MVC Readiness Plan

**Overview**

ASP.NET MVC is an open-source software from Microsoft. Its web development framework combines the features of MVC (Model-View-Controller) architecture, the most up-to-date ideas and techniques from Agile development and the best parts of the existing ASP.NET platform.

**Pattern**

The MVC architectural pattern separates the user interface (UI) of an application into three main parts.

**The Model** − A set of classes that describes the data you are working with as well as the business logic.

**The View** − Defines how the application’s UI will be displayed. It is a pure HTML, which decides how the UI is going to look like.

**The Controller** − A set of classes that handles communication from the user, overall application flow, and application-specific logic.

**Environment Setup**

Microsoft provides a free version of Visual Studio, which also contains SQL Server and it can be downloaded from <https://www.visualstudio.com>.

**MVC Level 100**

Razor

<http://www.asp.net/web-pages/overview/getting-started/introducing-razor-syntax-c>

<http://www.tutorialsteacher.com/mvc/razor-syntax>

Layout

<http://www.tutorialsteacher.com/mvc/layout-view-in-asp.net-mvc>

Bundling

<http://www.asp.net/mvc/overview/performance/bundling-and-minification>

Routing

<http://www.asp.net/mvc/overview/controllers-and-routing>

Controller

<http://www.asp.net/mvc/overview/older-versions-1/controllers-and-routing/aspnet-mvc-controllers-overview-cs>

Action

<http://www.asp.net/mvc/overview/older-versions-1/controllers-and-routing/creating-an-action-cs>

View

<http://www.asp.net/mvc/overview/older-versions-1/views/asp-net-mvc-views-overview-cs>

Model

<http://www.asp.net/mvc/overview/getting-started/introduction/adding-a-model>

Model Binding

<http://www.tutorialsteacher.com/mvc/model-binding-in-asp.net-mvc>

Filter

<http://www.asp.net/mvc/overview/older-versions-1/controllers-and-routing/understanding-action-filters-cs>

<http://www.tutorialsteacher.com/mvc/filters-in-asp.net-mvc>

Action Selectors

<http://www.tutorialsteacher.com/mvc/action-selectores-in-mvc>

Html Helper

<http://www.tutorialsteacher.com/mvc/html-helpers>

<http://www.asp.net/web-pages/overview/ui-layouts-and-themes/creating-and-using-a-helper-in-an-aspnet-web-pages-site>

Scaffolding

<http://www.asp.net/visual-studio/overview/2013/aspnet-scaffolding-overview>

**MVC Level 200**

NuGet Package Management

<https://docs.nuget.org/consume/installing-nuget>

Working with Data

<http://www.asp.net/mvc/overview/models-data>

Validation

<http://www.asp.net/mvc/overview/getting-started/introduction/adding-validation>

<http://www.tutorialsteacher.com/mvc/implement-validation-in-asp.net-mvc>

Data Annotations

<http://www.asp.net/mvc/overview/older-versions/mvc-music-store/mvc-music-store-part-6>

Security

<http://www.asp.net/mvc/overview/security>

Caching

<http://www.asp.net/mvc/overview/older-versions-1/controllers-and-routing/improving-performance-with-output-caching-cs>

Area

<http://www.c-sharpcorner.com/uploadfile/8ef97c/what-is-areas-in-asp-net-mvc-part-6/>

<http://www.tutorialsteacher.com/mvc/area-in-asp.net-mvc>

Bootstrap

<https://blogs.msdn.microsoft.com/cdndevs/2014/06/11/30-days-of-bootstrap-with-the-mvc-framework/>

Partial View

<http://www.tutorialsteacher.com/mvc/partial-view-in-asp.net-mvc>

Deployment

<http://www.asp.net/mvc/overview/deployment>

**MVC Level 300**

Testing and Debugging

<http://www.asp.net/mvc/overview/testing>

Advanced Entity Framework

<http://www.asp.net/mvc/overview/getting-started/getting-started-with-ef-using-mvc/advanced-entity-framework-scenarios-for-an-mvc-web-application>

Dependency Injection

<http://www.asp.net/mvc/overview/older-versions/hands-on-labs/aspnet-mvc-4-dependency-injection>

MVC Recommended Resources

<http://www.asp.net/mvc/overview/getting-started/recommended-resources-for-mvc>

**Check Point:**

Level 100~200: case

Level 300: Tech talk

**Discussions:**

MVC Home site: <http://www.asp.net/Mvc>

MVC Forums: <http://forums.asp.net/1146.aspx/1?MVC>