

Re: TreeView Dynamic XML Binding

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.aspnet.webcontrols/2008-03/msg000>

- *From:* stcheng@xxxxxxxxxxxxxxxxxxxxxx (Steven Cheng [MSFT])
 - *Date:* Fri, 28 Mar 2008 02:25:41 GMT
-

Thanks for your reply Rich,

I'm glad that it also works on your side. For the new question, I've just had a quick look at the XmlDataSource through reflector. It seems the cache dependecny generation or Cache accessing won't quite rely on whether you change the DataFile path and you can keep programmtically assigning the path.

Sincerely,

Steven Cheng

Microsoft MSDN Online Support Lead

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From: "Rich Fowler" <RJF@xxxxxxxxxxxxxxxxxxxxxx>
Subject: Re: TreeView Dynamic XML Binding
Date: Thu, 27 Mar 2008 10:08:32 -0600

I thought I had tried Page_Init event but when I modified the code it worked, so obviously it was a different event I tried.

A followup question. Since I am setting the DataFile each time, will this

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invalidate the cache on the postback, causing another read of the file. Or is the cache based on the value in the DataFile property at the time of

data

access.

Thanks much, now I can remove all my PopulateOnDemand code.

Rich F.

"Steven Cheng [MSFT]" <stcheng@xxxxxxxxxxxxxxxxxxxxxx> wrote in message news:sGpXHX%23jIHA.6264@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Thanks for your reply Rich,

Not sure whether you have got further progress. Yes, I have repro the same error through the new XML data file you provided. Also, I've tested

using

the "Page_Init" event to dynamically add the data file for the XmlDataSource. It seems that when I put the file assigning code into Page_Init event handler, the exception disappeared. e.g.

```
protected void Page_Init(object sender, EventArgs e)
{
    XmlDataSource1.DataFile = "~/TreeView/data.xml";
}
```

I think the problem may due to the initializing steps and sequence at the server-side for the XmlDataSource and the TreeView control. You can also try this on your side to see whether it works. If so, I think this should be a much simpler solution.

Sincerely,

Steven Cheng

Microsoft MSDN Online Support Lead

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feel free to let my manager know what you think of the level of service provided. You can send feedback directly to my manager at: msdnmg@xxxxxxxxxxxxxxxx

Re: TreeView Dynamic XML Binding

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From: "Rich Fowler" <RJF@xxxxxxxxxxxxxxxxxx>
References:
<E25C0122-2976-4D54-8836-0B382773ED16@xxxxxxxxxxxxxxxxxx>

<a0e9b9da344298ca5ca0634b8a3a@xxxxxxxxxxxxxxxxxxxxxxxxxx>
<D0E82462-8CC5-4885-B8E0-D7747D7B4FDD@xxxxxxxxxxxxxxxxxx>
<N0LRVpvjIHA.1500@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>

In-Reply-To:
<N0LRVpvjIHA.1500@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
Subject: Re: TreeView Dynamic XML Binding
Date: Wed, 26 Mar 2008 08:53:42 -0600

Steven,

Sure, it is very simple. Most everything are the defaults. I do not

provide

any databinding because I have no control of the element names and do not know them in advance. I'm displaying the element name. At this point, I

do

not have a onselectednodechanged event, but when I do have one, it does

not

make any difference. The error occurs prior to reaching the Page_Load

event.

I've tried adding the TreeNodeDataBound event and setting the

e.Node.Value

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but that makes no difference.

aspx code:

```
<form id="form1" runat="server">
<div>
<asp:TreeView ID="cSchemaTree" runat="server"
DataSourceID="cSchemaXML" ExpandDepth="1">
</asp:TreeView>
<asp:XmlDataSource ID="cSchemaXML"
runat="server"></asp:XmlDataSource>
</div>
</form>
```

aspx.cs code:

```
public partial class SchemaTree : System.Web.UI.Page
{
protected void Page_Load()
{
cSchemaXML.DataFile =
@"D:\DotNet\TestData\TestXml.xml";
}
}
```

TestXml.xml file – extract from much larger file:

```
<Return Name="Return">
<returnVersion Name="Return/returnVersion" />
<ReturnHeader Name="Return/ReturnHeader">
<binaryAttachmentCount
```

Name="Return/ReturnHeader/binaryAttachmentCount"

```
/>
<Timestamp Name="Return/ReturnHeader/Timestamp" />
<TaxPeriodEndDate
Name="Return/ReturnHeader/TaxPeriodEndDate" />
<DisasterRelief
Name="Return/ReturnHeader/DisasterRelief" />
<ISPNumber Name="Return/ReturnHeader/ISPNumber" />
<PreparerFirm
Name="Return/ReturnHeader/PreparerFirm">
<EIN Name="Return/ReturnHeader/PreparerFirm/EIN" />
<PreparerFirmBusinessName
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmBusinessName">
<BusinessNameLine1
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmBusinessName/BusinessN
```

am

eLine1"

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```
</>
<BusinessNameLine2
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmBusinessName/BusinessN
am
eLine2"
/>
</PreparerFirmBusinessName>
<PreparerFirmUSAddress
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmUSAddress">
<AddressLine1
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmUSAddress/AddressLine1
"
/>
<AddressLine2
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmUSAddress/AddressLine2
"
/>
<City
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmUSAddress/City"
/>
<State
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmUSAddress/State"
/>
<ZIPCode
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmUSAddress/ZIPCode"
/>
</PreparerFirmUSAddress>
<PreparerFirmForeignAddress
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmForeignAddress">
<AddressLine1
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmForeignAddress/Address
Li
ne1"
/>
<AddressLine2
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmForeignAddress/Address
Li
ne2"
```

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```
</>  
<City  
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmForeignAddress/City"
```

</>

```
<ProvinceOrState  
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmForeignAddress/Provinc
```

eO

rState"

```
</>  
<Country  
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmForeignAddress/Country
```

"

```
</>  
<PostalCode  
Name="Return/ReturnHeader/PreparerFirm/PreparerFirmForeignAddress/PostalC
```

od

e"

```
</>  
</PreparerFirmForeignAddress>  
</PreparerFirm>  
</ReturnHeader>  
</Return>
```

Notes: The test xml file is not in the website folder as in your code.

Everything works if I set the DataFile in the XmlDataSource control. Does not work when I dynamically set the DataFile in the Page_Load.

To reproduce the error:
Open web page.
Expand the ReturnHeader node.
Click the Timestamp node.
The null reference error is displayed.

Notes: To get the error, you need to expand a node and click on one of

the

Re: TreeView Dynamic XML Binding

elements in the expanded node.

Thanks – Rich F.

"Steven Cheng [MSFT]"

<stcheng@xxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:N0LRVpvjIHA.1500@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Hi Rich,

As for the TreeView page, would you provide some further information,

such

as the TreeView aspx template and attributes you set. I have created a simple test page (paste page source below) and didn't encounter the

same

behavior. I'm wondering whether there is anything else cause the problem. Here is my test page

#use the sample xml file you provided in first message

====aspx template====

```
<div>
<asp:XmlDataSource
ID="XmlDataSource1" runat="server"
></asp:XmlDataSource>
<asp:TreeView ID="tv" runat="server"
DataSourceID="XmlDataSource1"
AutoGenerateDataBindings="False"
ExpandDepth="1"
onselectednodechanged="Unnamed1_SelectedNodeChanged">
<DataBindings>
<asp:TreeNodeBinding
ValueField="FullPath"
TextField="FullPath"
DataMember="Company" Depth="0" />
<asp:TreeNodeBinding
DataMember="Name" Depth="1"
TextField="FullPath"
ValueField="FullPath" />
<asp:TreeNodeBinding
DataMember="Address" Depth="1"
```

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```
TextField="FullPath"
ValueField="FullPath" />
<asp:TreeNodeBinding
DataMember="USAddress" Depth="2"
TextField="FullPath"
ValueField="FullPath" />
<asp:TreeNodeBinding
DataMember="ForeignAddress"
Depth="2"
TextField="FullPath"
ValueField="FullPath" />
<asp:TreeNodeBinding
DataMember="Street" Depth="3"
TextField="FullPath"
ValueField="FullPath" />
<asp:TreeNodeBinding DataMember="City"
Depth="3"
TextField="FullPath"
ValueField="FullPath" />
<asp:TreeNodeBinding
DataMember="ZipCode" Depth="3"
TextField="FullPath"
ValueField="FullPath" />
</DataBindings>
</asp:TreeView>
```

```
</div>
```

```
=====code behind=====
```

```
public partial class
TreeView_TreeViewPage :
System.Web.UI.Page
{
protected void Page_Load(object sender,
EventArgs e)
{
XmlDataSource1.DataFile =
"~/TreeView/data.xml";
}
protected void
Unnamed1_SelectedNodeChanged(object
sender, EventArgs
```

e)

```
{
Response.Write("<br/>Unnamed1_SelectedNodeChanged:
" +
tv.SelectedNode.Text);
```

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}
}

=====

Please let me know if there is anything I've missed.

BTW, by monitoring the browser http traffic, I get that the node expanding(without postback) is not using ajax. I think the page should have already loaded the nodes in response html and just use script to

display

them when you expanding nodes. Also, if you think the Page_load event is the problem, you can try put the Xml file path setting code into the "Page_Init" or "Page_PreInit" event to see whether the behavior

changes.

Sincerely,

Steven Cheng

Microsoft MSDN Online Support Lead

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Please

feel free to let my manager know what you think of the level of service provided. You can send feedback directly to my manager at:
msdnmg@xxxxxxxxxxxxxxxx

=====

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Re: TreeView Dynamic XML Binding

<http://msdn.microsoft.com/subscriptions/managednewsgroups/default.aspx#notif>

ications.

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where an initial response from the community or a Microsoft Support Engineer within 1 business day is acceptable. Please note that each

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=====
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From: "Rich Fowler"
<RJF@xxxxxxxxxxxxxxxxxx>
References:
<E25C0122-2976-4D54-8836-0B382773ED16@xxxxxxxxxxxxxxxx>

Re: TreeView Dynamic XML Binding

<a0e9b9da344298ca5ca0634b8a3a@xxxxxxxxxxxxxxxxxxxxxxxx>

In-Reply-To:

<a0e9b9da344298ca5ca0634b8a3a@xxxxxxxxxxxxxxxxxxxxxxxx>

Subject: Re: TreeView

Dynamic XML Binding

Date: Tue, 25 Mar 2008

17:01:19 -0600

David,

Thanks – quick and great response.

It actually addressed one issue I was interested in and that is

turnning

off

the postback at all nodes and expand/collapse images.

This opens up my research into the use of the other events. Implementing as you suggest removed the error.

However, it is not exactly the result I was looking

for.

I want the Expand/Collapse action to happen on the client but the

Select

action to be a postback. This works fine when I explicitly set the

DataFile

on the aspx page, as in your code below. However, when

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I dynamically

set

the

DataFile in the Page_Load,
the postback generates the
null reference

error

when clicking the tree node.
Any suggesting into what is
causing this?

Your response brings up a
side question. When I
implemented it and
debug

on

the TreeNodeDataBound
event, it fires when
expanding. Is this using
AJAX?

I'm moving directly from
.NET 1.1 to 3.5, so much of
this is new to me.

Thanks again.

"David R. Longnecker"

<dlongnecker@xxxxxxxxxxxxxxxxxxx>

wrote in message

news:a0e9b9da344298ca5ca0634b8a3a@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Rich-

If I
understand
correctly,
you're
trying to
create a
TreeView
based
off

of

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an XML file
and retain
the
expand/collapse
functionality
but AVOID

the

postbacks
and flicker,
correct?

You can do
this by
setting the
SelectAction
to Expand
when you
databind
your nodes.
Here's some
sample code
I whipped
up using
your XML:

aspx:

```
<asp:TreeView
ID="CompanyTreeXml"
runat="server"
DataSourceID="CompanyXml"
ExpandDepth="1"
EnableClientScript="true"
PopulateNodesFromClient="true"
ontreenodedatabound="CompanyTreeXml_TreeNodeDataBound">
</asp:TreeView>
<asp:XmlDataSource
ID="CompanyXml"
runat="server"
DataFile="~/Company.xml">
</asp:XmlDataSource>
```

code-behind:

```
protected
void
CompanyTreeXml_TreeNodeDataBound(object
sender,
```

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```
TreeNodeEventArgs  
e)  
{  
e.Node.SelectAction  
=  
TreeNodeSelectAction.Expand;  
}
```

At this point, CSS or a NodeStyle would be required because the

TreeView

generates any Expandable node as a hyperlink and any non-expanding node

as

as plain text.

Since EnableClientScript is still enabled, the control generates the according JavaScript and the Expand links do not fire postbacks. By default, I think, the TreeNodeSelectAction is set to

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Select, not

Expand,

which fires
the
SelectedNodeChanged
event.

Hope this
helps!

-dl

--

David R.
Longnecker
<http://blog.tiredstudent.com>

I'm
dynamically
binding
an
XmlDataSource
to
an
xml
file
in
the
Page_Load
event.
This
XmlDataSource
control
is
the
DataSourceID
for

a

TreeView
control.
I'm
receiving
a
null
reference
error

Re: TreeView Dynamic XML Binding

prior
to
entering
the
Page_Load
event
when
selecting
a
tree
text
value.

Page_Load
code
snippet:
cSchemaXML.DataFile
=
@"D:\Schemas\2008\Schema_Tree.xml";

Note:
The
file
path
above
will
be
calculated
once

I
get
it
working.

This
is
for
testing
only.

The
code
is
not
in
a
!this.IsPostBack
conditional.

Aspx
page
snippet:
<asp:TreeView
ID="cSchemaTree"

Re: TreeView Dynamic XML Binding

```
runat="server"  
DataSourceID="cSchemaXML"  
ExpandDepth="1">  
</asp:TreeView>  
<asp:XmlDataSource  
ID="cSchemaXML"  
runat="server"></asp:XmlDataSource>
```

When

I

click

on

the

tree

node

(not

the

Expand

icon)

for

the

select

processing,

a

null

reference

error

(see

below)

is

displayed.

The

only

way

I

can

get

this

to

work

without

a

the

error

is

to

disable

client

side

code:

Re: TreeView Dynamic XML Binding

EnableClientScript="False"
I
prefer
not
to
suffer
the
flashing
and
time
required
during
postbacks.
I'm
simply
trying
to
display
the
xml
element
tree
structure.
The
xml
being
displayed
is
nested
elements,
each
containing
one
attribute.
If
I
set
the
DataFile
in
the
XmlDataSource
control
directly,
everything
works
fine.
Do
I
need
to

Re: TreeView Dynamic XML Binding

set
DataFile
someplace
other
than
in
the
Page_Load
event?
Some
other
solution?

Note:
If
I
click
a
tree
node
that
is
part
of
the
initial
display
(based
on
the
ExpandDepth
setting)
I
do
not
get
the
error
until
I
expand
the
tree
and
then
click
the
node
(or
one
of

Re: TreeView Dynamic XML Binding

the
expanded
nodes).
This
may
indicate
some
variance
between
the
viewstate
and

the

returned
tree
structure
(only
a
guess).

Sample
XML

–
the
actual
xml
is
much
more
complex
and
nested
much
deeper,
but
this
gives
the
idea.

```
<Company  
FullPath="Company">  
<Name  
FullPath="Company/Name"/>  
<Address  
FullPath="Company/Address">  
<USAddress  
FullPath="Company/Address/USAddress">  
<Street
```

Re: TreeView Dynamic XML Binding

```
FullPath="Company/Address/USAddress/Street"
/>
<City
FullPath="Company/Address/USAddress/City"/>
<State
FullPath="Company/Address/USAddress/State"
/>
<ZipCode
FullPath="Company/Address/USAddress/ZipCode"
/>
</USAddress>
<ForeignAddress
FullPath="Company/Address/ForeignAddress"
>
<Street
FullPath="Company/Address/USAddress/Street"
/>
<City
FullPath="Company/Address/USAddress/City"/>
<StateOrProvince
FullPath="Company/Address/USAddress/StateOrProvince"
/>
<PostalCode
FullPath="Company/Address/USAddress/PostalCode"
/>
<Country
FullPath="Company/Address/ForeignAddress/Country"
/>
</ForeignAddress>
</Address>
</Company>
```

The
error
returned
when
clicking
the
tree
node
is:

Server
Error
in
'
Application.

Re: TreeView Dynamic XML Binding

Object
reference
not
set
to
an
instance
of
an
object.

Description:

An
unhandled
exception
occurred
during
the
execution
of
the
current
web
request.

Please
review
the
stack
trace
for
more
information
about
the
error
and
where
it
originated
in
the
code.

Exception

Details:

System.NullReferenceException:

Object
reference
not
set
to
an

Re: TreeView Dynamic XML Binding

instance
of
an
object.

Source
Error:

An
unhandled
exception
was
generated
during
the
execution
of
the
current
web
request.
Information
regarding
the
origin
and
location

of

the
exception
can
be
identified
using
the
exception
stack
trace
below.

Stack
Trace:

[NullReferenceException:
Object
reference
not
set
to

Re: TreeView Dynamic XML Binding

an
instance
of
an
object.]
System.Xml.XmlLoader.Load(XmlDocument
doc,
XmlReader
reader,
Boolean
preserveWhitespace)
+24
System.Xml.XmlDocument.Load(XmlReader
reader)
+96

System.Web.UI.WebControls.XmlDataSource.PopulateXmlDocument(XmlDocumen

t
document,
CacheDependency&
dataCacheDependency,
CacheDependency&
transformCacheDependency)
+305
System.Web.UI.WebControls.XmlDataSource.GetXmlDocumen
+154
System.Web.UI.WebControls.XmlHierarchicalDataSourceVi
+14
System.Web.UI.WebControls.TreeView.DataBindNode(Tree
node)
+126
System.Web.UI.WebControls.TreeView.PopulateNode(Tree
node)
+27
System.Web.UI.WebControls.TreeView.LoadPostData(String
postDataKey,
NameValueCollection
postCollection)
+1082

System.Web.UI.WebControls.TreeView.System.Web.UI.IPostBackDataHandler.

LoadPostData(String
postDataKey,
NameValueCollection
postCollection)

Re: TreeView Dynamic XML Binding

+11

System.Web.UI.Page.ProcessPostData(NameValueCollection
postData,

Boolean

fBeforeLoad)

+661

System.Web.UI.Page.ProcessRequestMain(Boolean
includeStagesBeforeAsyncPoint,

Boolean

includeStagesAfterAsyncPoint)

+1194

Thanks

for

any

help

-

Rich

F.