ASP.NET MVC 1 Overview

In February 2007, Scott Guthrie (“ScottGu”) of Microsoft sketched out the core of ASP.NET MVC

while fl ying on a plane to a conference on the East Coast of the United States.

ASP.NET MVC 2 Overview

ASP.NET MVC 2 was released just one year later, in March 2010.

➤ UI helpers with automatic scaffolding with customizable templates

➤ Attribute-based model validation on both the client and server

➤ Strongly typed HTML helpers

➤ Improved Visual Studio tooling

➤ Support for partitioning large applications into *areas*

➤ Asynchronous controllers support

➤ Support for rendering subsections of a page/site using Html.RenderAction

➤ Lots of new helper functions, utilities, and API enhancements

ASP.NET MVC 3 Overview

ASP.NET MVC 3 shipped just 10 months after MVC 2, driven by the release date for Web Matrix.

➤ The Razor view engine

➤ Support for .NET 4 Data Annotations

➤ Improved model validation

➤ Greater control and flexibility with support for dependency resolution and global

action filters

➤ Better JavaScript support with unobtrusive JavaScript, jQuery Validation, and JSON binding

➤ Use of NuGet to deliver software and manage dependencies throughout the platform

**MVC 4 Overview**

➤ ASP.NET Web API

➤ Enhancements to default project templates

➤ Mobile project template using jQuery Mobile

➤ Display modes

➤ Task support for asynchronous controllers

➤ Bundling and minifi cation

**ASP.NET MVC 5 OVERVIEW**

MVC 5 was released along with Visual Studio 2013 in October 2013.

➤ One ASP.NET

➤ New Web Project Experience

➤ ASP.NET Identity

➤ Bootstrap templates

➤ Attribute Routing

➤ ASP.NET scaffolding

➤ Authentication filters

➤ Filter overrides

**Software Requirements for ASP.NET MVC 5**

MVC 5 requires .NET 4.5. As such, it runs on the following Windows client operating systems:

➤ Windows Vista SP2

➤ Windows 7

➤ Windows 8

It runs on the following server operating systems:

➤ Windows Server 2008 R2

➤ Windows Server 2012

**ViewBag, ViewData, and ViewDataDictionary**

Technically all data is passed from the controllers to the views via a ViewDataDictionary(a specialized

dictionary class) called ViewData.

ViewData["CurrentTime"] = DateTime.Now;

ASP.NET MVC 3 leveraged the C# 4 dynamic keyword

The ViewBag is a dynamic wrapper around ViewData.

It allows you to set values as follows:

ViewBag.CurrentTime = DateTime.Now;

Route Parameter Value Mapping Examples

**URL ROUTE PARAMETER VALUES**

/2014/April/10 year = "2014"

month = "April"

day = "10"

/foo/bar/baz year = "foo"

month = "bar"

day = "baz"

/a.b/c-d/e-f year = "a.b"

month = "c-d"

day = "e-f"



routes.MapRoute("blog", "{year}/{month}/{day}",

new { controller = "blog", action = "index" },

**new { year = @"\d{4}", month = @"\d{2}", day = @"\d{2}" });**

routes.MapRoute("simple", "{controller}/{action}/{id}");

Catch All Routes

public static void RegisterRoutes(RouteCollection routes)

{

routes.MapRoute("catchallroute", "query/{query-name}/{\*extrastuff}");

}



BlogArchive Example, Url likes Archive/12-25-2010 and Archive/mybirthday

*//Custom Route With Regular Expression Constraints*

routes.MapRoute(

"Blog",

"Archive/{entrydate}",

new { Controller = "Blog", action = "Archive" },

new { entryDate = @"\d{2}-\d{2}-\d{4}" });