

Full Stack Dot Net Developer Course

quickxpert

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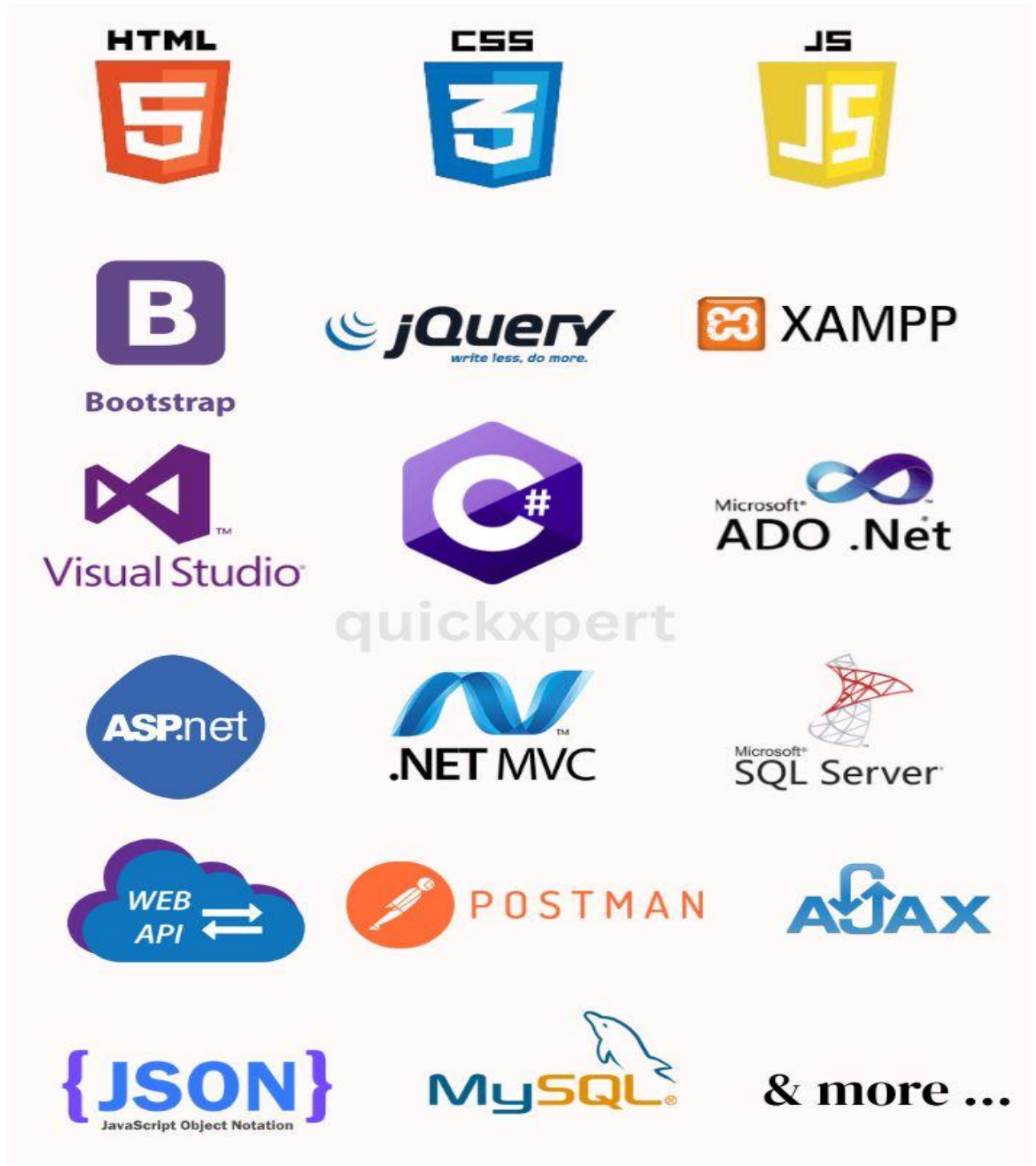
Live Projects - MarriageKing, theVibrantBirdie, CRM etc

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.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



Web Designing

Learn

- HTML & HTML5
- CSS & CSS 3
- Media Query
- Javascript
- JQuery
- Twitter Bootstrap Framework
- Responsive Website Designing
- On Page SEO Techniques
- PHP Static Websites

Web Design Overview

- About Responsive Website Designing
- VS Code Installation

HTML

- Table
- Types of Lists
- Forms
- Head tag & Meta tag
- Layout
- Classes and ID
- Div Tags



- Paragraph Tag
- Formatting Tags
- Anchor Tag
- Quotations Tags
- Marquee Tag
- Image Tag

HTML5

- Section Tag
- Article Tag
- Source
- Header
- Video
- Audio
- Keygen
- Canvas

HTML 5 Validations

On-page SEO Techniques

- Meta Tags - Title, Description, tags etc.
- Header Tags - H1, H2, H3, H4, H5 etc.



CSS & CSS3

- Basics
- Background Image & Colors
- Selectors
- Declaration & Types
- Fonts & Text Properties
- Text Shadow, Gradients etc.
- Overflow & Display Properties etc.
- Effects - Border Radius, Box Shadow etc
- Box Model - Border, Margin etc
- Units in css
- Positions - Static, Absolute, Relative, Fixed, Sticky etc
- Transforms - 2d & 3d Effects
- Transitions - Color Effects
- Animations
- Menu & Navigation Bar
- Chrome's Inspect Element for Desktop & Mobile for Runtime CSS Manipulations

Media Query

- Overview
- Responsive website designing using media queries
- Creating CSS Media Query Files
- Device Width wise CSS Programming



JavaScript

- Basics
- Variables, Operators, Data Types etc
- Programming
 - If-else
 - Switch Case
 - While & Do While
 - For – Loops etc.
- Logic Building Sessions
- Creating Functions
- Inbuilt Functions
 - Date, Number
 - String
 - Numeric
- Arrays
 - 1D Array
 - 2D & Multi-Dimensional Array
- Methods
- Objects
- Event Handling
 - On Click
 - On Keyup
 - On Change
 - On Keypress
 - On Keydown etc.



- Regular Expressions
- HTML DOM (Working with Frontend)
 - getElementById
 - getElementsByClassName
 - document.write etc
- Js Form Validations
- Alert Box ,Prompt ,Confirm etc

jQuery

- Basics
- Effects
- DOM Parsing
- Form Validations
- Events
- functions
- Creating Images
- Inbuilt Functions
 - redirect
 - html
 - text
 - find
 - siblings
 - parents etc.
- Dynamic CSS Programming
- Hide and show element etc



Bootstrap

- Basics & Introduction to Responsive Website Designing
- Grid System
- Card
- Table, Text & their Classes
- Image & Image Classes
- Button & Button Classes
- Creating Dropdown
- Creating Loader
- Creating Progressbar
- Breadcrumbs
- Pagination
- List
- Panel
- Media Object
- Font Awesome & Glyph Icons
- Forms
- Menus & Navigation Bar
- Carousel
- Tooltip
- Pop Hover
- Scroll Spy
- Affix
- Modals – (Pop ups)

Project



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
 - Understanding DI
 - Implementing
- Using ADO.Net to communicate with DataBase
- Creating CRUD Application
- Project



MYSQL

Learn both MySQL & Adv. MySQL

- Asked in most interviews

Basics & Installations

- MySQL Server
- Workbench (client)

DDL - Data Definition Language

- Tables - Create, Alter, Drop, Auto Increment
- Constraints - Not Null, Primary Key, Unique Key, Foreign Key
- Index - Why required, Create, Drop

DML - Data Manipulation Language

- Insert, Update, Delete & Truncate

Transactions

- Commit & Rollback

DQL - Data Query Language (Select)

- Filters
 - Operators - <, <=, >, >=, =, !=



- BETWEEN
- IN
- LIK
- NOT
- NULL
- AND, OR, NOT
- Multi conditions filtering
- DISTINCT
- Limit, offset
- **Sorting**
 - Ascending Order
 - Descending Order
 - Multi Column Sorting
- **Functions**
 - Data, number, characters, null values etc.
 - Case
- **Groups**
 - Grouping functions - AVG, MIN, MAX, COUNT, DISTINCT COUNT
 - Grouping Filters - HAVING
- **Joins**
 - Cartesian Product
 - Equi and Non-Equi Joins
 - Left Outer Join
 - Right Outer Join
 - Full Outer Join



- Self Join
- SET Operators
 - Union, Union All, Intersect, Minus
- Subquery
 - Single Valued
 - Multi Valued
- Views & Inline Views
- Procedures
 - Programming basics - if..else, for loop
 - Procedures - create, drop
- Functions - create, drop
- Triggers - create, drop
- Project

Duration – 6 to 7 months

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

Note - Addons .Net Core available, duration and charges extra



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Our Benefits

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