

Great Tools, Great Career

DotNet Full Stack



About DotNet Full Stack

Dot Net is a free, cross-source platform that can be used for serving different kinds of applications. It can be used for proceedings, web services, and many languages. Additionally, using numerous languages to validate various application procedures becomes simple, which can help the IT industry advance and take on new difficulties.

Although Dot Net's operations may result in efficient handling of many mobile platforms. This technology makes it simple to test out new needs and events. Dot Net developers expand the pool of software developers capable of simulating our fresh starts.



Who Should Attend?

Students and Graduates:

Those studying computer science, software engineering, or related fields, seeking to gain practical skills in a high-demand technology.

Professionals looking to upskill:

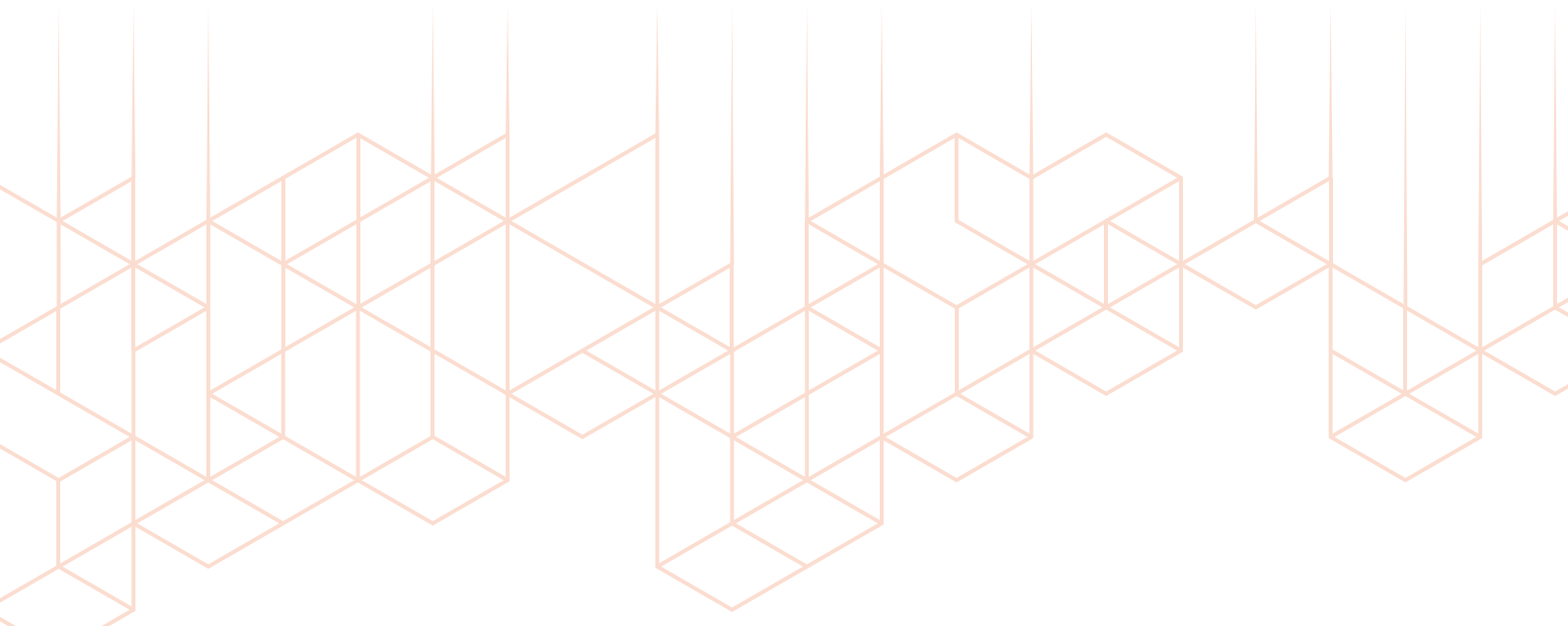
Individuals who want to enhance their skills and career prospects in the .NET ecosystem.

Aspiring Web Developers:

Individuals new to the field or those with basic programming knowledge who want to specialize in .NET development.

Those interested in building Web Applications:

Anyone with an interest in developing interactive web applications, including e-commerce sites, social media platforms, and more.



Course Curriculum:

Introduction to C#:

- History of C# Version
- C# Code Execution
- Installing and Configuring Visual Studio
- Variable
- Data Type
- Safe Type Casting with IS and AS Operator

C# Conditional Statements and Loops

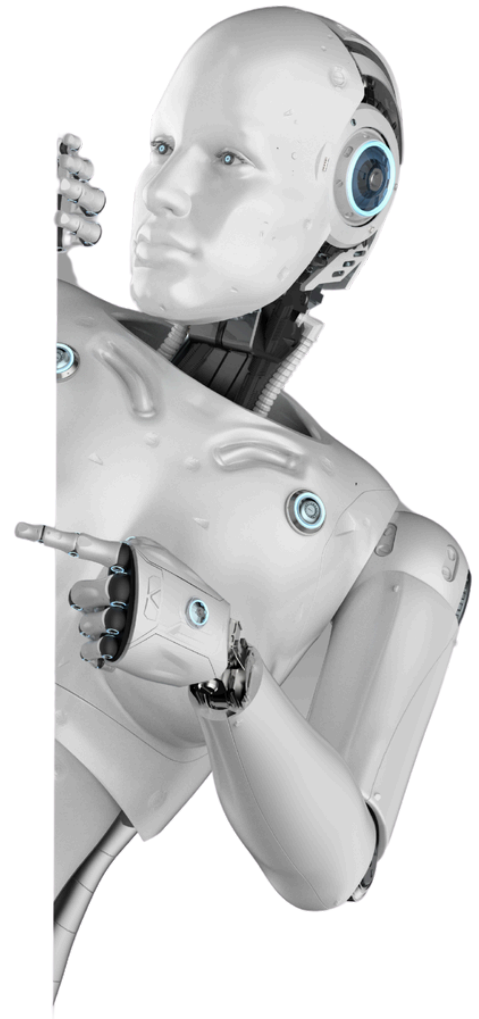
- Operators
- Operators precedence
- Conditional Statements: if, if..else if, switch
- Loops: do..while, while, for, foreach
- Jump Statements

C# Arrays and Strings

- Arrays
- Types of Arrays
- Strings
- String Methods

Object-Oriented Programming in C#

- Object-Oriented Programming Concepts
- Access Modifiers



Course Curriculum:

- Constructor
- Inheritance
- Methods
- Structure

C#: Abstract Class, Interface & Partial Class

- Abstract Class
- Interface
- Interface vs. Abstract Class
- Static Class
- Extension Methods
- Partial Class
- Partial Methods

C# Property, Indexer, Attributes & Exception Handling

- Property
- Indexer
- Exceptional Handling
- Enum
- Attributes



Course Curriculum:

C#: Anonymous Type, Delegates, Events & Lambda

- Extension Methods
- Anonymous Type
- Var and Dynamic
- Delegates
- Events
- Anonymous Methods
- Lambda Expression
- Expression Tree

C#: Asynchronous Programming – Async and Await

- What is Synchronous and Asynchronous?
- Asynchronous Programming Patterns in .NET
- Asynchronous Programming Model (APM)
- Event-based Asynchronous Pattern (EPM)
- Task-based Asynchronous Pattern (TAP)
- Async and Await in Task-based Asynchronous Pattern TAP
- Asynchronous vs. Multithreading



Course Curriculum:

SQL SERVER

Getting Started with SQL Server

- Introduction to Database
- Introduction to SQL Server
- Installing SQL Server and Components
- SQL Server Database and Tables
- SQL Keys
- SQL Commands
- SQL Constraints
- Types of Database

T-SQL Fundamentals with SQL Server

- Data Types, Variables and Operators
- SQL Server Control Of Flow
- SQL Query and Sub Query
- SQL Clauses
- SQL Predicates
- SQL Joins
- SQL Exceptions
- Try..Catch



Course Curriculum:

SQL Server Views and Indexes

- SQL Server Views
- Types of Views
- SQL Server Indexes
- Types of Indexes

SQL Server Stored Procedures & Functions

- Introduction to Stored Procedure
- Types of Stored Procedure
- Creating Stored Procedures For Insert, Update and Delete
- Stored Procedures Parameters
- SQL Server Functions
- Scalar Functions
- Table Valued Functions

SQL Server Triggers and Cursors

- SQL Server Triggers
- Types of Triggers
- SQL Server Cursors
- Types of Cursors
- Cursor Alternatives



Course Curriculum:

Understanding & Managing Azure SQL Database

- Introduction to Azure SQL Database
- Database Deployment Models
- Azure SQL Database Server
- Creating and Managing Single Database
- Purchasing Models: DTU and vCore
- Azure SQL Database Tools
- Database Migration Using DMA
- Creating and Managing Elastic Pool
- Creating Managed Instance

HTML5

- Introduction to HTML
- What is HTML?
- History of HTML
- HTML Development IDE
- HTML Page Structure
- Introduction to HTML5
- HTML5 Document
- Browsers Support and Advantages



Course Curriculum:

HTML5: Tags, Elements and Attributes

- HTML Tags
- HTML Elements and Attributes
- HTML Formatting and Styles
- HTML Layouts
- HTML Blocks and Inline Elements
- Empty Elements And Nested Elements
- HTML Quotation and Citation Elements
- HTML CSS

HTML5: Tables, Lists and Layouts

- HTML Tables – Columns, Row, Border, Padding
- HTML Lists – Order and Unorder List
- What is HTML Layouts?
- Table Based Layout
- Div Based Layout
- HTML5 Structure Based Layout

HTML5: Forms, Media and Storage

- HTML5 New Input Elements
- HTML5 Forms Attributes
- HTML5 Validations
- HTML Media
- HTML Audio
- HTML Video
- HTML and JavaScript
- HTML Storage API
- HTML Graphics



Course Curriculum:

CSS3

CSS3 Fundamentals

- Introduction to CSS
- CSS3 Selectors
- Pseudo Elements and Pseudo Classes
- Types of CSS
- CSS Fonts and CSS Text
- CSS Box Model
- Margin, Padding and Border
- Position and Colors
- CSS Background and Gradients

CSS3 Advanced Concepts

- CSS Units
- CSS Layout
- Media Queries
- CSS Functions
- Transforms – 2D and 3D
- Transitions and Animations
- CSS Shadow

Bootstrap

- Introduction to Bootstrap
- Bootstrap Installation Options



Course Curriculum:

- Introduction to Bootstrap 4
- Layouts and Grid System
- Alignments and Offsets

Bootstrap 4 Flexbox, Style and Utilities

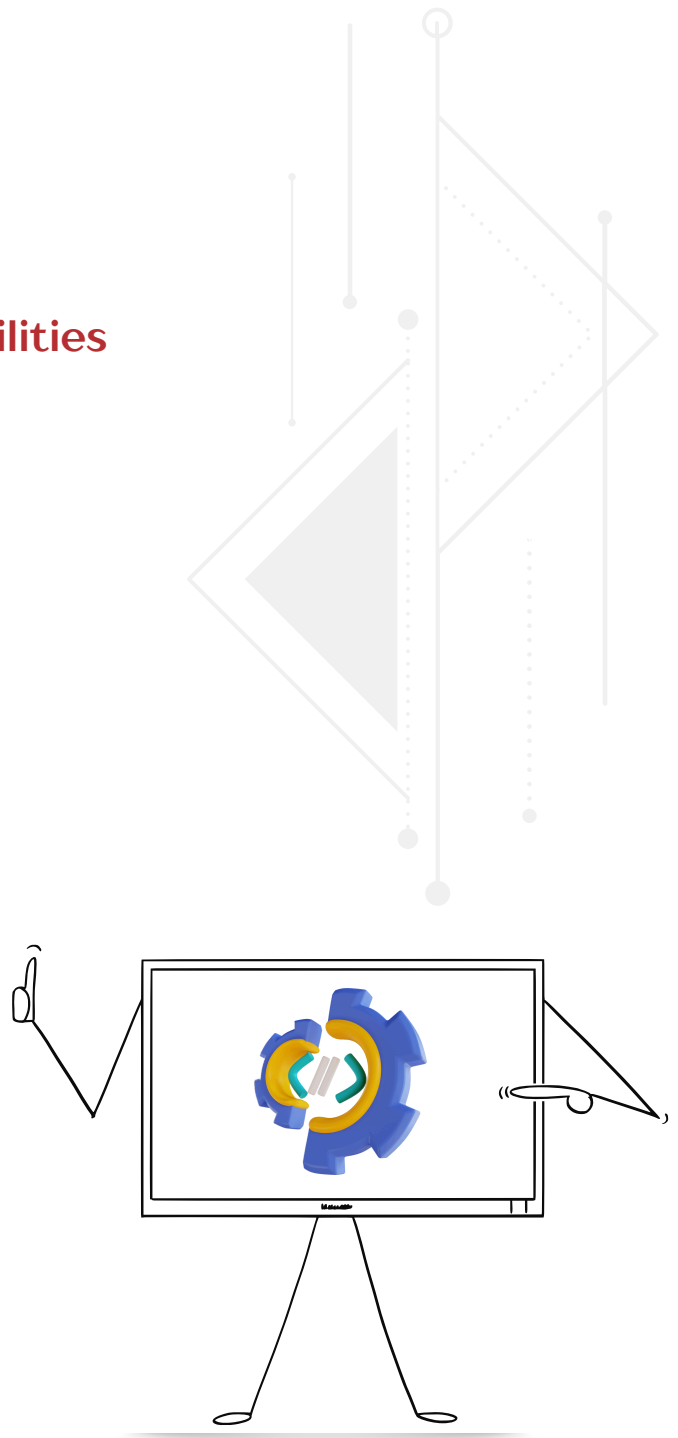
- Bootstrap 4 Flexbox
- Bootstrap 4 Typography
- Bootstrap 4 Colors
- Bootstrap 4 Utilities

Bootstrap 4 CSS Components

- Images and Lists
- Bootstrap Tables
- Buttons, Badges
- Cards, Media Objects
- Forms and Validations
- Nav, Navbar
- Breadcrumb and Pagination
- Progress bars and Spinners

ASP.NET MVC

- Introduction to ASP.NET MVC
- ASP.NET MVC vs. ASP.NET Web Forms
- Advantages of ASP.NET MVC
- Creating ASP.NET MVC5 Project
- Understanding ASP.NET MVC Folder Structure



Course Curriculum:

- Layout, Sections and View Start
- MVC Pattern
- MVC vs. Tier
- Action Methods and Result Types

Working with Data Using Entity Framework

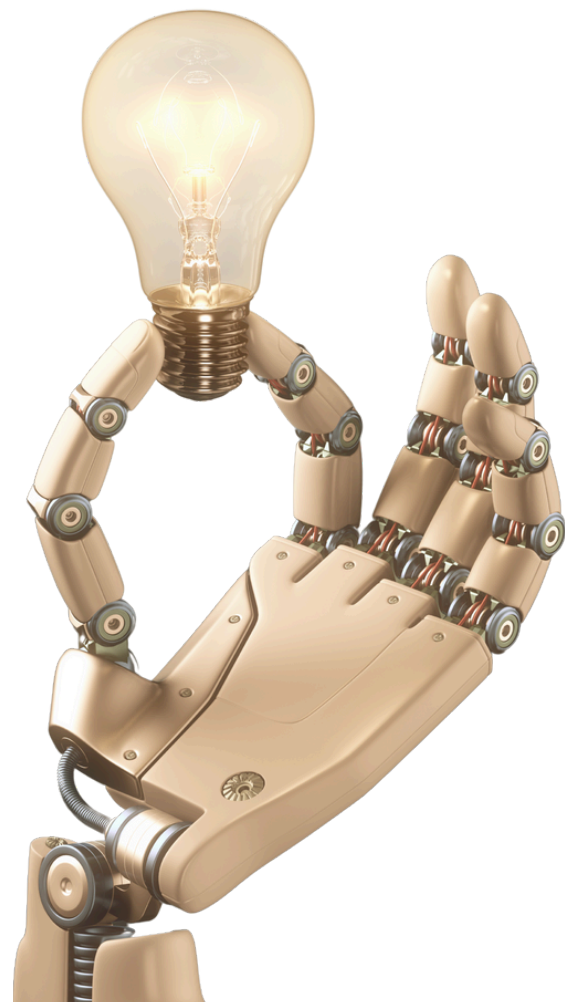
- Introduction to Entity Framework
- Creating Database Using Code First
- Database CRUD Operations
- Working with jQuery AJAX
- Calling Stored Procedure and Functions
- Listing, Paging, Sorting using WebGrid
- AJAX WebGrid

ASP.NET MVC Unit Testing

- Introduction to Unit Testing
- Test Driven Development (TDD)
- .NET Unit Testing Frameworks
- Visual Studio Live Unit Testing
- Creating Test cases using MS Test
- Creating Test cases using xUnit
- Using Mocking Frameworks

ASP.NET MVC Pipeline and Security

- ASP.NET MVC Pipeline
- ASP.NET MVC Filters



Course Curriculum:

- Filters Configurations and Execution
- Creating Custom ASP.NET MVC Filters
- Security : Forms Authentication
- Creating User Login Flow
- Accessing Logged In User Details
- Creating Base Controller

Building RESTful Services with ASP.NET Web API

- Introduction to ASP.NET Web API
- Building ASP.NET Web API
- ASP.NET Web API CRUD Operations
- Testing Web API Using Postman
- Consuming Web API in ASP.NET MVC
- Performing CRUD Operations using ASP.NET MVC

Entity Framework

- Introduction to Entity Framework
- Introduction to ORM Tools
- Introduction to Entity Framework
- Entity Framework Architecture
- Data Modeling Approaches
- Getting Started With EF

Entity Framework Database First Approach

- Database First Approach
- DbContext in EF 6



Course Curriculum:

- EF CRUD Operations Using ASP.NET MVC
- Mapping Stored Procedures and Functions
- Calling Stored Procedures and Functions
- Performing CUD Operations

Entity Framework Code First Approach

- EF Code First Modeling
- EF Conventions
- Database Annotation
- EF Fluent API
- CRUD Operations Using ASP.NET MVC
- Calling Stored Procedure and Functions
- Handling Input and Output Parameters
- Handling Multiple Result sets

EF Code First Migrations & Relationships

- Code First Migrations
- Script Migrations
- Migrations with Existing Database
- Reverse Engineering
- Database Initializers
- Database Relationships:
 - one to one
 - one to many
 - many to many
- EF Inheritance



Course Curriculum:

Entity Framework Advanced Concepts

- Queries
- Entity and States
- Data Loading
- Transactions and Async Query
- Working with Entity States
- Eager Loading vs Explicit Loading
- Handling Concurrency Conflicts
- Working with Transactions in EF

ASP.NET Web API

- Introduction to Web API: Getting Started
- Introduction to SOA
- Introduction to REST
- Introduction to ASP.NET Web API
- WCF vs. Web API
- Building Web API
- Testing API Using Postman

ASP.NET Web API Fundamentals

- Routing – Convention and Attribute Routing
- Route Constraints
- Action Result



Course Curriculum:

- Content Negotiation
- Media Type Formatters
- Model Binding
- Model Validation
- Handling Validation Errors

ASP.NET Web API Advanced Concepts

- ASP.NET Web API Pipeline
- Web API Filters
- Creating Custom Filters
- Exception Handling
- Dependency Injection
- Web API Versioning
- Web API Hosting



About Cloud Upskill

Cloud Upskill courses are designed to enhance your skills which helps to advance your career.

Our courses come with 24/7 support and are delivered by Experts. These courses help learners increase their employability, and our outstanding career services help them jump start their careers in their dream jobs



TODAY

Start Your Journey



Stop doubting yourself, work hard, and make it happen

Cloud Upskill
Learn. Upskill. Succeed!

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