/Shared/Register/AccountInformation.ascx
- /Views/Shared/Register/AddressInformation.ascx
- /Views/Shared/Register/InputViewScript.ascx

Generally speaking, you need put a <ui:InputField> in the view.

Validation rules are based on controls, you can add validation rules by adding the "validator" attribute to the control. The rules are created by the ClientValidators class

After you added the rule, you need initialize the jQuery validation plugin in the client-side script.

```
$(document).ready(function () {
    // initialize the form validation
    $('#formRegister').initilizeForm();

    // bind an event to the submit button
    $('#btnRegisterUser').click(function (e) {
        e.preventDefault();
        // validate the form
        if (!$('#formRegister').valid())
            return;

        // if validation succeed, submit the form in AJAX
        // ......
    });
});
```

The validation plugin supports complex validation as below.

```
<ui:InputField ID="fldUsername" runat="server" ShowDefaultIndicator="true" BalloonArrowDirection="Left">
   <LabelPart><LabelPart><LabelPart>
   <ControlPart>
        <%: Html.TextBox( "username", string.Empty, new</pre>
       {
          @maxlength = 20,
           @id = "txtUsername",
          @validator = ClientValidators.Create()
              .Required(this.GetMetadata(".Username_Empty"))
              .MinLength(4, this.GetMetadata(".Username_Length"))
              .Custom("validateUsername")
              .Server(this.Url.RouteUrl("Register", new { @action = "VerifyUniqueUsername", @message =
this.GetMetadata(".Username Exist") }))
           ) <mark>%></mark>
   </ControlPart>
</ui:InputField>
<script language="javascript" type="text/javascript">//<![CDATA[</pre>
   function validateUsername() {
       var value = this;
      var ret = /^\w+$/.exec(value);
       if (ret == null || ret.length == 0)
          return '<%= this.GetMetadata(".Username_Illegal").SafeJavascriptStringEncode() %>';
       return true;
   }//]]>
</script>
   Custom: custom validation, indicates the client function name.
   Server: server validation, here is the sample for server side:
      /// <summary>
       /// Verify the username is available
      /// </summary>
       /// <param name="username"></param>
       /// <param name="message"></param>
       /// <returns></returns>
       public JsonResult VerifyUniqueUsername(string username, string message)
      {
          try
          {
              bool isExist = false;
              return this.Json(new
                 @value = username,
                 @success = !isExist,
                 @error = isExist ? message : string.Empty
              });
          }
          catch (Exception ex)
              Logger.Exception(ex);
              return this.Json(new
                 @value = username,
                 @success = false,
                 @error = ex.Message
              });
          }
      }
```

### Be aware of the differences and choose the correct method

ToLowerInvariant()	ToLower()
ToUpperInvariant()	ToUpper()
<pre>string.Equals( a, b, StringComparison.InvariantCultureIgnoreCase)</pre>	string.Equals( a, b)
<pre>string.Format( CultureInfo.InvariantCulture, "{0}", arg1)</pre>	<pre>string.Format( "{0}", arg1)</pre>
StringBuilder sb = new StringBuilder();	<pre>StringBuilder sb = new StringBuilder();</pre>
<pre>sb.AppendFormat(CultureInfo.InvariantCulture, "{0}", arg1);</pre>	<pre>sb.AppendFormat( "{0}", arg1);</pre>
int a; string arg1;	int a; string arg1;
<pre>int.Parse( arg1, CultureInfo.InvariantCulture)</pre>	<pre>int.Parse( arg1 )</pre>
<pre>int.TryParse( arg1, NumberStyles.Integer, CultureInfo.InvariantCulture,</pre>	<pre>int.TryParse( arg1, out a)</pre>
out a)	
(same for decimal / double / long / DateTime / etc)	
decimal a = 103333.00M;	decimal a = 103333.00M;
a.ToString(CultureInfo.InvariantCulture)	a.ToString()
<pre>(same for int / double / long / DateTime / etc)</pre>	
Regex.IsMatch(input, pattern, RegexOptions.IgnoreCase	Regex.IsMatch(input, pattern, RegexOptions.IgnoreCase)
RegexOptions.CultureInvariant)	
SafeHtmlEncode()	
SafeJavascriptStringEncode()	
HtmlEncodeSpecialCharacters()	

# DIV+CSS layout basics

- 1. DIV+CSS layout must be compatible with IE7/8/9/10, Firefox, Chrome, Safari, Opera
- 2. When implementing frontend pages, keep native IE7(not simulated) opened along with Chrome for test
- 3. HTML must be Search-Engine-Friendly.
- 4. Avoid CSS hacker
- 5. CSS position knowledge
  - a) absolute element is placed relative to the nearest parent with relative or absolute positioning.
  - b) relative element is placed relative to the original position
  - c) **fixed** element is placed relative to the web browser viewport.
  - d) float element does not affect document flow.

# DIV+CSS samples

```
Element with fixed width to be horizontal-center aligned within container

<div style="width:200px; margin:0 auto;">

</div>
```