

MVC .NET Programming

Duration: 30-32 Hours

Prerequisites

- Knowledge of C# Programming

Course Contents

1. Introduction to .NET Framework

- What is .NET Framework?
- What are components of .NET Framework?
- IDE for .NET

2. Introduction to ASP.NET MVC

- The role of the Model, View and Controller
- Key benefits of ASP.NET MVC

3. Getting Started with ASP.NET MVC

- ASP.NET MVC project templates
- Understanding the structure of an ASP.NET MVC project
- Naming Conventions
- Creating views
- Defining controllers
- Defining a data model

4. Deep Dive in MVC Model

- Editing Model in MVC
- Update Model function in MVC
- Using data transfer object as model in MVC

5. View Techniques

- Defining and using custom HTML Helpers
- Generate hyperlinks using ActionLink html helper
- Razor Views in MVC
- Layout View
- Defining and using partial views
- View Engines in MVC
- Customizing the auto generated Create view

6. Creating a Complete ASP.NET MVC Application

- Creating strongly-typed views
- Understanding URLs and action methods
- Using HTML helpers
- View data and View Bag

7. Using Entity Framework in MVC

- ASP.NET application architecture best practices
- Implementing a Repository and Entity Framework Data Model
- Data Access in MVC using entity Framework.
- Working with multiple tables in MVC
- Using business objects as model in MVC

8. ASP.NET MVC & LINQ-working with Data

- Languages features used in LINQ
- Creating simple LINQ queries
- Using LINQ queries in a web application.

9. Using AJAX with ASP.NET MVC

- Overview of AJAX and ASP.NET MVC

10. Using Some Controls in MVC

- Generating a RadioButtonList control in MVC using HTML helpers
- checkBoxList in MVC
- Listbox in MVC
- Displaying images in MVC

11. Paging and Sorting in MVC

- Implementing Paging in MVC
 - Implementing Sorting in MVC
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