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Fall in love with ASP.NET MVC Testable Dynamic Web Applications with .NET



Mario Szpuszta

Senior Architect Enterprise Services Microsoft Austria

marioszp@microsoft.com http://blogs.msdn.com/mszcool



What is ASP.NET MVC?

- Implementation of MVC for ASP.NET
- Not a big deal, is it?
 Simple, yet powerful
 - allows to focus









How does it work, what does it mean?

How does it relate to other ASP.NET parts?

Why should we care? What's it's benefits?



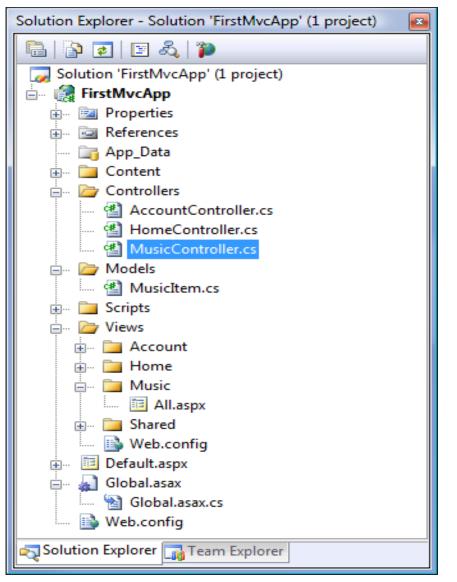
MVC: What it means for us...





Default Behavior of ASP.NET MVC

- Convention over configuration
 - Special folders
 - Naming of items
- Less error-prone







So what does it mean?

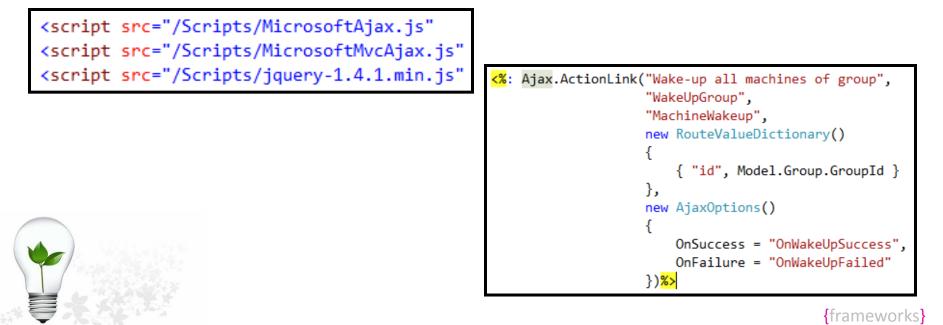
Think in controllers & actions (not pages and links)





Controllers, Actions and AJAX?

- You have full control on HTML
 - Can use any pure JavaScript-library you want
 - ASP.NET MVC documentation prefers jquery
- Server-side AJAX very "light-weight"
 - Calling controller actions & processing results





So what does it mean?

Think in HTTP-verbs and URIs. (not just request and response)





So what does it mean?

Clearly separate concerns. Keep things simple and small!





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ASP.NET – Core Architecture

• All based on existing foundation





Using ASP.NET Foundations

- You can re-use anything
 - As long as it is not "handler-specific"
- HttpModules, Request/Response etc.
- Cache, Session, Application
- Master pages, content pages
- Security, Forms/Memberhsip/Roles
- Profiles, site maps, localization





How does it work, what does it mean?

How does it relate to other ASP.NET parts?

Why should we care? What's it's benefits?

The key-benefits are:

- Frictionless Testability
- Tight control over <markup>
- User/SEO friendly URLs
- Leverage the benefits of ASP.NET
 - **Conventions and Guidance**









MVC Workings – Clean URLs

- REST-like
 - /products/update– /blog/posts/2008/08/12/mvc-is-cool
- Friendlier to humans
 - Hack /product.aspx?categoryid=123 to become
 - more beautiful /products/kittens/
- Friendlier to web crawlers
 - Search engine optimization (SEO)



Testability and ASP.NET MVC

- Test controllers directly in unit-tests
 - It's just functionality
 - Controller never writes response directly
 - All results of a controller are *intentions*
- Key-requirement: separation of concerns
 - ASP.NET MVC allows SoC, but we write the code
- Mock if e.g. accessing session & co
 - Rhino <u>http://ayende.com/projects/rhino-mocks/downloads.aspx</u>
 - Moq library <u>http://code.google.com/p/moq/</u>



How does it work, what does it mean?

How does it relate to other ASP.NET parts?

Why should we care? What's it's benefits?



The 3 Key Answers...

Think in controllers, actions and HTTP-verbs!

Built on of ASP.NET foundation, so leverage it!

Separation of concerns, nice URLs, testing!



Resources and Links

- <u>www.asp.net/mvc</u>
- http://channel9.msdn.com/search?term=MVC&x=0&y=0
- <u>http://mvcmusicstore.codeplex.com/</u>
- <u>http://nerddinner.codeplex.com/</u>
- <u>http://www.hanselman.com/blog</u>
- http://www.hanselman.com/blog/ASPNETMVCPreview3.aspx
- <u>http://blogs.msdn.com/mszcool</u>





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Thank You!

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