

List of Topics Which will be covered in .NET MVC.

- Benefits of the MVC Design Pattern
- Understand MVC architecture principles and benefits
- Implementing industrial-strength MVC solutions
- Creating views, partial views, and layouts using Razor
- Testing an MVC application
- Defining custom routes
- Using Ajax effectively

Getting Started with [ASP.NET](#) MVC:

- [ASP.NET](#) MVC project templates
- What's new
- Understanding the structure of an [ASP.NET](#) MVC project;
- Naming conventions
- Creating views
- Defining controllers
- Defining a data model

Creating a Complete [ASP.NET](#) MVC Application:

- Creating strongly-typed views
- Understanding URLs and action methods
- Using HTML helpers
- Handling form post-backs
- Data validation

Using the Razor View Engine:

- Razor design goals
- Implementing a Razor view
- Razor syntax
- Accessing model data in Razor views

Industrial-Strength [ASP.NET](#) MVC Applications:

- [ASP.NET](#) application architecture best practices
- Implementing a repository and Entity Framework data model
- Using Dependency Injection
- Implementing a custom controller factory

View Techniques:

- Defining and using custom HTML helpers
- Defining a layout/master page
- Using styles
- Defining and using partial views
- Razor helper method syntax

Implementing Navigation:

- Defining view-model classes
- Implementing data filtering in a controller
- Understanding the routing mechanism

- Adding custom entries to a route table
- Defining defaults, parameters, and validation
- Generating URLs and hyperlinks
- Custom route constraints

#### State Management:

- Using hidden fields
- Session and application state
- Custom model bindings

#### Additional Techniques:

- View scaffold templates
- Controller scaffold templates
- Global filters
- Model binding
- Asynchronous controllers

#### Using jQuery with [ASP.NET](#) MVC:

- Overview of jQuery
- jQuery techniques