MVC Application Design using .NET Core 2.0

Modality: On Demand

Duration: 24 Hours

About this course:

The purpose of this program is to direct you towards studying how to create web applications based on Model View Controller (MVC) patterns, utilizing the new MS ASP.NET core technologies and tools.

 Developers should be able to develop ASP.NET Core apps from scratch after completing this course, utilize the Model View Controller (MVC) model and components correctly, and migrate the web apps to the Cloud. To accomplish this goal, the emphasis of this course will be:

- Model View Controller pattern – In-depth overview into the • Model View Controller architectural design and grasp its deployment
- Hands-on practice - ASP.NET Core Web apps to address real-world issues

Course Objective:

- Understanding of Model View Controller (MVC)
- Techniques to design and create models
- Techniques to design and create controllers
- Understanding of Domain Model Design, View Model Design, and Data Transfer Model Design
- Understanding of URL Routing and Advanced Model Binding
- How to use views
- Understanding of Rendering Data, Advanced View and utilization of Razor Helpers
- Understanding of Model Design and requirement analysis
- How to implement views and controller
- Techniques to update a view

Audience:

This program is intended for:

- Programmers
- Front-end developers
- Web developers

Prerequisite:

- Expertise on installing and running applications on a computer.
- Understanding of XML
- Understanding of core HTML5

- Understanding of database concepts
- Understanding of the C# programming language

Course Outline:

Module 1 Understanding MVC

- Module Introduction
- What is MVC
- MVC and Web Development
- Lab Configuration
- Module 1 Labs

Module 2 Model Design

- The Model
- Domain Model Design
- View Model Design
- Data Transfer Model Design
- Module 2 Labs

Module 3 Controllers and Actions

- Module Introduction
- Controllers and Actions
- URL Routing
- Advanced Model Binding

Module 4 View Design

- Module Introduction
- Using Views
- Rendering Data
- Using Razor Helpers
- Advanced Views
- Module 4 Labs

Module 5 Advanced ASP

- Module Introduction
- Requirement Analysis and Model Design
- Implement Controllers and Views
- Module 5 Labs?