



Visual Studio **LIVE!** | San Diego
EXPERT SOLUTIONS FOR .NET DEVELOPERS

ASP.NET Razor Pages and the MVVM Pattern

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Code Again for
the First Time!

Visual Studio **25**
YEARS OF CODING INNOVATION



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In truth, he's just a big kid. He loves designing systems that solve real world problems. There is nothing more satisfying than seeing something you helped develop being used by the end users. Ben is also involved in the technology community and runs the South Colorado .NET user group. He also enjoys speaking at tech groups and events around the country.



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Agenda

- What are ASP.NET Razor Pages?
- Why Razor pages?
- Intro to Razor Pages
- Quick review of MVVM vs. MVC
- Deeper Dive into Razor Pages with MVVM



What are ASP.NET Razor Pages?



Razor pages are...

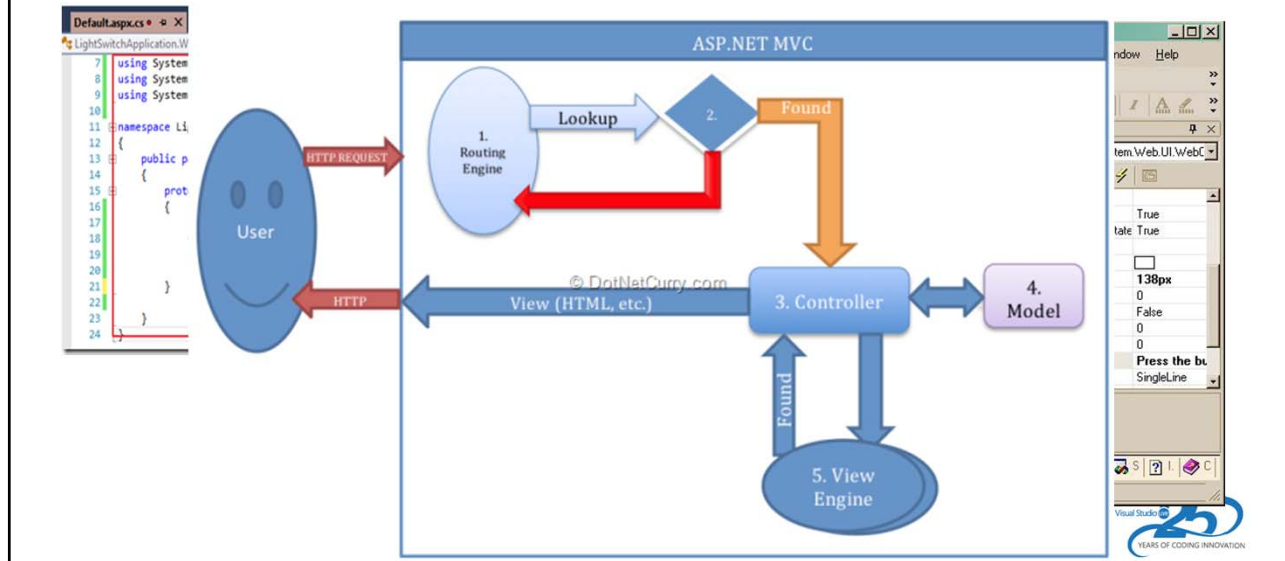
- New to ASP.NET Core
- Built on ASP.NET MVC
- Not a replacement for MVC
- An easy way to create a page based website.
- Create pages without worrying about controllers, views, routing, etc...



Why Razor Pages?



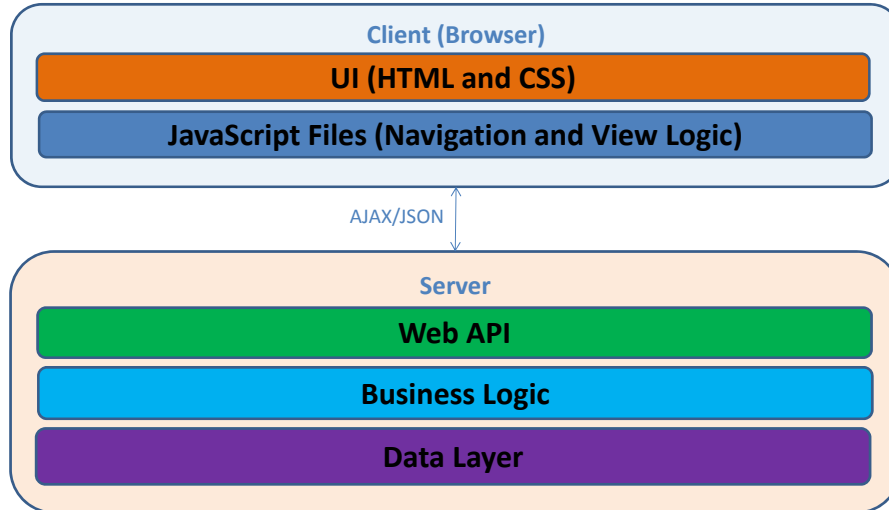
Web Forms are Weird, MVC is Complex



Atwood's Law 2007:

“Any application that
can be written in
JavaScript, *will*
eventually be written in
JavaScript. ”

Single Page Applications (SPA)



Keep it Simple

- Currently there is no simple way to build a frontend with only HTML, CSS and .NET.
- Most developers turn to JavaScript frameworks like Angular.



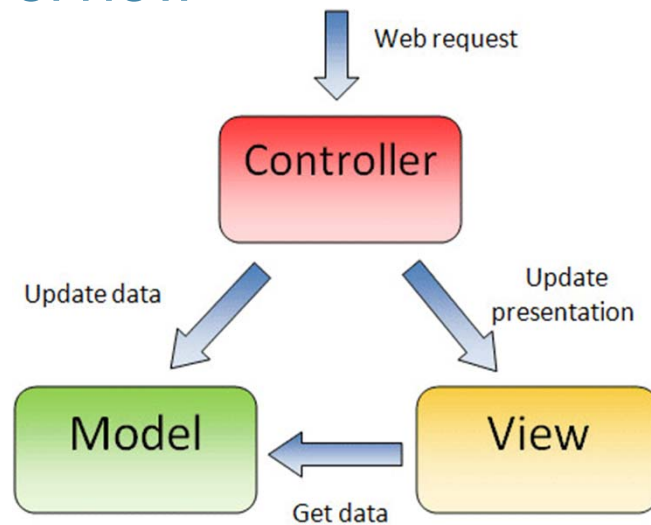
Demo Razor Pages



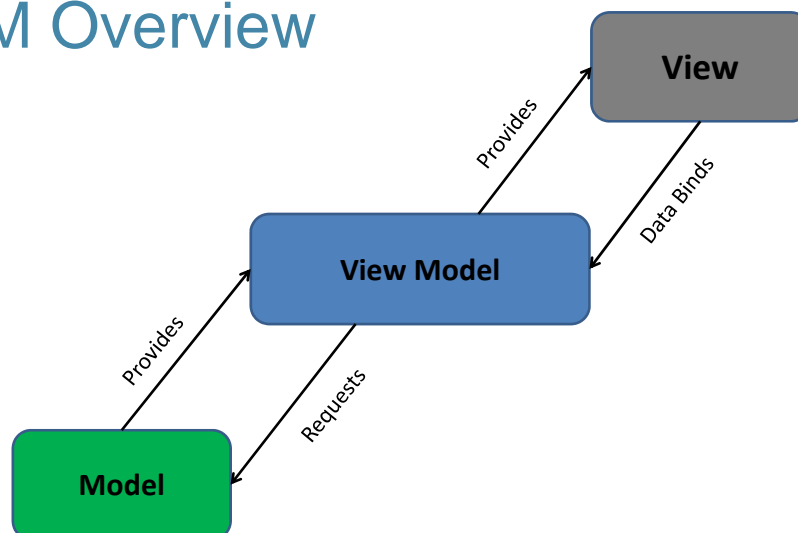
MV What?



MVC Overview



MVVM Overview



MVC vs. MVVM

- MVC is well suited for stateless applications like websites built using server side technologies (ASP.NET MVC)
- MVVM is well suited for stateful applications.
- MVVM uses two way binding to separate the View logic from the code.



Deeper Dive Into Razor Pages and MVVM



Razor Pages Summary

Razor Pages Are A Simple Web Frontend For .NET

The Razor syntax has become a popular way to combine HTML and C#. Razor pages make it easier to use Razor to create a website.

ASP.NET MVC Takes Time to Understand

Before Razor pages ASP.NET MVC was the only way to use Razor to build a website. ASP.NET MVC has a high learning curve even if you are familiar with the MVC pattern.

Razor Pages and MVVM Make a Great Team

Many ASP.NET MVC websites use makeshift MVVM patterns. Razor pages provide a better way to implement the MVVM pattern.

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Resources:

- <http://msdn.microsoft.com/en-us/magazine/mt842512.aspx>
- <http://stackify.com/asp-net-razor-pages-vs-mvc/>
- <http://docs.microsoft.com/en-us/aspnet/core/mvc/razor-pages/?tabs=visual-studio>
- <http://gunnarpeipman.com/2017/05/razor-pages>



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A handwritten signature in black ink that reads "Ben A. Hoelting".

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