KIDS & TEENS FREELANCING TRAINING INSTITUTE

ASP.NET MVC Training Course Outline

Module 1: What is ASP.NET MVC?

- What does ASP.NET MVC stand for?
- Real-life example: A restaurant with a kitchen (Model), waiters (Controller), and menu display (View)
- Why developers use MVC architecture for organized coding
- The difference between traditional web apps and MVC
- Activity: Draw how information flows in an MVC app

Module 2: Getting Started with ASP.NET MVC

- Installing Visual Studio and setting up your first MVC project
- Understanding the file structure of an MVC app
- Creating your first Controller, View, and Model
- Activity: Build a basic "Hello World" MVC web app

Module 3: The Model – Handling Data

- What is a Model and what does it do?
- Real-life example: A library's catalog system
- How to define and use models in ASP.NET MVC
- Introduction to Entity Framework for database interaction
- Activity: Create a simple model and display data on a page

Module 4: The View – What Users See

- What is a View and how HTML & Razor work together
- Real-life example: The restaurant menu customers see

- Using layouts and partial views for consistency
- Activity: Build a page using a shared layout and Razor syntax

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Module 5: The Controller – Connecting the Pieces

- What is a Controller's job in MVC?
- Handling user input and passing data to Views
- Real-life example: A traffic cop directing cars
- Activity: Create a Controller that displays different views based on user input

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Module 6: Routing and Navigation

- How MVC handles URLs and page navigation
- Real-life example: GPS directing you to different places
- Customizing routes and using route parameters
- Activity: Set up custom routes and link to pages

Module 7: Forms, Validation & CRUD Operations

- Creating and submitting forms in MVC
- Real-life example: Filling and submitting an online order
- Adding validation rules and saving to the database (CRUD)
- Activity: Build a basic contact form with validation

Module 8: Final Project – Your First MVC Web App

- Plan and build a mini web application using all MVC parts
- Include navigation, data, forms, and database interaction
- Test and run your app locally
- Activity: Present your project and explain the MVC parts

Bonus Materials

- ASP.NET MVC project templates
- Razor syntax cheat sheet
- Sample CRUD app source code

- Best practices guide for MVC apps
- Certificate of Completion for ASP.NET MVC Basics