CELEBRATING
12 YEARS

QualityThought®

JOB ORIENTED
JOIP
INTENSIVE PROGRAM

Complete
.NET
Framework

Full Stack

Azure

Dev Ops

AKS

Client Side Technologies

⇨ Html5
⇨ CSS
⇨ Javascript
⇨ Bootstrap

C# Language (*Upto C#11)

⇨ C#.Net
⇨ Language Fundamentals
⇨ Oops
⇨ Strings
⇨ Exception Handling
⇨ Multithreading
⇨ Class Library
⇨ IO
⇨ Collections
⇨ DataAnnotations
⇨ Regular Expressions

RDBMS

⇨ Normalization
⇨ SQLServer

Database Library

⇨ ADO.Net
⇨ EF.Net (SQLServer, MySql and Oracle)
⇨ Linq
⇨ N-Tier Architecture - Application

Database Library

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⇨ EF.Net (SQLServer, MySql and Oracle)
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Web Application Framework Library .Net Framework based*

⇨ ASP.Net
⇨ ASP.Net MVC
⇨ ASP.Net Web API

.Net Core Framework based

⇨ .Net Core
⇨ ASP.Net Core
⇨ ASP.Net MVC Core
⇨ ASP.Net Web API Core - REST
⇨ EF.Net Core
⇨ Other Important Topics

Tools

⇨ Postman, Fiddler

IDE

⇨ Visual Studio 2019,2022 and Visual Studio Code

Server

⇨ IIS

Architecture & Development

⇨ Design Patterns

Testing

⇨ Nunit and Others

Clinet Side Javascript Frameworks

⇨ node introduction
⇨ Angular or React

Repository

⇨ Git

Cloud - Application Level*

⇨ Use of different resources of Azure
⇨ Deployment of .Net Web Applications on Azure
⇨ CI & CD Pipelines using Azure Repos
⇨ Deployment of .Net App using Docker
⇨ Deployment of .Net with Kubernetes - AKS

.Net Core – ASP.Net Core
ASP.Net MVC Core with EF.Core

⇨ Introduction to .Net Core
⇨ Net Core Templates
⇨ Asp.Net Core Templates
⇨ Advantages of .Net core
⇨ Asp.Net MVC Core Template
⇨ Folders for Models, Controllers, Views, wwwroot, css, js, lib
⇨ Architecture, Model, View, Controller
⇨ ConfigureServices
⇨ Middleware
⇨ Dependency injection in .Net core
⇨ Hierarchy of middleware
⇨ UseDeveloperExceptionPage
⇨ UseAuthentication
⇨ UseMvc, UseExceptionHandler
⇨ Profiles
⇨ Environment variables in launchSettings.json
⇨ DbContext, AddMvc, Singleton, AddTransient, AddScoped
⇨ Routing – Endpoints
⇨ Controllers – Actions – Views
⇨ _Layout, ViewStart files
⇨ Razor engine rendering
⇨ use of @ symbol
⇨ RenderBody, RenderSection, Scripts
⇨ HTML helpers & Tag helpers
⇨ Data Annotations – Validations
⇨ PartialViews
⇨ Logging
⇨ Filters
⇨ Database programming with EF.Core
⇨ CRUP Operations
⇨ Working and Customizing Scafolding Views

Asp.Net Core Web Api – REST

⇨ Introduction
⇨ REST web service, Web API & Microservice
⇨ Inside HttpRequest HttpResponse
⇨ Action Verbs – Types
⇨ HttpStatusCodes in WebAPI
⇨ Create First REST Web API
⇨ Configuration and Configuration files in Web API
⇨ Swagger – Installation – Usage
⇨ Postman – for all types of reuest types with data and authorization

⇨ Routes – Practices
⇨ Filters – Practices
⇨ CRUD operations using Web API with EF.Core
⇨ What is CORS? – CORS enablement
⇨ Security in WebAPI
⇨ JWT – Usage in Web API
⇨ Using REST Web API by React Application

Asp.Net AWhat is MVC? , Why MVC?with C#

⇨ Asp.Net MVC
⇨ Introduction, background and difference w.r.t. ASP.Net Webforms
⇨ MVC request pipeline
⇨ Model, View, Controller
⇨ Controller actions
⇨ MVC with Database
⇨ Model Binding
⇨ Layouts
⇨ Partial Views
⇨ Razor Engine
⇨ Data Annotations
⇨ URL Routing
⇨ Model Validation server and client side
⇨ Session Handling
⇨ Exception Handling
⇨ Security
⇨ Interview Questions

Asp.Net WebAPI

⇨ Creating/ Configuring Web API project
⇨ Testing Web API
⇨ Web API Controller
⇨ Parameter Binding
⇨ Action Return type
⇨ Data Formats
⇨ Media Type Formatters
⇨ Web API Filters
⇨ Web API for CRUD
⇨ GetMethod, PostMethod, PutMethod, DeleteMethod
⇨ Consuming Web Api
⇨ Http Client
⇨ Dependency Injection
⇨ WebAPI Hosting
⇨ Interview Questions

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Microsoft
.NET
Fraework

RDBMS

⇨ Normalization
⇨ Importance - Redundancy , Inconsistancy , Performance
⇨ Types of Normalforms
⇨ Keys
⇨ First, 2nd , 3rd Normal
⇨ Practices

SQL Server

⇨ Management Studio
⇨ Tables - Colums - Datatypes - Constraints
⇨ DDL - Create , Drop, Alter
⇨ DML - Insert , Update, Delete
⇨ Select - Complete Structure
⇨ Subqueries
⇨ Joins
⇨ Functions
⇨ Procedures
⇨ Triggers
⇨ Indexes
⇨ Transactions
⇨ Practices

Ado.Net

⇨ Namespaces
⇨ Connected Architecture
⇨ Disconnected Architecture –Dataset
⇨ CURD Operations using above

EF.Net

⇨ ORM - Framework
⇨ Model
⇨ Mapping
⇨ Data access layer
⇨ CodeFirst - with existing database
⇨ CodeFirst - with non existing database
⇨ Seeding - Database Initialization
⇨ Database First
⇨ Data Annotations in EF
⇨ Regualar Expressions in EF
⇨ FluentAPI
⇨ Layered Architecture
⇨ CRUD Operations

Introduction to Frameworks

⇨ .Net Framework
⇨ .Net Standard
⇨ .Net Core
⇨ .Net 5, 6, 7
Introduction to Types of Applications
Introduction to Visual Studio 2019/2022
Net vs Other Technologies

C# Language Fundamentals - C#10.0

⇨ Versions and Frameworks
⇨ Basic Structure of Console Application
⇨ using statement
⇨ Datatypes
⇨ Primitive datatypes - Value Type - Predefined
⇨ Abstract datatypes - Reference Type - Userdefined
⇨ Advanced datatypes
⇨ Type safety
⇨ Variables declaration , initialization
⇨ Basic input and output methods
⇨ Type casting
⇨ Control Structures
⇨ if, if..else, if..else if...else
⇨ switch
⇨ do..while, while, for
⇨ foreach
⇨ Operators
⇨ Strings
⇨ Arrays
⇨ Interview Questions

Oops using C#

⇨ Principles of Oops
⇨ Encapsulation - Datahiding - Abstraction
⇨ Inheritance - Reusabilitiy - Extensibility
⇨ Polymorphism - Overloading - Overriding
⇨ Access Specifiers - Modifiers
⇨ Full Syntax to create a class
⇨ Full Syntax to create a variable
⇨ Full Syntax to create a method
⇨ Class vs Structure
⇨ Concrete Class
⇨ Constructor, Destructor
⇨ Object - Object , Collection Initializers
⇨ Finalizer

- ⇨ Static
- ⇨ Abstract
- ⇨ Sealed
- ⇨ Virtual
- ⇨ Partial
- ⇨ Override
- ⇨ Const , Readonly
- ⇨ ref, out parameters
- ⇨ Var variable
- ⇨ unsafe
- ⇨ class with properties
- ⇨ Indexer
- ⇨ Iterator
- ⇨ Async - await
- ⇨ Interfaces - Importance - Full Abstraction
- ⇨ Anonymous method , class
- ⇨ Interview Questions

Exception Handling - Compiler – Syntax - Runtime - Logical

- ⇨ try..catch..finally structure
- ⇨ Predefined exceptions
- ⇨ Userdefined exceptions
- ⇨ thow
- ⇨ Interview Questions

Delegates

- ⇨ What is delegate
- ⇨ Types of delegates - Single , Multicast
- ⇨ Delegates with Named vs. Anonymous Methods
- ⇨ Interview Questions

Multithreading

- ⇨ Creating and Managing Threads
- ⇨ Thread Life Cycle - Pause , Interupt, Destroy
- ⇨ ThreadPriority - State - Storage - Data
- ⇨ Synchronization
- ⇨ Interview Questions

Class Library - Namespace – DLL - Componentization

- ⇨ and SortedDictionary
- ⇨ Concurrency
- ⇨ Interview Questions

Linq

- ⇨ Linq structure
- ⇨ Write LINQ queries in C#
- ⇨ Using Where , Group by , Order by
- ⇨ Subquery
- ⇨ joins
- ⇨ Practices
- ⇨ Interview Questions

Lambda expressions

- ⇨ anonymous function
- ⇨ Expression lambda
- ⇨ Statement lambda
- ⇨ Practices
- ⇨ Interview Questions

IO

- ⇨ Reader, Writer
- ⇨ StreamReader,StreamWriter
- ⇨ File ,Directory - Related library
- ⇨ Exceptions

Data Annotation

- ⇨ Validations
- ⇨ Mapping
- ⇨ Best practices
- ⇨ Interview Questions

Regular Expression

- ⇨ Character Escapes, Character Classes
- ⇨ Anchors
- ⇨ Grouping Constructs
- ⇨ Quantifiers, Backreference Constructs
- ⇨ Alternation Constructs
- ⇨ Best practices for regular expressions
- ⇨ Interview Questions

STUDENT TRANSFORMATION STAGES
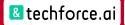
- Student's Enrollment
- 8Hours JOIP Training
- Mock Interview
- Interview Schedule
- Resume Preparation
- JOB
- 3-6 Months Internship
- JOB
- Interview Schedule

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amazon | S&P Global | Aadvi | Medtronic | meslova | {actlogica} Actuarial | Finance | Technology

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