Dot Net Developer Course

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Best institute for IT training and placements for classroom and online training for students and corporates. We are an ISO certified institute and in the industry since 2014. Our strong training and placement team have helped thousands of students build their career.
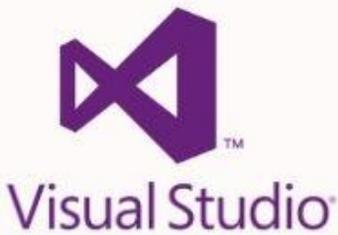
Courses - JAVA, Dot Net, Software Testing, Web Development, Full Stack Development, MERN, MEAN, Oracle, Digital Marketing, Python, Data Analytics, Data Science & A.I., Cyber Security, Salesforce, Service Now, Tableau, Power BI, Excel, React, Angular etc.

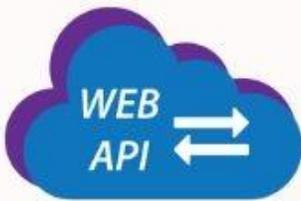**Live Projects -** MarriageKing, theVibrantBirdie, CRM etc

Corporate Trainings - GeBBS Healthcare, NVest Solutions, Infogix, PDG Software, GMV India etc.

Syllabus mentioned below.

Tools You Learn

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.Generics

- 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 (IHttpActionResult, 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
  - o Creating Models
  - o Creating Controller
  - o Creating Views
  - o Razor view
  - o Tag Helpers
- Binding Model with Views
  - o 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
  - Understanding DI
  - Implementing
- Using ADO.Net to communicate with DataBase
- Creating CRUD Application
- Project

Duration

- Weekdays (MTTF, Wed is off/practice break)
  - Option 1 – 3 months - 1.5 to 2 hrs/day
  - Option 2 – 2 months – 2 to 2.5 hrs/day
- Weekends (S S)
  - Option 1 – 3.5 to 4 months - 2 to 2.5 hrs/day
  - Option 2 – 2.5 to 3 weeks - 2.5 to 3 hrs/day

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

note – mvc core 1 to 1.5 months is an addon topic, duration and fees extra.

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