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Using Single Validator for Multiple Controls



Brij, 5 Mar 2010



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This trick is very useful if we have multiple controls. Then we can use only one validator control to validate it. It will reduce the page size dramatically and improve the performance because every validator is rendered as span on the page and a page can contain hundreds of controls which makes...

This trick is very useful if we have multiple controls. Then we can use only one validator control to validate it. It will reduce the page size dramatically and improve the performance because every validator is rendered as span on the page and a page can contain hundreds of controls which makes the page very heavy.

So in my example, I have several textboxes(Dynamically created) and I am using only one custom validator for this.

My markup(aspx) page is:

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I am associating the validator from server side on onfocus event of the Textboxes from server side as:

and I have Hookup HookUpControl like:

```
function HookUpControl(curObj,validatorClientID)
{
    var validationControl = document.getElementById(validatorClientID);
    validationControl.controltovalidate = curObj.id;
    validationControl.clientvalidationfunction="validateextbox";
    validationControl.validateemptytext = "true";
    ValidatorHookupControl(curObj, validationControl);
}
```

and I have client validation function as:

function validatetextbox(sender, args)
{
 if(args.Value=="")
 {
 sender.errormessage="Required Field Missing
This is required.";
 sender.innerHTML="Required Field Missing
This is required.";
 args.IsValid = false;
 return;
 }
 if(isNaN(args.Value))
 {
 sender.errormessage="Invalid field
Only Numbers are alowed.";
 sender.innerHTML="Invalid field
Only Numbers are alowed.";

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```
args.IsValid = false;
return;
}
if(Number(args.Value)< 1000)
{
    sender.errormessage="<b>value can not be less than 1000</b><br />This is required.";
    sender.innerHTML="<b>value can not be less than 1000</b><br />This is required.";
    args.IsValid = false;
    return;
}
```

Here in this trick, the main role is played by ValidatorHookupControl(cur0bj, validationControl) which is responsible for attaching the validator to the control.

I hope this will help a lot to improve the performance of the page for all.

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About the Author







Software Developer (Senior)

Follow this Member Brij is a 3-times Microsoft MVP in ASP.NET/IIS Category and a passionate .NET developer. More than 6 years of experience in IT field, currently serving a MNC as a Tech Lead/Architect.

He is a very passionate .NET developer and have expertise over Web technologies like ASP.NET 2.0/3.5/4.0, jQuery, JSON, Javascript, IIS and related technologies. He is also a Exchange Server (EWS) Specialist. He has great experience in design patterns and N-Tier Architecture.

He is also certified as Microsoft Certified Technologies Specialist-ASP.NET and Microsoft Certified Technologies Specialist-WCF in .NET 4.0. He has also received several awards at various forums and his various articles got listed as "Article of the day" at ASP.NET Microsoft Official Website www.asp.net.

He has done MCA from NIT Durgapur and completed his graduation from Lucknow University.

Learning new technologies and sharing knowledge excites him most. Blogging, solving problems at various forums, helping people, keeps him busy entire day.

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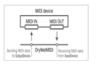
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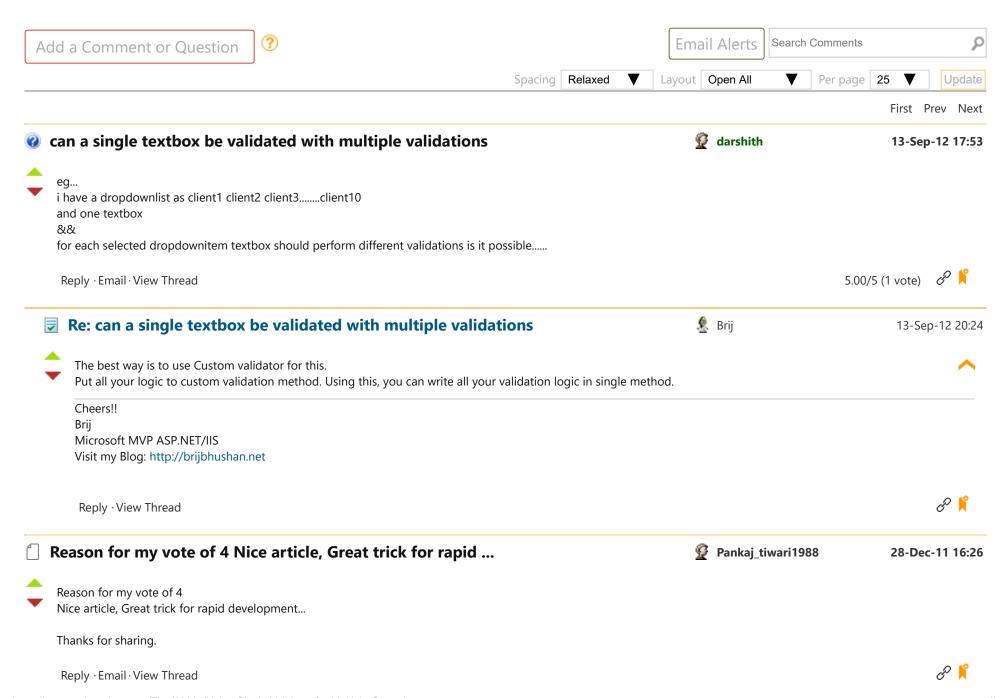


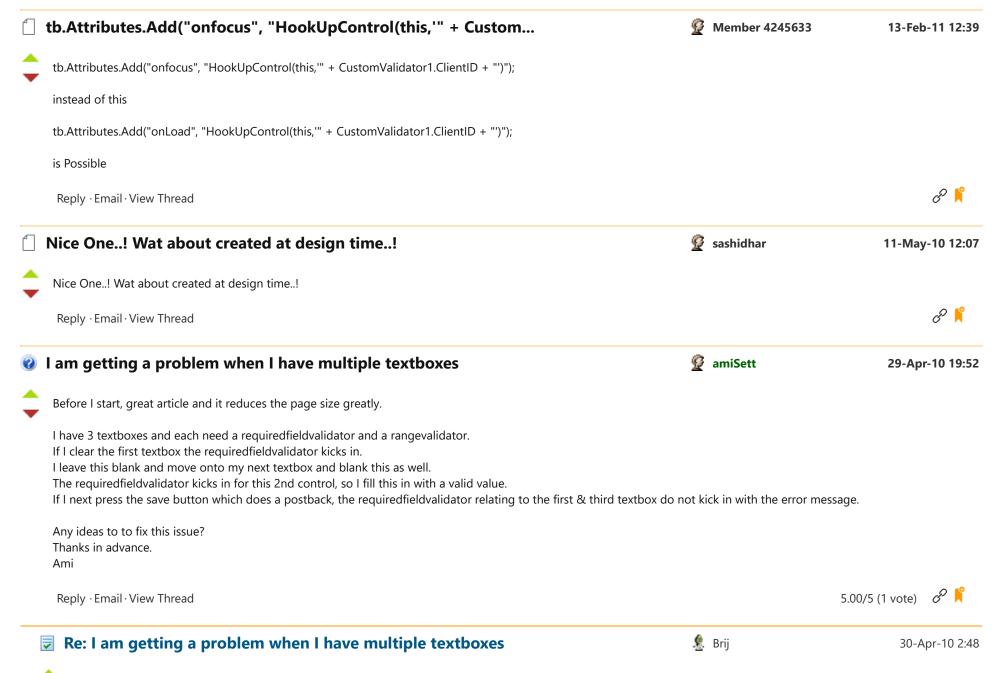
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Comments and Discussions







First one thing I just want to suggest, use single validator ie custome validator instead of requiredfieldvalidator and a rangevalidator and check both in validation function.

Another thing, at a time validator can validate only one control, so if you leave a control unvalidated and as you we are attching validator onfocus so unvalidated control will not be validated, so better if a user focusessome control the s/he should not be allowed to move on without entering proper validated, that's what I did in my project. I have also explained it in detail in my article Exploring ASP.NET Validators with few case studies. Hope it'll help you.

Cheers!!

Brij

Check my latest Article: Exploring ASP.NET Validators

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Re: I am getting a problem when I have multiple textboxes



1-May-10 4:20



Thanks for the reply.

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So how would you validate this on the server side?



ValidatorHookupControl



9-Mar-10 15:09



Where is the code for ValidatorHookupControl()?

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Re: ValidatorHookupControl





9-Mar-10 15:35



ValidatorHookupControl() is not a custom function that we need to write. It is provided by ASP. NET itself. Actually when we add some validator control on our page a is file is also included in the application that is used by the validator control to perform its functionality. And this is the function responsible for attaching the validators to the controls, used by the page. Here what I did I took the help of this inbuilt function and attached the validator dynamically to multiple controls.



Hope it'll clear your doubt.

Cheers!!

Brij

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Nice. But, I will Prefer VAB (Validation Application Block)



🤼 Abhijit Jana

26-Feb-10 14:11

