



.Net training

Table of content:

Overview of .NET implementation

- What is .NET
- .NET Implementation and Types of .NET Applications
- About MS.NET Framework
- About Mono Xamarin UWP
- Introduction to .NET Core

Developing .NET core console applications

- First.NET Core Application
- Creating Solution with Multiple Projects

Getting starting with ASP.NET core

- About ASP.NET Core
- Layout of ASP.NET Core Application
- Understanding Razor Pages

Building Razor Pages web applications

- Understanding HTTP and REST Request
- Building Web Application using Razor Page Model
- Handling Post Method in Razor Page

Controllers & action methods

- What is MVC Pattern
- MVC in ASP NET Core
- Understanding Controller and Action Methods
- Understanding Views
- Using Model between View and Controller
- Types of ActionResult
- About Action Selectors
- Application startup and registering services using dependency injections
- Understanding Entry Point Main method
- Startup class Configure Service and Configure Methods
- Registering Services and Dependency Injection

Working with Middleware

- Understanding Middleware and Use Run and Map Methods
- Programming Custom Middleware
- Built In Middlewares
- Migrating Modules And Handlers To Middlewares

Exploring Razor views

- Razor Syntax
- Razor Directives

- Partial Views
- Layout Pages
- View Component

Digging into HTML helpers

- Introducing HTML Helper Methods
- Binding Html Helpers to View Data
- Binding HTML Helper to Model
- Display and Editor Helper Methods
- Custom Templates for Display and Editor Methods
- Reusing Helper Methods

Using TAG helper

- Tag Helpers Introduction
- Anchor and Image Tag Helpers
- Form Environment and Script Tag Helpers
- Custom Tag Helper

Understanding Models binders

- HTML Form Submit Behaviour
- Behaviour of Default Model Binder
- Customizing Model Binder

Validations & data annotations

- Validating Model Object
- Remote and Custom Validation Attributes
- Custom Client-Side Validations

Configuration web applications

- Configuring ASP.NET Core Applications
- Working with Environmental Variable

State Management

- What is a Cookie
- Programming Cookies in .NET Core
- Authentication using Cookies
- Programming Sessions In .NET Core

ViewData vs ViewBag vs TempData

- Data access using Entity framework Core
- CRUD Operations using EF Core
- Working with Migration in EF
- Writing and Using Business Objects
- Writing and Using Generic Repository
- Caching in Repository

Authentication & Authorization

- Asp.Net Core Identity Provider Introduction

- Scaffolding Identity in Existing Application
- Adding Custom Fields to User Entity
- Role Based Authorization
- External Authentication Providers
- Using JWT Token to Authenticate and Authorize

Working with SignalR

- SignalR Introduction
- Building Chat Application using SignalR
- Building One on One Chat Application using SignalR

Web caching

- Web caching

URL Routing

- URL Routing
- Routing Features

Web APIs

- Working with Web API
- Swagger and Swashbuckle
- Understanding JWT Token
- Web API Security using JWT Token

