LEARNING

asp.net-mvc-4

#asp.net-

mvc-4

Table of Contents

About

You can share this PDF with anyone you feel could benefit from it, downloaded the latest version from: asp-net-mvc-4

It is an unofficial and free asp.net-mvc-4 ebook created for educational purposes. All the content is extracted from Stack Overflow Documentation, which is written by many hardworking individuals at Stack Overflow. It is neither affiliated with Stack Overflow nor official asp.net-mvc-4.

The content is released under Creative Commons BY-SA, and the list of contributors to each chapter are provided in the credits section at the end of this book. Images may be copyright of their respective owners unless otherwise specified. All trademarks and registered trademarks are the property of their respective company owners.

Use the content presented in this book at your own risk; it is not guaranteed to be correct nor accurate, please send your feedback and corrections to info@zzzprojects.com

Chapter 1: Getting started with asp.net-mvc-4

Remarks

This section provides an overview of what asp.net-mvc-4 is, and why a developer might want to use it.

It should also mention any large subjects within asp.net-mvc-4, and link out to the related topics. Since the Documentation for asp.net-mvc-4 is new, you may need to create initial versions of those related topics.

Examples

Installation or Setup

Detailed instructions on getting asp.net-mvc-4 set up or installed.

What are new features in MVC 4? Why to use MVC 4?

The fourth version of the framework focuses mainly on making mobile web application development easier.

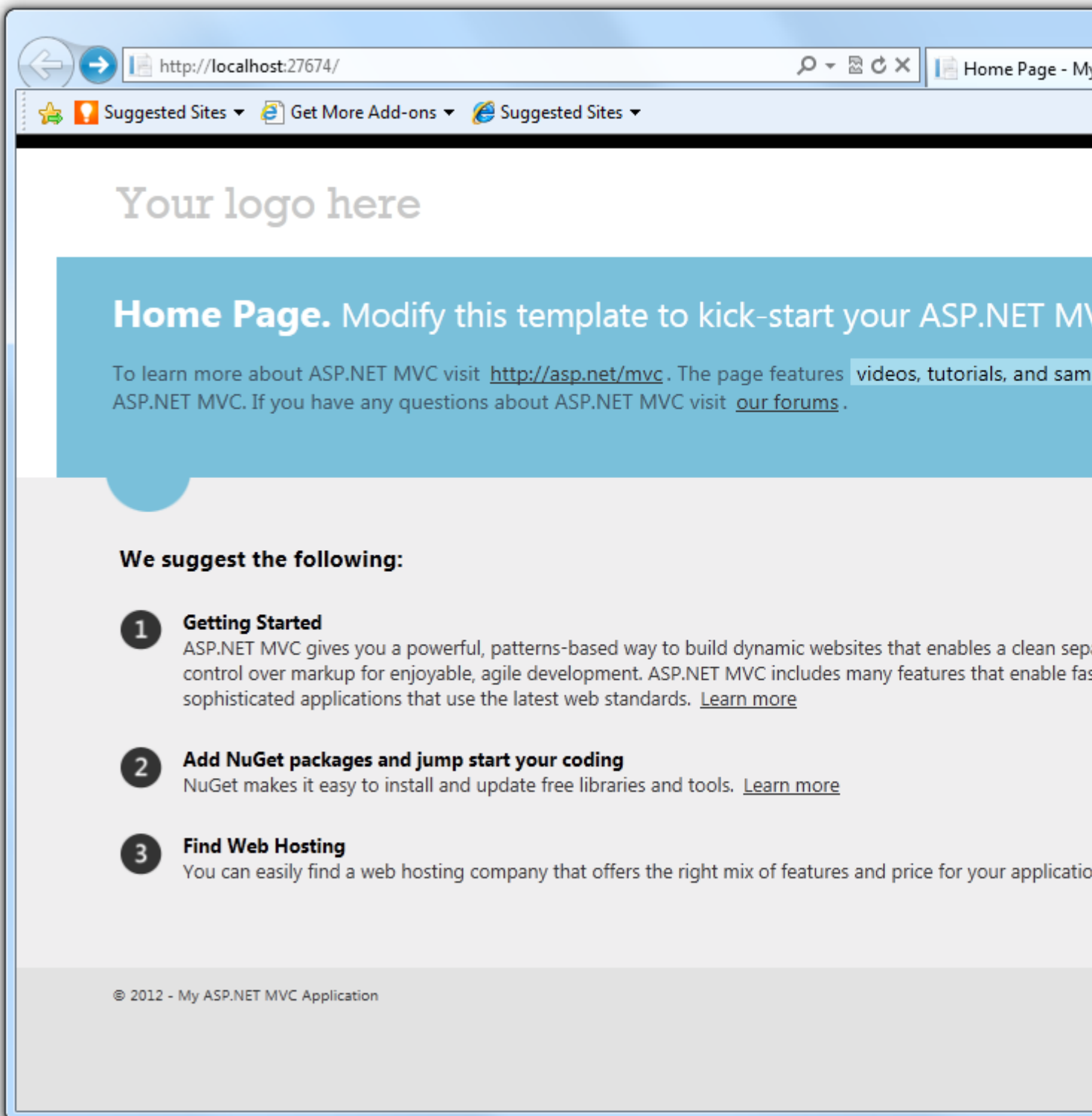**New features in AP.NET MVC 4**

1. **ASP.NET Web API**

ASP.NET Web API is a framework that makes it easy to build HTTP services that reach a broad range of clients, including browsers and mobile devices.

HTTP is not just for serving up web pages. It is also a powerful platform for building APIs that expose services and data. Almost any platform that you can think of has an HTTP library, so HTTP services can reach a broad range of clients, including browsers, mobile devices, and traditional desktop applications.

ASP.NET Web API is an ideal platform for building RESTful applications on the .NET Framework.

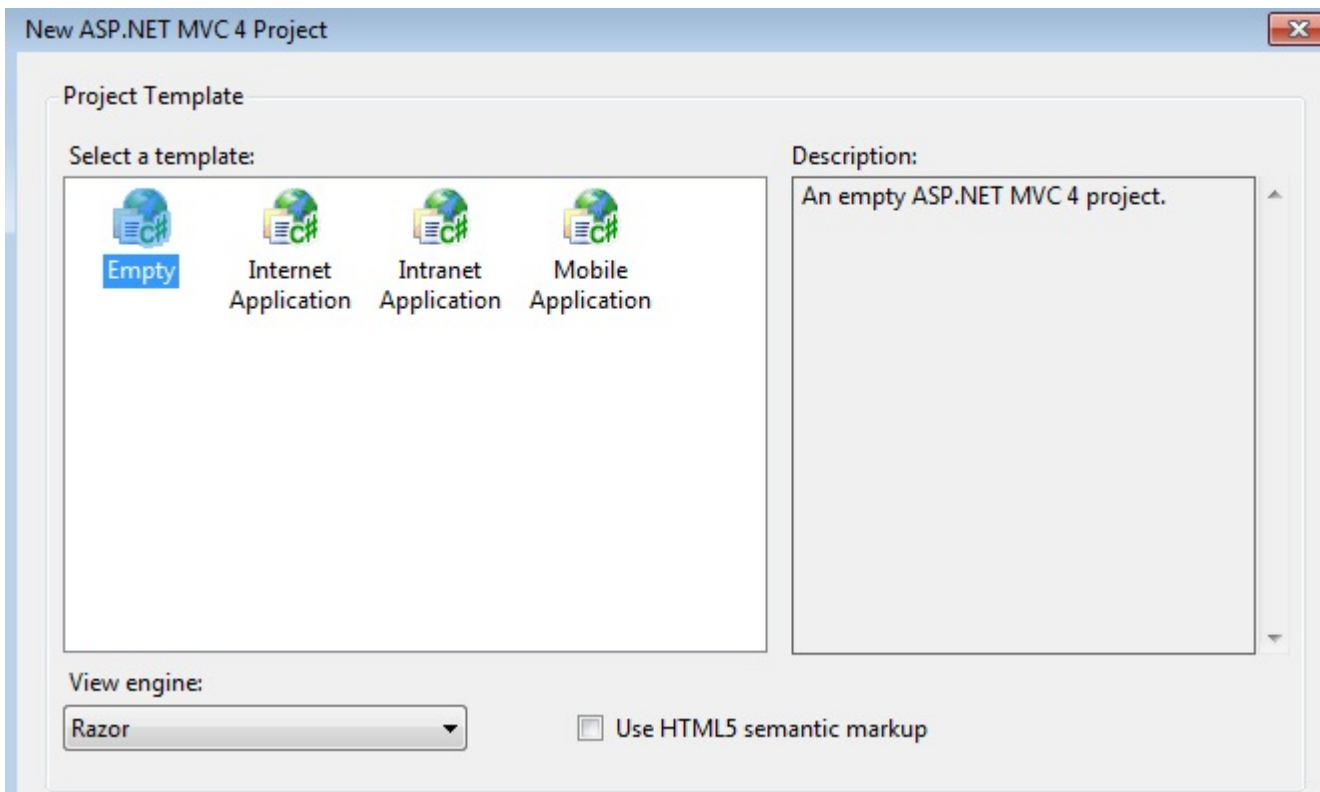2. **Enhancement To Default project templates**

The template that is used to create new ASP.NET MVC 4 projects has been updated to look like more modern-looking website:

In addition to UI improvements, the also template employs a technique called adaptive rendering to look good in both desktop browsers and mobile browsers without any customization.

3. **Mobile Project template using jquery Mobile**

ASP.NET MVC 4 also introducesd new Moble Application project template to create a site specifically for mobile and tablet browsers. This is based on jQuery Mobile, an open-source library for building touch-optimized UI.

4. Display Modes

The new Display Modes feature lets an application select views depending on the browser that's making the request. For example, if a desktop browser requests the Home page, the application might use the `Views\Home\Index.cshtml` template. If a mobile browser requests the Home page, the application might return the `Views\Home\Index.mobile.cshtml` template.

If you want to create more specific views, layouts, or partial views for other devices, you can register a new DefaultDisplayMode instance to specify which name to search for when a request satisfies particular conditions. For example, you could add the following code to the `Application_Start` method in the Global.asax file to register the string "iPhone" as a display mode that applies when the Apple iPhone browser makes a request:

```
DisplayModeProvider.Instance.Modes.Insert(0, new
DefaultDisplayMode("iPhone")
{
    ContextCondition = (context => context.GetOverriddenUserAgent().IndexOf
        ("iPhone", StringComparison.OrdinalIgnoreCase) >= 0)
});
```

For more details: ASP.NET MVC 4 Mobile Features

5. Task Support for Asynchronous Controller

The ASP.NET MVC 4 Controller class in combination .NET 4.5 enables you to write asynchronous action methods that return an object of type `Task<ActionResult>`. The .NET Framework 4 introduced an asynchronous programming concept referred to as a Task and ASP.NET MVC 4 supports Task. Tasks are represented by the Task type and related types in the System.Threading.Tasks namespace. The .NET Framework 4.5 builds on this asynchronous support with the `await` and

---

`async` keywords that make working with Task objects much less complex than previous asynchronous approaches. The await keyword is syntactical shorthand for indicating that a piece of code should asynchronously wait on some other piece of code. The `async` keyword represents a hint that you can use to mark methods as task-based asynchronous methods.

For more details: Using Asynchronous Methods in ASP.NET MVC 4

6. Bundling & Minification.

The bundling and minification framework enables you to reduce the number of HTTP requests that a Web page needs to make by combining individual files into a single, bundled file for scripts and CSS. It can then reduce the overall size of those requests by minifying the contents of the bundle. Minifying can include activities like eliminating whitespace to shortening variable names to even collapsing CSS selectors based on their semantics. Bundles are declared and configured in code and are easily referenced in views via helper methods which can generate either a single link to the bundle or, when debugging, multiple links to the individual contents of the bundle.

For more details: Bundling and Minification

7. Database Migrations

ASP.NET MVC 4 projects now include Entity Framework 5. One of the great features in Entity Framework 5 is support for database migrations. This feature enables you to easily evolve your database schema using a code-focused migration while preserving the data in the database. For more information on database migrations, see Adding a New Field to the Movie Model and Table in the Introduction to ASP.NET MVC 4 tutorial.

Read Getting started with asp.net-mvc-4 online: https://riptutorial.com/asp-net-mvc-4/topic/2601/getting-started-with-asp-net-mvc-4

Credits

S. No	Chapters	Contributors
1	Getting started with asp.net-mvc-4	Community, Meghraj, Naveen Soni, ssilas777