

Naresh Information Technologies

ASP.NET MVC Course

By Mr Nagaraju

This course provides students with the knowledge and skills to develop a project using new asp.net framework called ASP.NET MVC. Of the new features, ASP.NET application of the classic Model-View-Controller (MVC) software development pattern has probably received the most attention of all w.r.t programming. The ASP.NET MVC framework represents an alternative to the ASP.NET Web Forms environment.

Pre-requisites:

Before attending this course, students must have the following pre-requisites:

- ✓ Have C#(preferred) or VB.NET programming skills.
- ✓ General ASP.NET and Web programming concepts.
- ✓ Understand general HTML/XHTML, CSS, and JavaScript syntax and functionality.
- ✓ Layers model of programming will be an added advantage.

Purpose:

It is important for every web developer to develop applications with Standards. Modern software development is complex. Many times development complexity is difficult to handle for new and existing content of application. After completing this course, students and developers will be able to take advantage of ASP.NET MVC framework and techniques for developing more robust and scalable web based applications. Also learn to implement ASP.NET MVC 3 framework with cloud, rich SOA environment of .NET i.e WCF and finally with AJAX and JQuery Integration. Course gives you an idea and concept of MVC for real-time development.

Schedule Session-Wise Continued...

Asp.Net MVC	
Day	Schedule for batch _____ Date: _____
1	<p>Introduction to MVC. MVC as architectural design pattern. Web Application Components & their separation. MVC and similar patterns model Advantages & Disadvantages – Sample Applications ASP.NET MVC for .NET developers</p>
2	<p>ASP.NET MVC Versions 1.0/2.0/3.0 MVC 3 Components – More detailed view Downloading & Installing MVC 3 for development environment VS 2010 express, WebMatrix and regular VS 2010 for MVC Development New Razor engine in place of aspx engine. Simple example of MVC with environment.</p>
3	<p>Starting with MVC development – Controllers & Action Methods Controllers Overview – Action Methods ActionResult return type, Action Filters and ViewBag importance.</p>
4	<p>Working with Models – Role of Model in different Scenarios. N-Tier architecture Model – Models from other patterns/Concepts Model & Controller Integration.</p>
5	<p>Working with Views – old aspx engine and new Razor engine(preferred) View structure with HTML helpers. Integrating Model – View – Controller.</p>
6	<p>More MVC examples. Continued with above concepts</p>
7	<p>Routing Concept – new web URL's concept Need for routing – what is routing GLOBAL.ASAX importance in routing – MVC requirements for routing of urls.</p>
8	<p>ASP.NET MVC & JQuery JQuery integration for Performance, Async tasks & Rich interactivity.</p>
9	<p>ASP.NET MVC & AJAX JSON and its importance in web applications JSON in controller and views</p>
10	<p>Introduction to Cloud Computing Windows Azure as cloud platform. WCF for SOA – MVC application with WCF in Cloud Demo</p>
11	<p>MVC applications using other services and more demos</p>
12*	-----

* only if the regular topics are completed

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