

.NET CORE & ASP.NET MVC CORE COURSE CONTENTS

.NET CORE & ASP.NET MVC CORE

Module1: - Introduction to .Net Core & Asp.Net MVC Core

What is .NET Core?

.NET Core Features

Advantages of .NET Core

What is MVC Pattern

Understanding ASP.NET Core MVC

ASP.NET MVC Core vs. ASP.NET MVC vs. ASP.NET Web Forms?

New Features of Asp.Net MVC Core 5.0

Module 2:- ASP.NET MVC Core First Application

ASP.NET MVC Core Environment Setup

Project Layout

Understanding Life Cycle of ASP.Net MVC Core Request

Module 3:- Model, View & Controller

Introduction to Model

Introduction to Controller & Actions

Introduction to Views

Creating Views

Adding HTML Controls in Views

Linkage between Actions & Views

Creating Views

Adding HTML Controls to Views

Linking Actions with Views

Creating Models

Linking Model, Controller, Actions & Views

Module 3:- Controllers, Action Methods & Views

Controllers Overview

Action Methods and IActionResult object

Passing data from Controller to View

Using ViewBag, ViewData & TempData

Understanding Action Selectors

Action Filters

Module 4:- Razor Views

Introducing Razor View

Advantages of Razor View

Razor Syntax

Types of Views

Partial Views

enosis learning

Layout Pages

Special Views

View Categorization based on Model

Module 5:- Helpers

Html Helpers

Built-In Html Helpers

URL helpers

Tag Helpers

Importance of Tag Helper

Custom Tag Helpers

Module 6:- Model Binding

Html Form behavior

Model Binder Overview

DefaultModelBinder

Binding to Complex Classes

IFormCollection Model Binding

IFormFile Model Binder

Module 7:- Validations & Data Annotations

Data Annotations and Validations Overview

Validations with Data Annotation

Server Side and Client Side Validation

Custom Server side validation

Model level validation using IValidatableObject

Custom unobstrive Client side Validation

Remote Validation

Module 8:- State management Techniques

Cookies

Sessions

Module9:- MVC and Entity Framework Core

Introduction to Entity Framework Core

Advantage of Entity Framework Core

Architecture of Entity Framework Core

Difference between Entity Framework & Entity Framework Core

Context Class in EF Core

SQL database using EF.

Connecting to Databases using EF Core.

Basic CRUD Operations using EF Core

Approaches of Entity Framework Core

Database First



Code First

Calling Procedures using EF Core

Module 10:- Routing

Url Routing Overview

Custom Routes

Attribute Routing

Routing Constraints

Module 11:- Module Development

Understanding Areas

Adding Areas

Defining Area Routes

Linking between Areas