

ASP.NET and MVC Course Content:

COURSE OVERVIEW

- Our online ASP.NET MVC Tutorial provides an understanding of MVC design pattern and applying its features to developing lightweight but large sized web applications.
- The most striking feature of our online ASP.NET MVC training is that it includes both theory as well as practical program examples of every module. In addition to this, the ASP.NET MVC Interview questions provide an effective source for helping our participants to communicate effectively and confidently in any interview.

WHAT YOU'LL LEARN / COURSE OBJECTIVE

- Understand the benefits of MVC design over traditional ASP.NET Web Forms.
- Acquire sufficient knowledge on the role of Model, View and Controller in integrating them to develop complete web application.
- Understand how Routing API maps requests to action methods in controller.
- Learn how to reuse code rendering HTML using custom HTML Helper methods.
- Build Custom Model Binders for typical conditions in which built-in default binders are not usable.
- Understand and apply validation framework for both client and server validations.
- Access databases and perform CRUD operations using LINQ and Entity Framework.
- Implement security in ASP.NET MVC applications.
- Use Ajax and partial page updates and render and execute JavaScript code from ASP.NET MVC.
- Modularize using Areas.
- Develop views which are mobile compatible.
- Compress the output using bundling and minification features.
- Develop Service Oriented RESTful services using Web API feature of ASP.NET MVC.
- Perform automated testing of web applications created using ASP.NET MVC.
- Build and deploy ASP.NET MVC application to the production server.

PREREQUISITES

- Prior knowledge of HTML and C# is mandatory.
- Basic knowledge of ASP.NET WebForms is recommended.
- LINQ, Entity Framework and SQL Server for database related operations.

COURSE OVERVIEW :

- Overview of the ASP.NET
- Introduction of different Web Technology
- What is ASP.NET MVC
- Role of Model, View, and Controller
- How ASP.NET MVC Works
- Benefits of using ASP.NET MVC
- Summary
- Setting up and Installing ASP.NET MVC
- Installing Internet Information Server
- Installation of ASP.NET MVC
- Application Setting in IIS.

- Summary
- Microsoft SQL Server 2012
- Overview of SQL Server 2012
- Installation of SQL Server 2012
- Features of SQL Server Express
- SQL Server 2008 Express management tools
- Summary
- Getting Started with 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
- Overview of coding standards follows during programming
- Summary
- Creating an application in MVC
- Creating strongly-typed views
- Understanding URLs and action methods
- Using HTML helpers
- Handling form post-backs
- Data validation
- Razor View Engine
- Razor Basics
- Razor design goals
- Implementation of Razor view
- Razor syntax
- Accessing Model Data in Razor views
- 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