

DOT NET TRAINING SYLLABUS

Section 1: Framework Introduction

- The .NET Framework an Overview
- Architecture of .NET Applications
- > Types of Applications developed using MS.NET

Section 2: Introduction to C#

- Overview of C#
- Data types & Variables Declaration
- Variable & Constant
- Type Conversion
- Control Structures
- Arrays & List

Section 3: OOPS - Object Oriented Programming

- Classes
- Objects
- Encapsulation
- Inheritance
- Polymorphism
- Abstract
- Interfaces
- Delegates

Section 4: Exception Handling

- Introduction to Exceptions
- Try and catch keywords
- Using "finally" block
- > Handling and throwing exceptions in .NET



Compiler-generated exceptions

Section 5: Introduction to MSSQL Server

- Introduction to databases
- Relational database Management concepts
- Structured Query Language
- Stored Procedures
- Functions
- Triggers

ASP.NET MVC 5 / WEB API TRAINING SYLLABUS

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Section 1: Introduction to ASP.NET MVC

- Introduction to MVC Architecture
- Advantages of MVC
- > Why MVC approach?
- MVC Architecture
- What is View
- What is Model

Section 2: ASP.Net MVC Fundamentals

- Introduction to Controllers
- Creating Controllers
- Creating Actions
- Action Result
- Action Parameters



- Action Selectors
- Attribute Routing

Section 3: Views (Razor)

- Introduction to Views
- > Difference between Razor & Aspx View engines
- Passing Data to Views
- View Models
- Partial Views

Section 4: HTML Helpers

- Introduction to HTML helpers
- DisplayNameFor()
- DisplayFor()
- LabelFor(
- ValidationMessageFor()
- RadioButtonFor()
- DropDownListFor()
- ListBoxFor()
- CheckBoxFor()

Section 5: Models

- Introduction to Models
- Creating Model classes
- Creating Views using Model Classes
- Data Annotations in Model



Section 6: Scaffold Templates in MVC

- Introduction to scaffold Templates in MVC
- > Creating controllers and views using scaffolding

Section 7: Action Filters

- Introduction to action filters
- [HttpPost]
- [HttpGet]
- [ValidateAntiForgeryToken]
- [OutputCache]
- [HandleError]
- [NonAction]
- [ActionName]

Section 8: Data Annotations & Validations

- Introduction to Validations
- Server-side Validation
- Client-side validation

Section 9: Data Annotations

- > Required
- DisplayName
- StringLength
- Range
- Bind
- ScaffoldColumn



Section 10: Entity Framework in MVC

- Introduction to Entity Framework
- Architecture of Entity Framework
- > DB first approach
- Code First approach

Section 11: Authentication & authorization

- > Types of authentication
- > ASP.NET identity
- Access restriction
- OAuth

Section 12: WEB API

- Introduction to Web API
- > Why Web API?
- Understanding HTTP methods GET, POST, PUT, DELETE
- Creating API controller
- Web API Routing and Attribute Routing
- Consuming Web API
- Web API Security

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