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.NET TIPS AND TRICKS

BY PETER VOGEL

Integrating Ajax and Partial Views in ASP.NET MVC

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In previous [columns](#), I've discussed options in assembling your View from a set of partial Views. However, in all of those examples, I've been assembling a View on the server in response to a request from the client.

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The cool thing is that you can also return partial Views to Ajax calls. Here's a getJson call to a ASP.MVC Controller's Action method that expects to get back a set of HTML that it inserts into a page's div element:

```
$.ajax({  
    data: InfoAndData,  
    datatype: "text/plain",  
    type: "POST",  
    url: 'MyController/MyAction',  
    cache: false,  
    success: function (data) {  
        $('#divDisplay').html(data);  
    }  
});
```



```
}  
});
```

The Action method, accepts the data from the Ajax call in the same way as it does any other request but uses the PartialView method to trigger processing of the partial View and have the resulting HTML sent to the client:

```
Public Function MyAction(InfoAndData As InfoClass) As ActionResult  
    ... code to retrieve data based on values in InfoAndData ...  
    ... load results ...  
    Return PartialView("MyView", results)  
End Function
```

There are lots of things to like about this approach -- having your HTML generated in a View is consistent with the way that the rest of your HTML is created. You also have access to all of Razor's tools for creating HTML (including localization). Finally, of course, your client-side code is reduced because you don't have to write the code to insert each data item into the page.

But there are at least two things to dislike: The payload being returned (HTML + data) is almost certainly going to be larger than the equivalent JSON object holding just the relevant data. The cycles required to generate the HTML may or may not be equivalent to cycles required to insert the data/set up the HTML on the client.

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However, the server-side cycles are on a shared resource while the client-side cycles are on the user's computer. Using server-side cycles makes your application less scalable (personally, I feel that the user's computer should be regarded as free, unlimited resource that should be exploited *mercilessly*).

For me, I like using partial Views enough (and regard the costs of sending partial views as sufficiently low) that I frequently use this technique.

Posted by Peter Vogel on 06/30/2015 at 10:32 AM

Microsoft Ships 5th Previews of .NET 5, Entity Framework Core 5

Microsoft today announced the fifth previews of .NET 5.0 and Entity Framework Core 5.0 en route to a November general release date, though not all of the planned functionality will be finalized by then because of the COVID-19 pandemic.



VS Code Go Language Extension Goes from Microsoft to Google

Citing the need for "more maintenance and support," Microsoft and Google have announced that further development of the Microsoft-led Go programming language extension for Visual Studio Code has been taken over by Google.



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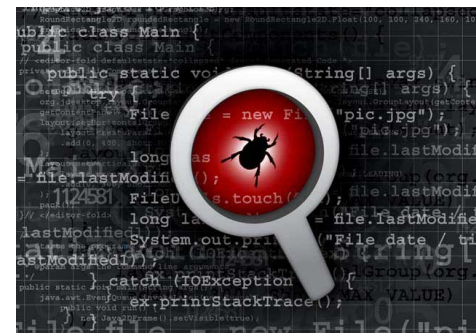
VS Code May 2020 Update Features Tips, Remote Development Talks from Build

While announcing the usual plethora of new and improved features and functionality in the May 2020 update of the open source, cross-platform Visual Studio Code editor, the dev team included a new twist: talks on tips and tricks, remote development, and the history of VS Code presented in the recent Build 2020 developer conference.

//build/

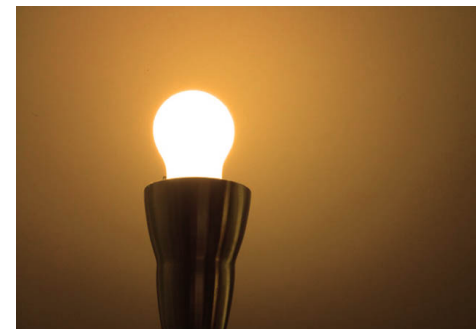
.NET Core Update Fixes Denial-of-Service Vulnerability

Microsoft cranked out June 2020 updates to .NET Core 3.1 (and 2.1) to address a denial-of-service (DoS) vulnerability.



Getting Started with PyTorch 1.5 on Windows

Dr. James McCaffrey of Microsoft Research uses a complete demo program, samples and screenshots to explain how to install the Python language and the PyTorch library on Windows, and how to create and run a minimal, but complete, neural network classifier.



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