

Dot Net Developer Course



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Syllabus mentioned below.



Tools You Learn

Visual Studio™

C#

Microsoft® ADO .Net™

ASP.net

.NET MVC™

Microsoft® SQL Server™

quickxpert

WEB API

POSTMAN

AJAX

{JSON} JavaScript Object Notation

& more ...



C# & ADO.Net

VS Installation

- Visual Studio (community edition) Installation
- Understanding IDE Features and Shortcuts
- Creating First Project

Basics

- Introduction
- History of C#, .Net Framework, .Net Core etc.
- Variable, Keywords & DataTypes
- Expression & Operators
- Methods & Parameters
- Call by value/reference, ref, out, params

Control Statements

- if-else
- switch-case
- while & do while
- for loops, for-each
- break, continue, goto etc

Arrays & Common Used Classes

- 1D, 2D, Jagged Arrays



- Structures (struct)
- Enum
- Type Conversion (Casting)
- Boxing & Unboxing
- String & DateTime Methods

Logic Building & Programs

- Pattern Programs
- Factorial
- Prime number
- Palindrome
- Swap two variables (with/without temp)
- Recursion
- Armstrong Number

Object-Oriented Programming (OOPs)

- Class & Object
- Constructor, Destructor
- Inheritance (IS-A)
- Composition / Aggregation (HAS-A)
- Polymorphism
- Method Overloading
- Method Overriding
- Access Specifiers
- Encapsulation >> Properties - SET/GET



- Abstraction
- Abstract Class
- Interface
- Static Keyword, Static Constructor
- Nested Classes

Advanced C#

- Delegates
- Events
- Exception Handling
- Try, Catch, Finally, Throw
- Custom Exceptions
- Anonymous Methods
- Lambda Expressions
- Extension Methods

Collections

- System.Collections
- Hashtable
- ArrayList
- Stack, Queue

System.Collections.Generic

- Stack
- Queue
- HashSet, SortedSet



- List
- SortedList
- LinkedList
- Dictionary
- SortedDictionary

Generics

- Generic Methods & Classes
- Constraints

Multi Threading

- Thread Class
- ThreadPool
- Locking
- Task-based Asynchronous Programming
- async/await

File IO

- Read/Write Text File
- Read/Write Binary File
- FileStream, StreamReader, StreamWriter

Serialization

- XML Serialization
- JSON Serialization (using System.Text.Json, Newtonsoft.Json)



- Deserialization

LINQ (Language Integrated Query)

- LINQ to Objects
- LINQ Methods: Where, Select, OrderBy, GroupBy, Join
- Query vs Method Syntax
- Anonymous Types, Projection

SQL Server

- SQL Server Installation & SSMS
- Data Types
- CRUD Operations (create, read, insert, update, delete)

ADO.NET (Database Integration)

- Connected Architecture:
- SqlConnection, SqlCommand
- SqlDataReader
- Disconnected Architecture:
- DataSet, DataTable
- DataAdapter
- CommandBuilder
- ExecuteScalar, ExecuteReader, ExecuteNonQuery



ASP.Net

- Introduction
- Page LifeCycle
- HTML, CSS as required
- Controls and Properties
- WebConfig & Global.aspx File
- Master Page, Themes
- Session, Cookies, ViewState
- Authentication & Authorization
- Note - ASP.net is now not much used in industry, however basics are required from interview point of view and to learn MVC hence covered here as required.



ASP.NET MVC

Basics

- ASP.Net MVC framework overviews and components
- Architecture & Setup

Entity Framework (EF)

- EF Core & EF 6
- Types of Approaches:
 - DataBase First
 - Code First
 - Migrations
- CRUD Operations
- LINQ with EF
- CRUD with EF (Code First/Database First)

Web API (REST API)

- Introduction to REST
- HTTP Verbs (GET, POST, PUT, DELETE)
- C# with Web API
- Route Configuration
- Postman
 - Installation
 - How to use postman?
 - Testing Get, PUT, POST, DELETE with Postman



- Consuming APIs with Postman
- Return Types (IActionResult, IActionResult)
- Token-Based Authentication (JWT)
- Calling APIs from JavaScript / jQuery
- AJAX JSON Integration
- Web API (REST API) integration with Ajax and Json (in mvc part)

MVC Development

- HTML & CSS Form designing
- Building First Application
- Creating basic project
- Creating forms using HTML, CSS, Bootstrap.
- Routing
- Controllers, Actions
- Views & Razor Syntax
- ViewModel
- HTML Helpers
- State Management - Cookies, Sessions, Query String etc
- TempData, ViewData, ViewBag
- Filters: ActionFilter, Authorization
- Dependency Injection
- Model Binding
- Validation
- Partial Views, Layouts
- AJAX & JSON
- Project



ASP.Net MVC Core (addon)

- Pre-requisite - .Net MVC
- Introduction
- Setup
- Building First Application
- Understanding Main Method
- Startup Class
- Middleware
- Request Processing Pipeline
- www root folder
- Built-In Middleware
- Configuring Default Page & Custom Default Page
- Exception Page
- Exception Handling
- Static files
- Bootstrap Integration
- MVC
 - Creating Models
 - Creating Controller
 - Creating Views
 - Razor view
 - Tag Helpers
- Binding Model with Views
 - Working with ViewBag, ViewData and TempData



- Input Validation
 - Server Side Validation
 - Client Side Validation
- Built-In Tag Helpers
- Http Verbs - Get, POST, PUT, DELETE
- URL Routing
- Endpoint Routing
- Attribute Routing
- Creating Partial View
- Import View
- Layout View
- State Management
 - Hidden Field
 - Cookies
 - QueryString
 - Session
 - Temp Data
- Basic Form Based Authentication and Authorization
- Dependency Injection
- Using ADO.Net to communicate with DataBase
- Creating CRUD Application
- Project

Duration – 3.5 to 4 months

more info - <https://quickxpertinfotech.com/DOT-NET-course>



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