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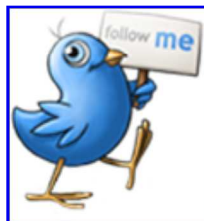
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Below is a fully functional asp.net mvc sample application project. Go ahead and download it, play with it, make suggestions, extend, etc. If you have any suggestions for improvements, just drop me a line...

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Using nHibernate, Castle ActiveRecord, and ASP.NET MVC Together

Posted on : 06-12-2009 | By : bill sternberger | In : [ASP.NET MVC](#), [ActiveRecord](#), [C#](#), [Environment Setup](#), [NHibernate](#)

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So this is my first post, with that this blog's objective: to post all the code shortcuts, how-to's, tips-tricks, etc. so they are handy whenever I need them. It always seems that at some point I need to do something that I did 5 projects ago, and forgot to save that snippet and can't quite find it!

For this entry, we're going to configure a new web application in the following sequence:

1. Create ASP.NET MVC 1.0 project in Visual Studio 2008
2. Copy and reference the required nHibernate dlls
3. Configure web.config
4. Initialize global.asax

Pre-requisites: If you haven't already installed MVC, go here: <http://www.asp.net/mvc/download/>.

Create ASP.NET MVC 1.0 project in Visual Studio 2008

1. Open Visual Studio 2008
2. Click "File" -> "New Project" and select "ASP.NET MVC Web Application" under the c# menu

Select your location, project name, etc.

Copy and reference the required nHibernate files and dlls

1. Download the latest ActiveRecord release here: <http://bit.ly/8HdvIU>

For detailed documentation on ActiveRecord, visit the Castle Project site here: <http://bit.ly/8pzxyb> and here: <http://bit.ly/8jzycs>.

2. Unzip, copy and then reference the following assemblies into your bin folder:

- Castle.ActiveRecord.dll
- Castle.Core.dll
- Castle.Components.Validator.dll
- Castle.DynamicProxy.dll
- NHibernate.dll
- Iesi.Collections.dll
- log4net.dll

Configure web .config

1. Add the following elements to configSections:

```
1 <section name="hibernate-configuration"
  type="NHibernate.Cfg.ConfigurationSectionHandler, NHibernate"/>
2 <section name="log4net"
  type="log4net.Config.Log4NetConfigurationSectionHandler, log4net" />
3 <section name="activeRecord"
  type="Castle.ActiveRecord.Framework.Config.ActiveRecordSectionHandler,
  Castle.ActiveRecord"/>
```

2. Add the following elements right after /configSections:

SQLServer 2005/2008

```
01 <hibernate-configuration xmlns="urn:nhibernate-configuration-2.2">
02 <session-factory>
03 <property name="dialect">NHibernate.Dialect.MsSql2005Dialect</property>
04 <property
  name="connection.provider">NHibernate.Connection.DriverConnectionProvider</property>
05 <property name="connection.connection_string">Server=localhost;initial catalog=
  <em>YOURDB</em>;uid=<em>YOURUSERNAME</em>;pwd=<em>YOURPASSWORD</em></property>
06 <property
  name="proxyfactory.factory_class">NHibernate.ByteCode.LinFu.ProxyFactoryFactory,
  NHibernate.ByteCode.LinFu</property>
07 <mapping assembly="<em>YOURASSEMBLY</em>" />
08 </session-factory>
09 </hibernate-configuration>
10
11 <activeRecord isWeb="true">
12 <config>
13 <add key="hibernate.dialect" value="NHibernate.Dialect.MsSql2005Dialect"/>
14 <add key="hibernate.connection.provider"
  value="NHibernate.Connection.DriverConnectionProvider"/>
15 <add key="hibernate.connection.connection_string" value="Server=localhost;initial
  catalog=<em>YOURDB</em>;uid=<em>YOURUSERNAME</em>;pwd=<em>YOURPASSWORD</em>" />
16 </config>
17 </activeRecord>
```

MySQL

```
01 <hibernate-configuration xmlns="urn:nhibernate-configuration-2.2">
02 <session-factory>
03 <property name="dialect">NHibernate.Dialect.MySQLDialect</property>
04 <property
  name="connection.provider">NHibernate.Connection.DriverConnectionProvider</property>
05 <property
  name="connection.driver_class">NHibernate.Driver.MySqlDataDriver</property>
06 <property name="connection.connection_string">Database=<em>YOURDB</em>;
  Server=localhost;User Id=<em>YOURUSERNAME</em>;Password=<em>YOURPASSWORD</em>
  </property>
07 <property name="show_sql">true</property>
08 <property name="hbm2ddl.keywords">none</property>
09 <property
  name="proxyfactory.factory_class">NHibernate.ByteCode.LinFu.ProxyFactoryFactory,
  NHibernate.ByteCode.LinFu</property>
10 <mapping assembly="<em>YOURASSEMBLY</em>" />
```

```

11 </session-factory>
12 </hibernate-configuration>
13
14 <activeRecord isWeb="true">
15 <config>
16 <add key="hibernate.connection.driver_class"
17   value="NHibernate.Driver.MySqlDataDriver" />
18 <add key="hibernate.dialect" value="NHibernate.Dialect.MySQLDialect" />
19 <add key="hibernate.connection.provider"
20   value="NHibernate.Connection.DriverConnectionProvider" />
21 <add key="hibernate.connection.connection_string" value="Database=<em>YOURDB</em>;
  Server=localhost;User Id=<em>YOURUSERNAME</em>;Password=<em>YOURPASSWORD</em>" />
22 </config>
23 </activeRecord>

```

For logging, you need to add the following elements, regardless of database type:

```

01 <log4net>
02 <appender name="NHibernateFileLog" type="log4net.Appender.RollingFileAppender">
03 <file value="Logs/nhibernate.txt" />
04 <appendToFile value="true" />
05 <rollingStyle value="Size" />
06 <maxSizeRollBackups value="10" />
07 <maximumFileSize value="100KB" />
08 <staticLogFileName value="true" />
09 <layout type="log4net.Layout.PatternLayout">
10 <conversionPattern value="%d{HH:mm:ss.fff} [%t] %-5p %c - %m%n" />
11 </layout>
12 </appender>
13 <appender name="GeneralLog" type="log4net.Appender.RollingFileAppender">
14 <file value="Logs/general.txt" />
15 <appendToFile value="true" />
16 <maximumFileSize value="100KB" />
17 <rollingStyle value="Size" />
18 <maxSizeRollBackups value="5" />
19 <layout type="log4net.Layout.PatternLayout">
20 <conversionPattern value="%d{HH:mm:ss.fff} [%t] %-5p %c - %m%n" />
21 </layout>
22 </appender>
23 <appender name="DataLog" type="log4net.Appender.RollingFileAppender">
24 <file value="Logs/data.txt" />
25 <appendToFile value="true" />
26 <maximumFileSize value="100KB" />
27 <rollingStyle value="Size" />
28 <maxSizeRollBackups value="5" />
29 <layout type="log4net.Layout.PatternLayout">
30 <conversionPattern value="%d{HH:mm:ss.fff} [%t] %-5p %c - %m%n" />
31 </layout>
32 </appender>
33 <!-- levels: DEBUG, INFO, WARN, ERROR, FATAL -->
34 <root>
35 <level value="DEBUG" />
36 <appender-ref ref="GeneralLog" />
37 </root>
38 <logger name="NHibernate" additivity="false">
39 <level value="DEBUG" />
40 <appender-ref ref="NHibernateFileLog" />
41 </logger>
42 <logger name="Pushable.Data" additivity="false">
43 <level value="DEBUG" />
44 <appender-ref ref="DataLog" />
45 </logger>
46 </log4net>

```

Initialize Global.asax

1. Open global.asax in code view

2. Add the following using statements:

```
1 using Castle.ActiveRecord;  
2 using Castle.ActiveRecord.Framework;
```

3. Update Application_Start so it looks like this:

```
1 protected void Application_Start()  
2 {  
3     RegisterRoutes(RouteTable.Routes);  
4  
5     IConfigurationSource source =  
6     System.Configuration.ConfigurationManager.GetSection("activeRecord") as  
7     Castle.ActiveRecord.Framework.IConfigurationSource;  
8     Assembly asm1 = typeof(<em>ONE OF YOUR ASSEMBLIES, I.E. CONTACT</em>).Assembly;  
9     ActiveRecordStarter.Initialize(new Assembly[] { asm1 }, source);  
10 }
```

That's it! So what we've done here is configure our environment, in upcoming posts, we'll dig into actual code and do some fun things with jQuery. Also, I'll be revisiting this post with some screenshots in the near future. Finally, if you know of better/more efficient ways to do some of these same tasks, I'm all ears!

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