



Course Brochure

ASP.NET MVC

Overview

- To make you ready to create a dynamic web site or web application using the latest web standards & mvc architecture using asp.net mvc framework.

Pre-requisites

- C#.NET, ASP.NET, ADO.NET Entity Framework, LINQ, HTML, CSS, JavaScript

Applications

COURSE CONTENTS

Introduction to ASP.NET MVC

- ❖ What is ASP.NET MVC
- ❖ Advantages of ASP.NET MVC
- ❖ ASP.NET Web Forms (vs) ASP.NET MVC
- ❖ ASP.NET MVC Versions

MVC Architecture

- ❖ Overview to MVC Architecture
- ❖ Controller
- ❖ View
- ❖ Model

ASP.NET MVC – Basic Concepts

- ❖ Creating Controllers
- ❖ Creating Views
- ❖ Creating Models
- ❖ Request
- ❖ Response

ASP.NET MVC – Types of Action Result

- ❖ ContentResult
- ❖ FileResult
- ❖ ViewResult
- ❖ PartialViewResult
- ❖ JsonResult
- ❖ RedirectToActionResult

ASP.NET MVC – State Management

- ❖ ViewData
- ❖ TempData
- ❖ ViewBag
- ❖ Strongly Typed Views
- ❖ Session
- ❖ Application
- ❖ Cache

- ❖ Query String
- ❖ Cookies

ASP.NET MVC – Action Filters

- ❖ Child Action Only
- ❖ Output Cache
- ❖ Action Name
- ❖ Non Action
- ❖ Handle Error
- ❖ Http Get
- ❖ Http Post
- ❖ Http Put
- ❖ Http Delete
- ❖ Validate Anti Forgery Token
- ❖ Route
- ❖ RoutePrefix
- ❖ Authorize
- ❖ Global Action Filters

ASP.NET MVC – Razor

- ❖ What is View Engine
- ❖ ASPX View Engine (vs) Razor View Engine
- ❖ Razor – Code Blocks
- ❖ Razor – Expressions
- ❖ Razor - If
- ❖ Razor – For
- ❖ Razor – Foreach
- ❖ Razor – Literals
- ❖ Razor – Comments

ASP.NET MVC – Views

- ❖ Shared Views
- ❖ Layout Views
- ❖ _ViewStart.cshtml
- ❖ Sections in Layout Views
- ❖ Partial Views
- ❖ Child Actions

COURSE CONTENTS

ASP.NET MVC – Entity Framework

- ❖ Entity Models
- ❖ Connection Strings
- ❖ DbContext and DbSet
- ❖ Data Annotations

ASP.NET MVC – AJAX

- ❖ Get
- ❖ Post
- ❖ Put
- ❖ Delete

ASP.NET Web API

- ❖ Introduction
- ❖ Advantages
- ❖ ASP.NET MVC (vs) ASP.NET Web API
- ❖ Get
- ❖ Post
- ❖ Put
- ❖ Delete

ASP.NET MVC – HTML Helpers

- ❖ BeginForm
- ❖ TextBoxFor
- ❖ TextAreaFor
- ❖ LabelFor
- ❖ ValidationMessageFor
- ❖ ValidationSummary
- ❖ ActionLink
- ❖ PasswordFor
- ❖ CheckBoxFor
- ❖ RadioButtonFor
- ❖ DropDownListFor
- ❖ HiddenFor
- ❖ AntiForgeryToken

- ❖ Custom HTML Helpers
- ❖ Bundling and Minification

ASP.NET MVC – Validations

- ❖ Required
- ❖ Range
- ❖ RegularExpression
- ❖ Compare
- ❖ StringLength
- ❖ Remote
- ❖ ModelState.IsValid

ASP.NET MVC – N-Tier Architecture

- ❖ Repository Layer
- ❖ Service Layer
- ❖ Domain Models
- ❖ View Models
- ❖ Dependency Injection (Unity.Mvc)

ASP.NET MVC – Custom Action Filters

- ❖ FilterAttribute
- ❖ IAuthorizationFilter
- ❖ IActionFilter
- ❖ IResultFilter
- ❖ IExceptionFilter

ASP.NET Core MVC 1.0

- ❖ Introduction
- ❖ Project.json
- ❖ Startup.cs
- ❖ ConfigureServices
- ❖ Configure
- ❖ Middleware
- ❖ Static Files
- ❖ Tag Helpers
- ❖ View Components
- ❖ Entity Framework Core